土木工程拓展署
Civil Engineering and Development Department

Agreement No. CE 72/2019 (EP) Contaminated Sediment Disposal Facility at West of Lamma Island - Investigation

Proposal for Field Investigation for Assessment of Waste Management Implications

24 March 2021

Project No.: 0567994

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1. INTRODUCTION

1.1 Background

Since 1992, the Civil Engineering and Development Department (CEDD) of the Hong Kong Special Administrative Region (HKSAR) Government has been managing a number of contaminated sediment disposal facilities in the Hong Kong waters, including the contaminated mud pits (CMPs) to the east of Sha Chau (ESC) and the south of The Brothers (SB). These facilities consist of some series of seabed pits, formed by the removal of existing marine sediments, for disposal of contaminated dredged/ excavated sediment generated from works within Hong Kong. According to the latest estimate, the total remaining capacity of the existing disposal facilities at ESC can only cope with the demand up to 2027 for the public and private projects. A new sediment disposal facility has to be planned for in order to meet the sediment disposal demand after 2027 arising from routine harbour / channel / river maintenance dredging works and other projects.

To address the sediment disposal requirements upon the exhaustion of the existing CMPs, CEDD commissioned a preliminary study to assess the potential sites suitable for development into future CMPs. The study has identified that a portion of the seabed in the West Lamma Channel, between Cheung Chau and Lamma Island, will have good potential for development into a new contaminated sediment disposal facility. It was recommended to develop a new disposal facility consisting of three CMPs with a total capacity of approximate 6 million m^3 to the west of Lamma Island ("the Project").

The Project covers a new marine contaminated sediment disposal facility involving marine dumping and dredging operation (with quantity more than 500,000 m^3). In accordance with Items C.10 and C.12, Part I of Schedule 2 under the Environmental Impact Assessment Ordinance (EIAO), the Project is classified as a designated project and therefore a statutory environmental impact assessment (EIA) is required. In accordance with the requirements of Section 5(1) of the EIAO, application for EIA study brief with the Project Profile for the New Contaminated Sediment Disposal Facility to the West of Lamma Island (No. PP-594/2019) was submitted to the Environmental Protection Department (EPD) on 9 December 2019. The EIA Study Brief of the Project (No. ESB-328/2019) were then issued by EPD on 20 January 2020. The Study Area is indicatively shown in *Figure 1.1*.

A desktop review of baseline information has been conducted to identify the key constraints in developing CMPs within the Study Area. In view of potential interaction with the nearby wave recorder at West Lamma Channel at the northern part of the Study Area and the potential re-provisioned anchorage at the southern part of the Study Area, the area for potential CMP development has been refined and the key area identified for potential CMP development under the Project is presented in *Figure 1.2*. Dredging / excavation works for the Project will be conducted within the key area identified for potential CMP development. In order to obtain further information on sediment quality within the key area for further assessment and design of the CMP for the Project, field investigation through sampling and chemical and biological laboratory tests is planned to be conducted to characterize the sediment / mud concerned for marine disposal option for the EIA study. The methods of sampling and testing are developed with reference to the *Environment, Transport and Works Bureau Technical Circular (Works) No. 34/2002 Management of Dredged/Excavated Sediment* (*ETWB TC(W) No. 34/2002*). Shall any dredging / excavation will be involved in area other than the key area identified for potential CMP development, sampling and testing would be conducted to characterize the sediment / mud for marine disposal option.

1.2 Purpose of the Proposal for Field Investigation for Assessment of Waste Management Implications

As described in *Appendix E* of the EIA Study Brief, "*appropriate field investigation, sampling and chemical and biological laboratory tests to characterise the sediment/mud concerned shall be conducted for marine disposal option. The ranges of parameters to be analysed; the number, type and methods of sampling; sample preservation; chemical and biological laboratory test methods to be used shall be agreed with the Director (with reference to Section 4.4.2(c) of the TM) prior to the*

commencement of the tests and document in the EIA report for consideration." This Proposal for Field Investigation for Assessment of Waste Management Implications presents the sediment sampling and testing programme proposed to characterize the sediment/mud concerned for marine disposal option for the EIA study. Reference has been made to the guidelines of for evaluating and assessing waste management implication as outlined in Annexes 7 and 15 of the EIAO-TM, and approved EIA reports on the EIA Register. It should be noted that the sediment sampling and testing required for application for marine dumping permit under the Dumping At Sea Ordinance (DASO) will be conducted separately.

1.3 Structure of this Proposal for Field Investigation for Assessment of Waste Management Implications

Following this introductory section, the remainder of this Proposal for Field Investigation for Assessment of Waste Management Implications is arranged as follows:

- *Section 2* reviews the existing baseline information on marine sediment quality around the Study Area;
- *Section 3* presents the sediment sampling plan and the procedures for sample collection, handling and storage;
- *Section 4* outlines the procedures for chemical and biological testing and quality assurance / quality control; and
- *Section 5* describes the reporting requirements.

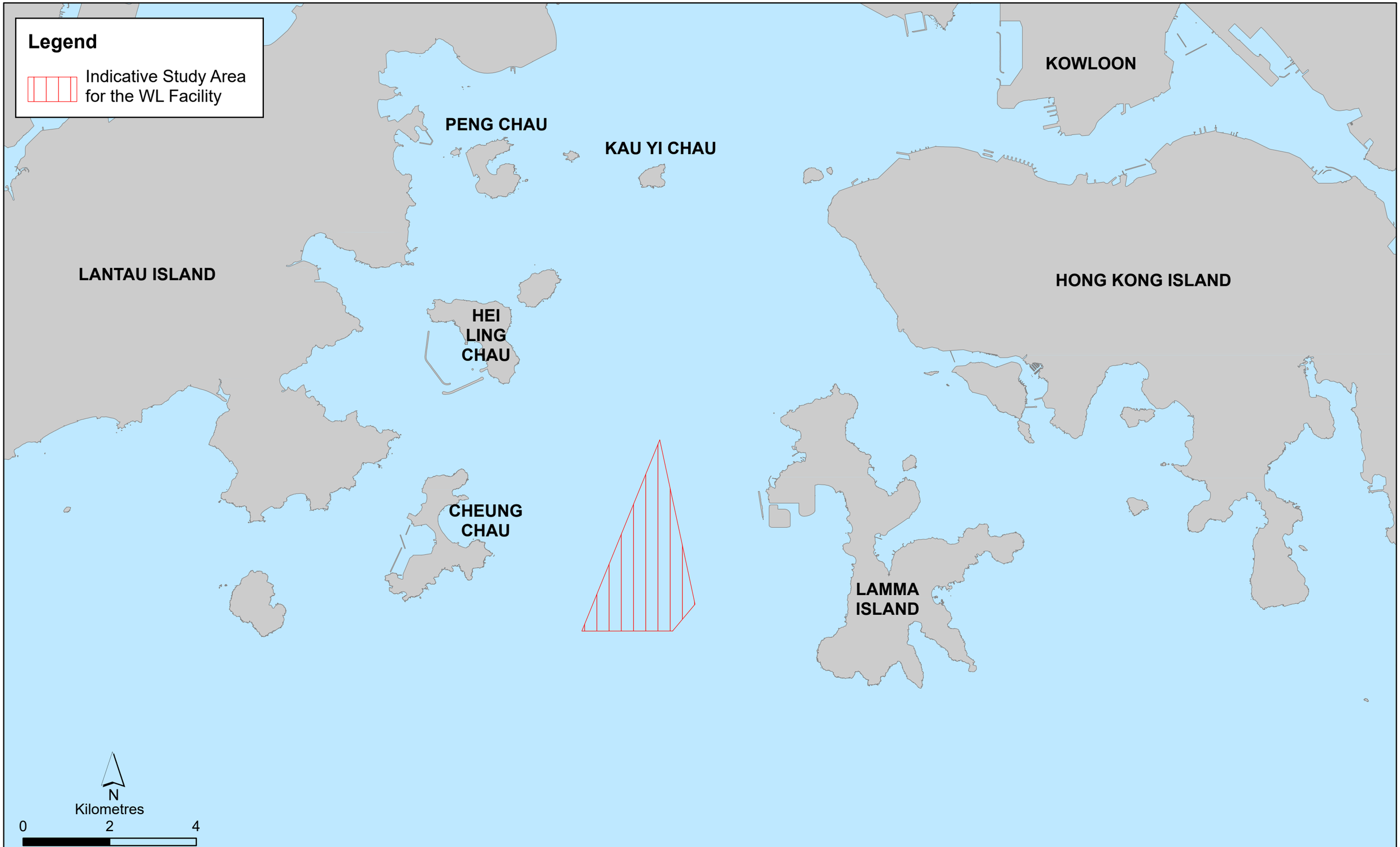

Figure 1.1

Indicative Study Area for the Contaminated Sediment Disposal Facility at West of Lamma Island (WL Facility)

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Legend

Indicative Study Area for the WL Facility

Key Area Identified for Potential CMP Development

LAMMA ISLAND

CHEUNG CHAU

N

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Figure 1.2

Key Area Identified for Potential CMP Development

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2. REVIEW OF EXISTING INFORMATION

2.1 Introduction

The dredging operation of the Project is expected to commence in 2024 and about 8 million m^3 marine sediments have to be excavated to develop CMPs with a total capacity of approximate 6 million m^3 for contaminated sediment disposal. A review was conducted to identify if existing marine sediment quality information is available within the proposed dredging areas. The review also aims to identify whether information gap exists within the proposed dredging areas. Collectively the need for further investigation, i.e. marine sediment sampling and testing, is determined. This review has been conducted based on the best available information at the time of preparing this proposal, primarily the desktop information of historical use and development of the Study Area as well as the results of the initial site investigation for the Project.

2.2 Historical Use and Development

The Project is located in the West Lamma Channel to the west of Lamma Island and to the east of the recommended Traffic Separation Scheme (TSS) between south of Kau Yi Chau (KYC) and Fan Lau (route via south of Cheung Chau). Back in 1997, there was a plan for the provision of additional shelters in this area to support the midstream and container terminal related development (1). However, the Port 2030 Study anticipated that it would be sufficient to enhance the handling capacity of existing container terminals to cope with future growth and thus the planning for Container Terminal No.10 before 2030 was not recommended. In addition, there were no activities / developments conducted within the Study Area. As such, there is no record of previous use or dredging/ excavation history within the Study Area.

2.3 Existing Sediment Quality Data

2.3.1 EPD Routine Marine Sediment Quality Monitoring

Data from EPD routine marine sediment quality monitoring were reviewed and the summary of sediment quality monitoring data from 1987-2018 at representative stations SS3 and SS4 within and in the vicinity of the Study Area is presented in *Table 2.1*. The raw data for stations SS3 and SS4 from 1987-2018 are provided in *Appendix A*. The locations of stations SS3 and SS4 are presented in *Figure 2.1*. The EPD routine monitoring data indicate that the mean contaminant levels in the sediments within and in the vicinity of the Study Area are all below the Lower Chemical Exceedance Levels (LCELs), with some sporadic LCEL/ Upper Chemical Exceedance Level (UCEL) exceedances of Arsenic, Cadmium, Copper, Lead, Mercury, Silver and Zinc occurred mostly between 1989-2004.

Table 2.1 Summary of EPD Sediment Quality Monitoring Data (1987-2018)

Parameter	Guideline		SS3	SS4
	LCEL	UCEL		
Arsenic (mg kg^{-1})	12	42	7.4 (3.0 - 14.0)	8.8 (3.8 - 16.0)
Cadmium (mg kg^{-1})	1.5	4	0.3 (<0.2 - 6.8)	0.4 (<0.2 - 9.1)
Chromium (mg kg^{-1})	80	160	31.0 (17.0 - 62.0)	36.6 (25.0 - 54.0)
Copper (mg kg^{-1})	65	110	25.0 (<1 - 290)	37.4 (18 - 76)

(1) The Comprehensive Study on Marine Activities Associated Risk Assessment and Development of a Future Strategy (MARAD Strategy) for the Optimum Usage of Hong Kong Waters.

Parameter	Guideline		SS3	SS4
	LCEL	UCEL		
Lead (mg kg^{-1})	75	110	37.5 (20 - 190)	44.3 (25 - 73)
Mercury (mg kg^{-1})	0.5	1	0.11 (0.04 - 0.79)	0.15 (0.05 - 0.69)
Nickel (mg kg^{-1})	40	40	20.5 (9.0 - 35.0)	22.1 (11.0 - 32.0)
Silver (mg kg^{-1})	1	2	<1 (<1)	0.58 (<1 - 1.00)
Zinc (mg kg^{-1})	200	270	94.7 (41 - 680)	109.7 (75 - 140)
Total Polychlorinated Biphenyls (PCBs) (µg kg^{-1})	23	180	14.8 (2.5 - 25.0)	15.1 (2.5 - 23.0)
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (PAHs) (µg kg^{-1})	550	3,160	40.5 (<1 – 204)	42.0 (<1 - 231)
High Molecular Weight Polycyclic Aromatic Hydrocarbons (PAHs) (µg kg^{-1})	1,700	9,600	55.1 (<1 - 373)	74.3 (<1 - 209)
Chemical Oxygen Demand (mg kg^{-1})	-	-	15234 (9400 - 28000)	14318 (9600 - 25000)
Total Kjeldahl Nitrogen (mg kg^{-1})	-	-	417 (220 - 960)	431 (92 - 710)

Note:

1. Data presented are mean values of the dataset with minimum and maximum values shown in brackets.
2. LCEL: Lower Chemical Exceedance Level; UCEL: Upper Chemical Exceedance Level

2.3.2 Initial Site Investigation for the Project

To facilitate the preliminary design and layout of the CMP, an initial site investigation was conducted at the northern portion of the Study Area to obtain surface sediment samples for preliminary identification of sediment quality within the Study Area. Sediment sampling and testing of surface grab samples were conducted between 29 May and 19 June 2020 and the sediment sampling locations under 200 x 200m grid arrangement (GS-1 – GS-90) are presented in *Figure 2.1*. It should be noted that because of the close proximity to the West Lamma Channel, sediment sampling was not conducted along the west boundary of the Study Area to minimise potential conflict with nearby marine traffic. The chemical screening results are provided in *Appendix B* and the detailed laboratory testing report is provided in *Appendix C*. The results showed that all the sediment quality parameters required under ETWB TCW No. 34/2002 were lower than the LCELs and hence the surface sediments within the Study Area, in particular the key area identified for potential CMP development under the Project, are uncontaminated, Category L sediments.

2.3.3 Summary

Based on the review of existing sediment quality data within and in the vicinity of the Study Area, the contamination level of the marine sediments within the key area identified for potential CMP development under the Project is likely to be low.

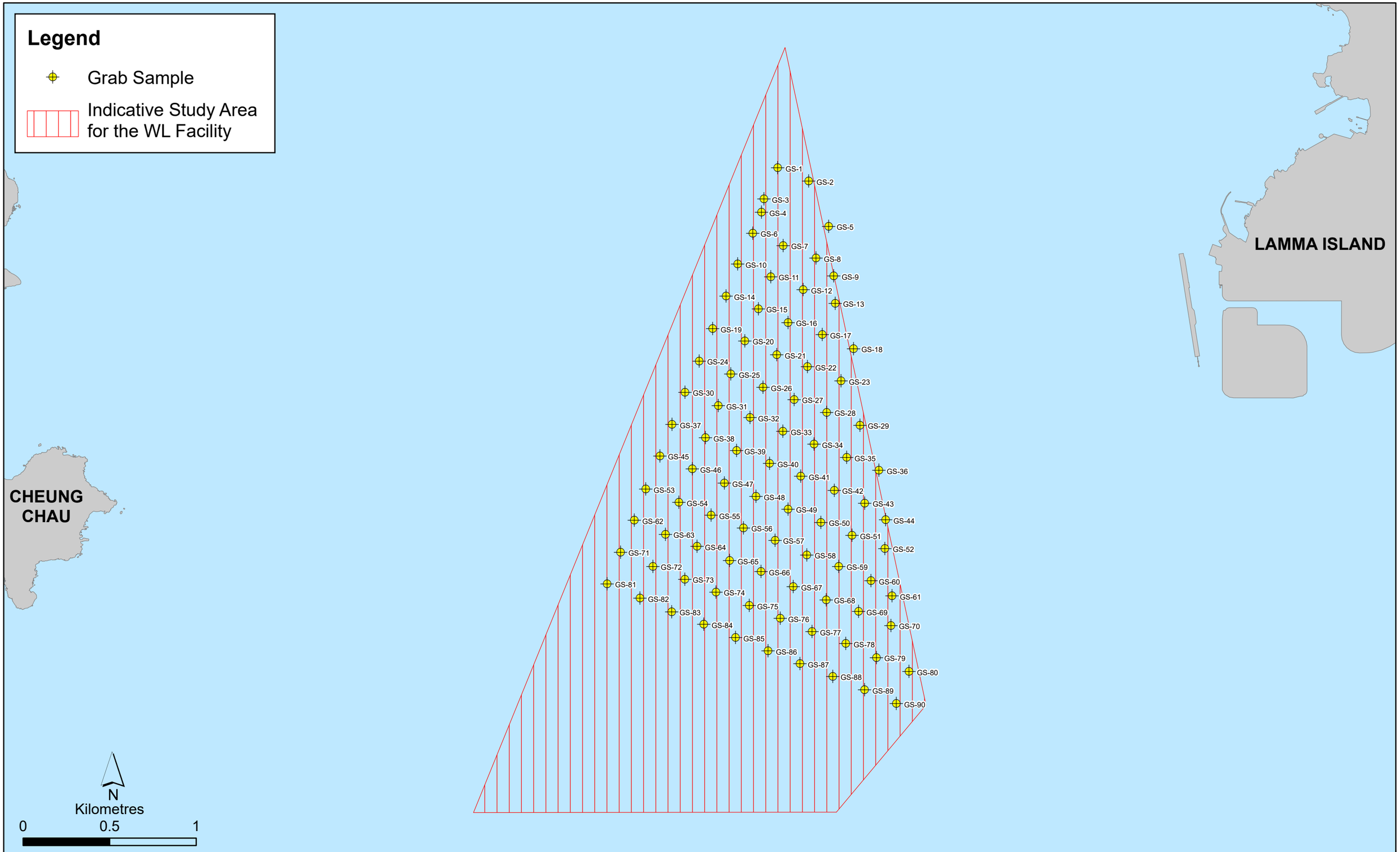

Figure 2.1

Surface Grab Sediment Samples Collected within Study Area

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3. FURTHER SEDIMENT SAMPLING PLAN FOR THE EIA STUDY

3.1 Proposed Sampling Locations

Based on the review of sediment quality data outlined in *Section 2*, the contamination level of the marine sediments along the key area identified for potential CMP development under the Project is likely to be low.

In view of the information gap in sediment quality down to the potential dredging depth (down to ~18 m below seabed), further sediment sampling is proposed to verify the sediment quality along the vertical column of seabed down to the potential dredging depth (2). A total of six (6) sediment sampling locations are proposed for the sediment sampling works as shown in *Figure 3.1* to provide supplementary information on sediment quality along the vertical profile for the design of CMP and assessment under the EIA (3). The exact sampling locations will be determined on site and subject to fine adjustment due to site specific conditions (e.g. presence of obstructions). Coordinates of the proposed sampling locations are presented in *Table 3.1.* It should be noted that this further sediment sampling plan is proposed to provide supplementary information on sediment quality along the vertical profile for the design of CMP and assessment under the EIA, including identification and estimation of dredging / excavation, dredged / excavated sediment / mud transportation and disposal activities and requirements. This further sediment sampling plan will provide sufficient information to estimate the quantities and categorize the sediment / mud for marine disposal in the EIA Report. CEDD will plan to conduct another sediment sampling and testing upon confirming the design and layout of CMPs prior to the construction works (i.e. dredging) of the Project in accordance with ETWB TCW No. 34/2002 to confirm the quantities and quality the sediment / mud to be disposed of in accordance with the Dumping at Sea Ordinance (DASO) (Cap. 466).

Table 3.1 Proposed Sediment Sampling Locations

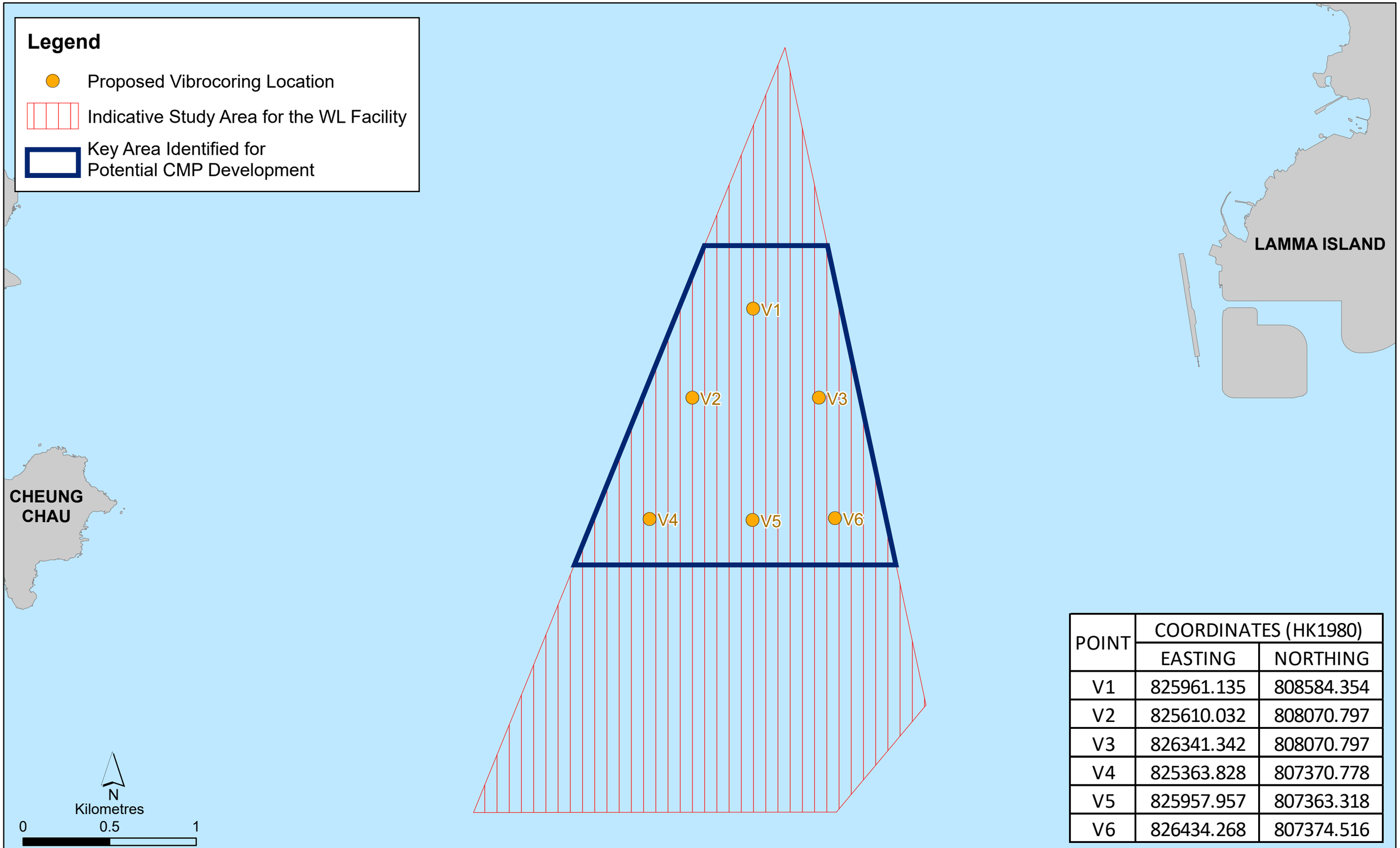
Sampling Location	Coordinates		Potential Maximum Dredging Depth (m below seabed)	Number of Sub-samples
	Easting	Northing		
V1	825961.135	808584.354	~18m	**Total number of sub-samples per sampling location: 9**
V2	825610.032	808070.797		
V3	826341.342	808070.797		
V4	825363.828	807370.778		0.0 - 0.9m
V5	825957.957	807363.318		0.9 – 1.9m
V6	826434.268	807374.516		1.9 - 2.9m
				2.9 – 3.9m
				5.9 – 6.9m
				8.9 – 9.9m
				11.9 – 12.9m
				14.9 – 15.9m
				17.9 – 18.9m

(2) It should be noted that the recommended sampling arrangement for locations expected to be of low contamination level is 200 m x 200 m grid and surface sample only in accordance with *ETWB TC(W) No. 34/2002*. Therefore, the proposed sediment sampling along the vertical column of seabed down to the potential dredging depth is considered additional outside the requirements of the *ETWB TC(W) No. 34/2002* to provide additional sediment quality data for the design of CMPs.

(3) As the results of the initial site investigation suggested that surface sediment quality within the Study Area is generally homogenous with contaminant levels lower than LCEL and the contamination level is expected to be low, it is proposed to conduct the sediment sampling evenly and each location is separated by ~500m, considering the size of each CMP is ~500m x ~500m (~25ha) for a capacity of ~2Mm^3 each.

Legend

- Proposed Vibrocoring Location
- Indicative Study Area for the WL Facility
- Key Area Identified for Potential CMP Development



POINT	COORDINATES (HK1980)	
	EASTING	NORTHING
V1	825961.135	808584.354
V2	825610.032	808070.797
V3	826341.342	808070.797
V4	825363.828	807370.778
V5	825957.957	807363.318
V6	826434.268	807374.516

Figure 3.1

Proposed Location for Sediment Sampling and Testing

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3.2 Sample Collection

Sediment samples will be collected at each of the sampling locations by means of grab sampling at the seabed level and vibrocoring for the vertical sediment profiles below.

A sediment sampling contractor will be engaged to carry out the sediment sampling and provide all necessary equipment located on survey vessels. The typical equipment required is indicated in *Table 3.2*. The survey vessel for the sampling operations shall be equipped with a C-NAV GPS receiver unit for positioning. The positioning system shall be calibrated before the survey to ensure an accuracy of ±1 m or better. The coordinates of the sampling locations shall be recorded by the calibrated positioning equipment.

Table 3.2 List of Typical Sampling Equipment

Equipment	Function
POSITIONING EQUIPMENT	
• DGPS survey system	• Setting out of sampling locations (provides a horizontal accuracy of +/- 1.0m)
SAMPLING EQUIPMENT	
• Vibrocoring equipment • Modified Van Veen grab (or equivalent) of approximately 2 litres capacity (for reference sample)	• Collection of sediment samples
SAMPLE HANDLING EQUIPMENT	
• Cool box with ice packs	• To chill collected samples pending daily collection by HOKLAS accredited laboratory

Vertical profiles of sediment samples will be taken continuously by means of vibrocoring, from 0 – 0.9 m below seabed, 0.9 m down, 1.9 m down, 2.9 m down and then every 3 m to the bottom of the proposed dredging extent. Vibrocoring should terminate at least 1 m below the base of the proposed dredging extent. The sampler will be thoroughly washed with seawater prior to each sampling attempt.

Both cut ends of each core sub-sample will be sealed up with tight fitting rubber caps and duct-taped in place. Each sub-sample will be clearly labelled ‘top’ and ‘bottom’ and with station number, sample depth, sampling date and time, together with full description of the sample.

If there is insufficient sub-sample at depth 0 – 0.9 m below seabed, surface grab samples will be taken using a Modified Van Veen grab (or equivalent) of approximately 2 litres capacity.

Sufficient sediment will be obtained at each sediment sampling location for laboratory testing purposes. The sediment samples for further biological testing, if deemed necessary based on results of chemical screening, shall also be collected at the same time.

The contractor will ensure that adequate quantities of sediment are collected for chemical testing as well as the next Tier of biological testing, based on the laboratory requirement, as presented in *Table 3.3*. The volume of sediment required for chemical screening and biological testing shall be confirmed with the testing laboratory engaged by the contractor prior to the commencement of the sampling programme.

Table 3.3 Proposed Sampling Volume

Tests	Sample Volume
Metals and Metalloids	0.5 litre
Organic	0.5 litre
Biological Response	6.0 litres

3.3 Sample Handling and Storage

The sediment samples collected for testing shall be inventoried and logged on chain of custody forms for transportation. All samples will be double bagged and labelled internally and externally with indelible ink. Chain of custody forms will detail all information relevant to the samples including sample location, date and time of sampling. Samples will be delivered to a laboratory, whose chemical and biological tests have been accredited by HOKLAS, as soon as possible after collection. Samples will be stored at 4°C in the dark during transportation and at the laboratory storage prior to testing.

The sampling bottle and pre-treatment methods shall follow the recommendations stipulated in *ETWB TC(W) No. 34/2002*. The proposed sample container for each test is described in *Table 3.4*.

Table 3.4 Proposed Sampling Container

Tests	Sampling Container	Pre-treatment Procedure**
Metals and Metalloids	High density polyethylene container*	US EPA SW-846***Chapter 3
Organic	Wide mouth borosilicate glass jar with Teflon-lined lid	US EPA SW-846 Chapter 4
Biological Response	Wide mouth borosilicate glass jar with Teflon-lined lid or high density polyethylene container*	US EPA SW-846Chapter 3 or Chapter 4

Note:
* Heavy duty plastic bags may be used for the storage of sediment sample for testing of metals, metalloid and biological response.
** Other equivalent methods may be used subject to approval of EPD.
*** Test Methods for evaluating solid wastes: physical/chemical methods, SW-846, 3rd edition, United States Environmental Protection Agency.

Samples for chemical testing shall be extracted and analysed within 14 days. The laboratory shall ensure that the chemical screening results are ready as soon as possible after the sampling finished so that a Tier III biological testing programme (where required) can be developed and commenced within 8 weeks from the date of sampling.

The sub-samples for potential biological testing (6 litres in total) shall also be stored in the same manner as described above. The decision on the necessity to proceed with biological testing will be made after examining results for chemical screening of sediment samples.

3.3.1 Reference Sample

If Tier III biological testing is considered to be necessary, according to the results of chemical screening of sediment samples, samples for reference sediment shall be taken. The proposed site for collecting reference sediment is in Port Shelter at PS6 (E850234, N820057). Surface sediment will be taken by a Modified Van Veen grab (or equivalent) of approximately 2 litres capacity. The grab sampler will be thoroughly washed with seawater prior to each sampling attempt.

3.3.2 Decontamination Procedures

All equipment in contact with the seabed will be thoroughly decontaminated between each sampling location and sampling attempt by steam cleaning / high-pressure hot water jet and rinsed by seawater.

4. CHEMICAL AND BIOLOGICAL TESTING

All sediment samples shall be tested for all the contaminants and TBT stated in the Table 1 - Analytical Methodology in Appendix B of *ETWB TC(W) No. 34/2002*. The composite samples for biological testing will be tested, where required, for ancillary parameters, including moisture content, grain size distribution, pH, TOC, ammonia and salinity of pore water. The chemical parameters to be analysed, methodology used and detection limits are presented in *Table 4.1*.

Table 4.1 Chemical Testing Parameters

Parameters	**Reporting Limit**	**Preparation Method** [a] ***US EPA Method***	**Determination Method** [a] ***USEPA Method***
Metal (mg/kg dry weight)			
Cadmium	0.2	3050B	6020A or 7000A or 7131A
Chromium	8	3050B	6010C or 7000A or 7190
Copper	7	3050B	6010C or 7000A or 7210
Mercury	0.05	7471A	7471A
Nickel	4	3050B	6010C or 7000A or 7520
Lead	8	3050B	6010C or 7000A or 7420
Silver	0.1	3050B	6020A or 7000A or 7761
Zinc	20	3050B	6010C or 7000A or 7950
Metalloid (mg/kg dry weight)			
Arsenic	1	3050B	6020A or 7000A or 7061A
Organic-PAHs (μg/kg dry weight)			
Low Molecular Weight PAHs [b]	55	3550B or 3540C and 3630C	8260B or 8270C
High Molecular Weight PAHs [c]	170	3550B or 3540C and 3630C	8260B or 8270C
Organic-non-PAHs (μg/kg dry weight)			
Total PCBs [d]	3	3550B or 3540C and 3665A	8082
Organometallics (μg TBT/L in Interstitial Water)			
Tributyltin	0.015	Krone et al. (1989) [f] GC/MS/UNEP/IOC/IAEA [g]	Krone et al. (1989) [f] GC/MS/UNEP/IOC/ IAEA [g]
Ancillary Parameters [e]			
Grain size distribution	2mm-63μm	-	BS1377 (1975)
Total Organic Carbon	0.05%	-	APHA 5310B
Ammonia	20 mg kg^{-1} dry weight	1:5 water extractable	APHA 17e 4500 NH_3-B,E
Moisture Content		Drying at 105˚C	AS1289.1-1991, test 2.3.2A
Salinity of Pore Water	0.1 gL^{-1}		

Notes:

(a) Any methodology for which the laboratory is accredited that will produce equivalent or better results/reporting limits are required may be used subject to approval by DEP.

(b) Low molecular weight PAHs = acenaphthene, acenaphthylene, anthracene, fluorene, naphthalene and phenanthrene.

(c) High molecular weight PAHs = benzo(a)anthracene, benzo(a)pyrene, chrysene, dibenzo(a,h)anthracene, fluoranthene, pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, ideno(1,2,3-c,d)pyrene and benzo(g,h,i)perylene.

(d) The reporting limit is for individual PCB congeners. Total PCBs include 2,4' diCB, 2,2',5 triCB, 2,4,4' triCB, 2,2',3,5' tetraCB, 2,2',5,5' tetraCB, 2,3',4,4' tetraCB, 3,3',4,4' tetraCB, 2,2',4,5,5' pentaCB,

2,3,3',4,4' pentaCB, 2,3',4,4',5 pentaCB, 3,3',4,4',5 pentaCB, 2,2',3,3',44' hexaCB, 2,2',3,,4,4',5' hexaCB, 2,2',4,4',5,5'hexaCB, 3,3',4,4',5,5'hexaCB, 2,2',3,3',4,4',5 heptaCB, 2,2',3,4,4',5,5' heptaCB, 2,2',3,4',5,5',6 heptaCB (ref. The "summation" column of the Table 9.3 of Evaluation of Dredged Material Proposed for Discharge in Waters of the U.S. – Testing Manual (the Inland Testing Manual) published by USEPA).

(e) Analysis of ancillary parameters will be carried out for composite samples of biological testing only.

(f) Krone et al. (1989) A method for analysis of butyltin species and measurement of butyltins in sediment and English Sole livers from Puget Sound, Marine Environmental Research 27 (1989) 1-18. Interstitial water to be obtained by centrifuging sediment and collecting the overlying water.

(g) UNEP/ICO/IAEA refers to the IAEA/s Marine Environmental laboratory reference methods. These methods are available free of charge from UNE/Water or Marine Environmental Studies Laboratory at IAEA's Marine Environment Laboratory. Interstitial water to be obtained by centrifuging sediment and collecting the overlying water.

4.1 Sediment Classification

The tested sediment samples will be classified according to their level of contamination of metals (eight priority metals, including Cd, Cr, Cu, Hg, Ni, Pb, Ag and Zn), metalloid (arsenic), organic–PAHs (low molecular and high molecular weight PAHs), organic-non-PAHs (total polychlorinated biphenyls) and organometallics (tributyltin in interstitial water) as stipulated in the *ETWB TC(W) No. 34/2002*. The Chemical Exceedance Levels (CEL) specified in Appendix A of the *ETWB TC(W) No. 34/2002* serve as criteria for determining the testing and disposal requirements of marine dredged sediments. These include:

Category L: Sediment with all contaminant levels not exceeding the Lower Chemical Exceedance Level (LCEL). The material must be dredged, transported and disposed of in a manner, which minimizes the loss of contaminants either into solution or by resuspension.

Category M: Sediment with any one or more contaminant levels exceeding the Lower Chemical Exceedance Level (LCEL) and none exceeding the Upper Chemical Exceedance Level (UCEL). The material must be dredged and transported with care, and must be effectively isolated from the environment upon final disposal unless appropriate biological tests demonstrate that the material will not adversely affect the marine environment.

Category H: Sediment with any one or more contaminant levels exceeding the Upper Chemical Exceedance Level (UCEL). The material must be dredged and transported with great care, and must be effectively isolated from the environment upon final disposal.

4.2 Necessity to Proceed to Tier III Biological Screening

There is no need to proceed to Tier III for Category L material. However, the Tier III biological testing must be implemented for further analysis of Category M and certain Category H material. For the latter, Tier III screening is only required if one or more contaminant levels exceed 10 times the LCEL. Decision on the necessity to proceed with biological testing will be made after examining chemical screening results of sediment samples.

For biological screening, composite samples prepared for biological testing shall be mixed from up to five (5) samples of the same Category (M or H) which are continuous in vertical or horizontal profile. Sediment classified as Category M shall be subject to biological screening summarized in *Table 4.2* below.

Table 4.2 Biological Testing Parameters

Toxicity Test	Methodology	Endpoints Measured	Failure Criteria
10-day burrowing amphipod toxicity test	USEPA (1994)/ PSEP (1995)	Survival	Mean survival in test sediment is significantly different ($p \leq 0.05$) [(c)] from mean survival in reference sediment **and** mean survival in test sediment < 80% of mean survival in reference sediment.
20-day burrowing polychaete toxicity test	PSEP(1995)	Dry Weight[(a)]	Mean dry weight in test sediment is significantly different ($p \leq 0.05$) [(c)] from mean dry weight in reference sediment **and** mean dry weight in test sediment < 90% of mean dry weight in reference sediment.
48-96 hour larvae (bivalve or echinoderm) toxicity test	PSEP(1995)	Normality Survival[(b)]	Mean normality survival in test sediment is significantly different ($p \leq 0.05$) [(c)] from mean normality survival in reference sediment **and** mean normality survival in test sediment< 80% of mean normality survival in reference sediment.

Notes:
(a) Dry weight refers to total dry weight after deducting dead and missing worms
(b) Normality survival integrates the normality and survival end points and measures survival of only the normal larvae relative to the starting number.
(c) Statistically significantly differences should be determined using appropriate two-sample comparisons (e.g. t-tests) at a probability of $p \leq 0.05$.

Sediment classified as Category H with one or more contaminant levels exceeding 10 times LCEL shall be subject to biological screening as indicated in *Table 4.2* above but in a diluted manner. The samples shall be prepared prior to biological screening as in *Table 4.3* below.

Table 4.3 Sediment Sample Dilution

Sediment Characteristics	Preparation Method
Category H sediment (>10 x LCEL)	Sample to be mixed with 9 portions of reference sediment
Category M sediment or Category H sediment (>10 x LCEL) suspected of ammonia contamination	Additional set of sample (after dilution for Cat. H sediment) to be purged for ammonia removal (for amphipod test only).

Note:
(a) If the ammonia concentration in the overlying water of the test system is ≥20mg/L, purging of sediment is required. This is performed by replacing the overlying water at a rate of 6 volume replacements /24h for 24 hours, and repeated once only if the ammonia level still exceeds 20mg/L.

4.3 Quality Assurance / Quality Control

All tests will be conducted by laboratory accredited by Hong Kong Laboratory Accreditation Scheme (HOKLAS) or one of its Mutual Recognition Arrangement partners. For chemical screening, the following Quality Control (QC) plan and proposed data quality objectives will be implemented as necessary for the laboratory testing:

- Method Blank: the acceptable results shall be less than method detection limit (MDL);
- Duplicate (one for every 20 samples): the acceptable results shall be within ±25% of the mean of duplicate results; and
- Matrix Spike (one for every 20 samples): the acceptable results shall be within ±25% of the recovery of spike concentration.

For biological screening, negative and positive control should be included as appropriate quality assurance/quality control.

5. REPORTING

Subject to the agreement with DEP, sediment sampling and testing as described in *Section 3* and *Section 4* is planned to be conducted in Q1-Q2 2021. The chemical and biological testing will be conducted by a HOKLAS accredited laboratory with reference to the requirements in the *ETWB TC(W) No. 34/2002*. The results will be reported in the EIA Report of the Project.

APPENDIX A

EPD ROUTINE MARINE SEDIMENT QUALITY MONITORING DATA

Water Control Zone	Station	Dates	Sample No	Type	Arsenic (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Nickel (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)	Total Polychlorinated Biphenyls (µg/kg)	Pyrene (µg/kg)	Phenanthrene (µg/kg)	Naphthalene (µg/kg)	Indeno(1,2,3-cd)pyrene (µg/kg)	Fluorene (µg/kg)	Fluoranthene (µg/kg)	Dibenzo(ah)anthracene (µg/kg)	Chrysene (µg/kg)	Benzo(k)fluoranthene (µg/kg)	Benzo(ghi)perylene (µg/kg)	Benzo(b)fluoranthene (µg/kg)	Benzo(a)pyrene (µg/kg)	Benzo(a)anthracene (µg/kg)	Anthracene (µg/kg)	Acenaphthylene (µg/kg)	Acenaphthene (µg/kg)	Chemical Oxygen Demand (mg/kg)	Total Kjeldahl Nitrogen (mg/kg)
Southern	SS3	25/08/1987	1	Bulk Sample	4.6		27	29	48	0.79	14		79																			28000	940
Southern	SS3	11/01/1988	1	Bulk Sample	4.6	0.5	29	31	38	0.34	16		84																			15000	410
Southern	SS3	16/08/1988	1	Bulk Sample	3	0.1	26	38	39	0.2	16		88																			15000	540
Southern	SS3	30/06/1989	1	Bulk Sample	5	5.9	19	21	38	0.16	19		66																			18000	460
Southern	SS3	31/08/1990	1	Bulk Sample	9.6		18	0.5	22	0.11	11		41																			17000	340
Southern	SS3	28/08/1991	1	Bulk Sample	14	6.8	62	290	190	0.05	20		680																			12000	960
Southern	SS3	06/08/1992	1	Bulk Sample	6.7	0.25	25	11	35	0.04	23		65																			13000	532
Southern	SS3	30/10/1992	1	Bulk Sample	7.5	0.25	48	38	38	0.15	25		73																			11000	507
Southern	SS3	09/12/1992	1	Bulk Sample	7	0.25	37	27	36	0.1	20		81																			23000	360
Southern	SS3	26/02/1993	1	Bulk Sample	7	0.25	31	33	45	0.22	20		99																			16000	230
Southern	SS3	22/04/1993	1	Bulk Sample	8.8	0.25	34	35	42	0.15	22		96																			18000	270
Southern	SS3	22/06/1993	1	Bulk Sample	8.7	0.25	36	37	43	0.16	22		100																			15000	370
Southern	SS3	27/04/1994	1	Bulk Sample	9.1	0.1	31	28	35	0.055	21		91																			17000	410
Southern	SS3	04/08/1994	1	Bulk Sample	7.5	0.05	31	27	40	0.06	21		95																			15000	480
Southern	SS3	26/04/1995	1	Bulk Sample	9.5	0.05	31	25	37	0.05	19		75																			15000	360
Southern	SS3	10/08/1995	1	Bulk Sample	6.7	0.05	20	13	22	0.13	15		62																			14000	430
Southern	SS3	23/02/1996	1	Bulk Sample	9.8	0.05	29	24	36	0.065	20		90																			11000	490
Southern	SS3	03/09/1996	1	Bulk Sample	7.2	0.05	24	20	32	0.11	16		75		85	32			5	71		28	26	40	50	73		6				12000	220
Southern	SS3	21/02/1997	1	Bulk Sample	7.6	0.05	31	27	45	0.12	20	0.5	91		31	13			5	25		13	7	13	14	13		2.5				15000	340
Southern	SS3	20/10/1997	1	Bulk Sample	9	0.05	36	29	45	0.13	22	0.5	100		5	2.5			5	8		2.5	2	5	5	4		2.5				14000	320
Southern	SS3	12/02/1998	1	Bulk Sample	5	0.05	17	16	22	0.08	9	0.5	47		2.5	2.5		2.5	5	2.5	2.5	2.5	2	2	3	3	5	2.5	125	50	9700	230
Southern	SS3	31/08/1998	1	Bulk Sample	8	0.05	26	28	39	0.1	20	0.5	82		12	2.5		2.5	5	2.5	2.5	2.5	2	4	4	2	5	2.5	125	50	17000	380
Southern	SS3	09/02/1999	1	Bulk Sample	8.1	0.05	33	29	42	0.06	18	0.5	91	5	19	14		15	5	21	2.5	11	8	32	17	14	10	2.5	2.5	2.5	15000	350
Southern	SS3	09/02/1999	1	Seived Sample (<63 micrometer)	9.1	0.05	49	48	47	0.17	35	0.5	120	2.5	20	9		11	5	17	2.5	2.5	7	16	16	12	9	2.5	2.5	2.5	14000	370
Southern	SS3	30/08/1999	1	Seived Sample (<63 micrometer)	8.2	0.05	39	27	42	0.11	22	0.5	110	25	9	12		6	5	16	2.5	2.5	4	4	7	5	5	2.5	2.5	2.5	12000	420
Southern	SS3	30/08/1999	1	Bulk Sample	7.7	0.05	31	20	35	0.1	21	0.5	89	12	44	48		40	5	62	2.5	38	23	28	39	44	33	6	2.5	2.5	24000	350
Southern	SS3	20/01/2000	1	Seived Sample (<63 micrometer)	8.7	0.05	40	22	41	0.09	26	0.5	85	2.5	6	2.5		2.5	5	11	2.5	2.5	2	2	5	3	1.5	2.5	2.5	2.5	13000	350
Southern	SS3	20/01/2000	1	Bulk Sample	7.4	0.05	32	18	34	0.06	20	0.5	68	2.5	2.5	2.5		2.5	5	13	2.5	2.5	2	4	5	2	1.5	2.5	2.5	2.5	17000	340
Southern	SS3	26/07/2000	1	Bulk Sample	8.4	0.05	31	19	32	0.08	24	0.5	75	2.5	2.5	2.5		2.5	5	10	2.5	2.5	4	5	6	5	4	2.5	2.5	2.5	17000	380
Southern	SS3	26/07/2000	1	Seived Sample (<63 micrometer)	7.2	0.05	36	17	32	0.06	25	0.5	78	2.5	2.5	2.5		2.5	5	10	2.5	2.5	4	5	6	5	4	2.5	2.5	2.5	12000	430
Southern	SS3	17/01/2001	1	Bulk Sample	8	0.05	32	22	34	0.09	22	0.5	89	2.5	19	16		8	5	24	2.5	13	6	11	16	13	10	2.5	2.5	2.5	19000	430
Southern	SS3	17/01/2001	1	Seived Sample (<63 micrometer)	9.5	0.05	43	27	44	0.14	26	0.5	120	6	21	8		7	5	15	2.5	2.5	5	7	8	8	5	2.5	2.5	2.5	12000	440
Southern	SS3	18/07/2001	1	Seived Sample (<63 micrometer)	8.7	0.05	36	19	41	0.09	26	0.5	110	2.5	12	8		6	5	10	2.5	8	5	7	9	6	4	2.5	2.5	2.5	12000	290
Southern	SS3	18/07/2001	1	Bulk Sample	8.8	0.05	36	19	39	0.09	26	0.5	100	2.5	15	8		2.5	5	11	2.5	8	4	5	8	5	4	2.5	2.5	2.5	14000	400
Southern	SS3	17/01/2002	1	Bulk Sample	7.7	0.05	32	22	34	0.1	22	0.5	86	18	12	7	30	2.5	5	8	2.5	2.5	3	3	5	4	3	2.5	2.5	2.5	17000	290
Southern	SS3	24/07/2002	1	Bulk Sample	6	0.05	25	19	28	0.07	17	0.5	84	18	8	2.5	30	5	5	9	2.5	6	4	7	6	7	5	2.5	2.5	2.5	21000	370
Southern	SS3	08/01/2003	1	Bulk Sample	6.1	0.05	25	15	23	0.08	19		75	18	2.5	2.5	30	2.5	5	5	2.5	2.5	1	1	2	2	1.5	2.5	2.5	2.5	25000	240
Southern	SS3	28/07/2003	1	Bulk Sample	7.9	0.05	38	23	41	0.11	25		110	18	27	2.5	30	7	5	17	2.5	12	6	11	8	15	8	2.5	2.5	2.5	22000	350
Southern	SS3	08/01/2004	1	Bulk Sample	6.8	0.05	34	20	33	0.08	23		98	18	11	2.5	30	7	5	7	2.5	2.5	3	5	6	6	3	2.5	2.5	2.5	17000	460
Southern	SS3	30/07/2004	1	Bulk Sample	7	0.05	30	20	37	0.08	22		82	18	10	2.5	30	2.5	5	7	2.5	2.5	2	5	5	5	3	2.5	2.5	2.5	19000	400
Southern	SS3	22/02/2005	1	Bulk Sample	7.3	0.05	36	21	38	0.1	25		100	18	15	5	30	2.5	5	11	2.5	2.5	3	6	7	5	4	2.5	2.5	2.5	15000	470
Southern	SS3	24/08/2005	1	Bulk Sample	7.5	0.05	30	16	36	0.1	22		87	18	11	2.5	30	2.5	5	6	2.5	2.5	2	5	5	4	3	2.5	2.5	2.5	17000	390
Southern	SS3	16/01/2006	1	Bulk Sample	7.9	0.05	37	20	38	0.08	25		100	18	26	7	30	6	5	20	2.5	7	4	7	9	7	6	2.5	2.5	2.5	15000	400
Southern	SS3	12/07/2006	1	Bulk Sample	6.5	0.05	30	15	36	0.08	25		90	18	7	2.5	30	6	5	11	2.5	2.5	3	7	7	6	3	2.5	2.5	2.5	16000	430
Southern	SS3	05/01/2007	1	Bulk Sample	6.5	0.05	28	18	37	0.12	23		92	18	12	2.5	30	2.5	5	11	2.5	2.5	2	4	5	4	3	2.5	2.5	2.5	16000	330
Southern	SS3	08/08/2007	1	Bulk Sample	6.5	0.05	32	19	32	0.15	22		98	18	9	2.5	30	2.5	5	12	2.5	2.5	2	4	5	3	1.5	2.5	2.5	2.5	16000	350
Southern	SS3	10/01/2008	1	Bulk Sample	5.8	0.05	30	16	28	0.08	22		83	18	38	25	30	7	5	27	2.5	7	5	8	8	7	10	2.5	2.5	2.5	15000	390
Southern	SS3	20/08/2008	1	Bulk Sample	7.8	0.05	34	16	30	0.07	19		96	18	9	2.5	30	2.5	5	6	2.5	2.5	2	4	4	3	3	2.5	2.5	2.5	18000	430
Southern	SS3	07/01/2009	1	Bulk Sample	7.7	0.05	31	19	32	0.08	22		87	18	5	2.5	30	2.5	5	11	2.5	2.5	1	3	2	2	1.5	2.5	2.5	2.5	14000	370
Southern	SS3	22/07/2009	1	Bulk Sample	7.4	0.05	29	18	33	0.09	19		74	18	21	2.5	30	2.5	5	11	2.5	2.5	3	8	7	5	4	2.5	2.5	2.5	17000	390
Southern	SS3	20/01/2010	1	Bulk Sample	5.9	0.05	25	14	32	0.08	17		68	18	7	2.5	30	2.5	5	8	2.5	2.5	2	6	4	4	3	2.5	2.5	2.5	16000	340
Southern	SS3	08/07/2010	1	Bulk Sample	6.9	0.05	28	17	32	0.07	19		69	18	2.5	2.5	30	2.5	5	2.5	2.5	2.5	0.5	2	3	2	1.5	2.5	2.5	2.5	17000	320
Southern	SS3	17/02/2011	1	Bulk Sample	8.4	0.05	31	16	33	0.11	20		80	18	25	23	30	10	5	26	2.5	13	6	12	15	12	13	2.5	2.5	2.5	13000	470
Southern	SS3	20/07/2011	1	Bulk Sample	8	0.05	39	25	46	0.1	26		120	18	8	6	30	7	5	7	2.5	2.5	3	8	8	7	4	2.5	2.5	2.5	9800	360
Southern	SS3	11/01/2012	1	Bulk Sample	4.7	0.05	21	12	28	0.17	15		67	18	17	8	30	11	5	21	2.5	6	6	11	11	12	10	2.5	2.5	2.5	13000	440
Southern	SS3	09/08/2012	1	Bulk Sample	7.2	0.05	28	16	31	0.06	19		78	18	7	7	30	6	5	9	2.5	2.5	3	6	5	5	4	2.5	2.5	2.5	9400	460
Southern	SS3	21/01/2013	1	Bulk Sample	6.2	0.05	24	15	28	0.08	18		67	18	2.5	9	30	2.5	5	2.5	2.5	2.5	1	5	3	3	1.5	2.5	2.5	2.5	12000	440
Southern	SS3	08/08/2013	1	Bulk Sample	7.2	0.05	28	17	33	0.17	20		77	18	2.5	6	30	2.5	5	7	2.5	2.5	3	4	4	6	3	2.5	2.5	2.5	13000	420
Southern	SS3	14/03/2014	1	Bulk Sample	6.9	0.05	27	16	30	0.06	17		78	18	15	8	30	6	5	16	2.5	2.5	4	8	8	8	8	2.5	2.5	2.5	14000	500
Southern	SS3	09/07/2014	1	Bulk Sample	5.9	0.05	27	15	20	0.06	17		82	18	11	6	30	5	5	9	2.5	2.5	3	8	5	8	4	2.5	66	2.5	12000	530
Southern	SS3	09/01/2015	1	Bulk Sample	6.2	0.05	26	14	30	0.08	17		79	18	2.5	8	30	2.5	5	10	2.5	2.5	2	5	4	4	3	2.5	2.5	2.5	12000	470
Southern	SS3	29/07/2015	1	Bulk Sample	7.1	0.05	34	17	37	0.1	21		100	18	42	13	70	7	26	11	2.5	2.5	4	8	5	5	4	2.5	2.5	2.5	13000	530
Southern	SS3	18/01/2016	1	Bulk Sample	6	0.05	30	16	35	0.07	21		93	18	23	5	120	7	5	8	2.5	2.5	4	9	6	5	5	2.5	2.5	2.5	15000	460
Southern	SS3	24/08/2016	1	Bulk Sample	8.4	0.05	25	14	34	0.17	18		110	18	30	11	30	6	5	8	2.5	2.5	3	8	6	4	4	2.5	2.5	2.5	11000	580
Southern	SS3	22/02/2017	1	Bulk Sample	8.3	0.05	30	21	39	0.1	20		96	18	8	14	99	2.5	5	10	2.5	2.5	3	8	5	6	4	2.5	2.5	81	10000	470
Southern	SS3	27/07/2017	1	Bulk Sample	7.8	0.05	28	17	32	0.07	20		80	18	9	7	30	6	5	8	2.5	2.5	3	6	5	4	3	2.5	2.5	2.5	16000	420
Southern	SS3	14/02/2018	1	Bulk Sample	6.8	0.05	21	13	31	0.07	15		69	18	7	2.5	30	2.5	5	6	2.5	2.5	2	4	2	3	1.5	2.5	2.5	2.5	14000	450
Southern	SS3	16/07/2018	1	Bulk Sample	9.3	0.05	29	16	34	0.08	21		89	18	2.5	2.5	30	2.5	5	2.5	2.5	2.5	2	5	3	3	1.5	2.5	2.5	2.5	14000	520

Water Control Zone	Station	Dates	Sample No	Type	Arsenic (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Nickel (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)	Total Polychlorinated Biphenyls (µg/kg)	Pyrene (µg/kg)	Phenanthrene (µg/kg)	Naphthalene (µg/kg)	Indeno(1,2,3-cd)pyrene (µg/kg)	Fluorene (µg/kg)	Fluoranthene (µg/kg)	Dibenzo(ah)anthracene (µg/kg)	Chrysene (µg/kg)	Benzo(k)fluoranthene (µg/kg)	Benzo(ghi)perylene (µg/kg)	Benzo(b)fluoranthene (µg/kg)	Benzo(a)pyrene (µg/kg)	Benzo(a)anthracene (µg/kg)	Anthracene (µg/kg)	Acenaphthylene (µg/kg)	Acenaphthene (µg/kg)	Chemical Oxygen Demand (mg/kg)	Total Kjeldahl Nitrogen (mg/kg)
Southern	SS4	31/07/1987	1	Bulk Sample	5.9		32	32	45	0.18	11		90																			16000	92
Southern	SS4	11/01/1988	1	Bulk Sample																														
Southern	SS4	22/08/1988	1	Bulk Sample	3.8	0.1	33	65	49	0.27	16		78																			13000	640
Southern	SS4	30/06/1989	1	Bulk Sample	6.1	6.5	29	49	52	0.38	23		96																			17000	580
Southern	SS4	31/08/1990	1	Bulk Sample	10	3.7	38	65	59	0.35	18		100																			17000	500
Southern	SS4	28/08/1991	1	Bulk Sample	16	9.1	42	56	73	0.06	20		120																			11000	600
Southern	SS4	06/08/1992	1	Bulk Sample	8.7	0.25	33	52	51	0.18	25		97																			14000	559
Southern	SS4	29/10/1992	1	Bulk Sample	9.9	0.25	54	76	62	0.28	32		120																			25000	478
Southern	SS4	09/12/1992	1	Bulk Sample	9	0.25	45	66	48	0.17	23		120																			14000	450
Southern	SS4	26/02/1993	1	Bulk Sample	8.8	0.25	38	42	50	0.18	23		120																			15000	210
Southern	SS4	22/04/1993	1	Bulk Sample	9	0.25	35	49	41	0.17	20		100																			15000	290
Southern	SS4	22/06/1993	1	Bulk Sample	9.6	0.25	38	52	47	0.06	21		100																			17000	370
Southern	SS4	27/04/1994	1	Bulk Sample	11	0.5	26	29	69	0.045	16		81																			15000	330
Southern	SS4	04/08/1994	1	Bulk Sample	6.7	0.05	28	32	38	0.15	16		92																			17000	410
Southern	SS4	26/04/1995	1	Bulk Sample	12	0.05	37	36	49	0.065	22		100																			15000	480
Southern	SS4	10/08/1995	1	Bulk Sample	12	0.05	35	44	41	0.16	21		110																			13000	530
Southern	SS4	23/02/1996	1	Bulk Sample	11	0.05	36	28	41	0.16	23		110																			13000	350
Southern	SS4	03/09/1996	1	Bulk Sample	11	0.05	43	55	45	0.22	26		130		24	2.5			5	23		13	8	10	17	16		2.5				15000	300
Southern	SS4	21/02/1997	1	Bulk Sample	11	0.05	41	45	46	0.14	25	0.5	120		2.5	2.5			5	6		6	3	7	7	5		2.5				16000	370
Southern	SS4	20/10/1997	1	Bulk Sample	8.7	0.05	41	39	49	0.15	23	0.5	120		11	2.5			5	11		5	12	15	19	18		2.5				11000	320
Southern	SS4	12/02/1998	1	Bulk Sample	11	0.05	42	52	55	0.16	25	0.5	130		8	2.5		5	5	10	2.5	2.5	4	8	8	6	5	2.5	125	50	12000	370
Southern	SS4	31/08/1998	1	Bulk Sample	9.4	0.05	39	46	50	0.17	26	0.5	110		5	2.5		2.5	5	2.5	2.5	2.5	3	7	5	4	5	2.5	125	50	15000	410
Southern	SS4	09/02/1999	1	Seived Sample (<63 micrometer)	10	0.05	47	62	52	0.13	30	0.5	130	6	27	7		16	5	17	2.5	6	9	21	19	15	11	2.5	2.5	2.5	14000	310
Southern	SS4	09/02/1999	1	Bulk Sample	9.8	0.05	38	48	50	0.21	18	1	110	5	21	17		14	5	23	2.5	7	10	31	22	14	13	2.5	2.5	2.5	15000	290
Southern	SS4	30/08/1999	1	Seived Sample (<63 micrometer)	9	0.05	44	47	51	0.15	24	0.5	130	21	12	14		10	5	18	2.5	5	7	8	11	9	6	2.5	2.5	2.5	14000	400
Southern	SS4	30/08/1999	1	Bulk Sample	8.9	0.05	41	44	49	0.21	23	0.5	130	23	24	18		18	5	29	2.5	25	14	19	24	15	18	2.5	2.5	2.5	15000	390
Southern	SS4	20/01/2000	1	Bulk Sample	9.7	0.05	36	41	45	0.15	21	0.5	93	2.5	19	9		14	5	33	2.5	15	13	15	24	21	17	2.5	2.5	2.5	18000	400
Southern	SS4	20/01/2000	1	Seived Sample (<63 micrometer)	12	0.05	46	50	57	0.69	26	0.5	120	2.5	9	2.5		6	5	13	2.5	2.5	5	7	10	8	5	2.5	2.5	2.5	15000	380
Southern	SS4	26/07/2000	1	Bulk Sample	10	0.05	42	41	48	0.12	27	0.5	110	2.5	2.5	11		11	5	16	2.5	5	8	11	13	13	8	2.5	2.5	2.5	15000	420
Southern	SS4	26/07/2000	1	Seived Sample (<63 micrometer)	11	0.05	48	44	49	0.13	31	0.5	120	2.5	2.5	11		11	5	16	2.5	5	8	11	13	13	8	2.5	2.5	2.5	14000	440
Southern	SS4	17/01/2001	1	Seived Sample (<63 micrometer)	11	0.05	46	41	50	0.15	26	0.5	130	8	19	2.5		8	5	10	2.5	6	6	9	10	9	4	2.5	2.5	2.5	12000	450
Southern	SS4	17/01/2001	1	Bulk Sample	8.9	0.05	39	36	43	0.13	23	0.5	120	2.5	12	14		16	5	19	2.5	14	9	19	18	18	9	2.5	2.5	2.5	14000	380
Southern	SS4	31/07/2001	1	Seived Sample (<63 micrometer)	9.4	0.05	41	34	44	0.09	26	0.5	120	2.5	9	5		8	5	8	2.5	9	6	8	9	8	4	2.5	2.5	2.5	13000	390
Southern	SS4	31/07/2001	1	Bulk Sample	11	0.05	44	43	50	0.08	25	0.5	130	2.5	28	12		16	5	19	5	23	12	18	19	19	10	2.5	2.5	2.5	15000	350
Southern	SS4	17/01/2002	1	Bulk Sample	9.2	0.05	39	34	43	0.14	24	0.5	110	18	19	10	30	12	5	19	2.5	8	10	13	16	17	11	2.5	2.5	2.5	16000	360
Southern	SS4	24/07/2002	1	Bulk Sample	8.7	0.05	35	37	39	0.14	20	0.5	120	18	2.5	2.5	30	8	5	9	2.5	7	6	10	8	10	5	2.5	2.5	2.5	15000	390
Southern	SS4	08/01/2003	1	Bulk Sample	6.2	0.05	26	20	25	0.08	16		75	18	2.5	2.5	30	2.5	5	2.5	2.5	2.5	5	4	7	7	5	2.5	2.5	2.5	16000	240
Southern	SS4	28/07/2003	1	Bulk Sample	8.8	0.05	41	35	43	0.11	26	1	120	18	16	2.5	30	8	5	10	2.5	7	6	12	7	13	5	2.5	2.5	2.5	16000	340
Southern	SS4	08/01/2004	1	Bulk Sample	7.8	0.05	37	35	38	0.11	22		110	18	22	2.5	30	11	5	16	2.5	11	7	9	11	15	9	2.5	2.5	2.5	14000	420
Southern	SS4	30/07/2004	1	Bulk Sample	8.3	0.05	39	35	49	0.13	24	1	120	18	17	2.5	30	11	5	11	2.5	11	5	10	11	10	7	2.5	2.5	2.5	16000	360
Southern	SS4	22/02/2005	1	Bulk Sample	6.9	0.05	29	18	31	0.09	21		78	18	19	6	30	2.5	5	15	2.5	2.5	2	5	5	4	4	2.5	2.5	2.5	23000	400
Southern	SS4	24/08/2005	1	Bulk Sample	6.4	0.05	31	18	36	0.08	21		91	18	23	12	30	2.5	5	14	2.5	6	3	7	7	6	6	2.5	2.5	2.5	18000	500
Southern	SS4	16/01/2006	1	Bulk Sample	6.1	0.05	30	18	33	0.08	20		88	18	11	2.5	30	2.5	5	7	2.5	2.5	2	4	4	3	1.5	2.5	2.5	2.5	16000	390
Southern	SS4	12/07/2006	1	Bulk Sample	7.8	0.05	36	28	43	0.11	26		110	18	15	6	30	15	5	16	2.5	12	9	17	17	19	10	2.5	2.5	2.5	15000	480
Southern	SS4	05/01/2007	1	Bulk Sample	7.2	0.05	31	31	41	0.2	22		110	18	35	18	30	11	5	34	2.5	14	7	14	15	14	13	2.5	2.5	2.5	14000	260
Southern	SS4	08/08/2007	1	Bulk Sample	7.5	0.05	40	38	44	0.14	25		130	18	13	2.5	30	9	5	16	2.5	6	5	10	10	8	6	2.5	2.5	2.5	14000	320
Southern	SS4	10/01/2008	1	Bulk Sample	7.1	0.05	36	26	32	0.12	22		110	18	13	2.5	30	6	5	7	2.5	2.5	3	8	5	5	5	2.5	2.5	2.5	15000	710
Southern	SS4	20/08/2008	1	Bulk Sample	8.3	0.05	47	28	35	0.12	19		140	18	15	2.5	30	9	5	12	2.5	5	6	14	12	10	7	2.5	2.5	2.5	15000	430
Southern	SS4	07/01/2009	1	Bulk Sample	7.9	0.05	35	31	39	0.12	21		110	18	12	2.5	30	7	5	11	2.5	2.5	4	9	8	7	5	2.5	2.5	2.5	14000	380
Southern	SS4	22/07/2009	1	Bulk Sample	8.9	0.05	37	32	42	0.12	23		100	18	28	5	30	7	5	17	2.5	7	5	13	12	10	9	2.5	2.5	2.5	14000	410
Southern	SS4	20/01/2010	1	Bulk Sample	7.5	0.05	33	27	41	0.13	20		94	18	12	2.5	30	13	5	11	6	2.5	7	17	11	16	6	2.5	2.5	2.5	14000	380
Southern	SS4	08/07/2010	1	Bulk Sample	7.3	0.05	36	30	43	0.1	22		100	18	12	2.5	30	11	5	18	2.5	6	6	11	13	11	9	2.5	2.5	2.5	16000	540
Southern	SS4	17/02/2011	1	Bulk Sample	8	0.05	36	30	42	0.1	22		100	18	9	68	30	25	5	9	7	7	12	29	26	24	9	2.5	2.5	2.5	12000	520
Southern	SS4	20/07/2011	1	Bulk Sample	8.2	0.05	39	35	46	0.13	24		120	18	16	6	30	14	5	18	2.5	9	9	19	16	19	12	2.5	2.5	2.5	11000	460
Southern	SS4	11/01/2012	1	Bulk Sample	6.9	0.05	32	28	44	0.13	20		110	18	11	10	30	11	5	15	2.5	6	6	14	13	12	8	2.5	2.5	2.5	14000	450
Southern	SS4	09/08/2012	1	Bulk Sample	9.9	0.05	38	34	46	0.13	24		120	18	16	8	30	13	5	19	2.5	7	7	14	15	13	10	2.5	2.5	2.5	11000	530
Southern	SS4	21/01/2013	1	Bulk Sample	9.1	0.1	33	33	41	0.14	22		100	18	36	34	30	20	5	33	2.5	12	11	30	19	29	17	2.5	2.5	2.5	11000	550
Southern	SS4	08/08/2013	1	Bulk Sample	8.2	0.05	31	31	38	0.21	22		94	18	7	8	30	12	5	12	2.5	2.5	5	13	9	12	5	2.5	2.5	2.5	10000	520
Southern	SS4	14/03/2014	1	Bulk Sample	6.2	0.05	26	18	25	0.1	17		92	18	2.5	10	30	5	12	7	2.5	2.5	3	10	4	6	3	2.5	2.5	2.5	9600	440
Southern	SS4	09/07/2014	1	Bulk Sample	7.4	0.05	33	27	27	0.09	19		110	18	35	12	30	12	5	15	2.5	5	7	17	11	17	8	2.5	64	2.5	13000	610
Southern	SS4	09/01/2015	1	Bulk Sample	6.7	0.05	32	23	36	0.12	18		100	18	22	11	30	9	5	14	2.5	7	7	14	10	14	8	2.5	2.5	2.5	11000	510
Southern	SS4	29/07/2015	1	Bulk Sample	7.3	0.05	35	26	41	0.13	21		110	18	42	8	30	6	20	11	2.5	2.5	4	8	6	8	5	2.5	2.5	2.5	13000	530
Southern	SS4	18/01/2016	1	Bulk Sample	6.9	0.05	34	27	42	0.1	21		110	18	43	7	210	11	5	13	2.5	8	6	14	10	7	4	2.5	2.5	2.5	14000	490
Southern	SS4	24/08/2016	1	Bulk Sample	8.9	0.05	25	22	39	0.16	17		120	18	36	7	30	7	5	7	2.5	2.5	4	9	5	6	4	2.5	2.5	2.5	13000	490
Southern	SS4	22/02/2017	1	Bulk Sample	7.8	0.05	27	25	42	0.13	18		100	18	8	11	160	5	5	8	2.5	2.5	4	9	7	7	4	2.5	2.5	50	9700	480
Southern	SS4	27/07/2017	1	Bulk Sample	8.1	0.05	30	21	37	0.1	21		110	18	11	5	30	9	5	8	2.5	2.5	5	9	6	8	4	2.5	2.5	2.5	12000	510
Southern	SS4	14/02/2018	1	Bulk Sample	8.7	0.05	30	27	38	0.17	19		130	18	11	2.5	30	12	5	10	2.5	2.5	5	13	6	8	5	2.5	2.5	2.5	11000	670
Southern	SS4	16/07/2018	1	Bulk Sample	12	0.05	39	34	40	0.13	25		120	18	9	2.5	30	7	5	9	2.5	2.5	4	9	7	9	5	2.5	2.5	2.5	13000	550

APPENDIX B

CHEMICAL SCREENING RESULTS FOR SURFACE GRAB SAMPLES OBTAINED FROM INITIAL SITE INVESTIGATION

CEDD Maintenance Contract for Seawalls and Navigation Channels (2016 - 2021)
FM/002/1601 - West of Lamma Island GI Works for the Proposed Contaminated Sediment Disposal Facility
Preliminary Chemical Screening Results

LCEL, mg/kg	UCEL, mg/kg	Sample No.	33575-1	33575-2	33575-3	33575-4
		Sample ID	GS-1	GS-2	GS-3	GS-4
		Sampling Location	826100E 809399N	826286E 809323N	826025E 809213N	826210E 809138N
		Sampling Depth	0.0-0.9m	0.0-0.9m	0.0-0.9m	0.0-0.9m
		Sampling Date	29/5/2020	29/5/2020	29/5/2020	29/5/2020
		Sampling Time	11:40	11:25	11:10	10:50
1.5	4	Cd, mg/kg	0.07	0.07	0.07	0.06
80	160	Cr, mg/kg	27	27	29	29
65	110	Cu, mg/kg	27	27	24	28
0.5	1	Hg, mg/kg	0.26	0.11	0.11	0.09
40	40	Ni, mg/kg	17	18	19	18
75	110	Pb, mg/kg	33	32	34	33
1	2	Ag, mg/kg	0.19	0.18	0.25	0.25
200	270	Zn, mg/kg	96	91	95	94
12	42	As, mg/kg	9.6	9	10	9.7
		Acenaphtene, µg/kg	<8	<8	<8	<8
		Acenaphtylene, µg/kg	<8	<8	<8	<8
		Anthracene, µg/kg	<8	<8	<8	<8
		Fluorene, µg/kg	<8	<8	<8	<8
		Naphthalene, µg/kg	<10	<10	<10	<10
		Phenanthrene, µg/kg	<8	<8	<8	<8
550	3160	Low molecular weight PAHs	<50	<50	<50	<50
		Benzo(a)anthracene, µg/kg	<10	<10	<10	11
		Benzo(a)pyrene, µg/kg	<10	<10	<10	15
		Benzo(b)fluoranthene , µg/kg	11	<10	<10	20
		Benzo(k)fluoranthene, µg/kg	<10	<10	<10	<10
		Benzo(g,h,i)perylene, µg/kg	<10	<10	<10	12
		Chrysene, µg/kg	<10	<10	<10	<10
		Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10
		Fluoranthene, µg/kg	<10	<10	<10	12
		Indeno(1,2,3-cd)pyrene, µg/kg	<10	<10	<10	<10
		Pyrene, µg/kg	<10	<10	<10	12
1700	9600	High molecular weight PAHs	101	<100	<100	122
		2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
23	280	Total PCB	<18	<18	<18	<18
		Tributyltin (TBT) in Interstitial water, µg/L	<0.01	<0.01	<0.01	<0.01

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Preliminary Chemical Screening Results

		Sample No.	33575-5	33628-1	33628-2	33628-3
		Sample ID	GS-5	GS-6	GS-7	GS-8
		Sampling Location	826395E 809062N	825950E 809028N	826135E 808953N	826320E 808877N
		Sampling Depth	0.0-0.9m	0.0-0.9m	0.0-0.9m	0.0-0.9m
		Sampling Date	29/5/2020	10/6/2020	10/6/2020	10/6/2020
LCEL, mg/kg	UCEL, mg/kg	Sampling Time	10:35	9:15	9:30	9:50
1.5	4	Cd, mg/kg	0.25	<0.05	0.06	0.07
80	160	Cr, mg/kg	49	21	27	32
65	110	Cu, mg/kg	29	31	33	42
0.5	1	Hg, mg/kg	0.09	0.06	0.08	0.14
40	40	Ni, mg/kg	21	13	17	19
75	110	Pb, mg/kg	34	25	32	36
1	2	Ag, mg/kg	0.22	0.16	0.17	0.19
200	270	Zn, mg/kg	95	70	89	98
12	42	As, mg/kg	10	7.1	9.3	9.8
		Acenaphtene, µg/kg	<8	<8	<8	<8
		Acenaphtylene, µg/kg	<8	<8	<8	<8
		Anthracene, µg/kg	<8	<8	<8	<8
		Fluorene, µg/kg	<8	<8	<8	<8
		Naphthalene, µg/kg	<10	<10	<10	<10
		Phenanthrene, µg/kg	<8	<8	<8	<8
550	3160	Low molecular weight PAHs	<50	<50	<50	<50
		Benzo(a)anthracene, µg/kg	<10	27	29	19
		Benzo(a)pyrene, µg/kg	11	15	47	31
		Benzo(b)fluoranthene , µg/kg	14	70	65	49
		Benzo(k)fluoranthene, µg/kg	<10	10	32	19
		Benzo(g,h,i)perylene, µg/kg	<10	27	29	24
		Chrysene, µg/kg	<10	20	21	13
		Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10
		Fluoranthene, µg/kg	<10	50	53	19
		Indeno(1,2,3-cd)pyrene, µg/kg	<10	25	25	26
		Pyrene, µg/kg	<10	64	64	17
1700	9600	High molecular weight PAHs	105	318	375	216
		2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
23	280	Total PCB	<18	<18	<18	<18
		Tributyltin (TBT) in Interstitial water, µg/L	<0.01	<0.01	<0.01	<0.01

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Preliminary Chemical Screening Results

LCEL, mg/kg	UCEL, mg/kg	Sample No.	33628-4	33628-5	33628-6	33628-7
		Sample ID	GS-9	GS-10	GS-11	GS-12
		Sampling Location	826433E 808774N	825874E 808843N	826059E 808767N	826244E 808692N
		Sampling Depth	0.0-0.9m	0.0-0.9m	0.0-0.9m	0.0-0.9m
		Sampling Date	10/6/2020	10/6/2020	10/6/2020	10/6/2020
		Sampling Time	10:00	10:45	10:35	10:25
1.5	4	Cd, mg/kg	0.07	<0.05	<0.05	<0.05
80	160	Cr, mg/kg	30	31	24	26
65	110	Cu, mg/kg	40	41	35	34
0.5	1	Hg, mg/kg	0.10	0.09	0.11	0.07
40	40	Ni, mg/kg	19	20	15	16
75	110	Pb, mg/kg	35	37	46	32
1	2	Ag, mg/kg	0.20	0.21	0.13	0.16
200	270	Zn, mg/kg	97	100	83	88
12	42	As, mg/kg	9.6	9.4	8	7.6
		Acenaphtene, µg/kg	<8	<8	<8	<8
		Acenaphtylene, µg/kg	<8	<8	<8	<8
		Anthracene, µg/kg	<8	<8	<8	<8
		Fluorene, µg/kg	<8	<8	<8	<8
		Naphthalene, µg/kg	<10	<10	<10	<10
		Phenanthrene, µg/kg	<8	<8	<8	<8
550	3160	Low molecular weight PAHs	<50	<50	<50	<50
		Benzo(a)anthracene, µg/kg	15	14	<10	<10
		Benzo(a)pyrene, µg/kg	31	29	<10	<10
		Benzo(b)fluoranthene , µg/kg	43	47	<10	<10
		Benzo(k)fluoranthene, µg/kg	17	16	<10	<10
		Benzo(g,h,i)perylene, µg/kg	19	21	<10	<10
		Chrysene, µg/kg	17	16	<10	<10
		Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10
		Fluoranthene, µg/kg	18	18	<10	<10
		Indeno(1,2,3-cd)pyrene, µg/kg	25	23	11	11
		Pyrene, µg/kg	17	16	<10	<10
1700	9600	High molecular weight PAHs	212	210	101	101
		2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
23	280	Total PCB	<18	<18	<18	<18
		Tributyltin (TBT) in Interstitial water, µg/L	<0.01	<0.01	<0.01	<0.01

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LCEL, mg/kg	UCEL, mg/kg	Sample No.	33628-8	33628-9	33628-10	33628-11
		Sample ID	GS-13	GS-14	GS-15	GS-16
		Sampling Location	826430E 808616N	825799E 808658N	825984E 808582N	826169E 808507N
		Sampling Depth	0.0-0.9m	0.0-0.9m	0.0-0.9m	0.0-0.9m
		Sampling Date	10/6/2020	10/6/2020	10/6/2020	10/6/2020
		Sampling Time	10:15	11:10	11:20	11:30
1.5	4	Cd, mg/kg	0.06	<0.05	0.06	0.05
80	160	Cr, mg/kg	27	31	31	20
65	110	Cu, mg/kg	33	38	39	20
0.5	1	Hg, mg/kg	0.07	0.08	0.12	<0.05
40	40	Ni, mg/kg	17	19	19	12
75	110	Pb, mg/kg	31	36	35	27
1	2	Ag, mg/kg	0.18	0.16	0.34	0.09
200	270	Zn, mg/kg	85	100	99	80
12	42	As, mg/kg	9	9.6	11	7.2
		Acenaphtene, µg/kg	<8	<8	<8	<8
		Acenaphtylene, µg/kg	<8	<8	<8	<8
		Anthracene, µg/kg	<8	<8	<8	<8
		Fluorene, µg/kg	<8	<8	<8	<8
		Naphthalene, µg/kg	<10	<10	<10	<10
		Phenanthrene, µg/kg	<8	<8	<8	<8
550	3160	Low molecular weight PAHs	<50	<50	<50	<50
		Benzo(a)anthracene, µg/kg	<10	<10	<10	18
		Benzo(a)pyrene, µg/kg	<10	<10	<10	<10
		Benzo(b)fluoranthene , µg/kg	<10	11	11	<10
		Benzo(k)fluoranthene, µg/kg	<10	<10	<10	<10
		Benzo(g,h,i)perylene, µg/kg	<10	<10	<10	<10
		Chrysene, µg/kg	<10	<10	<10	<10
		Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10
		Fluoranthene, µg/kg	<10	<10	<10	<10
		Indeno(1,2,3-cd)pyrene, µg/kg	13	14	13	12
		Pyrene, µg/kg	<10	<10	<10	<10
1700	9600	High molecular weight PAHs	103	105	104	110
		2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
23	280	Total PCB	<18	<18	<18	<18
		Tributyltin (TBT) in Interstitial water, µg/L	<0.01	<0.01	<0.01	<0.01

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LCEL, mg/kg	UCEL, mg/kg	Sample No.	33628-12	33633-1	33633-2	33633-3
		Sample ID	GS-17	GS-18	GS-19	GS-20
		Sampling Location	826354E 808431N	826539E 808356N	825723E 808472N	825908E 808397N
		Sampling Depth	0.0-0.9m	0.0-0.9m	0.0-0.9m	0.0-0.9m
		Sampling Date	10/6/2020	11/6/2020	11/6/2020	11/6/2020
		Sampling Time	11:40	9:05	10:45	10:30
1.5	4	Cd, mg/kg	0.07	0.06	0.05	0.07
80	160	Cr, mg/kg	30	25	27	28
65	110	Cu, mg/kg	35	29	34	38
0.5	1	Hg, mg/kg	0.12	0.11	0.12	0.10
40	40	Ni, mg/kg	19	16	17	18
75	110	Pb, mg/kg	35	31	34	33
1	2	Ag, mg/kg	0.18	0.14	0.28	0.21
200	270	Zn, mg/kg	97	82	95	94
12	42	As, mg/kg	9.1	7.8	9	9.4
		Acenaphtene, µg/kg	<8	<8	<8	<8
		Acenaphtylene, µg/kg	<8	<8	<8	<8
		Anthracene, µg/kg	<8	<8	<8	<8
		Fluorene, µg/kg	<8	<8	<8	<8
		Naphthalene, µg/kg	<10	<10	<10	<10
		Phenanthrene, µg/kg	<8	<8	<8	<8
550	3160	Low molecular weight PAHs	<50	<50	<50	<50
		Benzo(a)anthracene, µg/kg	20	<10	<10	<10
		Benzo(a)pyrene, µg/kg	<10	<10	<10	<10
		Benzo(b)fluoranthene , µg/kg	<10	<10	<10	<10
		Benzo(k)fluoranthene, µg/kg	<10	<10	<10	<10
		Benzo(g,h,i)perylene, µg/kg	<10	<10	<10	<10
		Chrysene, µg/kg	<10	<10	<10	<10
		Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10
		Fluoranthene, µg/kg	<10	<10	<10	<10
		Indeno(1,2,3-cd)pyrene, µg/kg	13	<10	<10	<10
		Pyrene, µg/kg	<10	<10	<10	<10
1700	9600	High molecular weight PAHs	113	<100	<100	<100
		2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
23	280	Total PCB	<18	<18	<18	<18
		Tributyltin (TBT) in Interstitial water, µg/L	<0.01	<0.01	<0.01	<0.01

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LCEL, mg/kg	UCEL, mg/kg	Sample No.	33633-4	33633-5	33633-6	33633-7
		Sample ID	GS-21	GS-22	GS-23	GS-24
		Sampling Location	826094E 808322N	826279E 808246N	826464E 808171N	825648E 808287N
		Sampling Depth	0.0-0.9m	0.0-0.9m	0.0-0.9m	0.0-0.9m
		Sampling Date	11/6/2020	11/6/2020	11/6/2020	11/6/2020
		Sampling Time	10:10	9:50	9:30	11:00
1.5	4	Cd, mg/kg	<0.05	<0.05	<0.05	<0.05
80	160	Cr, mg/kg	25	25	25	26
65	110	Cu, mg/kg	31	31	29	34
0.5	1	Hg, mg/kg	0.07	0.09	0.10	0.17
40	40	Ni, mg/kg	16	16	16	16
75	110	Pb, mg/kg	30	29	29	34
1	2	Ag, mg/kg	0.16	0.16	0.14	0.17
200	270	Zn, mg/kg	87	84	80	87
12	42	As, mg/kg	7.6	7.6	8.6	8.7
		Acenaphtene, µg/kg	<8	<8	<8	<8
		Acenaphtylene, µg/kg	<8	<8	<8	<8
		Anthracene, µg/kg	<8	<8	<8	<8
		Fluorene, µg/kg	<8	<8	<8	<8
		Naphthalene, µg/kg	<10	<10	<10	<10
		Phenanthrene, µg/kg	<8	<8	<8	<8
550	3160	Low molecular weight PAHs	<50	<50	<50	<50
		Benzo(a)anthracene, µg/kg	<10	<10	<10	<10
		Benzo(a)pyrene, µg/kg	<10	<10	<10	<10
		Benzo(b)fluoranthene , µg/kg	<10	<10	<10	<10
		Benzo(k)fluoranthene, µg/kg	<10	<10	<10	<10
		Benzo(g,h,i)perylene, µg/kg	<10	<10	<10	<10
		Chrysene, µg/kg	<10	<10	<10	<10
		Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10
		Fluoranthene, µg/kg	<10	<10	<10	<10
		Indeno(1,2,3-cd)pyrene, µg/kg	<10	<10	<10	<10
		Pyrene, µg/kg	<10	<10	<10	<10
1700	9600	High molecular weight PAHs	<100	<100	<100	<100
		2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
23	280	Total PCB	<18	<18	<18	<18
		Tributyltin (TBT) in Interstitial water, µg/L	<0.01	<0.01	<0.01	<0.01

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		Sample No.	33633-8	33633-9	33633-10	33633-11
		Sample ID	GS-25	GS-26	GS-27	GS-28
		Sampling Location	825833E 808212N	826018E 808136N	826203E 808061N	826389E 807985N
		Sampling Depth	0.0-0.9m	0.0-0.9m	0.0-0.9m	0.0-0.9m
		Sampling Date	11/6/2020	11/6/2020	11/6/2020	11/6/2020
LCEL, mg/kg	UCEL, mg/kg	Sampling Time	11:20	11:45	12:05	12:25
1.5	4	Cd, mg/kg	0.05	<0.05	<0.05	<0.05
80	160	Cr, mg/kg	25	25	25	23
65	110	Cu, mg/kg	31	28	30	31
0.5	1	Hg, mg/kg	0.30	0.16	0.07	0.09
40	40	Ni, mg/kg	16	16	16	15
75	110	Pb, mg/kg	33	32	29	31
1	2	Ag, mg/kg	0.16	0.14	0.15	0.14
200	270	Zn, mg/kg	84	85	80	72
12	42	As, mg/kg	7.7	7.9	7.7	7.3
		Acenaphtene, µg/kg	<8	<8	<8	<8
		Acenaphtylene, µg/kg	<8	<8	<8	<8
		Anthracene, µg/kg	<8	<8	<8	<8
		Fluorene, µg/kg	<8	<8	<8	<8
		Naphthalene, µg/kg	<10	<10	<10	<10
		Phenanthrene, µg/kg	<8	<8	<8	<8
550	3160	Low molecular weight PAHs	<50	<50	<50	<50
		Benzo(a)anthracene, µg/kg	<10	<10	<10	<10
		Benzo(a)pyrene, µg/kg	<10	<10	<10	<10
		Benzo(b)fluoranthene , µg/kg	<10	<10	<10	<10
		Benzo(k)fluoranthene, µg/kg	<10	<10	<10	<10
		Benzo(g,h,i)perylene, µg/kg	<10	<10	<10	<10
		Chrysene, µg/kg	<10	<10	<10	<10
		Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10
		Fluoranthene, µg/kg	<10	<10	<10	<10
		Indeno(1,2,3-cd)pyrene, µg/kg	<10	<10	<10	<10
		Pyrene, µg/kg	<10	<10	<10	<10
1700	9600	High molecular weight PAHs	<100	<100	<100	<100
		2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
23	280	Total PCB	<18	<18	<18	<18
		Tributyltin (TBT) in Interstitial water, µg/L	<0.01	<0.01	<0.01	<0.01

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LCEL, mg/kg	UCEL, mg/kg	Sample No.	33633-12	33633-13	33633-14	33638-1
		Sample ID	GS-29	GS-35	GS-36	GS-30
		Sampling Location	826574E 807910N	826498E 807725N	826684E 807649N	825572E 808102N
		Sampling Depth	0.0-0.9m	0.0-0.9m	0.0-0.9m	0.0-0.9m
		Sampling Date	11/6/2020	11/6/2020	11/6/2020	12/6/2020
		Sampling Time	12:45	12:55	13:05	10:45
1.5	4	Cd, mg/kg	<0.05	<0.05	<0.05	0.05
80	160	Cr, mg/kg	22	23	24	26
65	110	Cu, mg/kg	23	23	25	43
0.5	1	Hg, mg/kg	<0.05	<0.05	<0.05	0.08
40	40	Ni, mg/kg	14	15	15	17
75	110	Pb, mg/kg	26	27	27	30
1	2	Ag, mg/kg	0.10	0.11	0.11	0.13
200	270	Zn, mg/kg	68	74	76	85
12	42	As, mg/kg	6.9	7.3	7.1	8.9
		Acenaphtene, µg/kg	<8	<8	<8	<8
		Acenaphtylene, µg/kg	<8	<8	<8	<8
		Anthracene, µg/kg	<8	<8	<8	<8
		Fluorene, µg/kg	<8	<8	<8	<8
		Naphthalene, µg/kg	<10	<10	<10	<10
		Phenanthrene, µg/kg	<8	<8	<8	<8
550	3160	Low molecular weight PAHs	<50	<50	<50	<50
		Benzo(a)anthracene, µg/kg	<10	<10	<10	<10
		Benzo(a)pyrene, µg/kg	<10	<10	<10	<10
		Benzo(b)fluoranthene , µg/kg	<10	<10	<10	<10
		Benzo(k)fluoranthene, µg/kg	<10	<10	<10	<10
		Benzo(g,h,i)perylene, µg/kg	<10	<10	<10	<10
		Chrysene, µg/kg	<10	<10	<10	<10
		Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10
		Fluoranthene, µg/kg	<10	<10	<10	<10
		Indeno(1,2,3-cd)pyrene, µg/kg	<10	<10	<10	<10
		Pyrene, µg/kg	<10	<10	<10	<10
1700	9600	High molecular weight PAHs	<100	<100	<100	<100
		2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
23	280	Total PCB	<18	<18	<18	<18
		Tributyltin (TBT) in Interstitial water, µg/L	<0.01	<0.01	<0.01	<0.01

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LCEL, mg/kg	UCEL, mg/kg	Sample No.	33638-2	33638-3	33638-4	33638-5
		Sample ID	GS-31	GS-32	GS-33	GS-34
		Sampling Location	825757E 808027N	825943E 807951N	826128E 807876N	826313E 807800N
		Sampling Depth	0.0-0.9m	0.0-0.9m	0.0-0.9m	0.0-0.9m
		Sampling Date	12/6/2020	12/6/2020	12/6/2020	12/6/2020
		Sampling Time	10:30	10:15	10:00	9:40
1.5	4	Cd, mg/kg	0.06	<0.05	<0.05	<0.05
80	160	Cr, mg/kg	25	25	22	27
65	110	Cu, mg/kg	30	31	22	28
0.5	1	Hg, mg/kg	0.10	0.11	<0.05	0.06
40	40	Ni, mg/kg	16	16	14	18
75	110	Pb, mg/kg	29	29	30	31
1	2	Ag, mg/kg	0.19	0.17	0.10	0.13
200	270	Zn, mg/kg	80	81	76	88
12	42	As, mg/kg	8.4	8.2	7.6	8.3
		Acenaphtene, µg/kg	<8	<8	<8	<8
		Acenaphtylene, µg/kg	<8	<8	<8	<8
		Anthracene, µg/kg	<8	<8	<8	<8
		Fluorene, µg/kg	<8	<8	<8	<8
		Naphthalene, µg/kg	<10	<10	<10	<10
		Phenanthrene, µg/kg	<8	<8	<8	<8
550	3160	Low molecular weight PAHs	<50	<50	<50	<50
		Benzo(a)anthracene, µg/kg	<10	<10	<10	<10
		Benzo(a)pyrene, µg/kg	<10	16	<10	<10
		Benzo(b)fluoranthene , µg/kg	<10	21	<10	<10
		Benzo(k)fluoranthene, µg/kg	<10	<10	<10	<10
		Benzo(g,h,i)perylene, µg/kg	<10	<10	<10	<10
		Chrysene, µg/kg	<10	<10	<10	<10
		Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10
		Fluoranthene, µg/kg	<10	<10	<10	<10
		Indeno(1,2,3-cd)pyrene, µg/kg	<10	<10	<10	<10
		Pyrene, µg/kg	<10	<10	<10	<10
1700	9600	High molecular weight PAHs	<100	117	<100	<100
		2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
23	280	Total PCB	<18	<18	<18	<18
		Tributyltin (TBT) in Interstitial water, µg/L	<0.01	<0.01	<0.01	<0.01

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LCEL, mg/kg	UCEL, mg/kg	Sample No.	33638-6	33638-7	33638-8	33638-9
		Sample ID	GS-37	GS-38	GS-39	GS-40
		Sampling Location	825497E 807917N	825682E 807841N	825867E 807766N	826052E 807690N
		Sampling Depth	0.0-0.9m	0.0-0.9m	0.0-0.9m	0.0-0.9m
		Sampling Date	12/6/2020	12/6/2020	12/6/2020	12/6/2020
		Sampling Time	11:00	11:10	11:25	11:38
1.5	4	Cd, mg/kg	<0.05	0.07	<0.05	<0.05
80	160	Cr, mg/kg	23	27	24	27
65	110	Cu, mg/kg	25	31	28	30
0.5	1	Hg, mg/kg	<0.05	0.16	0.17	0.09
40	40	Ni, mg/kg	14	17	16	17
75	110	Pb, mg/kg	30	32	30	32
1	2	Ag, mg/kg	0.10	0.16	0.13	0.13
200	270	Zn, mg/kg	80	88	80	90
12	42	As, mg/kg	7.7	8.1	7.2	8.1
		Acenaphtene, µg/kg	<8	<8	<8	<8
		Acenaphtylene, µg/kg	<8	<8	<8	<8
		Anthracene, µg/kg	<8	<8	<8	<8
		Fluorene, µg/kg	<8	<8	<8	<8
		Naphthalene, µg/kg	<10	<10	<10	<10
		Phenanthrene, µg/kg	<8	<8	<8	<8
550	3160	Low molecular weight PAHs	<50	<50	<50	<50
		Benzo(a)anthracene, µg/kg	<10	<10	<10	<10
		Benzo(a)pyrene, µg/kg	<10	<10	<10	<10
		Benzo(b)fluoranthene , µg/kg	<10	<10	<10	<10
		Benzo(k)fluoranthene, µg/kg	<10	<10	<10	<10
		Benzo(g,h,i)perylene, µg/kg	<10	<10	<10	<10
		Chrysene, µg/kg	<10	<10	<10	<10
		Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10
		Fluoranthene, µg/kg	<10	<10	<10	<10
		Indeno(1,2,3-cd)pyrene, µg/kg	<10	<10	<10	<10
		Pyrene, µg/kg	<10	<10	<10	<10
1700	9600	High molecular weight PAHs	<100	<100	<100	<100
		2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
23	280	Total PCB	<18	<18	<18	<18
		Tributyltin (TBT) in Interstitial water, µg/L	<0.01	<0.01	<0.01	<0.01

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		Sample No.	33638-10	33638-11	33638-12	33638-13
		Sample ID	GS-41	GS-42	GS-43	GS-44
		Sampling Location	826238E 807615N	826423E 807539N	826608E 807464N	826723E 807364N
		Sampling Depth	0.0-0.9m	0.0-0.9m	0.0-0.9m	0.0-0.9m
		Sampling Date	12/6/2020	12/6/2020	12/6/2020	12/6/2020
LCEL, mg/kg	UCEL, mg/kg	Sampling Time	11:55	12:10	12:20	12:35
1.5	4	Cd, mg/kg	0.06	<0.05	<0.05	0.06
80	160	Cr, mg/kg	36	24	26	23
65	110	Cu, mg/kg	32	27	27	22
0.5	1	Hg, mg/kg	0.07	0.09	0.05	0.07
40	40	Ni, mg/kg	24	15	16	15
75	110	Pb, mg/kg	43	26	30	25
1	2	Ag, mg/kg	0.15	0.12	0.12	0.10
200	270	Zn, mg/kg	110	74	82	72
12	42	As, mg/kg	10	7	7.4	7.5
		Acenaphtene, µg/kg	<8	<8	<8	<8
		Acenaphtylene, µg/kg	<8	<8	<8	<8
		Anthracene, µg/kg	<8	<8	<8	<8
		Fluorene, µg/kg	<8	<8	<8	<8
		Naphthalene, µg/kg	<10	<10	<10	<10
		Phenanthrene, µg/kg	<8	<8	<8	<8
550	3160	Low molecular weight PAHs	<50	<50	<50	<50
		Benzo(a)anthracene, µg/kg	<10	<10	<10	<10
		Benzo(a)pyrene, µg/kg	<10	<10	<10	<10
		Benzo(b)fluoranthene , µg/kg	<10	<10	<10	<10
		Benzo(k)fluoranthene, µg/kg	<10	<10	<10	<10
		Benzo(g,h,i)perylene, µg/kg	<10	<10	<10	<10
		Chrysene, µg/kg	<10	<10	<10	<10
		Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10
		Fluoranthene, µg/kg	<10	<10	<10	<10
		Indeno(1,2,3-cd)pyrene, µg/kg	<10	<10	<10	<10
		Pyrene, µg/kg	<10	<10	<10	<10
1700	9600	High molecular weight PAHs	<100	<100	<100	<100
		2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
23	280	Total PCB	<18	<18	<18	<18
		Tributyltin (TBT) in Interstitial water, µg/L	<0.01	<0.01	<0.01	<0.01

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		Sample No.	33638-14	33638-15	33652-1	33652-2
		Sample ID	GS-51	GS-52	GS-45	GS-46
		Sampling Location	826533E 807279N	826718E 807203N	825421E 807732N	825607E 807656N
		Sampling Depth	0.0-0.9m	0.0-0.9m	0.0-0.9m	0.0-0.9m
		Sampling Date	12/6/2020	12/6/2020	17/6/2020	17/6/2020
LCEL, mg/kg	UCEL, mg/kg	Sampling Time	13:10	12:48	12:50	12:40
1.5	4	Cd, mg/kg	<0.05	<0.05	0.06	0.06
80	160	Cr, mg/kg	23	25	24	24
65	110	Cu, mg/kg	36	19	22	21
0.5	1	Hg, mg/kg	<0.05	<0.05	0.10	0.13
40	40	Ni, mg/kg	15	16	16	15
75	110	Pb, mg/kg	24	25	30	28
1	2	Ag, mg/kg	0.08	0.07	0.14	0.15
200	270	Zn, mg/kg	70	72	79	72
12	42	As, mg/kg	7	7.5	7.1	6.1
		Acenaphtene, µg/kg	<8	<8	<8	<8
		Acenaphtylene, µg/kg	<8	<8	<8	<8
		Anthracene, µg/kg	<8	<8	<8	<8
		Fluorene, µg/kg	<8	<8	<8	<8
		Naphthalene, µg/kg	<10	<10	<10	<10
		Phenanthrene, µg/kg	<8	<8	<8	<8
550	3160	Low molecular weight PAHs	<50	<50	<50	<50
		Benzo(a)anthracene, µg/kg	<10	<10	<10	<10
		Benzo(a)pyrene, µg/kg	<10	<10	<10	<10
		Benzo(b)fluoranthene , µg/kg	<10	<10	<10	<10
		Benzo(k)fluoranthene, µg/kg	<10	<10	<10	<10
		Benzo(g,h,i)perylene, µg/kg	<10	<10	12	<10
		Chrysene, µg/kg	<10	<10	<10	<10
		Dibenzo(a,h)anthracene, µg/kg	<10	<10	42	<10
		Fluoranthene, µg/kg	<10	<10	<10	<10
		Indeno(1,2,3-cd)pyrene, µg/kg	<10	<10	20	11
		Pyrene, µg/kg	<10	<10	<10	<10
1700	9600	High molecular weight PAHs	<100	<100	100	<100
		2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
23	280	Total PCB	<18	<18	<18	<18
		Tributyltin (TBT) in Interstitial water, µg/L	<0.01	<0.01	<0.01	<0.01

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LCEL, mg/kg	UCEL, mg/kg	Sample No.	33652-3	33652-4	33652-5	33652-6
		Sample ID	GS-47	GS-48	GS-49	GS-50
		Sampling Location	825792E 807581N	825977E 807505N	826162E 807430N	826347E 807354N
		Sampling Depth	0.0-0.9m	0.0-0.9m	0.0-0.9m	0.0-0.9m
		Sampling Date	17/6/2020	17/6/2020	17/6/2020	17/6/2020
		Sampling Time	12:30	12:20	12:10	12:00
1.5	4	Cd, mg/kg	<0.05	<0.05	<0.05	<0.05
80	160	Cr, mg/kg	21	24	14	19
65	110	Cu, mg/kg	20	20	11	16
0.5	1	Hg, mg/kg	0.08	0.08	0.05	0.05
40	40	Ni, mg/kg	14	17	9	13
75	110	Pb, mg/kg	26	29	20	23
1	2	Ag, mg/kg	0.13	0.12	0.06	0.09
200	270	Zn, mg/kg	69	78	50	64
12	42	As, mg/kg	5.3	7.1	4.2	5.4
		Acenaphtene, µg/kg	<8	<8	<8	<8
		Acenaphtylene, µg/kg	<8	<8	<8	<8
		Anthracene, µg/kg	<8	<8	<8	<8
		Fluorene, µg/kg	<8	<8	<8	<8
		Naphthalene, µg/kg	<10	<10	<10	<10
		Phenanthrene, µg/kg	<8	<8	<8	<8
550	3160	Low molecular weight PAHs	<50	<50	<50	<50
		Benzo(a)anthracene, µg/kg	<10	<10	<10	<10
		Benzo(a)pyrene, µg/kg	<10	<10	<10	<10
		Benzo(b)fluoranthene , µg/kg	<10	<10	<10	<10
		Benzo(k)fluoranthene, µg/kg	<10	<10	<10	<10
		Benzo(g,h,i)perylene, µg/kg	<10	<10	<10	<10
		Chrysene, µg/kg	<10	<10	<10	<10
		Dibenzo(a,h)anthracene, µg/kg	<10	23	21	24
		Fluoranthene, µg/kg	<10	<10	<10	<10
		Indeno(1,2,3-cd)pyrene, µg/kg	10	12	10	13
		Pyrene, µg/kg	<10	<10	<10	<10
1700	9600	High molecular weight PAHs	<100	<100	<100	<100
		2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
23	280	Total PCB	<18	<18	<18	<18
		Tributyltin (TBT) in Interstitial water, µg/L	<0.01	<0.01	<0.01	<0.01

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LCEL, mg/kg	UCEL, mg/kg	Sample No.	33652-7	33652-8	33652-9	33652-10
		Sample ID	GS-53	GS-54	GS-55	GS-56
		Sampling Location	825346E 807546N	825531E 807471N	825716E 807395N	825901E 807320N
		Sampling Depth	0.0-0.9m	0.0-0.9m	0.0-0.9m	0.0-0.9m
		Sampling Date	17/6/2020	17/6/2020	17/6/2020	17/6/2020
		Sampling Time	13:05	13:20	13:30	13:40
1.5	4	Cd, mg/kg	<0.05	<0.05	<0.05	0.06
80	160	Cr, mg/kg	22	23	20	25
65	110	Cu, mg/kg	17	22	16	22
0.5	1	Hg, mg/kg	0.08	0.10	0.07	0.10
40	40	Ni, mg/kg	15	15	13	17
75	110	Pb, mg/kg	25	29	25	29
1	2	Ag, mg/kg	0.10	0.14	0.10	0.13
200	270	Zn, mg/kg	70	76	67	79
12	42	As, mg/kg	7.7	7.5	5.5	6.6
		Acenaphtene, µg/kg	<8	<8	<8	<8
		Acenaphtylene, µg/kg	<8	<8	<8	<8
		Anthracene, µg/kg	<8	<8	<8	<8
		Fluorene, µg/kg	<8	<8	<8	<8
		Naphthalene, µg/kg	<10	<10	<10	<10
		Phenanthrene, µg/kg	<8	<8	<8	<8
550	3160	Low molecular weight PAHs	<50	<50	<50	<50
		Benzo(a)anthracene, µg/kg	<10	<10	<10	<10
		Benzo(a)pyrene, µg/kg	<10	11	<10	<10
		Benzo(b)fluoranthene , µg/kg	<10	<10	<10	<10
		Benzo(k)fluoranthene, µg/kg	<10	<10	<10	<10
		Benzo(g,h,i)perylene, µg/kg	<10	10	<10	10
		Chrysene, µg/kg	<10	<10	<10	<10
		Dibenzo(a,h)anthracene, µg/kg	24	<10	<10	<10
		Fluoranthene, µg/kg	<10	<10	<10	<10
		Indeno(1,2,3-cd)pyrene, µg/kg	12	14	10	12
		Pyrene, µg/kg	<10	<10	<10	<10
1700	9600	High molecular weight PAHs	<100	<100	<100	<100
		2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
23	280	Total PCB	<18	<18	<18	<18
		Tributyltin (TBT) in Interstitial water, µg/L	<0.01	<0.01	<0.01	<0.01

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LCEL, mg/kg	UCEL, mg/kg	Sample No.	33652-11	33652-12	33652-13	33652-14
		Sample ID	GS-57	GS-58	GS-59	GS-60
		Sampling Location	826087E 807245N	826272E 807169N	826457E 807094N	826642E 807018N
		Sampling Depth	0.0-0.9m	0.0-0.9m	0.0-0.9m	0.0-0.9m
		Sampling Date	17/6/2020	17/6/2020	17/6/2020	17/6/2020
		Sampling Time	13:50	14:00	14:10	14:20
1.5	4	Cd, mg/kg	0.09	<0.05	<0.05	<0.05
80	160	Cr, mg/kg	21	23	22	24
65	110	Cu, mg/kg	18	20	18	18
0.5	1	Hg, mg/kg	0.10	0.14	0.07	0.07
40	40	Ni, mg/kg	14	15	15	16
75	110	Pb, mg/kg	25	27	26	27
1	2	Ag, mg/kg	0.11	0.10	0.11	0.11
200	270	Zn, mg/kg	69	71	71	73
12	42	As, mg/kg	7.6	6.3	7.8	6.2
		Acenaphtene, µg/kg	<8	<8	<8	<8
		Acenaphtylene, µg/kg	<8	<8	<8	<8
		Anthracene, µg/kg	<8	<8	<8	<8
		Fluorene, µg/kg	<8	<8	<8	<8
		Naphthalene, µg/kg	<10	<10	<10	<10
		Phenanthrene, µg/kg	14	10	14	10
550	3160	Low molecular weight PAHs	<50	<50	<50	<50
		Benzo(a)anthracene, µg/kg	<10	<10	<10	<10
		Benzo(a)pyrene, µg/kg	<10	<10	<10	<10
		Benzo(b)fluoranthene , µg/kg	<10	<10	<10	<10
		Benzo(k)fluoranthene, µg/kg	<10	<10	<10	<10
		Benzo(g,h,i)perylene, µg/kg	<10	<10	<10	<10
		Chrysene, µg/kg	<10	<10	<10	<10
		Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10
		Fluoranthene, µg/kg	<10	<10	<10	<10
		Indeno(1,2,3-cd)pyrene, µg/kg	10	12	10	12
		Pyrene, µg/kg	<10	<10	<10	<10
1700	9600	High molecular weight PAHs	<100	<100	<100	<100
		2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
23	280	Total PCB	<18	<18	<18	<18
		Tributyltin (TBT) in Interstitial water, µg/L	<0.01	<0.01	<0.01	<0.01

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LCEL, mg/kg	UCEL, mg/kg	Sample No.	33657-1	33657-2	33657-3	33657-4
		Sample ID	GS-61	GS-62	GS-63	GS-64
		Sampling Location	826766E 806928N	825270E 807361N	825456E 807286N	825641E 807210N
		Sampling Depth	0.0-0.9m	0.0-0.9m	0.0-0.9m	0.0-0.9m
		Sampling Date	18/6/2020	18/6/2020	18/6/2020	18/6/2020
		Sampling Time	9:50	12:05	11:50	11:35
1.5	4	Cd, mg/kg	<0.05	<0.05	<0.05	<0.05
80	160	Cr, mg/kg	21	18	24	27
65	110	Cu, mg/kg	16	16	22	19
0.5	1	Hg, mg/kg	0.10	0.10	0.10	0.23
40	40	Ni, mg/kg	15	12	16	18
75	110	Pb, mg/kg	25	25	31	32
1	2	Ag, mg/kg	0.84	0.12	0.15	0.18
200	270	Zn, mg/kg	65	60	77	82
12	42	As, mg/kg	7.8	6.2	8.7	9.2
		Acenaphtene, µg/kg	<8	<8	<8	<8
		Acenaphtylene, µg/kg	<8	<8	<8	<8
		Anthracene, µg/kg	<8	<8	<8	<8
		Fluorene, µg/kg	<8	<8	<8	<8
		Naphthalene, µg/kg	<10	<10	<10	<10
		Phenanthrene, µg/kg	<8	<8	<8	<8
550	3160	Low molecular weight PAHs	<50	<50	<50	<50
		Benzo(a)anthracene, µg/kg	<10	<10	<10	<10
		Benzo(a)pyrene, µg/kg	<10	<10	<10	<10
		Benzo(b)fluoranthene , µg/kg	<10	<10	<10	<10
		Benzo(k)fluoranthene, µg/kg	<10	<10	<10	<10
		Benzo(g,h,i)perylene, µg/kg	<10	<10	<10	<10
		Chrysene, µg/kg	<10	<10	<10	<10
		Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10
		Fluoranthene, µg/kg	<10	<10	<10	<10
		Indeno(1,2,3-cd)pyrene, µg/kg	<10	<10	<10	<10
		Pyrene, µg/kg	<10	<10	<10	<10
1700	9600	High molecular weight PAHs	<100	<100	<100	<100
		2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
23	280	Total PCB	<18	<18	<18	<18
		Tributyltin (TBT) in Interstitial water, µg/L	<0.01	<0.01	<0.01	<0.01

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LCEL, mg/kg	UCEL, mg/kg	Sample No.	33657-5	33657-6	33657-7	33657-8
		Sample ID	GS-65	GS-66	GS-67	GS-68
		Sampling Location	825826E 807135N	826011E 807059N	826196E 806984N	826382E 806908N
		Sampling Depth	0.0-0.9m	0.0-0.9m	0.0-0.9m	0.0-0.9m
		Sampling Date	18/6/2020	18/6/2020	18/6/2020	18/6/2020
		Sampling Time	11:20	11:05	10:50	10:35
1.5	4	Cd, mg/kg	<0.05	<0.05	<0.05	<0.05
80	160	Cr, mg/kg	19	20	21	26
65	110	Cu, mg/kg	13	17	17	21
0.5	1	Hg, mg/kg	0.33	0.23	0.05	0.08
40	40	Ni, mg/kg	11	14	14	18
75	110	Pb, mg/kg	18	24	24	30
1	2	Ag, mg/kg	0.08	0.12	0.14	0.20
200	270	Zn, mg/kg	49	65	66	81
12	42	As, mg/kg	5.2	7.5	7.5	8.1
		Acenaphtene, µg/kg	<8	<8	<8	<8
		Acenaphtylene, µg/kg	<8	<8	<8	<8
		Anthracene, µg/kg	<8	<8	<8	<8
		Fluorene, µg/kg	<8	<8	<8	<8
		Naphthalene, µg/kg	<10	<10	<10	<10
		Phenanthrene, µg/kg	<8	<8	<8	<8
550	3160	Low molecular weight PAHs	<50	<50	<50	<50
		Benzo(a)anthracene, µg/kg	<10	<10	<10	<10
		Benzo(a)pyrene, µg/kg	<10	<10	<10	<10
		Benzo(b)fluoranthene , µg/kg	<10	<10	<10	<10
		Benzo(k)fluoranthene, µg/kg	<10	<10	<10	<10
		Benzo(g,h,i)perylene, µg/kg	<10	<10	<10	<10
		Chrysene, µg/kg	<10	<10	<10	<10
		Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10
		Fluoranthene, µg/kg	<10	<10	<10	<10
		Indeno(1,2,3-cd)pyrene, µg/kg	<10	<10	<10	<10
		Pyrene, µg/kg	<10	<10	<10	<10
1700	9600	High molecular weight PAHs	<100	<100	<100	<100
		2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
23	280	Total PCB	<18	<18	<18	<18
		Tributyltin (TBT) in Interstitial water, µg/L	<0.01	<0.01	<0.01	<0.01

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LCEL, mg/kg	UCEL, mg/kg	Sample No.	33657-9	33657-10	33657-11	33657-12
		Sample ID	GS-69	GS-70	GS-71	GS-72
		Sampling Location	826567E 806833N	826752E 806757N	825195E 807176N	825380E 807100N
		Sampling Depth	0.0-0.9m	0.0-0.9m	0.0-0.9m	0.0-0.9m
		Sampling Date	18/6/2020	18/6/2020	18/6/2020	18/6/2020
		Sampling Time	10:20	10:05	12:20	12:35
1.5	4	Cd, mg/kg	<0.05	<0.05	0.05	0.06
80	160	Cr, mg/kg	23	23	24	23
65	110	Cu, mg/kg	18	17	22	21
0.5	1	Hg, mg/kg	0.05	<0.05	0.06	0.08
40	40	Ni, mg/kg	15	16	16	15
75	110	Pb, mg/kg	26	24	30	28
1	2	Ag, mg/kg	0.11	0.09	0.14	0.13
200	270	Zn, mg/kg	71	67	77	73
12	42	As, mg/kg	8.3	8.1	9.1	8.4
		Acenaphtene, µg/kg	<8	<8	<8	<8
		Acenaphtylene, µg/kg	<8	<8	<8	<8
		Anthracene, µg/kg	<8	<8	<8	<8
		Fluorene, µg/kg	<8	<8	<8	<8
		Naphthalene, µg/kg	<10	<10	<10	<10
		Phenanthrene, µg/kg	<8	<8	<8	<8
550	3160	Low molecular weight PAHs	<50	<50	<50	<50
		Benzo(a)anthracene, µg/kg	<10	<10	<10	<10
		Benzo(a)pyrene, µg/kg	<10	<10	<10	<10
		Benzo(b)fluoranthene , µg/kg	<10	<10	<10	<10
		Benzo(k)fluoranthene, µg/kg	<10	<10	<10	<10
		Benzo(g,h,i)perylene, µg/kg	<10	<10	<10	<10
		Chrysene, µg/kg	<10	<10	<10	<10
		Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10
		Fluoranthene, µg/kg	<10	<10	<10	<10
		Indeno(1,2,3-cd)pyrene, µg/kg	<10	<10	<10	<10
		Pyrene, µg/kg	<10	<10	<10	<10
1700	9600	High molecular weight PAHs	<100	<100	<100	<100
		2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
23	280	Total PCB	<18	<18	<18	<18
		Tributyltin (TBT) in Interstitial water, µg/L	<0.01	<0.01	<0.01	<0.01

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LCEL, mg/kg	UCEL, mg/kg	Sample No.	33657-13	33657-14	33663-1	33663-2
		Sample ID	GS-73	GS-74	GS-75	GS-76
		Sampling Location	825565E 807025N	825751E 806950N	825936E 806874N	826121E 806799N
		Sampling Depth	0.0-0.9m	0.0-0.9m	0.0-0.9m	0.0-0.9m
		Sampling Date	18/6/2020	18/6/2020	19/6/2020	19/6/2020
		Sampling Time	12:50	13:05	10:00	10:10
1.5	4	Cd, mg/kg	<0.05	0.15	0.06	<0.05
80	160	Cr, mg/kg	25	23	21	24
65	110	Cu, mg/kg	23	20	16	20
0.5	1	Hg, mg/kg	0.10	0.15	0.09	0.07
40	40	Ni, mg/kg	17	16	14	16
75	110	Pb, mg/kg	31	30	24	27
1	2	Ag, mg/kg	0.13	0.14	0.10	0.12
200	270	Zn, mg/kg	76	83	64	73
12	42	As, mg/kg	7.9	8.3	7.0	7.5
		Acenaphtene, µg/kg	<8	<8	<8	<8
		Acenaphtylene, µg/kg	<8	<8	<8	<8
		Anthracene, µg/kg	<8	<8	<8	<8
		Fluorene, µg/kg	<8	<8	<8	<8
		Naphthalene, µg/kg	<10	<10	<10	<10
		Phenanthrene, µg/kg	<8	<8	<8	<8
550	3160	Low molecular weight PAHs	<50	<50	<50	<50
		Benzo(a)anthracene, µg/kg	<10	<10	<10	<10
		Benzo(a)pyrene, µg/kg	<10	<10	<10	<10
		Benzo(b)fluoranthene , µg/kg	<10	<10	<10	<10
		Benzo(k)fluoranthene, µg/kg	<10	<10	<10	<10
		Benzo(g,h,i)perylene, µg/kg	<10	<10	<10	10
		Chrysene, µg/kg	<10	<10	<10	<10
		Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10
		Fluoranthene, µg/kg	<10	<10	<10	<10
		Indeno(1,2,3-cd)pyrene, µg/kg	<10	<10	12	13
		Pyrene, µg/kg	<10	<10	<10	<10
1700	9600	High molecular weight PAHs	<100	<100	102	103
		2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
23	280	Total PCB	<18	<18	<18	<18
		Tributyltin (TBT) in Interstitial water, µg/L	<0.01	<0.01	<0.01	<0.01

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LCEL, mg/kg	UCEL, mg/kg	Sample No.	33663-3	33663-4	33663-5	33663-6
		Sample ID	GS-77	GS-78	GS-79	GS-80
		Sampling Location	826306E 806723N	826491E 806648N	826677E 806572N	826862E 806497N
		Sampling Depth	0.0-0.9m	0.0-0.9m	0.0-0.9m	0.0-0.9m
		Sampling Date	19/6/2020	19/6/2020	19/6/2020	19/6/2020
		Sampling Time	10:20	10:30	10:40	10:50
1.5	4	Cd, mg/kg	<0.05	<0.05	<0.05	<0.05
80	160	Cr, mg/kg	23	22	23	23
65	110	Cu, mg/kg	18	16	17	16
0.5	1	Hg, mg/kg	0.10	<0.05	0.05	<0.05
40	40	Ni, mg/kg	16	15	16	16
75	110	Pb, mg/kg	26	23	23	22
1	2	Ag, mg/kg	0.13	0.09	0.09	0.07
200	270	Zn, mg/kg	73	65	67	63
12	42	As, mg/kg	7.0	7.6	7.6	7.6
		Acenaphtene, µg/kg	<8	<8	<8	<8
		Acenaphtylene, µg/kg	<8	<8	<8	<8
		Anthracene, µg/kg	<8	<8	<8	<8
		Fluorene, µg/kg	<8	<8	<8	<8
		Naphthalene, µg/kg	<10	<10	<10	<10
		Phenanthrene, µg/kg	<8	<8	<8	<8
550	3160	Low molecular weight PAHs	<50	<50	<50	<50
		Benzo(a)anthracene, µg/kg	<10	<10	<10	<10
		Benzo(a)pyrene, µg/kg	<10	<10	<10	<10
		Benzo(b)fluoranthene , µg/kg	<10	<10	<10	<10
		Benzo(k)fluoranthene, µg/kg	12	<10	<10	<10
		Benzo(g,h,i)perylene, µg/kg	12	11	<10	11
		Chrysene, µg/kg	<10	<10	<10	<10
		Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10
		Fluoranthene, µg/kg	<10	<10	<10	<10
		Indeno(1,2,3-cd)pyrene, µg/kg	15	14	13	14
		Pyrene, µg/kg	<10	<10	<10	<10
1700	9600	High molecular weight PAHs	109	105	103	105
		2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
23	280	Total PCB	<18	<18	<18	<18
		Tributyltin (TBT) in Interstitial water, µg/L	<0.01	<0.01	<0.01	<0.01

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LCEL, mg/kg	UCEL, mg/kg	Sample No.	33663-7	33663-8	33663-9	33663-10
		Sample ID	GS-81	GS-82	GS-83	GS-84
		Sampling Location	825119E 806991N	825305E 806915N	825490E 806840N	825675E 806764N
		Sampling Depth	0.0-0.9m	0.0-0.9m	0.0-0.9m	0.0-0.9m
		Sampling Date	19/6/2020	19/6/2020	19/6/2020	19/6/2020
		Sampling Time	12:30	12:20	12:10	12:00
1.5	4	Cd, mg/kg	<0.05	<0.05	<0.05	<0.05
80	160	Cr, mg/kg	18	19	20	24
65	110	Cu, mg/kg	17	16	16	19
0.5	1	Hg, mg/kg	0.11	<0.05	<0.05	0.06
40	40	Ni, mg/kg	12	13	14	17
75	110	Pb, mg/kg	22	22	23	28
1	2	Ag, mg/kg	0.11	0.09	0.08	0.10
200	270	Zn, mg/kg	61	60	63	74
12	42	As, mg/kg	6.6	6.6	6.4	8.1
		Acenaphtene, µg/kg	76	95	18	74
		Acenaphtylene, µg/kg	15	16	<8	15
		Anthracene, µg/kg	41	52	12	42
		Fluorene, µg/kg	<8	<8	<8	<8
		Naphthalene, µg/kg	15	15	<10	16
		Phenanthrene, µg/kg	37	49	8	37
550	3160	Low molecular weight PAHs	189	232	<50	189
		Benzo(a)anthracene, µg/kg	64	71	12	67
		Benzo(a)pyrene, µg/kg	69	322	<10	315
		Benzo(b)fluoranthene , µg/kg	94	95	<10	95
		Benzo(k)fluoranthene, µg/kg	91	92	17	92
		Benzo(g,h,i)perylene, µg/kg	54	57	10	57
		Chrysene, µg/kg	65	74	12	70
		Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10
		Fluoranthene, µg/kg	115	138	25	123
		Indeno(1,2,3-cd)pyrene, µg/kg	<10	<10	35	177
		Pyrene, µg/kg	166	176	33	177
1700	9600	High molecular weight PAHs	718	1024	165	1173
		2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
23	280	Total PCB	<18	<18	<18	<18
		Tributyltin (TBT) in Interstitial water, µg/L	<0.01	<0.01	<0.01	<0.01

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LCEL, mg/kg	UCEL, mg/kg	Sample No.	33663-11	33663-12	33663-13	33663-14
		Sample ID	GS-85	GS-86	GS-87	GS-88
		Sampling Location	825860E 806689N	826046E 806613N	826231E 806538N	826416E 806462N
		Sampling Depth	0.0-0.9m	0.0-0.9m	0.0-0.9m	0.0-0.9m
		Sampling Date	19/6/2020	19/6/2020	19/6/2020	19/6/2020
		Sampling Time	11:50	11:40	11:30	11:20
1.5	4	Cd, mg/kg	<0.05	<0.05	<0.05	<0.05
80	160	Cr, mg/kg	22	22	23	22
65	110	Cu, mg/kg	17	18	17	16
0.5	1	Hg, mg/kg	0.41	<0.05	0.05	<0.05
40	40	Ni, mg/kg	15	16	16	16
75	110	Pb, mg/kg	24	25	25	24
1	2	Ag, mg/kg	0.21	0.09	0.20	0.07
200	270	Zn, mg/kg	67	68	69	66
12	42	As, mg/kg	7.4	8.3	6.8	7.5
		Acenaphtene, µg/kg	98	17	75	94
		Acenaphtylene, µg/kg	16	<8	17	15
		Anthracene, µg/kg	54	12	48	54
		Fluorene, µg/kg	<8	<8	<8	<8
		Naphthalene, µg/kg	15	<10	16	20
		Phenanthrene, µg/kg	52	8	43	49
550	3160	Low molecular weight PAHs	240	<50	204	236
		Benzo(a)anthracene, µg/kg	75	11	74	73
		Benzo(a)pyrene, µg/kg	<10	37	335	280
		Benzo(b)fluoranthene , µg/kg	96	13	106	94
		Benzo(k)fluoranthene, µg/kg	89	15	106	90
		Benzo(g,h,i)perylene, µg/kg	<10	<10	<10	69
		Chrysene, µg/kg	77	11	80	76
		Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10
		Fluoranthene, µg/kg	144	23	140	141
		Indeno(1,2,3-cd)pyrene, µg/kg	<10	28	<10	179
		Pyrene, µg/kg	182	31	203	180
1700	9600	High molecular weight PAHs	663	180	1044	1182
		2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
		2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
23	280	Total PCB	<18	<18	<18	<18
		Tributyltin (TBT) in Interstitial water, µg/L	<0.01	<0.01	<0.01	<0.01

CEDD Maintenance Contract for Seawalls and Navigation Channels (2016 - 2021)
FM/002/1601 - West of Lamma Island GI Works for the Proposed Contaminated Sediment Disposal Facility
Preliminary Chemical Screening Results

		Sample No.	33663-15	33663-16	33672-1
		Sample ID	GS-89	GS-90	Reference Grab
		Sampling Location	826601E 806387N	826786E 806312N	850234E 820057N
		Sampling Depth	0.0-0.9m	0.0-0.9m	0.0-0.9m
		Sampling Date	19/6/2020	19/6/2020	23/6/2020
LCEL, mg/kg	UCEL, mg/kg	Sampling Time	11:10	11:00	10:35
1.5	4	Cd, mg/kg	0.06	<0.05	<0.05
80	160	Cr, mg/kg	24	26	23
65	110	Cu, mg/kg	17	17	15
0.5	1	Hg, mg/kg	0.08	0.20	0.38
40	40	Ni, mg/kg	17	19	17
75	110	Pb, mg/kg	25	26	27
1	2	Ag, mg/kg	0.09	0.08	0.11
200	270	Zn, mg/kg	70	76	69
12	42	As, mg/kg	8.3	8.4	7.9
		Acenaphtene, µg/kg	17	74	<8
		Acenaphtylene, µg/kg	<8	16	<8
		Anthracene, µg/kg	13	44	<8
		Fluorene, µg/kg	<8	<8	<8
		Naphthalene, µg/kg	<10	17	<10
		Phenanthrene, µg/kg	8	39	<8
550	3160	Low molecular weight PAHs	52	194	<50
		Benzo(a)anthracene, µg/kg	13	68	<10
		Benzo(a)pyrene, µg/kg	18	331	<10
		Benzo(b)fluoranthene , µg/kg	19	100	<10
		Benzo(k)fluoranthene, µg/kg	20	99	<10
		Benzo(g,h,i)perylene, µg/kg	13	22	<10
		Chrysene, µg/kg	12	72	<10
		Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10
		Fluoranthene, µg/kg	26	127	<10
		Indeno(1,2,3-cd)pyrene, µg/kg	39	<10	<10
		Pyrene, µg/kg	35	184	<10
1700	9600	High molecular weight PAHs	195	1003	<100
		2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1
		2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1
		2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1
		2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1
		2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1
		2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1
		3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1
		2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1
		2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1
		2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1
		3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1
		2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1
		2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1
		2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1
		3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1
		2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1
		2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1
		2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1
23	280	Total PCB	<18	<18	<18
		Tributyltin (TBT) in Interstitial water, µg/L	<0.01	<0.01	<0.01

APPENDIX C

LABORATORY TESTING REPORT

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HOKLAS 083
TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33575
Date of Issue:	2020-06-04
Date Received:	2020-05-29
Date Tested:	2020-05-29
Date Completed:	2020-06-04
Page:	1 of 2

Sample Description : 5 samples as received by customer said to be sediment
Laboratory No. : 33575
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-05-29

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Cadmium (Cd)	In-house method SOP053 (ICP-AES) & In-house method SOP093 (digestion) (ICP-MS)	0.05 mg/kg
2	Chromium (Cr)		0.1 mg/kg
3	Copper (Cu)		0.2 mg/kg
4	Mercury (Hg)		0.05 mg/kg
5	Nickel (Ni)		0.2 mg/kg
6	Lead (Pb)		0.1 mg/kg
7	Silver (Ag)		0.1 mg/kg
8	Zinc (Zn)		0.2 mg/kg
9	Arsenic (As)		0.1 mg/kg

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HOKLAS 083
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TEST REPORT

Report No.:	33575
Date of Issue:	2020-06-04
Date Received:	2020-05-29
Date Tested:	2020-05-29
Date Completed:	2020-06-04
Page:	2 of 2

Test Results:

Sample No.	33575-1	33575-2	33575-3	33575-4	33575-5
Sample ID	GS-1	GS-2	GS-3	GS-4	GS-5
Sampling Location	826100E 809399N	826286E 809323N	826025E 809213N	826210E 809138N	826395E 809062N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	29/05/2020	29/05/2020	29/05/2020	29/05/2020	29/05/2020
Sampling Time	11:40	11:25	11:10	10:50	10:35
Cadmium, mg/kg	0.07	0.07	0.07	0.06	0.25
Chromium, mg/kg	27	27	29	29	49
Copper, mg/kg	27	27	24	28	29
Mercury, mg/kg	0.26	0.11	0.11	0.09	0.09
Nickel, mg/kg	17	18	19	18	21
Lead, mg/kg	33	32	34	33	34
Silver, mg/kg	0.19	0.18	0.25	0.25	0.22
Zinc, mg/kg	96	91	95	94	95
Arsenic, mg/kg	9.6	9.0	10	9.7	10

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1716, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33575A
Date of Issue:	2020-06-04
Date Received:	2020-05-29
Date Tested:	2020-05-29
Date Completed:	2020-06-04
Page:	1 of 2

Sample Description : 5 samples as received by customer said to be sediment
Laboratory No. : 33575A
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-05-29

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Acenaphtene	In-house method SOP090 (GC/MSD)	8 µg/kg
2	Acenaphtylene		8 µg/kg
3	Anthracene		8 µg/kg
4	Fluorene		8 µg/kg
5	Naphthalene		10 µg/kg
6	Phenanthrene		8 µg/kg

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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TEST REPORT

Report No.:	33575A
Date of Issue:	2020-06-04
Date Received:	2020-05-29
Date Tested:	2020-05-29
Date Completed:	2020-06-04

Test Results:

Sample No.	33575-1	33575-2	33575-3	33575-4	33575-5
Sample ID	GS-1	GS-2	GS-3	GS-4	GS-5
Sampling Location	826100E 809399N	826286E 809323N	826025E 809213N	826210E 809138N	826395E 809062N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	29/05/2020	29/05/2020	29/05/2020	29/05/2020	29/05/2020
Sampling Time	11:40	11:25	11:10	10:50	10:35
Acenaphtene, µg/kg	<8	<8	<8	<8	<8
Acenaphtylene, µg/kg	<8	<8	<8	<8	<8
Anthracene, µg/kg	<8	<8	<8	<8	<8
Fluorene, µg/kg	<8	<8	<8	<8	<8
Naphthalene, µg/kg	<10	<10	<10	<10	<10
Phenanthrene, µg/kg	<8	<8	<8	<8	<8

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33575B
Date of Issue:	2020-06-04
Date Received:	2020-05-29
Date Tested:	2020-05-29
Date Completed:	2020-06-04
Page:	1 of 2

Sample Description : 5 samples as received by customer said to be sediment
Laboratory No. : 33575B
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-05-29

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Benzo(a)anthracene	In-house method SOP090 (GC/MSD)	10 µg/kg
2	Benzo(a)pyrene		10 µg/kg
3	Benzo(b)fluoranthene		10 µg/kg
4	Benzo(k)fluoranthene		10 µg/kg
5	Benzo(g,h,i)perylene		10 µg/kg
6	Chrysene		10 µg/kg
7	Dibenzo(a,h)anthracene		10 µg/kg
8	Fluoranthene		10 µg/kg
9	Indeno(1,2,3-cd)pyrene		10 µg/kg
10	Pyrene		10 µg/kg

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33575B
Date of Issue:	2020-06-04
Date Received:	2020-05-29
Date Tested:	2020-05-29
Date Completed:	2020-06-04
Page:	2 of 2

Test Results:

Sample No.	33575-1	33575-2	33575-3	33575-4	33575-5
Sample ID	GS-1	GS-2	GS-3	GS-4	GS-5
Sampling Location	826100E 809399N	826286E 809323N	826025E 809213N	826210E 809138N	826395E 809062N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	29/05/2020	29/05/2020	29/05/2020	29/05/2020	29/05/2020
Sampling Time	11:40	11:25	11:10	10:50	10:35
Benzo(a)anthracene, µg/kg	<10	<10	<10	11	<10
Benzo(a)pyrene, µg/kg	<10	<10	<10	15	11
Benzo(b)fluoranthene, µg/kg	11	<10	<10	20	14
Benzo(k)fluoranthene, µg/kg	<10	<10	<10	<10	<10
Benzo(g,h,i)perylene, µg/kg	<10	<10	<10	12	<10
Chrysene, µg/kg	<10	<10	<10	<10	<10
Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10	<10
Fluoranthene, µg/kg	<10	<10	<10	12	<10
Indeno(1,2,3-cd)pyrene, µg/kg	<10	<10	<10	<10	<10
Pyrene, µg/kg	<10	<10	<10	12	<10

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33575C
Date of Issue:	2020-06-04
Date Received:	2020-05-29
Date Tested:	2020-05-29
Date Completed:	2020-06-04
Page:	1 of 2

Sample Description : 5 samples as received by customer said to be sediment
Laboratory No. : 33575C
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-05-29

Test Requested & Methodology:

Item	Parameters		Ref. Method	Limit of Reporting
1	2,4'-Dichlorobiphenyl	PCB8	In-house method SOP088 (GC/MSD)	1 µg/kg
2	2,2',5-Trichlorobiphenyl	PCB18		1 µg/kg
3	2,4,4'-Trichlorobiphenyl	PCB28		1 µg/kg
4	2,2', 3,5'-Tetrachlorobiphenyl	PCB44		1 µg/kg
5	2,2', 5,5'-Tetrachlorobiphenyl	PCB52		1 µg/kg
6	2,3', 4,4'-Tetrachlorobiphenyl	PCB66		1 µg/kg
7	3,3', 4,4'-Tetrachlorobiphenyl	PCB 77		1 µg/kg
8	2,2', 4,5,5'-Pentachlorobiphenyl	PCB101		1 µg/kg
9	2,3,3', 4,4'-Pentachlorobiphenyl	PCB105		1 µg/kg
10	2,3', 4,4',5-Pentachlorobiphenyl	PCB118		1 µg/kg
11	3,3', 4,4',5-Pentachlorobiphenyl	PCB126		1 µg/kg
12	2,2', 3,3',4,4'-Hexachlorobiphenyl	PCB128		1 µg/kg
13	2,2', 3,4,4',5'-Hexachlorobiphenyl	PCB138		1 µg/kg
14	2,2', 4,4',5,5'-Hexachlorobiphenyl	PCB153		1 µg/kg
15	3,3', 4,4',5,5'-Hexachlorobiphenyl	PCB169		1 µg/kg
16	2,2', 3,3',4,4',5-Heptachlorobiphenyl	PCB170		1 µg/kg
17	2,2', 3,4,4',5,5'-Heptachlorobiphenyl	PCB180		1 µg/kg
18	2,2', 3,4',5,5',6-Heptachlorobiphenyl	PCB187		1 µg/kg

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HKAS HOKLAS 083 TEST

TEST REPORT

Report No.:	33575C
Date of Issue:	2020-06-04
Date Received:	2020-05-29
Date Tested:	2020-05-29
Date Completed:	2020-06-04
Page:	2 of 2

Test Results:

Sample No.	33575-1	33575-2	33575-3	33575-4	33575-5
Sample ID	GS-1	GS-2	GS-3	GS-4	GS-5
Sampling Location	826100E 809399N	826286E 809323N	826025E 809213N	826210E 809138N	826395E 809062N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	29/05/2020	29/05/2020	29/05/2020	29/05/2020	29/05/2020
Sampling Time	11:40	11:25	11:10	10:50	10:35
2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

**********END OF REPORT**********

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HOKLAS 083
TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33575D
Date of Issue:	2020-06-04
Date Received:	2020-05-29
Date Tested:	2020-05-29
Date Completed:	2020-06-04
Page:	1 of 1

Sample Description : 5 samples as received by customer said to be sediment and was prepared for 5 interstitial water samples
Laboratory No. : 33575D
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-05-29

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Tributyltin (TBT)	In-house method SOP065 (GC/FPD)	0.010 µg/L

Test Results:

Sample No.	33575-1	33575-1	33575-1	33575-1	33575-1
Sample ID	GS-1	GS-2	GS-3	GS-4	GS-5
Sampling Location	826100E 809399N	826286E 809323N	826025E 809213N	826210E 809138N	826395E 809062N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	29/05/2020	29/05/2020	29/05/2020	29/05/2020	29/05/2020
Sampling Time	11:40	11:25	11:10	10:50	10:35
Tributyltin, µg/L	<0.010	<0.010	<0.010	<0.010	<0.010

Remarks: 1) < = less than
2) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HKLAS 083
TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33628
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24
Page:	1 of 3

Sample Description : 12 samples as received by customer said to be sediment
Laboratory No. : 33628
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-10

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Cadmium (Cd)	In-house method SOP053 (ICP-AES) & In-house method SOP093 (digestion) (ICP-MS)	0.05 mg/kg
2	Chromium (Cr)		0.1 mg/kg
3	Copper (Cu)		0.2 mg/kg
4	Mercury (Hg)		0.05 mg/kg
5	Nickel (Ni)		0.2 mg/kg
6	Lead (Pb)		0.1 mg/kg
7	Silver (Ag)		0.1 mg/kg
8	Zinc (Zn)		0.2 mg/kg
9	Arsenic (As)		0.1 mg/kg

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HKAS HOKLAS 083 TEST

TEST REPORT

Report No.:	33628
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24

Test Results:

Sample No.	33628-1	33628-2	33628-3	33628-4	33628-5
Sample ID	GS-6	GS-7	GS-8	GS-9	GS-10
Sampling Location	825950E 809028N	826135E 808953N	826320E 808877N	826433E 808774N	825874E 808843N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	10/06/2020	10/06/2020	10/06/2020	10/06/2020	10/06/2020
Sampling Time	9:15	9:30	9:50	10:00	10:45
Cadmium, mg/kg	<0.05	0.06	0.07	0.07	<0.05
Chromium, mg/kg	21	27	32	30	31
Copper, mg/kg	31	33	42	40	41
Mercury, mg/kg	0.06	0.08	0.14	0.10	0.09
Nickel, mg/kg	13	17	19	19	20
Lead, mg/kg	25	32	36	35	37
Silver, mg/kg	0.16	0.17	0.19	0.20	0.21
Zinc, mg/kg	70	89	98	97	100
Arsenic, mg/kg	7.1	9.3	9.8	9.6	9.4

Sample No.	33628-6	33628-7	33628-8	33628-9	33628-10
Sample ID	GS-11	GS-12	GS-13	GS-14	GS-15
Sampling Location	826059E 808767N	826244E 808692N	826430E 808616N	825799E 808658N	825984E 808582N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	10/06/2020	10/06/2020	10/06/2020	10/06/2020	10/06/2020
Sampling Time	10:35	10:25	10:15	11:10	11:20
Cadmium, mg/kg	<0.05	<0.05	0.06	<0.05	0.06
Chromium, mg/kg	24	26	27	31	31
Copper, mg/kg	35	34	33	38	39
Mercury, mg/kg	0.11	0.07	0.07	0.08	0.12
Nickel, mg/kg	15	16	17	19	19
Lead, mg/kg	46	32	31	36	35
Silver, mg/kg	0.13	0.16	0.18	0.16	0.34
Zinc, mg/kg	83	88	85	100	99
Arsenic, mg/kg	8.0	7.6	9.0	9.6	11

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1716, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33628
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24

Test Results:

Sample No.	33628-11	33628-12
Sample ID	GS-16	GS-17
Sampling Location	826169E 808507N	826354E 808431N
Sampling Depth	0.0-0.2m	0.0-0.2m
Sampling Date	10/06/2020	10/06/2020
Sampling Time	11:30	11:40
Cadmium, mg/kg	0.05	0.07
Chromium, mg/kg	20	30
Copper, mg/kg	20	35
Mercury, mg/kg	<0.05	0.12
Nickel, mg/kg	12	19
Lead, mg/kg	27	35
Silver, mg/kg	0.09	0.18
Zinc, mg/kg	80	97
Arsenic, mg/kg	7.2	9.1

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1716, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33628A
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24
Page:	1 of 3

Sample Description : 12 samples as received by customer said to be sediment
Laboratory No. : 33628A
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-10

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Acenaphtene	In-house method SOP090 (GC/MSD)	8 µg/kg
2	Acenaphtylene		8 µg/kg
3	Anthracene		8 µg/kg
4	Fluorene		8 µg/kg
5	Naphthalene		10 µg/kg
6	Phenanthrene		8 µg/kg

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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TEST REPORT

Report No.:	33628A
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24
Page:	2 of 3

Test Results:

Sample No.	33628-1	33628-2	33628-3	33628-4	33628-5
Sample ID	GS-6	GS-7	GS-8	GS-9	GS-10
Sampling Location	825950E 809028N	826135E 808953N	826320E 808877N	826433E 808774N	825874E 808843N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	10/06/2020	10/06/2020	10/06/2020	10/06/2020	10/06/2020
Sampling Time	9:15	9:30	9:50	10:00	10:45
Acenaphtene, µg/kg	<8	<8	<8	<8	<8
Acenaphtylene, µg/kg	<8	<8	<8	<8	<8
Anthracene, µg/kg	<8	<8	<8	<8	<8
Fluorene, µg/kg	<8	<8	<8	<8	<8
Naphthalene, µg/kg	<10	<10	<10	<10	<10
Phenanthrene, µg/kg	<8	<8	<8	<8	<8

Sample No.	33628-6	33628-7	33628-8	33628-9	33628-10
Sample ID	GS-11	GS-12	GS-13	GS-14	GS-15
Sampling Location	826059E 808767N	826244E 808692N	826430E 808616N	825799E 808658N	825984E 808582N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	10/06/2020	10/06/2020	10/06/2020	10/06/2020	10/06/2020
Sampling Time	10:35	10:25	10:15	11:10	11:20
Acenaphtene, µg/kg	<8	<8	<8	<8	<8
Acenaphtylene, µg/kg	<8	<8	<8	<8	<8
Anthracene, µg/kg	<8	<8	<8	<8	<8
Fluorene, µg/kg	<8	<8	<8	<8	<8
Naphthalene, µg/kg	<10	<10	<10	<10	<10
Phenanthrene, µg/kg	<8	<8	<8	<8	<8

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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TEST REPORT

Report No.:	33628A
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24

Test Results:

Sample No.	33628-11	33628-12
Sample ID	GS-16	GS-17
Sampling Location	826169E 808507N	826354E 808431N
Sampling Depth	0.0-0.2m	0.0-0.2m
Sampling Date	10/06/2020	10/06/2020
Sampling Time	11:30	11:40
Acenaphtene, µg/kg	<8	<8
Acenaphtylene, µg/kg	<8	<8
Anthracene, µg/kg	<8	<8
Fluorene, µg/kg	<8	<8
Naphthalene, µg/kg	<10	<10
Phenanthrene, µg/kg	<8	<8

Remarks: 1) <= less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HKAS HOKLAS 083 TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33628B
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24
Page:	1 of 4

Sample Description : 12 samples as received by customer said to be sediment
Laboratory No. : 33628B
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-10

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Benzo(a)anthracene	In-house method SOP090 (GC/MSD)	10 µg/kg
2	Benzo(a)pyrene		10 µg/kg
3	Benzo(b)fluoranthene		10 µg/kg
4	Benzo(k)fluoranthene		10 µg/kg
5	Benzo(g,h,i)perylene		10 µg/kg
6	Chrysene		10 µg/kg
7	Dibenzo(a,h)anthracene		10 µg/kg
8	Fluoranthene		10 µg/kg
9	Indeno(1,2,3-cd)pyrene		10 µg/kg
10	Pyrene		10 µg/kg

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HKAS HOKLAS 083 TEST

TEST REPORT

Report No.:	33628B
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24

Test Results:

Sample No.	33628-1	33628-2	33628-3	33628-4	33628-5
Sample ID	GS-6	GS-7	GS-8	GS-9	GS-10
Sampling Location	825950E 809028N	826135E 808953N	826320E 808877N	826433E 808774N	825874E 808843N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	10/06/2020	10/06/2020	10/06/2020	10/06/2020	10/06/2020
Sampling Time	9:15	9:30	9:50	10:00	10:45
Benzo(a)anthracene, µg/kg	27	29	19	15	14
Benzo(a)pyrene, µg/kg	15	47	31	31	29
Benzo(b)fluoranthene, µg/kg	70	65	49	43	47
Benzo(k)fluoranthene, µg/kg	10	32	19	17	16
Benzo(g,h,i)perylene, µg/kg	27	29	24	19	21
Chrysene, µg/kg	20	21	13	17	16
Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10	<10
Fluoranthene, µg/kg	50	53	19	18	18
Indeno(1,2,3-cd)pyrene, µg/kg	25	25	26	25	23
Pyrene, µg/kg	64	64	17	17	16

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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TEST

TEST REPORT

Report No.:	33628B
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24

Test Results:

Sample No.	33628-6	33628-7	33628-8	33628-9	33628-10
Sample ID	GS-11	GS-12	GS-13	GS-14	GS-15
Sampling Location	826059E 808767N	826244E 808692N	826430E 808616N	825799E 808658N	825984E 808582N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	10/06/2020	10/06/2020	10/06/2020	10/06/2020	10/06/2020
Sampling Time	10:35	10:25	10:15	11:10	11:20
Benzo(a)anthracene, μg/kg	<10	<10	<10	<10	<10
Benzo(a)pyrene, μg/kg	<10	<10	<10	<10	<10
Benzo(b)fluoranthene, μg/kg	<10	<10	<10	11	11
Benzo(k)fluoranthene, μg/kg	<10	<10	<10	<10	<10
Benzo(g,h,i)perylene, μg/kg	<10	<10	<10	<10	<10
Chrysene, μg/kg	<10	<10	<10	<10	<10
Dibenzo(a,h)anthracene, μg/kg	<10	<10	<10	<10	<10
Fluoranthene, μg/kg	<10	<10	<10	<10	<10
Indeno(1,2,3-cd)pyrene, μg/kg	11	11	13	14	13
Pyrene, μg/kg	<10	<10	<10	<10	<10

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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TEST REPORT

Report No.:	33628B
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24
Page:	4 of 4

Test Results:

Sample No.	33628-11	33628-12
Sample ID	GS-16	GS-17
Sampling Location	826169E 808507N	826354E 808431N
Sampling Depth	0.0-0.2m	0.0-0.2m
Sampling Date	10/06/2020	10/06/2020
Sampling Time	11:30	11:40
Benzo(a)anthracene, µg/kg	18	20
Benzo(a)pyrene, µg/kg	<10	<10
Benzo(b)fluoranthene, µg/kg	<10	<10
Benzo(k)fluoranthene, µg/kg	<10	<10
Benzo(g,h,i)perylene, µg/kg	<10	<10
Chrysene, µg/kg	<10	<10
Dibenzo(a,h)anthracene, µg/kg	<10	<10
Fluoranthene, µg/kg	<10	<10
Indeno(1,2,3-cd)pyrene, µg/kg	12	13
Pyrene, µg/kg	<10	<10

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

**********END OF REPORT**********

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HOKLAS 083
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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33628C
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24
Page:	1 of 4

Sample Description : 12 samples as received by customer said to be sediment
Laboratory No. : 33628C
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-10

Test Requested & Methodology:

Item	Parameters		Ref. Method	Limit of Reporting
1	2,4'-Dichlorobiphenyl	PCB8	In-house method SOP088 (GC/MSD)	1 µg/kg
2	2,2',5-Trichlorobiphenyl	PCB18		1 µg/kg
3	2,4,4'-Trichlorobiphenyl	PCB28		1 µg/kg
4	2,2', 3,5'-Tetrachlorobiphenyl	PCB44		1 µg/kg
5	2,2', 5,5'-Tetrachlorobiphenyl	PCB52		1 µg/kg
6	2,3', 4,4'-Tetrachlorobiphenyl	PCB66		1 µg/kg
7	3,3', 4,4'-Tetrachlorobiphenyl	PCB 77		1 µg/kg
8	2,2', 4,5,5'-Pentachlorobiphenyl	PCB101		1 µg/kg
9	2,3,3', 4,4'-Pentachlorobiphenyl	PCB105		1 µg/kg
10	2,3', 4,4',5-Pentachlorobiphenyl	PCB118		1 µg/kg
11	3,3', 4,4',5-Pentachlorobiphenyl	PCB126		1 µg/kg
12	2,2', 3,3',4,4'-Hexachlorobiphenyl	PCB128		1 µg/kg
13	2,2', 3,4,4',5'-Hexachlorobiphenyl	PCB138		1 µg/kg
14	2,2', 4,4',5,5'-Hexachlorobiphenyl	PCB153		1 µg/kg
15	3,3', 4,4',5,5'-Hexachlorobiphenyl	PCB169		1 µg/kg
16	2,2', 3,3',4,4',5-Heptachlorobiphenyl	PCB170		1 µg/kg
17	2,2', 3,4,4',5,5'-Heptachlorobiphenyl	PCB180		1 µg/kg
18	2,2', 3,4',5,5',6-Heptachlorobiphenyl	PCB187		1 µg/kg

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33628C
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24

Test Results:

Sample No.	33628-1	33628-2	33628-3	33628-4	33628-5
Sample ID	GS-6	GS-7	GS-8	GS-9	GS-10
Sampling Location	825950E 809028N	826135E 808953N	826320E 808877N	826433E 808774N	825874E 808843N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	10/06/2020	10/06/2020	10/06/2020	10/06/2020	10/06/2020
Sampling Time	9:15	9:30	9:50	10:00	10:45
2,4'-Dichlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2',5-Trichlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,4,4'-Trichlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 3,5'-Tetrachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 5,5'-Tetrachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,3', 4,4'-Tetrachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
3,3', 4,4'-Tetrachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 4,5,5'-Pentachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,3,3', 4,4'-Pentachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,3', 4,4',5-Pentachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5-Pentachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4'-Hexachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5'-Hexachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 4,4',5,5'-Hexachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5,5'-Hexachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4',5-Heptachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 3,4',5,5',6-Heptachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33628C
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24
Page:	3 of 4

Test Results:

Sample No.	33628-6	33628-7	33628-8	33628-9	33628-10
Sample ID	GS-11	GS-12	GS-13	GS-14	GS-15
Sampling Location	826059E 808767N	826244E 808692N	826430E 808616N	825799E 808658N	825984E 808582N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	10/06/2020	10/06/2020	10/06/2020	10/06/2020	10/06/2020
Sampling Time	10:35	10:25	10:15	11:10	11:20
2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33628C
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24

Test Results:

Sample No.	33628-11	33628-12
Sample ID	GS-16	GS-17
Sampling Location	826169E 808507N	826354E 808431N
Sampling Depth	0.0-0.2m	0.0-0.2m
Sampling Date	10/06/2020	10/06/2020
Sampling Time	11:30	11:40
2,4'-Dichlorobiphenyl, µg/kg	<1	<1
2,2',5-Trichlorobiphenyl, µg/kg	<1	<1
2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1
2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1
2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1
2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1
3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1
2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1
2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1
2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1
3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1
2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1
2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1
2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1
3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1
2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1
2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HKAS HOKLAS 083 TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33628D
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24
Page:	1 of 2

Sample Description : 12 samples as received by customer said to be sediment and were prepared for 12 interstitial water samples
Laboratory No. : 33628D
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-10

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Tributyltin (TBT)	In-house method SOP065 (GC/FPD)	0.010 µg/L

Test Results:

Sample No.	33628-1	33628-2	33628-3	33628-4	33628-5
Sample ID	GS-6	GS-7	GS-8	GS-9	GS-10
Sampling Location	825950E 809028N	826135E 808953N	826320E 808877N	826433E 808774N	825874E 808843N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	10/06/2020	10/06/2020	10/06/2020	10/06/2020	10/06/2020
Sampling Time	9:15	9:30	9:50	10:00	10:45
Tributyltin, µg/L	<0.010	<0.010	<0.010	<0.010	<0.010

Remarks: 1) < = less than
2) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory: _____
Tse Siu Kei, Patrick
General Manager

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TEST REPORT

Report No.:	33628D
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24

Test Results:

Sample No.	33628-6	33628-7	33628-8	33628-9	33628-10
Sample ID	GS-11	GS-12	GS-13	GS-14	GS-15
Sampling Location	826059E 808767N	826244E 808692N	826430E 808616N	825799E 808658N	825984E 808582N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	10/06/2020	10/06/2020	10/06/2020	10/06/2020	10/06/2020
Sampling Time	10:35	10:25	10:15	11:10	11:20
Tributyltin, µg/L	<0.010	<0.010	<0.010	<0.010	<0.010

Sample No.	33628-11	33628-12
Sample ID	GS-16	GS-17
Sampling Location	826169E 808507N	826354E 808431N
Sampling Depth	0.0-0.2m	0.0-0.2m
Sampling Date	10/06/2020	10/06/2020
Sampling Time	11:30	11:40
Tributyltin, µg/L	<0.010	<0.010

Remarks: 1) < = less than

2) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33633
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24
Page:	1 of 3

Sample Description : 14 samples as received by customer said to be sediment
Laboratory No. : 33633
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-11

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Cadmium (Cd)	In-house method SOP053 (ICP-AES) & In-house method SOP093 (digestion) (ICP-MS)	0.05 mg/kg
2	Chromium (Cr)		0.1 mg/kg
3	Copper (Cu)		0.2 mg/kg
4	Mercury (Hg)		0.05 mg/kg
5	Nickel (Ni)		0.2 mg/kg
6	Lead (Pb)		0.1 mg/kg
7	Silver (Ag)		0.1 mg/kg
8	Zinc (Zn)		0.2 mg/kg
9	Arsenic (As)		0.1 mg/kg

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33633
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24

Test Results:

Sample No.	33633-1	33633-2	33633-3	33633-4	33633-5
Sample ID	GS-18	GS-19	GS-20	GS-21	GS-22
Sampling Location	826539E 808356N	825723E 808472N	825908E 808397N	826094E 808322N	826279E 808246N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	11/06/2020	11/06/2020	11/06/2020	11/06/2020	11/06/2020
Sampling Time	9:05	10:45	10:30	10:10	9:50
Cadmium, mg/kg	0.06	0.05	0.07	<0.05	<0.05
Chromium, mg/kg	25	27	28	25	25
Copper, mg/kg	29	34	38	31	31
Mercury, mg/kg	0.11	0.12	0.10	0.07	0.09
Nickel, mg/kg	16	17	18	16	16
Lead, mg/kg	31	34	33	30	29
Silver, mg/kg	0.14	0.28	0.21	0.16	0.16
Zinc, mg/kg	82	95	94	87	84
Arsenic, mg/kg	7.8	9.0	9.4	7.6	7.6

Sample No.	33633-6	33633-7	33633-8	33633-9	33633-10
Sample ID	GS-23	GS-24	GS-25	GS-26	GS-27
Sampling Location	826464E 808171N	825648E 808287N	825833E 808212N	826018E 808136N	826203E 808061N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	11/06/2020	11/06/2020	11/06/2020	11/06/2020	11/06/2020
Sampling Time	9:30	11:00	11:20	11:45	12:05
Cadmium, mg/kg	<0.05	<0.05	0.05	<0.05	<0.05
Chromium, mg/kg	25	26	25	25	25
Copper, mg/kg	29	34	31	28	30
Mercury, mg/kg	0.10	0.17	0.30	0.16	0.07
Nickel, mg/kg	16	16	16	16	16
Lead, mg/kg	29	34	33	32	29
Silver, mg/kg	0.14	0.17	0.16	0.14	0.15
Zinc, mg/kg	80	87	84	85	80
Arsenic, mg/kg	8.6	8.7	7.7	7.9	7.7

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1716, Technology Park, 18 On Lai Street, Shatin

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HKAS HOKLAS 083 TEST

TEST REPORT

Report No.:	33633
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24

Test Results:

Sample No.	33633-11	33633-12	33633-13	33633-14
Sample ID	GS-28	GS-29	GS-35	GS-36
Sampling Location	826389E 807985N	826574E 807910N	826498E 807725N	826684E 807649N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	11/06/2020	11/06/2020	11/06/2020	11/06/2020
Sampling Time	12:25	12:45	12:55	13:05
Cadmium, mg/kg	<0.05	<0.05	<0.05	<0.05
Chromium, mg/kg	23	22	23	24
Copper, mg/kg	31	23	23	25
Mercury, mg/kg	0.09	<0.05	<0.05	<0.05
Nickel, mg/kg	15	14	15	15
Lead, mg/kg	31	26	27	27
Silver, mg/kg	0.14	0.10	0.11	0.11
Zinc, mg/kg	72	68	74	76
Arsenic, mg/kg	7.3	6.9	7.3	7.1

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1716, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33633A
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24
Page:	1 of 3

Sample Description : 14 samples as received by customer said to be sediment
Laboratory No. : 33633A
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-11

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Acenaphtene	In-house method SOP090 (GC/MSD)	8 µg/kg
2	Acenaphtylene		8 µg/kg
3	Anthracene		8 µg/kg
4	Fluorene		8 µg/kg
5	Naphthalene		10 µg/kg
6	Phenanthrene		8 µg/kg

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33633A
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24

Test Results:

Sample No.	33633-1	33633-2	33633-3	33633-4	33633-5
Sample ID	GS-18	GS-19	GS-20	GS-21	GS-22
Sampling Location	826539E 808356N	825723E 808472N	825908E 808397N	826094E 808322N	826279E 808246N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	11/06/2020	11/06/2020	11/06/2020	11/06/2020	11/06/2020
Sampling Time	9:05	10:45	10:30	10:10	9:50
Acenaphtene, μg/kg	<8	<8	<8	<8	<8
Acenaphtylene, μg/kg	<8	<8	<8	<8	<8
Anthracene, μg/kg	<8	<8	<8	<8	<8
Fluorene, μg/kg	<8	<8	<8	<8	<8
Naphthalene, μg/kg	<10	<10	<10	<10	<10
Phenanthrene, μg/kg	<8	<8	<8	<8	<8

Sample No.	33633-6	33633-7	33633-8	33633-9	33633-10
Sample ID	GS-23	GS-24	GS-25	GS-26	GS-27
Sampling Location	826464E 808171N	825648E 808287N	825833E 808212N	826018E 808136N	826203E 808061N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	11/06/2020	11/06/2020	11/06/2020	11/06/2020	11/06/2020
Sampling Time	9:30	11:00	11:20	11:45	12:05
Acenaphtene, μg/kg	<8	<8	<8	<8	<8
Acenaphtylene, μg/kg	<8	<8	<8	<8	<8
Anthracene, μg/kg	<8	<8	<8	<8	<8
Fluorene, μg/kg	<8	<8	<8	<8	<8
Naphthalene, μg/kg	<10	<10	<10	<10	<10
Phenanthrene, μg/kg	<8	<8	<8	<8	<8

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33633A
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24

Test Results:

Sample No.	33633-11	33633-12	33633-13	33633-14
Sample ID	GS-28	GS-29	GS-35	GS-36
Sampling Location	826389E 807985N	826574E 807910N	826498E 807725N	826684E 807649N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	11/06/2020	11/06/2020	11/06/2020	11/06/2020
Sampling Time	12:25	12:45	12:55	13:05
Acenaphtene, µg/kg	<8	<8	<8	<8
Acenaphtylene, µg/kg	<8	<8	<8	<8
Anthracene, µg/kg	<8	<8	<8	<8
Fluorene, µg/kg	<8	<8	<8	<8
Naphthalene, µg/kg	<10	<10	<10	<10
Phenanthrene, µg/kg	<8	<8	<8	<8

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HKLAS 083
TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33633B
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24
Page:	1 of 4

Sample Description : 14 samples as received by customer said to be sediment
Laboratory No. : 33633B
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-11

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Benzo(a)anthracene	In-house method SOP090 (GC/MSD)	10 µg/kg
2	Benzo(a)pyrene		10 µg/kg
3	Benzo(b)fluoranthene		10 µg/kg
4	Benzo(k)fluoranthene		10 µg/kg
5	Benzo(g,h,i)perylene		10 µg/kg
6	Chrysene		10 µg/kg
7	Dibenzo(a,h)anthracene		10 µg/kg
8	Fluoranthene		10 µg/kg
9	Indeno(1,2,3-cd)pyrene		10 µg/kg
10	Pyrene		10 µg/kg

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PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33633B
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24
Page:	2 of 4

Test Results:

Sample No.	33633-1	33633-2	33633-3	33633-4	33633-5
Sample ID	GS-18	GS-19	GS-20	GS-21	GS-22
Sampling Location	826539E 808356N	825723E 808472N	825908E 808397N	826094E 808322N	826279E 808246N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	11/06/2020	11/06/2020	11/06/2020	11/06/2020	11/06/2020
Sampling Time	9:05	10:45	10:30	10:10	9:50
Benzo(a)anthracene, μg/kg	<10	<10	<10	<10	<10
Benzo(a)pyrene, μg/kg	<10	<10	<10	<10	<10
Benzo(b)fluoranthene, μg/kg	<10	<10	<10	<10	<10
Benzo(k)fluoranthene, μg/kg	<10	<10	<10	<10	<10
Benzo(g,h,i)perylene, μg/kg	<10	<10	<10	<10	<10
Chrysene, μg/kg	<10	<10	<10	<10	<10
Dibenzo(a,h)anthracene, μg/kg	<10	<10	<10	<10	<10
Fluoranthene, μg/kg	<10	<10	<10	<10	<10
Indeno(1,2,3-cd)pyrene, μg/kg	<10	<10	<10	<10	<10
Pyrene, μg/kg	<10	<10	<10	<10	<10

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HKAS HOKLAS 083 TEST

TEST REPORT

Report No.:	33633B
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24

Test Results:

Sample No.	33633-6	33633-7	33633-8	33633-9	33633-10
Sample ID	GS-23	GS-24	GS-25	GS-26	GS-27
Sampling Location	826464E 808171N	825648E 808287N	825833E 808212N	826018E 808136N	826203E 808061N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	11/06/2020	11/06/2020	11/06/2020	11/06/2020	11/06/2020
Sampling Time	9:30	11:00	11:20	11:45	12:05
Benzo(a)anthracene, µg/kg	<10	<10	<10	<10	<10
Benzo(a)pyrene, µg/kg	<10	<10	<10	<10	<10
Benzo(b)fluoranthene, µg/kg	<10	<10	<10	<10	<10
Benzo(k)fluoranthene, µg/kg	<10	<10	<10	<10	<10
Benzo(g,h,i)perylene, µg/kg	<10	<10	<10	<10	<10
Chrysene, µg/kg	<10	<10	<10	<10	<10
Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10	<10
Fluoranthene, µg/kg	<10	<10	<10	<10	<10
Indeno(1,2,3-cd)pyrene, µg/kg	<10	<10	<10	<10	<10
Pyrene, µg/kg	<10	<10	<10	<10	<10

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HKLAS 083
TEST

TEST REPORT

Report No.:	33633B
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24
Page:	4 of 4

Test Results:

Sample No.	33633-11	33633-12	33633-13	33633-14
Sample ID	GS-28	GS-29	GS-35	GS-36
Sampling Location	826389E 807985N	826574E 807910N	826498E 807725N	826684E 807649N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	11/06/2020	11/06/2020	11/06/2020	11/06/2020
Sampling Time	12:25	12:45	12:55	13:05
Benzo(a)anthracene, μg/kg	<10	<10	<10	<10
Benzo(a)pyrene, μg/kg	<10	<10	<10	<10
Benzo(b)fluoranthene, μg/kg	<10	<10	<10	<10
Benzo(k)fluoranthene, μg/kg	<10	<10	<10	<10
Benzo(g,h,i)perylene, μg/kg	<10	<10	<10	<10
Chrysene, μg/kg	<10	<10	<10	<10
Dibenzo(a,h)anthracene, μg/kg	<10	<10	<10	<10
Fluoranthene, μg/kg	<10	<10	<10	<10
Indeno(1,2,3-cd)pyrene, μg/kg	<10	<10	<10	<10
Pyrene, μg/kg	<10	<10	<10	<10

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HKAS HOKLAS 083 TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33633C
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24
Page:	1 of 4

Sample Description : 14 samples as received by customer said to be sediment
Laboratory No. : 33633C
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-11

Test Requested & Methodology:

Item	Parameters		Ref. Method	Limit of Reporting
1	2,4'-Dichlorobiphenyl	PCB8	In-house method SOP088 (GC/MSD)	1 µg/kg
2	2,2',5-Trichlorobiphenyl	PCB18		1 µg/kg
3	2,4,4'-Trichlorobiphenyl	PCB28		1 µg/kg
4	2,2', 3,5'-Tetrachlorobiphenyl	PCB44		1 µg/kg
5	2,2', 5,5'-Tetrachlorobiphenyl	PCB52		1 µg/kg
6	2,3', 4,4'-Tetrachlorobiphenyl	PCB66		1 µg/kg
7	3,3', 4,4'-Tetrachlorobiphenyl	PCB 77		1 µg/kg
8	2,2', 4,5,5'-Pentachlorobiphenyl	PCB101		1 µg/kg
9	2,3,3', 4,4'-Pentachlorobiphenyl	PCB105		1 µg/kg
10	2,3', 4,4',5-Pentachlorobiphenyl	PCB118		1 µg/kg
11	3,3', 4,4',5-Pentachlorobiphenyl	PCB126		1 µg/kg
12	2,2', 3,3',4,4'-Hexachlorobiphenyl	PCB128		1 µg/kg
13	2,2', 3,4,4',5'-Hexachlorobiphenyl	PCB138		1 µg/kg
14	2,2', 4,4',5,5'-Hexachlorobiphenyl	PCB153		1 µg/kg
15	3,3', 4,4',5,5'-Hexachlorobiphenyl	PCB169		1 µg/kg
16	2,2', 3,3',4,4',5-Heptachlorobiphenyl	PCB170		1 µg/kg
17	2,2', 3,4,4',5,5'-Heptachlorobiphenyl	PCB180		1 µg/kg
18	2,2', 3,4',5,5',6-Heptachlorobiphenyl	PCB187		1 µg/kg

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HKAS HOKLAS 083 TEST

TEST REPORT

Report No.:	33633C
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24

Test Results:

Sample No.	33633-1	33633-2	33633-3	33633-4	33633-5
Sample ID	GS-18	GS-19	GS-20	GS-21	GS-22
Sampling Location	826539E 808356N	825723E 808472N	825908E 808397N	826094E 808322N	826279E 808246N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	11/06/2020	11/06/2020	11/06/2020	11/06/2020	11/06/2020
Sampling Time	9:05	10:45	10:30	10:10	9:50
2,4'-Dichlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2',5-Trichlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,4,4'-Trichlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 3,5'-Tetrachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 5,5'-Tetrachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,3', 4,4'-Tetrachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
3,3', 4,4'-Tetrachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 4,5,5'-Pentachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,3,3', 4,4'-Pentachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,3', 4,4',5-Pentachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5-Pentachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4'-Hexachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5'-Hexachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 4,4',5,5'-Hexachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5,5'-Hexachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4',5-Heptachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 3,4',5,5',6-Heptachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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TEST REPORT

Report No.:	33633C
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24
Page:	3 of 4

Test Results:

Sample No.	33633-6	33633-7	33633-8	33633-9	33633-10
Sample ID	GS-23	GS-24	GS-25	GS-26	GS-27
Sampling Location	826464E 808171N	825648E 808287N	825833E 808212N	826018E 808136N	826203E 808061N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	11/06/2020	11/06/2020	11/06/2020	11/06/2020	11/06/2020
Sampling Time	9:30	11:00	11:20	11:45	12:05
2,4'-Dichlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2',5-Trichlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,4,4'-Trichlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 3,5'-Tetrachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 5,5'-Tetrachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,3', 4,4'-Tetrachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
3,3', 4,4'-Tetrachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 4,5,5'-Pentachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,3,3', 4,4'-Pentachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,3', 4,4',5-Pentachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5-Pentachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4'-Hexachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5'-Hexachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 4,4',5,5'-Hexachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5,5'-Hexachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4',5-Heptachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 3,4',5,5',6-Heptachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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TEST REPORT

Report No.:	33633C
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24

Test Results:

Sample No.	33633-11	33633-12	33633-13	33633-14
Sample ID	GS-28	GS-29	GS-35	GS-36
Sampling Location	826389E 807985N	826574E 807910N	826498E 807725N	826684E 807649N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	11/06/2020	11/06/2020	11/06/2020	11/06/2020
Sampling Time	12:25	12:45	12:55	13:05
2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HKAS HOKLAS 083 TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33633D
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24
Page:	1 of 2

Sample Description : 14 samples as received by customer said to be sediment and were prepared for 14 interstitial water samples
Laboratory No. : 33633D
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-11

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Tributyltin (TBT)	In-house method SOP065 (GC/FPD)	0.010 μg/L

Test Results:

Sample No.	33633-1	33633-2	33633-3	33633-4	33633-5
Sample ID	GS-18	GS-19	GS-20	GS-21	GS-22
Sampling Location	826539E 808356N	825723E 808472N	825908E 808397N	826094E 808322N	826279E 808246N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	11/06/2020	11/06/2020	11/06/2020	11/06/2020	11/06/2020
Sampling Time	9:05	10:45	10:30	10:10	9:50
Tributyltin, μg/L	<0.010	<0.010	<0.010	<0.010	<0.010

Remarks: 1) < = less than
2) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33633D
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24
Page:	2 of 2

Test Results:

Sample No.	33633-6	33633-7	33633-8	33633-9	33633-10
Sample ID	GS-23	GS-24	GS-25	GS-26	GS-27
Sampling Location	826464E 808171N	825648E 808287N	825833E 808212N	826018E 808136N	826203E 808061N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	11/06/2020	11/06/2020	11/06/2020	11/06/2020	11/06/2020
Sampling Time	9:30	11:00	11:20	11:45	12:05
Tributyltin, µg/L	<0.010	<0.010	<0.010	<0.010	<0.010

Sample No.	33633-11	33633-12	33633-13	33633-14
Sample ID	GS-28	GS-29	GS-35	GS-36
Sampling Location	826389E 807985N	826574E 807910N	826498E 807725N	826684E 807649N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	11/06/2020	11/06/2020	11/06/2020	11/06/2020
Sampling Time	12:25	12:45	12:55	13:05
Tributyltin, µg/L	<0.010	<0.010	<0.010	<0.010

Remarks: 1) < = less than

2) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HKLAS 083
TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33638
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24
Page:	1 of 3

Sample Description : 15 samples as received by customer said to be sediment
Laboratory No. : 33638
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-12

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Cadmium (Cd)	In-house method SOP053 (ICP-AES) & In-house method SOP093 (digestion) (ICP-MS)	0.05 mg/kg
2	Chromium (Cr)		0.1 mg/kg
3	Copper (Cu)		0.2 mg/kg
4	Mercury (Hg)		0.05 mg/kg
5	Nickel (Ni)		0.2 mg/kg
6	Lead (Pb)		0.1 mg/kg
7	Silver (Ag)		0.1 mg/kg
8	Zinc (Zn)		0.2 mg/kg
9	Arsenic (As)		0.1 mg/kg

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HKAS HOKLAS 083 TEST

TEST REPORT

Report No.:	33638
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24

Test Results:

Sample No.	33638-1	33638-2	33638-3	33638-4	33638-5
Sample ID	GS-30	GS-31	GS-32	GS-33	GS-34
Sampling Location	825572E 808102N	825757E 808027N	825943E 807951N	826128E 807876N	826313E 807800N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	12/06/2020	12/06/2020	12/06/2020	12/06/2020	12/06/2020
Sampling Time	10:45	10:30	10:15	10:00	9:40
Cadmium, mg/kg	0.05	0.06	<0.05	<0.05	<0.05
Chromium, mg/kg	26	25	25	22	27
Copper, mg/kg	43	30	31	22	28
Mercury, mg/kg	0.08	0.10	0.11	<0.05	0.06
Nickel, mg/kg	17	16	16	14	18
Lead, mg/kg	30	29	29	30	31
Silver, mg/kg	0.13	0.19	0.17	0.10	0.13
Zinc, mg/kg	85	80	81	76	88
Arsenic, mg/kg	8.9	8.4	8.2	7.6	8.3

Sample No.	33638-6	33638-7	33638-8	33638-9	33638-10
Sample ID	GS-37	GS-38	GS-39	GS-40	GS-41
Sampling Location	825497E 807917N	825682E 807841N	825867E 807766N	826052E 807690N	826238E 807615N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	12/06/2020	12/06/2020	12/06/2020	12/06/2020	12/06/2020
Sampling Time	11:00	11:10	11:25	11:38	11:55
Cadmium, mg/kg	<0.05	0.07	<0.05	<0.05	0.06
Chromium, mg/kg	23	27	24	27	36
Copper, mg/kg	25	31	28	30	32
Mercury, mg/kg	<0.05	0.16	0.17	0.09	0.07
Nickel, mg/kg	14	17	16	17	24
Lead, mg/kg	30	32	30	32	43
Silver, mg/kg	0.10	0.16	0.13	0.13	0.15
Zinc, mg/kg	80	88	80	90	110
Arsenic, mg/kg	7.7	8.1	7.2	8.1	10

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1716, Technology Park, 18 On Lai Street, Shatin

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HKAS HOKLAS 083 TEST

TEST REPORT

Report No.:	33638
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24
Page:	3 of 3

Test Results:

Sample No.	33638-11	33638-12	33638-13	33638-14	33633-15
Sample ID	GS-42	GS-43	GS-44	GS-51	GS-52
Sampling Location	826423E 807539N	826608E 807464N	826723E 807364N	826533E 807279N	826718E 807203N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	12/06/2020	12/06/2020	12/06/2020	12/06/2020	12/06/2020
Sampling Time	12:10	12:20	12:35	13:10	12:48
Cadmium, mg/kg	<0.05	<0.05	0.06	<0.05	<0.05
Chromium, mg/kg	24	26	23	23	25
Copper, mg/kg	27	27	22	36	19
Mercury, mg/kg	0.09	0.05	0.07	<0.05	<0.05
Nickel, mg/kg	15	16	15	15	16
Lead, mg/kg	26	30	25	24	25
Silver, mg/kg	0.12	0.12	0.10	0.08	0.07
Zinc, mg/kg	74	82	72	70	72
Arsenic, mg/kg	7.0	7.4	7.5	7.0	7.5

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1716, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33638A
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24
Page:	1 of 3

Sample Description : 15 samples as received by customer said to be sediment
Laboratory No. : 33638A
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-12

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Acenaphtene	In-house method SOP090 (GC/MSD)	8 µg/kg
2	Acenaphtylene		8 µg/kg
3	Anthracene		8 µg/kg
4	Fluorene		8 µg/kg
5	Naphthalene		10 µg/kg
6	Phenanthrene		8 µg/kg

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HKAS HOKLAS 083 TEST

TEST REPORT

Report No.:	33638A
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24
Page:	2 of 3

Test Results:

Sample No.	33638-1	33638-2	33638-3	33638-4	33638-5
Sample ID	GS-30	GS-31	GS-32	GS-33	GS-34
Sampling Location	825572E 808102N	825757E 808027N	825943E 807951N	826128E 807876N	826313E 807800N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	12/06/2020	12/06/2020	12/06/2020	12/06/2020	12/06/2020
Sampling Time	10:45	10:30	10:15	10:00	9:40
Acenaphtene, μg/kg	<8	<8	<8	<8	<8
Acenaphtylene, μg/kg	<8	<8	<8	<8	<8
Anthracene, μg/kg	<8	<8	<8	<8	<8
Fluorene, μg/kg	<8	<8	<8	<8	<8
Naphthalene, μg/kg	<10	<10	<10	<10	<10
Phenanthrene, μg/kg	<8	<8	<8	<8	<8

Sample No.	33638-6	33638-7	33638-8	33638-9	33638-10
Sample ID	GS-37	GS-38	GS-39	GS-40	GS-41
Sampling Location	825497E 807917N	825682E 807841N	825867E 807766N	826052E 807690N	826238E 807615N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	12/06/2020	12/06/2020	12/06/2020	12/06/2020	12/06/2020
Sampling Time	11:00	11:10	11:25	11:38	11:55
Acenaphtene, μg/kg	<8	<8	<8	<8	<8
Acenaphtylene, μg/kg	<8	<8	<8	<8	<8
Anthracene, μg/kg	<8	<8	<8	<8	<8
Fluorene, μg/kg	<8	<8	<8	<8	<8
Naphthalene, μg/kg	<10	<10	<10	<10	<10
Phenanthrene, μg/kg	<8	<8	<8	<8	<8

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HKAS HOKLAS 083 TEST

TEST REPORT

Report No.:	33638A
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24

Test Results:

Sample No.	33638-11	33638-12	33638-13	33638-14	33633-15
Sample ID	GS-42	GS-43	GS-44	GS-51	GS-52
Sampling Location	826423E 807539N	826608E 807464N	826723E 807364N	826533E 807279N	826718E 807203N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	12/06/2020	12/06/2020	12/06/2020	12/06/2020	12/06/2020
Sampling Time	12:10	12:20	12:35	13:10	12:48
Acenaphtene, μg/kg	<8	<8	<8	<8	<8
Acenaphtylene, μg/kg	<8	<8	<8	<8	<8
Anthracene, μg/kg	<8	<8	<8	<8	<8
Fluorene, μg/kg	<8	<8	<8	<8	<8
Naphthalene, μg/kg	<10	<10	<10	<10	<10
Phenanthrene, μg/kg	<8	<8	<8	<8	<8

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HKAS HOKLAS 083 TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33638B
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24
Page:	1 of 4

Sample Description : 15 samples as received by customer said to be sediment
Laboratory No. : 33638B
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-12

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Benzo(a)anthracene	In-house method SOP090 (GC/MSD)	10 µg/kg
2	Benzo(a)pyrene		10 µg/kg
3	Benzo(b)fluoranthene		10 µg/kg
4	Benzo(k)fluoranthene		10 µg/kg
5	Benzo(g,h,i)perylene		10 µg/kg
6	Chrysene		10 µg/kg
7	Dibenzo(a,h)anthracene		10 µg/kg
8	Fluoranthene		10 µg/kg
9	Indeno(1,2,3-cd)pyrene		10 µg/kg
10	Pyrene		10 µg/kg

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33638B
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24
Page:	2 of 4

Test Results:

Sample No.	33638-1	33638-2	33638-3	33638-4	33638-5
Sample ID	GS-30	GS-31	GS-32	GS-33	GS-34
Sampling Location	825572E 808102N	825757E 808027N	825943E 807951N	826128E 807876N	826313E 807800N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	12/06/2020	12/06/2020	12/06/2020	12/06/2020	12/06/2020
Sampling Time	10:45	10:30	10:15	10:00	9:40
Benzo(a)anthracene, µg/kg	<10	<10	<10	<10	<10
Benzo(a)pyrene, µg/kg	<10	<10	16	<10	<10
Benzo(b)fluoranthene, µg/kg	<10	<10	21	<10	<10
Benzo(k)fluoranthene, µg/kg	<10	<10	<10	<10	<10
Benzo(g,h,i)perylene, µg/kg	<10	<10	<10	<10	<10
Chrysene, µg/kg	<10	<10	<10	<10	<10
Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10	<10
Fluoranthene, µg/kg	<10	<10	<10	<10	<10
Indeno(1,2,3-cd)pyrene, µg/kg	<10	<10	<10	<10	<10
Pyrene, µg/kg	<10	<10	<10	<10	<10

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33638B
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24
Page:	3 of 4

Test Results:

Sample No.	33638-6	33638-7	33638-8	33638-9	33638-10
Sample ID	GS-37	GS-38	GS-39	GS-40	GS-41
Sampling Location	825497E 807917N	825682E 807841N	825867E 807766N	826052E 807690N	826238E 807615N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	12/06/2020	12/06/2020	12/06/2020	12/06/2020	12/06/2020
Sampling Time	11:00	11:10	11:25	11:38	11:55
Benzo(a)anthracene, µg/kg	<10	<10	<10	<10	<10
Benzo(a)pyrene, µg/kg	<10	<10	<10	<10	<10
Benzo(b)fluoranthene, µg/kg	<10	<10	<10	<10	<10
Benzo(k)fluoranthene, µg/kg	<10	<10	<10	<10	<10
Benzo(g,h,i)perylene, µg/kg	<10	<10	<10	<10	<10
Chrysene, µg/kg	<10	<10	<10	<10	<10
Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10	<10
Fluoranthene, µg/kg	<10	<10	<10	<10	<10
Indeno(1,2,3-cd)pyrene, µg/kg	<10	<10	<10	<10	<10
Pyrene, µg/kg	<10	<10	<10	<10	<10

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33638B
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24
Page:	4 of 4

Test Results:

Sample No.	33638-11	33638-12	33638-13	33638-14	33633-15
Sample ID	GS-42	GS-43	GS-44	GS-51	GS-52
Sampling Location	826423E 807539N	826608E 807464N	826723E 807364N	826533E 807279N	826718E 807203N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	12/06/2020	12/06/2020	12/06/2020	12/06/2020	12/06/2020
Sampling Time	12:10	12:20	12:35	13:10	12:48
Benzo(a)anthracene, µg/kg	<10	<10	<10	<10	<10
Benzo(a)pyrene, µg/kg	<10	<10	<10	<10	<10
Benzo(b)fluoranthene, µg/kg	<10	<10	<10	<10	<10
Benzo(k)fluoranthene, µg/kg	<10	<10	<10	<10	<10
Benzo(g,h,i)perylene, µg/kg	<10	<10	<10	<10	<10
Chrysene, µg/kg	<10	<10	<10	<10	<10
Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10	<10
Fluoranthene, µg/kg	<10	<10	<10	<10	<10
Indeno(1,2,3-cd)pyrene, µg/kg	<10	<10	<10	<10	<10
Pyrene, µg/kg	<10	<10	<10	<10	<10

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HKAS HOKLAS 083 TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33638C
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24
Page:	1 of 4

Sample Description : 15 samples as received by customer said to be sediment
Laboratory No. : 33638C
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-12

Test Requested & Methodology:

Item	Parameters		Ref. Method	Limit of Reporting
1	2,4'-Dichlorobiphenyl	PCB8	In-house method SOP088 (GC/MSD)	1 µg/kg
2	2,2',5-Trichlorobiphenyl	PCB18		1 µg/kg
3	2,4,4'-Trichlorobiphenyl	PCB28		1 µg/kg
4	2,2', 3,5'-Tetrachlorobiphenyl	PCB44		1 µg/kg
5	2,2', 5,5'-Tetrachlorobiphenyl	PCB52		1 µg/kg
6	2,3', 4,4'-Tetrachlorobiphenyl	PCB66		1 µg/kg
7	3,3', 4,4'-Tetrachlorobiphenyl	PCB 77		1 µg/kg
8	2,2', 4,5,5'-Pentachlorobiphenyl	PCB101		1 µg/kg
9	2,3,3', 4,4'-Pentachlorobiphenyl	PCB105		1 µg/kg
10	2,3', 4,4',5-Pentachlorobiphenyl	PCB118		1 µg/kg
11	3,3', 4,4',5-Pentachlorobiphenyl	PCB126		1 µg/kg
12	2,2', 3,3',4,4'-Hexachlorobiphenyl	PCB128		1 µg/kg
13	2,2', 3,4,4',5'-Hexachlorobiphenyl	PCB138		1 µg/kg
14	2,2', 4,4',5,5'-Hexachlorobiphenyl	PCB153		1 µg/kg
15	3,3', 4,4',5,5'-Hexachlorobiphenyl	PCB169		1 µg/kg
16	2,2', 3,3',4,4',5-Heptachlorobiphenyl	PCB170		1 µg/kg
17	2,2', 3,4,4',5,5'-Heptachlorobiphenyl	PCB180		1 µg/kg
18	2,2', 3,4',5,5',6-Heptachlorobiphenyl	PCB187		1 µg/kg

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HKAS HOKLAS 083 TEST

TEST REPORT

Report No.:	33638C
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24
Page:	2 of 4

Test Results:

Sample No.	33638-1	33638-2	33638-3	33638-4	33638-5
Sample ID	GS-30	GS-31	GS-32	GS-33	GS-34
Sampling Location	825572E 808102N	825757E 808027N	825943E 807951N	826128E 807876N	826313E 807800N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	12/06/2020	12/06/2020	12/06/2020	12/06/2020	12/06/2020
Sampling Time	10:45	10:30	10:15	10:00	9:40
2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33638C
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24

Test Results:

Sample No.	33638-6	33638-7	33638-8	33638-9	33638-10
Sample ID	GS-37	GS-38	GS-39	GS-40	GS-41
Sampling Location	825497E 807917N	825682E 807841N	825867E 807766N	826052E 807690N	826238E 807615N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	12/06/2020	12/06/2020	12/06/2020	12/06/2020	12/06/2020
Sampling Time	11:00	11:10	11:25	11:38	11:55
2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HKAS HOKLAS 083 TEST

TEST REPORT

Report No.:	33638C
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24
Page:	4 of 4

Test Results:

Sample No.	33638-11	33638-12	33638-13	33638-14	33633-15
Sample ID	GS-42	GS-43	GS-44	GS-51	GS-52
Sampling Location	826423E 807539N	826608E 807464N	826723E 807364N	826533E 807279N	826718E 807203N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	12/06/2020	12/06/2020	12/06/2020	12/06/2020	12/06/2020
Sampling Time	12:10	12:20	12:35	13:10	12:48
2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	33638D
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24
Page:	1 of 2

ATTN: **Mr. N.P. Shum**

Sample Description : 15 samples as received by customer said to be sediment and were prepared for 15 interstitial water samples
Laboratory No. : 33638D
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-12

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Tributyltin (TBT)	In-house method SOP065 (GC/FPD)	0.010 µg/L

Test Results:

Sample No.	33638-1	33638-2	33638-3	33638-4	33638-5
Sample ID	GS-30	GS-31	GS-32	GS-33	GS-34
Sampling Location	825572E 808102N	825757E 808027N	825943E 807951N	826128E 807876N	826313E 807800N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	12/06/2020	12/06/2020	12/06/2020	12/06/2020	12/06/2020
Sampling Time	10:45	10:30	10:15	10:00	9:40
Tributyltin, µg/L	<0.010	<0.010	<0.010	<0.010	<0.010

Remarks: 1) < = less than
2) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33638D
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24

Test Results:

Sample No.	33638-6	33638-7	33638-8	33638-9	33638-10
Sample ID	GS-37	GS-38	GS-39	GS-40	GS-41
Sampling Location	825497E 807917N	825682E 807841N	825867E 807766N	826052E 807690N	826238E 807615N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	12/06/2020	12/06/2020	12/06/2020	12/06/2020	12/06/2020
Sampling Time	11:00	11:10	11:25	11:38	11:55
Tributyltin, μg/L	<0.010	<0.010	<0.010	<0.010	<0.010

Sample No.	33638-11	33638-12	33638-13	33638-14	33633-15
Sample ID	GS-42	GS-43	GS-44	GS-51	GS-52
Sampling Location	826423E 807539N	826608E 807464N	826723E 807364N	826533E 807279N	826718E 807203N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	12/06/2020	12/06/2020	12/06/2020	12/06/2020	12/06/2020
Sampling Time	12:10	12:20	12:35	13:10	12:48
Tributyltin, μg/L	<0.010	<0.010	<0.010	<0.010	<0.010

Remarks: 1) < = less than

2) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

**********END OF REPORT**********

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HOKLAS 083
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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33652
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-30
Page:	1 of 3

Sample Description : 14 samples as received by customer said to be sediment
Laboratory No. : 33652
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-17

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Cadmium (Cd)	In-house method SOP053 (ICP-AES) & In-house method SOP093 (digestion) (ICP-MS)	0.05 mg/kg
2	Chromium (Cr)		0.1 mg/kg
3	Copper (Cu)		0.2 mg/kg
4	Mercury (Hg)		0.05 mg/kg
5	Nickel (Ni)		0.2 mg/kg
6	Lead (Pb)		0.1 mg/kg
7	Silver (Ag)		0.1 mg/kg
8	Zinc (Zn)		0.2 mg/kg
9	Arsenic (As)		0.1 mg/kg

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33652
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-30

Test Results:

Sample No.	33652-1	33652-2	33652-3	33652-4	33652-5
Sample ID	GS-45	GS-46	GS-47	GS-48	GS-49
Sampling Location	825421E 807732N	825607E 807656N	825792E 807581N	825977E 807505N	826162E 807430N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	17/06/2020	17/06/2020	17/06/2020	17/06/2020	17/06/2020
Sampling Time	12:50	12:40	12:30	12:20	12:10
Cadmium, mg/kg	0.06	0.06	<0.05	<0.05	<0.05
Chromium, mg/kg	24	24	21	24	14
Copper, mg/kg	22	21	20	20	11
Mercury, mg/kg	0.10	0.13	0.08	0.08	0.05
Nickel, mg/kg	16	15	14	17	9
Lead, mg/kg	30	28	26	29	20
Silver, mg/kg	0.14	0.15	0.13	0.12	0.06
Zinc, mg/kg	79	72	69	78	50
Arsenic, mg/kg	7.1	6.1	5.3	7.1	4.2

Sample No.	33652-6	33652-7	33652-8	33652-9	33652-10
Sample ID	GS-50	GS-53	GS-54	GS-55	GS-56
Sampling Location	826347E 807354N	825346E 807546N	825531E 807471N	825716E 807395N	825901E 807320N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	17/06/2020	17/06/2020	17/06/2020	17/06/2020	17/06/2020
Sampling Time	12:00	13:05	13:20	13:30	13:40
Cadmium, mg/kg	<0.05	<0.05	<0.05	<0.05	0.06
Chromium, mg/kg	19	22	23	20	25
Copper, mg/kg	16	17	22	16	22
Mercury, mg/kg	0.05	0.08	0.10	0.07	0.10
Nickel, mg/kg	13	15	15	13	17
Lead, mg/kg	23	25	29	25	29
Silver, mg/kg	0.09	0.10	0.14	0.10	0.13
Zinc, mg/kg	64	70	76	67	79
Arsenic, mg/kg	5.4	7.7	7.5	5.5	6.6

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1716, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33652
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-30

Test Results:

Sample No.	33652-11	33652-12	33652-13	33652-14
Sample ID	GS-57	GS-58	GS-59	GS-60
Sampling Location	826087E 807245N	826272E 807169N	826457E 807094N	826642E 807018N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	17/06/2020	17/06/2020	17/06/2020	17/06/2020
Sampling Time	13:50	14:00	14:10	14:20
Cadmium, mg/kg	0.09	<0.05	<0.05	<0.05
Chromium, mg/kg	21	23	22	24
Copper, mg/kg	18	20	18	18
Mercury, mg/kg	0.10	0.14	0.07	0.07
Nickel, mg/kg	14	15	15	16
Lead, mg/kg	25	27	26	27
Silver, mg/kg	0.11	0.10	0.11	0.11
Zinc, mg/kg	69	71	71	73
Arsenic, mg/kg	7.6	6.3	7.8	6.2

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1716, Technology Park, 18 On Lai Street, Shatin

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HKAS HOKLAS 083 TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33652A
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-30
Page:	1 of 3

Sample Description : 14 samples as received by customer said to be sediment
Laboratory No. : 33652A
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-17

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Acenaphtene	In-house method SOP090 (GC/MSD)	8 µg/kg
2	Acenaphtylene		8 µg/kg
3	Anthracene		8 µg/kg
4	Fluorene		8 µg/kg
5	Naphthalene		10 µg/kg
6	Phenanthrene		8 µg/kg

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HKAS HOKLAS 083 TEST

TEST REPORT

Report No.:	33652A
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-30

Test Results:

Sample No.	33652-1	33652-2	33652-3	33652-4	33652-5
Sample ID	GS-45	GS-46	GS-47	GS-48	GS-49
Sampling Location	825421E 807732N	825607E 807656N	825792E 807581N	825977E 807505N	826162E 807430N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	17/06/2020	17/06/2020	17/06/2020	17/06/2020	17/06/2020
Sampling Time	12:50	12:40	12:30	12:20	12:10
Acenaphtene, µg/kg	<8	<8	<8	<8	<8
Acenaphtylene, µg/kg	<8	<8	<8	<8	<8
Anthracene, µg/kg	<8	<8	<8	<8	<8
Fluorene, µg/kg	<8	<8	<8	<8	<8
Naphthalene, µg/kg	<10	<10	<10	<10	<10
Phenanthrene, µg/kg	<8	<8	<8	<8	<8

Sample No.	33652-6	33652-7	33652-8	33652-9	33652-10
Sample ID	GS-50	GS-53	GS-54	GS-55	GS-56
Sampling Location	826347E 807354N	825346E 807546N	825531E 807471N	825716E 807395N	825901E 807320N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	17/06/2020	17/06/2020	17/06/2020	17/06/2020	17/06/2020
Sampling Time	12:00	13:05	13:20	13:30	13:40
Acenaphtene, µg/kg	<8	<8	<8	<8	<8
Acenaphtylene, µg/kg	<8	<8	<8	<8	<8
Anthracene, µg/kg	<8	<8	<8	<8	<8
Fluorene, µg/kg	<8	<8	<8	<8	<8
Naphthalene, µg/kg	<10	<10	<10	<10	<10
Phenanthrene, µg/kg	<8	<8	<8	<8	<8

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33652A
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-30
Page:	3 of 3

Test Results:

Sample No.	33652-11	33652-12	33652-13	33652-14
Sample ID	GS-57	GS-58	GS-59	GS-60
Sampling Location	826087E 807245N	826272E 807169N	826457E 807094N	826642E 807018N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	17/06/2020	17/06/2020	17/06/2020	17/06/2020
Sampling Time	13:50	14:00	14:10	14:20
Acenaphtene, µg/kg	<8	<8	<8	<8
Acenaphtylene, µg/kg	<8	<8	<8	<8
Anthracene, µg/kg	<8	<8	<8	<8
Fluorene, µg/kg	<8	<8	<8	<8
Naphthalene, µg/kg	<10	<10	<10	<10
Phenanthrene, µg/kg	14	10	14	10

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33652B
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-30
Page:	1 of 4

Sample Description : 14 samples as received by customer said to be sediment
Laboratory No. : 33652B
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-17

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Benzo(a)anthracene	In-house method SOP090 (GC/MSD)	10 µg/kg
2	Benzo(a)pyrene		10 µg/kg
3	Benzo(b)fluoranthene		10 µg/kg
4	Benzo(k)fluoranthene		10 µg/kg
5	Benzo(g,h,i)perylene		10 µg/kg
6	Chrysene		10 µg/kg
7	Dibenzo(a,h)anthracene		10 µg/kg
8	Fluoranthene		10 µg/kg
9	Indeno(1,2,3-cd)pyrene		10 µg/kg
10	Pyrene		10 µg/kg

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33652B
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-30

Test Results:

Sample No.	33652-1	33652-2	33652-3	33652-4	33652-5
Sample ID	GS-45	GS-46	GS-47	GS-48	GS-49
Sampling Location	825421E 807732N	825607E 807656N	825792E 807581N	825977E 807505N	826162E 807430N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	17/06/2020	17/06/2020	17/06/2020	17/06/2020	17/06/2020
Sampling Time	12:50	12:40	12:30	12:20	12:10
Benzo(a)anthracene, μg/kg	<10	<10	<10	<10	<10
Benzo(a)pyrene, μg/kg	<10	<10	<10	<10	<10
Benzo(b)fluoranthene, μg/kg	<10	<10	<10	<10	<10
Benzo(k)fluoranthene, μg/kg	<10	<10	<10	<10	<10
Benzo(g,h,i)perylene, μg/kg	12	<10	<10	<10	<10
Chrysene, μg/kg	<10	<10	<10	<10	<10
Dibenzo(a,h)anthracene, μg/kg	42	<10	<10	23	21
Fluoranthene, μg/kg	<10	<10	<10	<10	<10
Indeno(1,2,3-cd)pyrene, μg/kg	20	11	10	12	10
Pyrene, μg/kg	<10	<10	<10	<10	<10

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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TEST

TEST REPORT

Report No.:	33652B
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-30

Test Results:

Sample No.	33652-6	33652-7	33652-8	33652-9	33652-10
Sample ID	GS-50	GS-53	GS-54	GS-55	GS-56
Sampling Location	826347E 807354N	825346E 807546N	825531E 807471N	825716E 807395N	825901E 807320N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	17/06/2020	17/06/2020	17/06/2020	17/06/2020	17/06/2020
Sampling Time	12:00	13:05	13:20	13:30	13:40
Benzo(a)anthracene, µg/kg	<10	<10	<10	<10	<10
Benzo(a)pyrene, µg/kg	<10	<10	11	<10	<10
Benzo(b)fluoranthene, µg/kg	<10	<10	<10	<10	<10
Benzo(k)fluoranthene, µg/kg	<10	<10	<10	<10	<10
Benzo(g,h,i)perylene, µg/kg	<10	<10	10	<10	10
Chrysene, µg/kg	<10	<10	<10	<10	<10
Dibenzo(a,h)anthracene, µg/kg	24	24	<10	<10	<10
Fluoranthene, µg/kg	<10	<10	<10	<10	<10
Indeno(1,2,3-cd)pyrene, µg/kg	13	12	14	10	12
Pyrene, µg/kg	<10	<10	<10	<10	<10

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33652B
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-30
Page:	4 of 4

Test Results:

Sample No.	33652-11	33652-12	33652-13	33652-14
Sample ID	GS-57	GS-58	GS-59	GS-60
Sampling Location	826087E 807245N	826272E 807169N	826457E 807094N	826642E 807018N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	17/06/2020	17/06/2020	17/06/2020	17/06/2020
Sampling Time	13:50	14:00	14:10	14:20
Benzo(a)anthracene, μg/kg	<10	<10	<10	<10
Benzo(a)pyrene, μg/kg	<10	<10	<10	<10
Benzo(b)fluoranthene, μg/kg	<10	<10	<10	<10
Benzo(k)fluoranthene, μg/kg	<10	<10	<10	<10
Benzo(g,h,i)perylene, μg/kg	<10	<10	<10	<10
Chrysene, μg/kg	<10	<10	<10	<10
Dibenzo(a,h)anthracene, μg/kg	<10	<10	<10	<10
Fluoranthene, μg/kg	<10	<10	<10	<10
Indeno(1,2,3-cd)pyrene, μg/kg	10	12	10	12
Pyrene, μg/kg	<10	<10	<10	<10

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HKAS HOKLAS 083 TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33652C
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-24
Page:	1 of 4

Sample Description : 14 samples as received by customer said to be sediment
Laboratory No. : 33652C
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-17

Test Requested & Methodology:

Item	Parameters		Ref. Method	Limit of Reporting
1	2,4'-Dichlorobiphenyl	PCB8	In-house method SOP088 (GC/MSD)	1 µg/kg
2	2,2',5-Trichlorobiphenyl	PCB18		1 µg/kg
3	2,4,4'-Trichlorobiphenyl	PCB28		1 µg/kg
4	2,2', 3,5'-Tetrachlorobiphenyl	PCB44		1 µg/kg
5	2,2', 5,5'-Tetrachlorobiphenyl	PCB52		1 µg/kg
6	2,3', 4,4'-Tetrachlorobiphenyl	PCB66		1 µg/kg
7	3,3', 4,4'-Tetrachlorobiphenyl	PCB 77		1 µg/kg
8	2,2', 4,5,5'-Pentachlorobiphenyl	PCB101		1 µg/kg
9	2,3,3', 4,4'-Pentachlorobiphenyl	PCB105		1 µg/kg
10	2,3', 4,4',5-Pentachlorobiphenyl	PCB118		1 µg/kg
11	3,3', 4,4',5-Pentachlorobiphenyl	PCB126		1 µg/kg
12	2,2', 3,3',4,4'-Hexachlorobiphenyl	PCB128		1 µg/kg
13	2,2', 3,4,4',5'-Hexachlorobiphenyl	PCB138		1 µg/kg
14	2,2', 4,4',5,5'-Hexachlorobiphenyl	PCB153		1 µg/kg
15	3,3', 4,4',5,5'-Hexachlorobiphenyl	PCB169		1 µg/kg
16	2,2', 3,3',4,4',5-Heptachlorobiphenyl	PCB170		1 µg/kg
17	2,2', 3,4,4',5,5'-Heptachlorobiphenyl	PCB180		1 µg/kg
18	2,2', 3,4',5,5',6-Heptachlorobiphenyl	PCB187		1 µg/kg

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HKAS HOKLAS 083 TEST

TEST REPORT

Report No.:	33652C
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-30

Test Results:

Sample No.	33652-1	33652-2	33652-3	33652-4	33652-5
Sample ID	GS-45	GS-46	GS-47	GS-48	GS-49
Sampling Location	825421E 807732N	825607E 807656N	825792E 807581N	825977E 807505N	826162E 807430N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	17/06/2020	17/06/2020	17/06/2020	17/06/2020	17/06/2020
Sampling Time	12:50	12:40	12:30	12:20	12:10
2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33652C
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-30

Test Results:

Sample No.	33652-6	33652-7	33652-8	33652-9	33652-10
Sample ID	GS-50	GS-53	GS-54	GS-55	GS-56
Sampling Location	826347E 807354N	825346E 807546N	825531E 807471N	825716E 807395N	825901E 807320N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	17/06/2020	17/06/2020	17/06/2020	17/06/2020	17/06/2020
Sampling Time	12:00	13:05	13:20	13:30	13:40
2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HKLAS 083
TEST

TEST REPORT

Report No.:	33652C
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-30

Test Results:

Sample No.	33652-11	33652-12	33652-13	33652-14
Sample ID	GS-57	GS-58	GS-59	GS-60
Sampling Location	826087E 807245N	826272E 807169N	826457E 807094N	826642E 807018N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	17/06/2020	17/06/2020	17/06/2020	17/06/2020
Sampling Time	13:50	14:00	14:10	14:20
2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HKLAS 083
TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	33652D
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-30
Page:	1 of 2

ATTN: **Mr. N.P. Shum**

Sample Description : 14 samples as received by customer said to be sediment and were prepared for 14 interstitial water samples
Laboratory No. : 33652D
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-17

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Tributyltin (TBT)	In-house method SOP065 (GC/FPD)	0.010 µg/L

Test Results:

Sample No.	33652-1	33652-2	33652-3	33652-4	33652-5
Sample ID	GS-45	GS-46	GS-47	GS-48	GS-49
Sampling Location	825421E 807732N	825607E 807656N	825792E 807581N	825977E 807505N	826162E 807430N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	17/06/2020	17/06/2020	17/06/2020	17/06/2020	17/06/2020
Sampling Time	12:50	12:40	12:30	12:20	12:10
Tributyltin, µg/L	<0.010	<0.010	<0.010	<0.010	<0.010

Remarks: 1) < = less than
2) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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TEST REPORT

Report No.:	33652D
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-30

Test Results:

Sample No.	33652-6	33652-7	33652-8	33652-9	33652-10
Sample ID	GS-50	GS-53	GS-54	GS-55	GS-56
Sampling Location	826347E 807354N	825346E 807546N	825531E 807471N	825716E 807395N	825901E 807320N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	17/06/2020	17/06/2020	17/06/2020	17/06/2020	17/06/2020
Sampling Time	12:00	13:05	13:20	13:30	13:40
Tributyltin, µg/L	<0.010	<0.010	<0.010	<0.010	<0.010

Sample No.	33652-11	33652-12	33652-13	33652-14
Sample ID	GS-57	GS-58	GS-59	GS-60
Sampling Location	826087E 807245N	826272E 807169N	826457E 807094N	826642E 807018N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	17/06/2020	17/06/2020	17/06/2020	17/06/2020
Sampling Time	13:50	14:00	14:10	14:20
Tributyltin, µg/L	<0.010	<0.010	<0.010	<0.010

Remarks: 1) < = less than

2) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33657
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-30
Page:	1 of 3

Sample Description : 14 samples as received by customer said to be sediment
Laboratory No. : 33657
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-18

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Cadmium (Cd)	In-house method SOP053 (ICP-AES) & In-house method SOP093 (digestion) (ICP-MS)	0.05 mg/kg
2	Chromium (Cr)		0.1 mg/kg
3	Copper (Cu)		0.2 mg/kg
4	Mercury (Hg)		0.05 mg/kg
5	Nickel (Ni)		0.2 mg/kg
6	Lead (Pb)		0.1 mg/kg
7	Silver (Ag)		0.1 mg/kg
8	Zinc (Zn)		0.2 mg/kg
9	Arsenic (As)		0.1 mg/kg

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33657
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-30

Test Results:

Sample No.	33657-1	33657-2	33657-3	33657-4	33657-5
Sample ID	GS-61	GS-62	GS-63	GS-64	GS-65
Sampling Location	826766E 806928N	825270E 807361N	825456E 807286N	825641E 807210N	825826E 807135N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	18/06/2020	18/06/2020	18/06/2020	18/06/2020	18/06/2020
Sampling Time	9:50	12:05	11:50	11:35	11:20
Cadmium, mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chromium, mg/kg	21	18	24	27	19
Copper, mg/kg	16	16	22	19	13
Mercury, mg/kg	0.10	0.10	0.10	0.23	0.33
Nickel, mg/kg	15	12	16	18	11
Lead, mg/kg	25	25	31	32	18
Silver, mg/kg	0.84	0.12	0.15	0.18	0.08
Zinc, mg/kg	65	60	77	82	49
Arsenic, mg/kg	7.8	6.2	8.7	9.2	5.2

Sample No.	33657-6	33657-7	33657-8	33657-9	33657-10
Sample ID	GS-66	GS-67	GS-68	GS-69	GS-70
Sampling Location	826011E 807059N	826196E 806984N	826382E 806908N	826567E 806833N	826752E 806757N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	18/06/2020	18/06/2020	18/06/2020	18/06/2020	18/06/2020
Sampling Time	11:05	10:50	10:35	10:20	10:05
Cadmium, mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chromium, mg/kg	20	21	26	23	23
Copper, mg/kg	17	17	21	18	17
Mercury, mg/kg	0.23	0.05	0.08	0.05	<0.05
Nickel, mg/kg	14	14	18	15	16
Lead, mg/kg	24	24	30	26	24
Silver, mg/kg	0.12	0.14	0.20	0.11	0.09
Zinc, mg/kg	65	66	81	71	67
Arsenic, mg/kg	7.5	7.5	8.1	8.3	8.1

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1716, Technology Park, 18 On Lai Street, Shatin

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TEST

TEST REPORT

Report No.:	33657
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-30

Test Results:

Sample No.	33657-11	33657-12	33657-13	33657-14
Sample ID	GS-71	GS-72	GS-73	GS-74
Sampling Location	825195E 807176N	825380E 807100N	825565E 807025N	825751E 806950N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	18/06/2020	18/06/2020	18/06/2020	18/06/2020
Sampling Time	12:20	12:35	12:50	13:05
Cadmium, mg/kg	0.05	0.06	<0.05	0.15
Chromium, mg/kg	24	23	25	23
Copper, mg/kg	22	21	23	20
Mercury, mg/kg	0.06	0.08	0.10	0.15
Nickel, mg/kg	16	15	17	16
Lead, mg/kg	30	28	31	30
Silver, mg/kg	0.14	0.13	0.13	0.14
Zinc, mg/kg	77	73	76	83
Arsenic, mg/kg	9.1	8.4	7.9	8.3

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1716, Technology Park, 18 On Lai Street, Shatin

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TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33657A
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-30
Page:	1 of 3

Sample Description : 14 samples as received by customer said to be sediment
Laboratory No. : 33657A
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-18

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Acenaphtene	In-house method SOP090 (GC/MSD)	8 µg/kg
2	Acenaphtylene		8 µg/kg
3	Anthracene		8 µg/kg
4	Fluorene		8 µg/kg
5	Naphthalene		10 µg/kg
6	Phenanthrene		8 µg/kg

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HKAS HOKLAS 083 TEST

TEST REPORT

Report No.:	33657A
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-30

Test Results:

Sample No.	33657-1	33657-2	33657-3	33657-4	33657-5
Sample ID	GS-61	GS-62	GS-63	GS-64	GS-65
Sampling Location	826766E 806928N	825270E 807361N	825456E 807286N	825641E 807210N	825826E 807135N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	18/06/2020	18/06/2020	18/06/2020	18/06/2020	18/06/2020
Sampling Time	9:50	12:05	11:50	11:35	11:20
Acenaphtene, µg/kg	<8	<8	<8	<8	<8
Acenaphtylene, µg/kg	<8	<8	<8	<8	<8
Anthracene, µg/kg	<8	<8	<8	<8	<8
Fluorene, µg/kg	<8	<8	<8	<8	<8
Naphthalene, µg/kg	<10	<10	<10	<10	<10
Phenanthrene, µg/kg	<8	<8	<8	<8	<8

Sample No.	33657-6	33657-7	33657-8	33657-9	33657-10
Sample ID	GS-66	GS-67	GS-68	GS-69	GS-70
Sampling Location	826011E 807059N	826196E 806984N	826382E 806908N	826567E 806833N	826752E 806757N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	18/06/2020	18/06/2020	18/06/2020	18/06/2020	18/06/2020
Sampling Time	11:05	10:50	10:35	10:20	10:05
Acenaphtene, µg/kg	<8	<8	<8	<8	<8
Acenaphtylene, µg/kg	<8	<8	<8	<8	<8
Anthracene, µg/kg	<8	<8	<8	<8	<8
Fluorene, µg/kg	<8	<8	<8	<8	<8
Naphthalene, µg/kg	<10	<10	<10	<10	<10
Phenanthrene, µg/kg	<8	<8	<8	<8	<8

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33657A
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-30
Page:	3 of 3

Test Results:

Sample No.	33657-11	33657-12	33657-13	33657-14
Sample ID	GS-71	GS-72	GS-73	GS-74
Sampling Location	825195E 807176N	825380E 807100N	825565E 807025N	825751E 806950N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	18/06/2020	18/06/2020	18/06/2020	18/06/2020
Sampling Time	12:20	12:35	12:50	13:05
Acenaphtene, µg/kg	<8	<8	<8	<8
Acenaphtylene, µg/kg	<8	<8	<8	<8
Anthracene, µg/kg	<8	<8	<8	<8
Fluorene, µg/kg	<8	<8	<8	<8
Naphthalene, µg/kg	<10	<10	<10	<10
Phenanthrene, µg/kg	<8	<8	<8	<8

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

**********END OF REPORT**********

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HKAS HOKLAS 083 TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33657B
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-30
Page:	1 of 4

Sample Description : 14 samples as received by customer said to be sediment
Laboratory No. : 33657B
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-18

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Benzo(a)anthracene	In-house method SOP090 (GC/MSD)	10 µg/kg
2	Benzo(a)pyrene		10 µg/kg
3	Benzo(b)fluoranthene		10 µg/kg
4	Benzo(k)fluoranthene		10 µg/kg
5	Benzo(g,h,i)perylene		10 µg/kg
6	Chrysene		10 µg/kg
7	Dibenzo(a,h)anthracene		10 µg/kg
8	Fluoranthene		10 µg/kg
9	Indeno(1,2,3-cd)pyrene		10 µg/kg
10	Pyrene		10 µg/kg

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PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33657B
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-30

Test Results:

Sample No.	33657-1	33657-2	33657-3	33657-4	33657-5
Sample ID	GS-61	GS-62	GS-63	GS-64	GS-65
Sampling Location	826766E 806928N	825270E 807361N	825456E 807286N	825641E 807210N	825826E 807135N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	18/06/2020	18/06/2020	18/06/2020	18/06/2020	18/06/2020
Sampling Time	9:50	12:05	11:50	11:35	11:20
Benzo(a)anthracene, µg/kg	<10	<10	<10	<10	<10
Benzo(a)pyrene, µg/kg	<10	<10	<10	<10	<10
Benzo(b)fluoranthene, µg/kg	<10	<10	<10	<10	<10
Benzo(k)fluoranthene, µg/kg	<10	<10	<10	<10	<10
Benzo(g,h,i)perylene, µg/kg	<10	<10	<10	<10	<10
Chrysene, µg/kg	<10	<10	<10	<10	<10
Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10	<10
Fluoranthene, µg/kg	<10	<10	<10	<10	<10
Indeno(1,2,3-cd)pyrene, µg/kg	<10	<10	<10	<10	<10
Pyrene, µg/kg	<10	<10	<10	<10	<10

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33657B
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-30
Page:	3 of 4

Test Results:

Sample No.	33657-6	33657-7	33657-8	33657-9	33657-10
Sample ID	GS-66	GS-67	GS-68	GS-69	GS-70
Sampling Location	826011E 807059N	826196E 806984N	826382E 806908N	826567E 806833N	826752E 806757N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	18/06/2020	18/06/2020	18/06/2020	18/06/2020	18/06/2020
Sampling Time	11:05	10:50	10:35	10:20	10:05
Benzo(a)anthracene, µg/kg	<10	<10	<10	<10	<10
Benzo(a)pyrene, µg/kg	<10	<10	<10	<10	<10
Benzo(b)fluoranthene, µg/kg	<10	<10	<10	<10	<10
Benzo(k)fluoranthene, µg/kg	<10	<10	<10	<10	<10
Benzo(g,h,i)perylene, µg/kg	<10	<10	<10	<10	<10
Chrysene, µg/kg	<10	<10	<10	<10	<10
Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10	<10
Fluoranthene, µg/kg	<10	<10	<10	<10	<10
Indeno(1,2,3-cd)pyrene, µg/kg	<10	<10	<10	<10	<10
Pyrene, µg/kg	<10	<10	<10	<10	<10

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HKAS HOKLAS 083 TEST

TEST REPORT

Report No.:	33657B
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-30
Page:	4 of 4

Test Results:

Sample No.	33657-11	33657-12	33657-13	33657-14
Sample ID	GS-71	GS-72	GS-73	GS-74
Sampling Location	825195E 807176N	825380E 807100N	825565E 807025N	825751E 806950N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	18/06/2020	18/06/2020	18/06/2020	18/06/2020
Sampling Time	12:20	12:35	12:50	13:05
Benzo(a)anthracene, µg/kg	<10	<10	<10	<10
Benzo(a)pyrene, µg/kg	<10	<10	<10	<10
Benzo(b)fluoranthene, µg/kg	<10	<10	<10	<10
Benzo(k)fluoranthene, µg/kg	<10	<10	<10	<10
Benzo(g,h,i)perylene, µg/kg	<10	<10	<10	<10
Chrysene, µg/kg	<10	<10	<10	<10
Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10
Fluoranthene, µg/kg	<10	<10	<10	<10
Indeno(1,2,3-cd)pyrene, µg/kg	<10	<10	<10	<10
Pyrene, µg/kg	<10	<10	<10	<10

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	33657C
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-24
Page:	1 of 4

ATTN: **Mr. N.P. Shum**

Sample Description : 14 samples as received by customer said to be sediment
Laboratory No. : 33657C
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-18

Test Requested & Methodology:

Item	Parameters		Ref. Method	Limit of Reporting
1	2,4'-Dichlorobiphenyl	PCB8	In-house method SOP088 (GC/MSD)	1 µg/kg
2	2,2',5-Trichlorobiphenyl	PCB18		1 µg/kg
3	2,4,4'-Trichlorobiphenyl	PCB28		1 µg/kg
4	2,2', 3,5'-Tetrachlorobiphenyl	PCB44		1 µg/kg
5	2,2', 5,5'-Tetrachlorobiphenyl	PCB52		1 µg/kg
6	2,3', 4,4'-Tetrachlorobiphenyl	PCB66		1 µg/kg
7	3,3', 4,4'-Tetrachlorobiphenyl	PCB 77		1 µg/kg
8	2,2', 4,5,5'-Pentachlorobiphenyl	PCB101		1 µg/kg
9	2,3,3', 4,4'-Pentachlorobiphenyl	PCB105		1 µg/kg
10	2,3', 4,4',5-Pentachlorobiphenyl	PCB118		1 µg/kg
11	3,3', 4,4',5-Pentachlorobiphenyl	PCB126		1 µg/kg
12	2,2', 3,3',4,4'-Hexachlorobiphenyl	PCB128		1 µg/kg
13	2,2', 3,4,4',5'-Hexachlorobiphenyl	PCB138		1 µg/kg
14	2,2', 4,4',5,5'-Hexachlorobiphenyl	PCB153		1 µg/kg
15	3,3', 4,4',5,5'-Hexachlorobiphenyl	PCB169		1 µg/kg
16	2,2', 3,3',4,4',5-Heptachlorobiphenyl	PCB170		1 µg/kg
17	2,2', 3,4,4',5,5'-Heptachlorobiphenyl	PCB180		1 µg/kg
18	2,2', 3,4',5,5',6-Heptachlorobiphenyl	PCB187		1 µg/kg

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33657C
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-30

Test Results:

Sample No.	33657-1	33657-2	33657-3	33657-4	33657-5
Sample ID	GS-61	GS-62	GS-63	GS-64	GS-65
Sampling Location	826766E 806928N	825270E 807361N	825456E 807286N	825641E 807210N	825826E 807135N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	18/06/2020	18/06/2020	18/06/2020	18/06/2020	18/06/2020
Sampling Time	9:50	12:05	11:50	11:35	11:20
2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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TEST REPORT

Report No.:	33657C
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-30

Test Results:

Sample No.	33657-6	33657-7	33657-8	33657-9	33657-10
Sample ID	GS-66	GS-67	GS-68	GS-69	GS-70
Sampling Location	826011E 807059N	826196E 806984N	826382E 806908N	826567E 806833N	826752E 806757N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	18/06/2020	18/06/2020	18/06/2020	18/06/2020	18/06/2020
Sampling Time	11:05	10:50	10:35	10:20	10:05
2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HKLAS 083
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TEST REPORT

Report No.:	33657C
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-30

Test Results:

Sample No.	33657-11	33657-12	33657-13	33657-14
Sample ID	GS-71	GS-72	GS-73	GS-74
Sampling Location	825195E 807176N	825380E 807100N	825565E 807025N	825751E 806950N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	18/06/2020	18/06/2020	18/06/2020	18/06/2020
Sampling Time	12:20	12:35	12:50	13:05
2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1
2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33657D
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-30
Page:	1 of 2

Sample Description : 14 samples as received by customer said to be sediment and were prepared for 14 interstitial water samples
Laboratory No. : 33657D
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-18

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Tributyltin (TBT)	In-house method SOP065 (GC/FPD)	0.010 µg/L

Test Results:

Sample No.	33657-1	33657-2	33657-3	33657-4	33657-5
Sample ID	GS-61	GS-62	GS-63	GS-64	GS-65
Sampling Location	826766E 806928N	825270E 807361N	825456E 807286N	825641E 807210N	825826E 807135N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	18/06/2020	18/06/2020	18/06/2020	18/06/2020	18/06/2020
Sampling Time	9:50	12:05	11:50	11:35	11:20
Tributyltin, µg/L	<0.010	<0.010	<0.010	<0.010	<0.010

Remarks: 1) < = less than
2) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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TEST REPORT

Report No.:	33657D
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-30

Test Results:

Sample No.	33657-6	33657-7	33657-8	33657-9	33657-10
Sample ID	GS-66	GS-67	GS-68	GS-69	GS-70
Sampling Location	826011E 807059N	826196E 806984N	826382E 806908N	826567E 806833N	826752E 806757N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	18/06/2020	18/06/2020	18/06/2020	18/06/2020	18/06/2020
Sampling Time	11:05	10:50	10:35	10:20	10:05
Tributyltin, µg/L	<0.010	<0.010	<0.010	<0.010	<0.010

Sample No.	33657-11	33657-12	33657-13	33657-14
Sample ID	GS-71	GS-72	GS-73	GS-74
Sampling Location	825195E 807176N	825380E 807100N	825565E 807025N	825751E 806950N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	18/06/2020	18/06/2020	18/06/2020	18/06/2020
Sampling Time	12:20	12:35	12:50	13:05
Tributyltin, µg/L	<0.010	<0.010	<0.010	<0.010

Remarks: 1) < = less than

2) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HKAS HOKLAS 083 TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33663
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30
Page:	1 of 3

Sample Description : 16 samples as received by customer said to be sediment
Laboratory No. : 33663
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-19

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Cadmium (Cd)	In-house method SOP053 (ICP-AES) & In-house method SOP093 (digestion) (ICP-MS)	0.05 mg/kg
2	Chromium (Cr)		0.1 mg/kg
3	Copper (Cu)		0.2 mg/kg
4	Mercury (Hg)		0.05 mg/kg
5	Nickel (Ni)		0.2 mg/kg
6	Lead (Pb)		0.1 mg/kg
7	Silver (Ag)		0.1 mg/kg
8	Zinc (Zn)		0.2 mg/kg
9	Arsenic (As)		0.1 mg/kg

****

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For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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TEST REPORT

Report No.:	33663
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30

Test Results:

Sample No.	33663-1	33663-2	33663-3	33663-4	33663-5
Sample ID	GS-75	GS-76	GS-77	GS-78	GS-79
Sampling Location	825936E 806874N	826121E 806799N	826306E 806723N	826491E 806648N	826677E 806572N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	19/06/2020	19/06/2020	19/06/2020	19/06/2020	19/06/2020
Sampling Time	10:00	10:10	10:20	10:30	10:40
Cadmium, mg/kg	0.06	<0.05	<0.05	<0.05	<0.05
Chromium, mg/kg	21	24	23	22	23
Copper, mg/kg	16	20	18	16	17
Mercury, mg/kg	0.09	0.07	0.10	<0.05	0.05
Nickel, mg/kg	14	16	16	15	16
Lead, mg/kg	24	27	26	23	23
Silver, mg/kg	0.10	0.12	0.13	0.09	0.09
Zinc, mg/kg	64	73	73	65	67
Arsenic, mg/kg	7.0	7.5	7.0	7.6	7.6

Sample No.	33663-6	33663-7	33663-8	33663-9	33663-10
Sample ID	GS-80	GS-81	GS-82	GS-83	GS-84
Sampling Location	826862E 806497N	825119E 806991N	825305E 806915N	825490E 806840N	825675E 806764N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	19/06/2020	19/06/2020	19/06/2020	19/06/2020	19/06/2020
Sampling Time	10:50	12:30	12:20	12:10	12:00
Cadmium, mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chromium, mg/kg	23	18	19	20	24
Copper, mg/kg	16	17	16	16	19
Mercury, mg/kg	<0.05	0.11	<0.05	<0.05	0.06
Nickel, mg/kg	16	12	13	14	17
Lead, mg/kg	22	22	22	23	28
Silver, mg/kg	0.07	0.11	0.09	0.08	0.10
Zinc, mg/kg	63	61	60	63	74
Arsenic, mg/kg	7.6	6.6	6.6	6.4	8.1

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1716, Technology Park, 18 On Lai Street, Shatin

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TEST REPORT

Report No.:	33663
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30

Test Results:

Sample No.	33663-11	33663-12	33663-13	33663-14	33663-15
Sample ID	GS-85	GS-86	GS-87	GS-88	GS-89
Sampling Location	825860E 806689N	826046E 806613N	826231E 806538N	826416E 806462N	826601E 806387N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	19/06/2020	19/06/2020	19/06/2020	19/06/2020	19/06/2020
Sampling Time	11:50	11:40	11:30	11:20	11:10
Cadmium, mg/kg	<0.05	<0.05	<0.05	<0.05	0.06
Chromium, mg/kg	22	22	23	22	24
Copper, mg/kg	17	18	17	16	17
Mercury, mg/kg	0.41	<0.05	0.05	<0.05	0.08
Nickel, mg/kg	15	16	16	16	17
Lead, mg/kg	24	25	25	24	25
Silver, mg/kg	0.21	0.09	0.20	0.07	0.09
Zinc, mg/kg	67	68	69	66	70
Arsenic, mg/kg	7.4	8.3	6.8	7.5	8.3

Sample No.	33663-16
Sample ID	GS-90
Sampling Location	826786E 806312N
Sampling Depth	0.0-0.2m
Sampling Date	19/06/2020
Sampling Time	11:00
Cadmium, mg/kg	<0.05
Chromium, mg/kg	26
Copper, mg/kg	17
Mercury, mg/kg	0.20
Nickel, mg/kg	19
Lead, mg/kg	26
Silver, mg/kg	0.08
Zinc, mg/kg	76
Arsenic, mg/kg	8.4

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1716, Technology Park, 18 On Lai Street, Shatin

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HKAS HOKLAS 083 TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33663A
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30
Page:	1 of 3

Sample Description : 16 samples as received by customer said to be sediment
Laboratory No. : 33663A
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-19

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Acenaphtene	In-house method SOP090 (GC/MSD)	8 µg/kg
2	Acenaphtylene		8 µg/kg
3	Anthracene		8 µg/kg
4	Fluorene		8 µg/kg
5	Naphthalene		10 µg/kg
6	Phenanthrene		8 µg/kg

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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TEST REPORT

Report No.:	33663A
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30
Page:	2 of 3

Test Results:

Sample No.	33663-1	33663-2	33663-3	33663-4	33663-5
Sample ID	GS-75	GS-76	GS-77	GS-78	GS-79
Sampling Location	825936E 806874N	826121E 806799N	826306E 806723N	826491E 806648N	826677E 806572N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	19/06/2020	19/06/2020	19/06/2020	19/06/2020	19/06/2020
Sampling Time	10:00	10:10	10:20	10:30	10:40
Acenaphtene, µg/kg	<8	<8	<8	<8	<8
Acenaphtylene, µg/kg	<8	<8	<8	<8	<8
Anthracene, µg/kg	<8	<8	<8	<8	<8
Fluorene, µg/kg	<8	<8	<8	<8	<8
Naphthalene, µg/kg	<10	<10	<10	<10	<10
Phenanthrene, µg/kg	<8	<8	<8	<8	<8

Sample No.	33663-6	33663-7	33663-8	33663-9	33663-10
Sample ID	GS-80	GS-81	GS-82	GS-83	GS-84
Sampling Location	826862E 806497N	825119E 806991N	825305E 806915N	825490E 806840N	825675E 806764N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	19/06/2020	19/06/2020	19/06/2020	19/06/2020	19/06/2020
Sampling Time	10:50	12:30	12:20	12:10	12:00
Acenaphtene, µg/kg	<8	76	95	18	74
Acenaphtylene, µg/kg	<8	15	16	<8	15
Anthracene, µg/kg	<8	41	52	12	42
Fluorene, µg/kg	<8	<8	<8	<8	<8
Naphthalene, µg/kg	<10	15	15	<10	16
Phenanthrene, µg/kg	<8	37	49	8	37

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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TEST REPORT

Report No.:	33663A
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30

Test Results:

Sample No.	33663-11	33663-12	33663-13	33663-14	33663-15
Sample ID	GS-85	GS-86	GS-87	GS-88	GS-89
Sampling Location	825860E 806689N	826046E 806613N	826231E 806538N	826416E 806462N	826601E 806387N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	19/06/2020	19/06/2020	19/06/2020	19/06/2020	19/06/2020
Sampling Time	11:50	11:40	11:30	11:20	11:10
Acenaphtene, µg/kg	98	17	75	94	17
Acenaphtylene, µg/kg	16	<8	17	15	<8
Anthracene, µg/kg	54	12	48	54	13
Fluorene, µg/kg	<8	<8	<8	<8	<8
Naphthalene, µg/kg	15	<10	16	20	<10
Phenanthrene, µg/kg	52	8	43	49	8

Sample No.	33663-16
Sample ID	GS-90
Sampling Location	826786E 806312N
Sampling Depth	0.0-0.2m
Sampling Date	19/06/2020
Sampling Time	11:00
Acenaphtene, µg/kg	74
Acenaphtylene, µg/kg	16
Anthracene, µg/kg	44
Fluorene, µg/kg	<8
Naphthalene, µg/kg	17
Phenanthrene, µg/kg	39

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33663B
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30
Page:	1 of 5

Sample Description : 16 samples as received by customer said to be sediment
Laboratory No. : 33663B
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-19

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Benzo(a)anthracene	In-house method SOP090 (GC/MSD)	10 µg/kg
2	Benzo(a)pyrene		10 µg/kg
3	Benzo(b)fluoranthene		10 µg/kg
4	Benzo(k)fluoranthene		10 µg/kg
5	Benzo(g,h,i)perylene		10 µg/kg
6	Chrysene		10 µg/kg
7	Dibenzo(a,h)anthracene		10 µg/kg
8	Fluoranthene		10 µg/kg
9	Indeno(1,2,3-cd)pyrene		10 µg/kg
10	Pyrene		10 µg/kg

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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TEST

TEST REPORT

Report No.:	33663B
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30

Test Results:

Sample No.	33663-1	33663-2	33663-3	33663-4	33663-5
Sample ID	GS-75	GS-76	GS-77	GS-78	GS-79
Sampling Location	825936E 806874N	826121E 806799N	826306E 806723N	826491E 806648N	826677E 806572N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	19/06/2020	19/06/2020	19/06/2020	19/06/2020	19/06/2020
Sampling Time	10:00	10:10	10:20	10:30	10:40
Benzo(a)anthracene, µg/kg	<10	<10	<10	<10	<10
Benzo(a)pyrene, µg/kg	<10	<10	<10	<10	<10
Benzo(b)fluoranthene, µg/kg	<10	<10	<10	<10	<10
Benzo(k)fluoranthene, µg/kg	<10	<10	12	<10	<10
Benzo(g,h,i)perylene, µg/kg	<10	10	12	11	<10
Chrysene, µg/kg	<10	<10	<10	<10	<10
Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10	<10
Fluoranthene, µg/kg	<10	<10	<10	<10	<10
Indeno(1,2,3-cd)pyrene, µg/kg	12	13	15	14	13
Pyrene, µg/kg	<10	<10	<10	<10	<10

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33663B
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30

Test Results:

Sample No.	33663-6	33663-7	33663-8	33663-9	33663-10
Sample ID	GS-80	GS-81	GS-82	GS-83	GS-84
Sampling Location	826862E 806497N	825119E 806991N	825305E 806915N	825490E 806840N	825675E 806764N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	19/06/2020	19/06/2020	19/06/2020	19/06/2020	19/06/2020
Sampling Time	10:50	12:30	12:20	12:10	12:00
Benzo(a)anthracene, µg/kg	<10	64	71	12	67
Benzo(a)pyrene, µg/kg	<10	69	322	<10	315
Benzo(b)fluoranthene, µg/kg	<10	94	95	<10	95
Benzo(k)fluoranthene, µg/kg	<10	91	92	17	92
Benzo(g,h,i)perylene, µg/kg	11	54	57	10	57
Chrysene, µg/kg	<10	65	74	12	70
Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10	<10
Fluoranthene, µg/kg	<10	115	138	25	123
Indeno(1,2,3-cd)pyrene, µg/kg	14	<10	<10	35	177
Pyrene, µg/kg	<10	166	176	33	177

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33663B
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30

Test Results:

Sample No.	33638-11	33638-12	33638-13	33638-14	33633-15
Sample ID	GS-42	GS-43	GS-44	GS-51	GS-52
Sampling Location	826423E 807539N	826608E 807464N	826723E 807364N	826533E 807279N	826718E 807203N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	12/06/2020	12/06/2020	12/06/2020	12/06/2020	12/06/2020
Sampling Time	12:10	12:20	12:35	13:10	12:48
Benzo(a)anthracene, µg/kg	75	11	74	73	13
Benzo(a)pyrene, µg/kg	<10	37	335	280	18
Benzo(b)fluoranthene, µg/kg	96	13	106	94	19
Benzo(k)fluoranthene, µg/kg	89	15	106	90	20
Benzo(g,h,i)perylene, µg/kg	<10	<10	<10	69	13
Chrysene, µg/kg	77	11	80	76	12
Dibenzo(a,h)anthracene, µg/kg	<10	<10	<10	<10	<10
Fluoranthene, µg/kg	144	23	140	141	26
Indeno(1,2,3-cd)pyrene, µg/kg	<10	28	<10	179	39
Pyrene, µg/kg	182	31	203	180	35

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HKAS HOKLAS 083 TEST

TEST REPORT

Report No.:	33663B
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30

Test Results:

Sample No.	33663-16
Sample ID	GS-90
Sampling Location	826786E 806312N
Sampling Depth	0.0-0.2m
Sampling Date	19/06/2020
Sampling Time	11:00
Benzo(a)anthracene, µg/kg	68
Benzo(a)pyrene, µg/kg	331
Benzo(b)fluoranthene, µg/kg	100
Benzo(k)fluoranthene, µg/kg	99
Benzo(g,h,i)perylene, µg/kg	22
Chrysene, µg/kg	72
Dibenzo(a,h)anthracene, µg/kg	<10
Fluoranthene, µg/kg	127
Indeno(1,2,3-cd)pyrene, µg/kg	<10
Pyrene, µg/kg	184

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HKLAS 083
TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33663C
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30
Page:	1 of 5

Sample Description : 16 samples as received by customer said to be sediment
Laboratory No. : 33663C
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-19

Test Requested & Methodology:

Item	Parameters		Ref. Method	Limit of Reporting
1	2,4'-Dichlorobiphenyl	PCB8	In-house method SOP088 (GC/MSD)	1 µg/kg
2	2,2',5-Trichlorobiphenyl	PCB18		1 µg/kg
3	2,4,4'-Trichlorobiphenyl	PCB28		1 µg/kg
4	2,2', 3,5'-Tetrachlorobiphenyl	PCB44		1 µg/kg
5	2,2', 5,5'-Tetrachlorobiphenyl	PCB52		1 µg/kg
6	2,3', 4,4'-Tetrachlorobiphenyl	PCB66		1 µg/kg
7	3,3', 4,4'-Tetrachlorobiphenyl	PCB 77		1 µg/kg
8	2,2', 4,5,5'-Pentachlorobiphenyl	PCB101		1 µg/kg
9	2,3,3', 4,4'-Pentachlorobiphenyl	PCB105		1 µg/kg
10	2,3', 4,4',5-Pentachlorobiphenyl	PCB118		1 µg/kg
11	3,3', 4,4',5-Pentachlorobiphenyl	PCB126		1 µg/kg
12	2,2', 3,3',4,4'-Hexachlorobiphenyl	PCB128		1 µg/kg
13	2,2', 3,4,4',5'-Hexachlorobiphenyl	PCB138		1 µg/kg
14	2,2', 4,4',5,5'-Hexachlorobiphenyl	PCB153		1 µg/kg
15	3,3', 4,4',5,5'-Hexachlorobiphenyl	PCB169		1 µg/kg
16	2,2', 3,3',4,4',5-Heptachlorobiphenyl	PCB170		1 µg/kg
17	2,2', 3,4,4',5,5'-Heptachlorobiphenyl	PCB180		1 µg/kg
18	2,2', 3,4',5,5',6-Heptachlorobiphenyl	PCB187		1 µg/kg

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PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33663C
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30

Test Results:

Sample No.	33663-1	33663-2	33663-3	33663-4	33663-5
Sample ID	GS-75	GS-76	GS-77	GS-78	GS-79
Sampling Location	825936E 806874N	826121E 806799N	826306E 806723N	826491E 806648N	826677E 806572N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	19/06/2020	19/06/2020	19/06/2020	19/06/2020	19/06/2020
Sampling Time	10:00	10:10	10:20	10:30	10:40
2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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TEST REPORT

Report No.:	33663C
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30

Test Results:

Sample No.	33663-6	33663-7	33663-8	33663-9	33663-10
Sample ID	GS-80	GS-81	GS-82	GS-83	GS-84
Sampling Location	826862E 806497N	825119E 806991N	825305E 806915N	825490E 806840N	825675E 806764N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	19/06/2020	19/06/2020	19/06/2020	19/06/2020	19/06/2020
Sampling Time	10:50	12:30	12:20	12:10	12:00
2,4'-Dichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2',5-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,4,4'-Trichlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1
2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1	<1	<1	<1	<1

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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TEST REPORT

Report No.:	33663C
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30

Test Results:

Sample No.	33663-11	33663-12	33663-13	33663-14	33663-15
Sample ID	GS-85	GS-86	GS-87	GS-88	GS-89
Sampling Location	825860E 806689N	826046E 806613N	826231E 806538N	826416E 806462N	826601E 806387N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	19/06/2020	19/06/2020	19/06/2020	19/06/2020	19/06/2020
Sampling Time	11:50	11:40	11:30	11:20	11:10
2,4'-Dichlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2',5-Trichlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,4,4'-Trichlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 3,5'-Tetrachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 5,5'-Tetrachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,3', 4,4'-Tetrachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
3,3', 4,4'-Tetrachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 4,5,5'-Pentachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,3,3', 4,4'-Pentachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,3', 4,4',5-Pentachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5-Pentachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4'-Hexachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5'-Hexachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 4,4',5,5'-Hexachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
3,3', 4,4',5,5'-Hexachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 3,3',4,4',5-Heptachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1
2,2', 3,4',5,5',6-Heptachlorobiphenyl, μg/kg	<1	<1	<1	<1	<1

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33663C
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30
Page:	5 of 5

Test Results:

Sample No.	33663-16
Sample ID	GS-90
Sampling Location	826786E 806312N
Sampling Depth	0.0-0.2m
Sampling Date	19/06/2020
Sampling Time	11:00
2,4'-Dichlorobiphenyl, µg/kg	<1
2,2',5-Trichlorobiphenyl, µg/kg	<1
2,4,4'-Trichlorobiphenyl, µg/kg	<1
2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1
2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1
2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1
3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1
2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1
2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1
2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1
3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1
2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1
2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1
2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1
3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1
2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1
2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

**********END OF REPORT**********

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HKAS HOKLAS 083 TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	33663D
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30

Page: 1 of 2

ATTN: **Mr. N.P. Shum**

Sample Description : 16 samples as received by customer said to be sediment and were prepared for 16 interstitial water samples
Laboratory No. : 33663D
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-19

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Tributyltin (TBT)	In-house method SOP065 (GC/FPD)	0.010 µg/L

Test Results:

Sample No.	33663-1	33663-2	33663-3	33663-4	33663-5
Sample ID	GS-75	GS-76	GS-77	GS-78	GS-79
Sampling Location	825936E 806874N	826121E 806799N	826306E 806723N	826491E 806648N	826677E 806572N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	19/06/2020	19/06/2020	19/06/2020	19/06/2020	19/06/2020
Sampling Time	10:00	10:10	10:20	10:30	10:40
Tributyltin, µg/L	<0.010	<0.010	<0.010	<0.010	<0.010

Remarks: 1) < = less than
2) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33663D
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30
Page:	2 of 2

Test Results:

Sample No.	33663-6	33663-7	33663-8	33663-9	33663-10
Sample ID	GS-80	GS-81	GS-82	GS-83	GS-84
Sampling Location	826862E 806497N	825119E 806991N	825305E 806915N	825490E 806840N	825675E 806764N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	19/06/2020	19/06/2020	19/06/2020	19/06/2020	19/06/2020
Sampling Time	10:50	12:30	12:20	12:10	12:00
Tributyltin, μg/L	<0.010	<0.010	<0.010	<0.010	<0.010

Sample No.	33663-11	33663-12	33663-13	33663-14	33663-15
Sample ID	GS-85	GS-86	GS-87	GS-88	GS-89
Sampling Location	825860E 806689N	826046E 806613N	826231E 806538N	826416E 806462N	826601E 806387N
Sampling Depth	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m	0.0-0.2m
Sampling Date	19/06/2020	19/06/2020	19/06/2020	19/06/2020	19/06/2020
Sampling Time	11:50	11:40	11:30	11:20	11:10
Tributyltin, μg/L	<0.010	<0.010	<0.010	<0.010	<0.010

Sample No.	33663-16
Sample ID	GS-90
Sampling Location	826786E 806312N
Sampling Depth	0.0-0.2m
Sampling Date	19/06/2020
Sampling Time	11:00
Tributyltin, μg/L	<0.010

Remarks: 1) < = less than

2) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33672
Date of Issue:	2020-06-30
Date Received:	2020-06-23
Date Tested:	2020-06-23
Date Completed:	2020-06-30
Page:	1 of 2

Sample Description : 1 sample as received by customer said to be sediment
Laboratory No. : 33672
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-23

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Cadmium (Cd)	In-house method SOP053 (ICP-AES) & In-house method SOP093 (digestion) (ICP-MS)	0.05 mg/kg
2	Chromium (Cr)		0.1 mg/kg
3	Copper (Cu)		0.2 mg/kg
4	Mercury (Hg)		0.05 mg/kg
5	Nickel (Ni)		0.2 mg/kg
6	Lead (Pb)		0.1 mg/kg
7	Silver (Ag)		0.1 mg/kg
8	Zinc (Zn)		0.2 mg/kg
9	Arsenic (As)		0.1 mg/kg

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33672
Date of Issue:	2020-06-30
Date Received:	2020-06-23
Date Tested:	2020-06-23
Date Completed:	2020-06-30
Page:	2 of 2

Test Results:

Sample No.	33672-1
Sample ID	Reference Grab
Sampling Location	820057N 850234E
Sampling Depth	0.0-0.2m
Sampling Date	23/06/2020
Sampling Time	10:35
Cadmium, mg/kg	<0.05
Chromium, mg/kg	23
Copper, mg/kg	15
Mercury, mg/kg	0.38
Nickel, mg/kg	17
Lead, mg/kg	27
Silver, mg/kg	0.11
Zinc, mg/kg	69
Arsenic, mg/kg	7.9

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1716, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33672A
Date of Issue:	2020-06-30
Date Received:	2020-06-23
Date Tested:	2020-06-23
Date Completed:	2020-06-30
Page:	1 of 2

Sample Description : 1 sample as received by customer said to be sediment
Laboratory No. : 33672A
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-30

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Acenaphtene	In-house method SOP090 (GC/MSD)	8 µg/kg
2	Acenaphtylene		8 µg/kg
3	Anthracene		8 µg/kg
4	Fluorene		8 µg/kg
5	Naphthalene		10 µg/kg
6	Phenanthrene		8 µg/kg

****

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For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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TEST REPORT

Report No.:	33672A
Date of Issue:	2020-06-30
Date Received:	2020-06-23
Date Tested:	2020-06-23
Date Completed:	2020-06-30
Page:	2 of 2

Test Results:

Sample No.	33672-1
Sample ID	Reference Grab
Sampling Location	820057N 850234E
Sampling Depth	0.0-0.2m
Sampling Date	23/06/2020
Sampling Time	10:35
Acenaphtene, µg/kg	<8
Acenaphtylene, µg/kg	<8
Anthracene, µg/kg	<8
Fluorene, µg/kg	<8
Naphthalene, µg/kg	<10
Phenanthrene, µg/kg	<8

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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HOKLAS 083
TEST

TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33672B
Date of Issue:	2020-06-30
Date Received:	2020-06-23
Date Tested:	2020-06-23
Date Completed:	2020-06-30
Page:	1 of 2

Sample Description : 1 sample as received by customer said to be sediment
Laboratory No. : 33672B
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-23

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Benzo(a)anthracene	In-house method SOP090 (GC/MSD)	10 µg/kg
2	Benzo(a)pyrene		10 µg/kg
3	Benzo(b)fluoranthene		10 µg/kg
4	Benzo(k)fluoranthene		10 µg/kg
5	Benzo(g,h,i)perylene		10 µg/kg
6	Chrysene		10 µg/kg
7	Dibenzo(a,h)anthracene		10 µg/kg
8	Fluoranthene		10 µg/kg
9	Indeno(1,2,3-cd)pyrene		10 µg/kg
10	Pyrene		10 µg/kg

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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HOKLAS 083
TEST

TEST REPORT

Report No.:	33672B
Date of Issue:	2020-06-30
Date Received:	2020-06-23
Date Tested:	2020-06-23
Date Completed:	2020-06-30

Test Results:

Sample No.	33672-1
Sample ID	Reference Grab
Sampling Location	820057N 850234E
Sampling Depth	0.0-0.2m
Sampling Date	23/06/2020
Sampling Time	10:35
Benzo(a)anthracene, µg/kg	<10
Benzo(a)pyrene, µg/kg	<10
Benzo(b)fluoranthene, µg/kg	<10
Benzo(k)fluoranthene, µg/kg	<10
Benzo(g,h,i)perylene, µg/kg	<10
Chrysene, µg/kg	<10
Dibenzo(a,h)anthracene, µg/kg	<10
Fluoranthene, µg/kg	<10
Indeno(1,2,3-cd)pyrene, µg/kg	<10
Pyrene, µg/kg	<10

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33672C
Date of Issue:	2020-06-30
Date Received:	2020-05-23
Date Tested:	2020-05-23
Date Completed:	2020-06-30
Page:	1 of 2

Sample Description : 1 sample as received by customer said to be sediment
Laboratory No. : 33672C
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-23

Test Requested & Methodology:

Item	Parameters		Ref. Method	Limit of Reporting
1	2,4'-Dichlorobiphenyl	PCB8	In-house method SOP088 (GC/MSD)	1 µg/kg
2	2,2',5-Trichlorobiphenyl	PCB18		1 µg/kg
3	2,4,4'-Trichlorobiphenyl	PCB28		1 µg/kg
4	2,2', 3,5'-Tetrachlorobiphenyl	PCB44		1 µg/kg
5	2,2', 5,5'-Tetrachlorobiphenyl	PCB52		1 µg/kg
6	2,3', 4,4'-Tetrachlorobiphenyl	PCB66		1 µg/kg
7	3,3', 4,4'-Tetrachlorobiphenyl	PCB 77		1 µg/kg
8	2,2', 4,5,5'-Pentachlorobiphenyl	PCB101		1 µg/kg
9	2,3,3', 4,4'-Pentachlorobiphenyl	PCB105		1 µg/kg
10	2,3', 4,4',5-Pentachlorobiphenyl	PCB118		1 µg/kg
11	3,3', 4,4',5-Pentachlorobiphenyl	PCB126		1 µg/kg
12	2,2', 3,3',4,4'-Hexachlorobiphenyl	PCB128		1 µg/kg
13	2,2', 3,4,4',5'-Hexachlorobiphenyl	PCB138		1 µg/kg
14	2,2', 4,4',5,5'-Hexachlorobiphenyl	PCB153		1 µg/kg
15	3,3', 4,4',5,5'-Hexachlorobiphenyl	PCB169		1 µg/kg
16	2,2', 3,3',4,4',5-Heptachlorobiphenyl	PCB170		1 µg/kg
17	2,2', 3,4,4',5,5'-Heptachlorobiphenyl	PCB180		1 µg/kg
18	2,2', 3,4',5,5',6-Heptachlorobiphenyl	PCB187		1 µg/kg

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PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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TEST REPORT

Report No.:	33672C
Date of Issue:	2020-06-30
Date Received:	2020-06-23
Date Tested:	2020-06-23
Date Completed:	2020-06-30
Page:	2 of 2

Test Results:

Sample No.	33672-1
Sample ID	Reference Grab
Sampling Location	820057N 850234E
Sampling Depth	0.0-0.2m
Sampling Date	23/06/2020
Sampling Time	10:35
2,4'-Dichlorobiphenyl, µg/kg	<1
2,2',5-Trichlorobiphenyl, µg/kg	<1
2,4,4'-Trichlorobiphenyl, µg/kg	<1
2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<1
2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<1
2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1
3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<1
2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<1
2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<1
2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1
3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<1
2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<1
2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<1
2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1
3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<1
2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<1
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<1
2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<1

Remarks: 1) < = less than

2) Results reported as dry weight basis

3) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

ATTN: **Mr. N.P. Shum**

Report No.:	33672D
Date of Issue:	2020-06-30
Date Received:	2020-06-23
Date Tested:	2020-06-23
Date Completed:	2020-06-30
Page:	1 of 1

Sample Description : 1 sample as received by customer said to be sediment and was prepared for 1 interstitial water sample
Laboratory No. : 33672D
Project Name : Proposed Sediment Disposal Facility at West Lamma

Sampling Date : 2020-06-23

Test Requested & Methodology:

Item	Parameters	Ref. Method	Limit of Reporting
1	Tributyltin (TBT)	In-house method SOP065 (GC/FPD)	0.010 µg/L

Test Results:

Sample No.	33672-1
Sample ID	Reference Grab
Sampling Location	820057N 850234E
Sampling Depth	0.0-0.2m
Sampling Date	23/06/2020
Sampling Time	10:35
Tributyltin, µg/L	<0.010

Remarks: 1) < = less than
2) The above testing is performed at Rm1502 & 1516, Technology Park, 18 On Lai Street, Shatin

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Approved Signatory:
Tse Siu Kei, Patrick
General Manager

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33575
Date of Issue:	2020-06-04
Date Received:	2020-05-29
Date Tested:	2020-05-29
Date Completed:	2020-06-04
Page:	1 of 2

ATTN: **Mr. N.P. Shum**

QC report:

Method Blank

Parameter	Method Blank 1	Acceptance
Cadmium (Cd), µg/L	<0.1	<0.1
Chromium (Cr), µg/L	<0.2	<0.2
Copper (Cu), µg/L	<0.2	<0.2
Mercury (Hg), µg/L	<0.2	<0.2
Nickel (Ni), µg/L	<0.2	<0.2
Lead (Pb), µg/L	<0.2	<0.2
Silver (Ag), µg/L	<0.2	<0.2
Zinc (Zn), µg/L	<0.4	<0.4
Arsenic (As), µg/L	<0.2	<0.2

Method QC

Parameter	MQC 1	Acceptance
Cadmium (Cd), %	94	80-120%
Chromium (Cr), %	96	80-120%
Copper (Cu), %	98	80-120%
Mercury (Hg), %	93	80-120%
Nickel (Ni), %	100	80-120%
Lead (Pb), %	100	80-120%
Silver (Ag), %	99	80-120%
Zinc (Zn), %	97	80-120%
Arsenic (As), %	99	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33575

****

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PATRICK TSE
General Manager

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TEST REPORT

Report No.:	QC33575
Date of Issue:	2020-06-04
Date Received:	2020-05-29
Date Tested:	2020-05-29
Date Completed:	2020-06-04
Page:	2 of 2

Sample Spike

Parameter	33575-1 spk	Acceptance
Cadmium (Cd), %	93	80-120%
Chromium (Cr), %	101	80-120%
Copper (Cu), %	90	80-120%
Mercury (Hg), %	96	80-120%
Nickel (Ni), %	97	80-120%
Lead (Pb), %	94	80-120%
Silver (Ag), %	97	80-120%
Zinc (Zn), %	98	80-120%
Arsenic (As), %	93	80-120%

Sample Duplicate

Parameter	33575-1 chk	Acceptance
Cadmium (Cd), %	4	RPD≤20
Chromium (Cr), %	7	RPD≤20
Copper (Cu), %	8	RPD≤20
Mercury (Hg), %	3	RPD≤20
Nickel (Ni), %	1	RPD≤20
Lead (Pb), %	1	RPD≤20
Silver (Ag), %	9	RPD≤20
Zinc (Zn), %	4	RPD≤20
Arsenic (As), %	4	RPD≤20

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33575

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33575A
Date of Issue:	2020-06-04
Date Received:	2020-05-29
Date Tested:	2020-05-29
Date Completed:	2020-06-04

ATTN: **Mr. N.P. Shum**

QC report:

Method Blank

Parameter	Method Blank 1	Acceptance
Acenaphtene, µg/kg	<2	<2
Acenaphtylene, µg/kg	<2	<2
Anthracene, µg/kg	<2	<2
Fluorene, µg/kg	<2	<2
Naphthalene, µg/kg	<2	<2
Phenanthrene, µg/kg	<2	<2
Benzo(a)anthracene, µg/kg	<2	<2
Benzo(a)pyrene, µg/kg	<2	<2
Benzo(b)fluoranthene, µg/kg	<2	<2
Benzo(k)fluoranthene, µg/kg	<2	<2
Benzo(g,h,i)perylene, µg/kg	<2	<2
Chrysene, µg/kg	<2	<2
Dibenzo(a,h)anthracene, µg/kg	<2	<2
Fluoranthene, µg/kg	<2	<2
Indeno(1,2,3-cd)pyrene, µg/kg	<2	<2
Pyrene, µg/kg	<2	<2

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33575A and 33575B

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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TEST REPORT

Report No.:	QC33575A
Date of Issue:	2020-06-04
Date Received:	2020-05-29
Date Tested:	2020-05-29
Date Completed:	2020-06-04

Method QC

Parameter	MQC 1	Acceptance
Acenaphtene, %	96	80-120%
Acenaphtylene, %	102	80-120%
Anthracene, %	98	80-120%
Fluorene, %	100	80-120%
Naphthalene, %	102	80-120%
Phenanthrene, %	99	80-120%
Benzo(a)anthracene, %	98	80-120%
Benzo(a)pyrene, %	95	80-120%
Benzo(b)fluoranthene, %	96	80-120%
Benzo(k)fluoranthene, %	94	80-120%
Benzo(g,h,i)perylene, %	97	80-120%
Chrysene, %	92	80-120%
Dibenzo(a,h)anthracene, %	96	80-120%
Fluoranthene, %	102	80-120%
Indeno(1,2,3-cd)pyrene, %	97	80-120%
Pyrene, %	98	80-120%

Remark: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33575A and 33575B

****

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TEST REPORT

Report No.:	QC33575A
Date of Issue:	2020-06-04
Date Received:	2020-05-29
Date Tested:	2020-05-29
Date Completed:	2020-06-04

Sample Spike

Parameter	33575-1 spk	Acceptance
Acenaphtene, %	97	80-120%
Acenaphtylene, %	95	80-120%
Anthracene, %	95	80-120%
Fluorene, %	94	80-120%
Naphthalene, %	100	80-120%
Phenanthrene, %	100	80-120%
Benzo(a)anthracene, %	99	80-120%
Benzo(a)pyrene, %	99	80-120%
Benzo(b)fluoranthene, %	96	80-120%
Benzo(k)fluoranthene, %	96	80-120%
Benzo(g,h,i)perylene, %	89	80-120%
Chrysene, %	98	80-120%
Dibenzo(a,h)anthracene, %	95	80-120%
Fluoranthene, %	91	80-120%
Indeno(1,2,3-cd)pyrene, %	95	80-120%
Pyrene, %	95	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33575A and 33575B

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TEST REPORT

Report No.:	QC33575A
Date of Issue:	2020-06-04
Date Received:	2020-05-29
Date Tested:	2020-05-29
Date Completed:	2020-06-04

Sample Spike Duplicate

Parameter	33575-1 spk dup	Acceptance
Acenaphtene, %	6	≤15%
Acenaphtylene, %	4	≤15%
Anthracene, %	5	≤15%
Fluorene, %	11	≤15%
Naphthalene, %	11	≤15%
Phenanthrene, %	2	≤15%
Benzo(a)anthracene, %	10	≤15%
Benzo(a)pyrene, %	5	≤15%
Benzo(b)fluoranthene, %	3	≤15%
Benzo(k)fluoranthene, %	6	≤15%
Benzo(g,h,i)perylene, %	1	≤15%
Chrysene, %	7	≤15%
Dibenzo(a,h)anthracene, %	7	≤15%
Fluoranthene, %	11	≤15%
Indeno(1,2,3-cd)pyrene, %	2	≤15%
Pyrene, %	10	≤15%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33575A and 33575B

**********END OF REPORT**********

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33575B
Date of Issue:	2020-06-04
Date Received:	2020-05-29
Date Tested:	2020-05-29
Date Completed:	2020-06-04

ATTN: **Mr. N.P. Shum**

QC report:

Method Blank

Parameter	Method Blank 1	Acceptance
2,4'-Dichlorobiphenyl, µg/kg	<0.4	<0.4
2,2',5-Trichlorobiphenyl, µg/kg	<0.4	<0.4
2,4,4'-Trichlorobiphenyl, µg/kg	<0.4	<0.4
2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4
2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4
2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4
3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4
2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<0.4	<0.4
2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<0.4	<0.4
2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<0.4	<0.4
3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<0.4	<0.4
2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4
2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4
2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4
3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4
2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<0.4	<0.4
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<0.4	<0.4
2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<0.4	<0.4

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33575C

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PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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TEST REPORT

Report No.:	QC33575B
Date of Issue:	2020-06-04
Date Received:	2020-05-29
Date Tested:	2020-05-29
Date Completed:	2020-06-04

Method QC

Parameter	MQC 1	Acceptance
2,4'-Dichlorobiphenyl, %	96	80-120%
2,2',5-Trichlorobiphenyl, %	98	80-120%
2,4,4'-Trichlorobiphenyl, %	100	80-120%
2,2', 3,5'-Tetrachlorobiphenyl, %	100	80-120%
2,2', 5,5'-Tetrachlorobiphenyl, %	93	80-120%
2,3', 4,4'-Tetrachlorobiphenyl, %	99	80-120%
3,3', 4,4'-Tetrachlorobiphenyl, %	100	80-120%
2,2', 4,5,5'-Pentachlorobiphenyl, %	91	80-120%
2,3,3', 4,4'-Pentachlorobiphenyl, %	92	80-120%
2,3', 4,4',5-Pentachlorobiphenyl, %	97	80-120%
3,3', 4,4',5-Pentachlorobiphenyl, %	95	80-120%
2,2', 3,3',4,4'-Hexachlorobiphenyl, %	103	80-120%
2,2', 3,4,4',5'-Hexachlorobiphenyl, %	98	80-120%
2,2', 4,4',5,5'-Hexachlorobiphenyl, %	104	80-120%
3,3', 4,4',5,5'-Hexachlorobiphenyl, %	95	80-120%
2,2', 3,3',4,4',5-Heptachlorobiphenyl, %	97	80-120%
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, %	97	80-120%
2,2', 3,4',5,5',6-Heptachlorobiphenyl, %	96	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33575C

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TEST REPORT

Report No.:	QC33575B
Date of Issue:	2020-06-04
Date Received:	2020-05-29
Date Tested:	2020-05-29
Date Completed:	2020-06-04

Sample Spike

Parameter	33575-1 spk	Acceptance
2,4'-Dichlorobiphenyl, %	97	80-120%
2,2',5-Trichlorobiphenyl, %	95	80-120%
2,4,4'-Trichlorobiphenyl, %	97	80-120%
2,2', 3,5'-Tetrachlorobiphenyl, %	98	80-120%
2,2', 5,5'-Tetrachlorobiphenyl, %	98	80-120%
2,3', 4,4'-Tetrachlorobiphenyl, %	101	80-120%
3,3', 4,4'-Tetrachlorobiphenyl, %	98	80-120%
2,2', 4,5,5'-Pentachlorobiphenyl, %	94	80-120%
2,3,3', 4,4'-Pentachlorobiphenyl, %	97	80-120%
2,3', 4,4',5-Pentachlorobiphenyl, %	96	80-120%
3,3', 4,4',5-Pentachlorobiphenyl, %	97	80-120%
2,2', 3,3',4,4'-Hexachlorobiphenyl, %	90	80-120%
2,2', 3,4,4',5'-Hexachlorobiphenyl, %	96	80-120%
2,2', 4,4',5,5'-Hexachlorobiphenyl, %	99	80-120%
3,3', 4,4',5,5'-Hexachlorobiphenyl, %	94	80-120%
2,2', 3,3',4,4',5-Heptachlorobiphenyl, %	95	80-120%
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, %	91	80-120%
2,2', 3,4',5,5',6-Heptachlorobiphenyl, %	90	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33575C

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TEST REPORT

Report No.:	QC33575B
Date of Issue:	2020-06-04
Date Received:	2020-05-29
Date Tested:	2020-05-29
Date Completed:	2020-06-04
Page:	4 of 4

Sample Spike Duplicate

Parameter	33575-1 spk dup	Acceptance
2,4'-Dichlorobiphenyl, %	1	≤20%
2,2',5-Trichlorobiphenyl, %	5	≤20%
2,4,4'-Trichlorobiphenyl, %	3	≤20%
2,2', 3,5'-Tetrachlorobiphenyl, %	2	≤20%
2,2', 5,5'-Tetrachlorobiphenyl, %	3	≤20%
2,3', 4,4'-Tetrachlorobiphenyl, %	5	≤20%
3,3', 4,4'-Tetrachlorobiphenyl, %	9	≤20%
2,2', 4,5,5'-Pentachlorobiphenyl, %	1	≤20%
2,3,3', 4,4'-Pentachlorobiphenyl, %	8	≤20%
2,3', 4,4',5-Pentachlorobiphenyl, %	6	≤20%
3,3', 4,4',5-Pentachlorobiphenyl, %	10	≤20%
2,2', 3,3',4,4'-Hexachlorobiphenyl, %	2	≤20%
2,2', 3,4,4',5'-Hexachlorobiphenyl, %	9	≤20%
2,2', 4,4',5,5'-Hexachlorobiphenyl, %	2	≤20%
3,3', 4,4',5,5'-Hexachlorobiphenyl, %	5	≤20%
2,2', 3,3',4,4',5-Heptachlorobiphenyl, %	8	≤20%
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, %	1	≤20%
2,2', 3,4',5,5',6-Heptachlorobiphenyl, %	3	≤20%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33575C

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33575C
Date of Issue:	2020-06-04
Date Received:	2020-05-29
Date Tested:	2020-05-29
Date Completed:	2020-06-04
Page:	1 of 1

ATTN: **Mr. N.P. Shum**

QC report:

Method Blank

Parameter	Method Blank 1	Acceptance
Tributyltin, μg/L	<0.005	<0.005

Method QC

Parameter	MQC 1	Acceptance
Tributyltin, %	98	90-110%

Sample Spike

Parameter	33575-1 spk	Acceptance
Tributyltin, %	94	90-110%

Sample Spike Duplicate

Parameter	33575-1 spk dup	Acceptance
Tributyltin, %	5	≤15%

Remarks: 1) < = less than
2) This report is the summary of quality control data for report number 33575D.

**********END OF REPORT**********

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PATRICK TSE
General Manager

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33628
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24

ATTN: **Mr. N.P. Shum**

Page: 1 of 2

QC report:

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Cadmium (Cd), µg/L	<0.1	<0.1	<0.1
Chromium (Cr), µg/L	<0.2	<0.2	<0.2
Copper (Cu), µg/L	<0.2	<0.2	<0.2
Mercury (Hg), µg/L	<0.2	<0.2	<0.2
Nickel (Ni), µg/L	<0.2	<0.2	<0.2
Lead (Pb), µg/L	<0.2	<0.2	<0.2
Silver (Ag), µg/L	<0.2	<0.2	<0.2
Zinc (Zn), µg/L	<0.4	<0.4	<0.4
Arsenic (As), µg/L	<0.2	<0.2	<0.2

Method QC

Parameter	MQC 1	MQC 2	Acceptance
Cadmium (Cd), %	105	93	80-120%
Chromium (Cr), %	95	97	80-120%
Copper (Cu), %	97	100	80-120%
Mercury (Hg), %	99	95	80-120%
Nickel (Ni), %	99	99	80-120%
Lead (Pb), %	99	94	80-120%
Silver (Ag), %	97	93	80-120%
Zinc (Zn), %	100	93	80-120%
Arsenic (As), %	102	97	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33628

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TEST REPORT

Report No.:	QC33628
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24

Sample Spike

Parameter	33628-1 spk	33628-11 spk	Acceptance
Cadmium (Cd), %	99	91	80-120%
Chromium (Cr), %	94	91	80-120%
Copper (Cu), %	95	98	80-120%
Mercury (Hg), %	93	93	80-120%
Nickel (Ni), %	89	98	80-120%
Lead (Pb), %	97	94	80-120%
Silver (Ag), %	93	90	80-120%
Zinc (Zn), %	90	100	80-120%
Arsenic (As), %	98	99	80-120%

Sample Duplicate

Parameter	33628-1 chk	33628-11 chk	Acceptance
Cadmium (Cd), %	N/A	1	RPD≤20
Chromium (Cr), %	3	8	RPD≤20
Copper (Cu), %	3	5	RPD≤20
Mercury (Hg), %	1	N/A	RPD≤20
Nickel (Ni), %	3	8	RPD≤20
Lead (Pb), %	8	11	RPD≤20
Silver (Ag), %	1	4	RPD≤20
Zinc (Zn), %	1	5	RPD≤20
Arsenic (As), %	5	4	RPD≤20

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33628

**********END OF REPORT**********

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
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Report No.:	QC33628A
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24
Page:	1 of 4

ATTN: **Mr. N.P. Shum**

QC report:

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Acenaphtene, µg/kg	<2	<2	<2
Acenaphtylene, µg/kg	<2	<2	<2
Anthracene, µg/kg	<2	<2	<2
Fluorene, µg/kg	<2	<2	<2
Naphthalene, µg/kg	<2	<2	<2
Phenanthrene, µg/kg	<2	<2	<2
Benzo(a)anthracene, µg/kg	<2	<2	<2
Benzo(a)pyrene, µg/kg	<2	<2	<2
Benzo(b)fluoranthene, µg/kg	<2	<2	<2
Benzo(k)fluoranthene, µg/kg	<2	<2	<2
Benzo(g,h,i)perylene, µg/kg	<2	<2	<2
Chrysene, µg/kg	<2	<2	<2
Dibenzo(a,h)anthracene, µg/kg	<2	<2	<2
Fluoranthene, µg/kg	<2	<2	<2
Indeno(1,2,3-cd)pyrene, µg/kg	<2	<2	<2
Pyrene, µg/kg	<2	<2	<2

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33628A and 33628B

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PATRICK TSE
General Manager

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TEST REPORT

Report No.:	QC33628A
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24

Method QC

Parameter	MQC 1	MQC 2	Acceptance
Acenaphtene, %	93	99	80-120%
Acenaphtylene, %	98	98	80-120%
Anthracene, %	101	100	80-120%
Fluorene, %	101	94	80-120%
Naphthalene, %	99	100	80-120%
Phenanthrene, %	99	95	80-120%
Benzo(a)anthracene, %	99	102	80-120%
Benzo(a)pyrene, %	92	100	80-120%
Benzo(b)fluoranthene, %	96	95	80-120%
Benzo(k)fluoranthene, %	99	97	80-120%
Benzo(g,h,i)perylene, %	96	96	80-120%
Chrysene, %	96	103	80-120%
Dibenzo(a,h)anthracene, %	100	99	80-120%
Fluoranthene, %	98	95	80-120%
Indeno(1,2,3-cd)pyrene, %	92	101	80-120%
Pyrene, %	101	98	80-120%

Remark: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33628A and 33628B

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TEST REPORT

Report No.:	QC33628A
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24

Sample Spike

Parameter	33628-1 spk	33628-11 spk	Acceptance
Acenaphtene, %	93	96	80-120%
Acenaphtylene, %	97	98	80-120%
Anthracene, %	93	92	80-120%
Fluorene, %	98	95	80-120%
Naphthalene, %	90	98	80-120%
Phenanthrene, %	94	93	80-120%
Benzo(a)anthracene, %	91	96	80-120%
Benzo(a)pyrene, %	96	98	80-120%
Benzo(b)fluoranthene, %	92	93	80-120%
Benzo(k)fluoranthene, %	89	94	80-120%
Benzo(g,h,i)perylene, %	96	96	80-120%
Chrysene, %	97	94	80-120%
Dibenzo(a,h)anthracene, %	95	99	80-120%
Fluoranthene, %	95	98	80-120%
Indeno(1,2,3-cd)pyrene, %	94	96	80-120%
Pyrene, %	95	89	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33628A and 33628B

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TEST REPORT

Report No.:	QC33628A
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24

Sample Spike Duplicate

Parameter	33628-1 spk dup	33628-11 spk dup	Acceptance
Acenaphtene, %	6	5	≤15%
Acenaphtylene, %	5	3	≤15%
Anthracene, %	8	5	≤15%
Fluorene, %	9	4	≤15%
Naphthalene, %	5	4	≤15%
Phenanthrene, %	2	4	≤15%
Benzo(a)anthracene, %	4	5	≤15%
Benzo(a)pyrene, %	3	3	≤15%
Benzo(b)fluoranthene, %	7	4	≤15%
Benzo(k)fluoranthene, %	5	2	≤15%
Benzo(g,h,i)perylene, %	4	1	≤15%
Chrysene, %	3	3	≤15%
Dibenzo(a,h)anthracene, %	11	9	≤15%
Fluoranthene, %	5	8	≤15%
Indeno(1,2,3-cd)pyrene, %	7	3	≤15%
Pyrene, %	7	3	≤15%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33628A and 33628B

**********END OF REPORT**********

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33628B
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24

ATTN: **Mr. N.P. Shum**

QC report:
Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
2,4'-Dichlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2',5-Trichlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,4,4'-Trichlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 33628C

****

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PATRICK TSE
General Manager

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TEST REPORT

Report No.:	QC33628B
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24

Method QC

Parameter	MQC 1	MQC 2	Acceptance
2,4'-Dichlorobiphenyl, %	96	102	80-120%
2,2',5-Trichlorobiphenyl, %	99	99	80-120%
2,4,4'-Trichlorobiphenyl, %	96	96	80-120%
2,2', 3,5'-Tetrachlorobiphenyl, %	99	101	80-120%
2,2', 5,5'-Tetrachlorobiphenyl, %	101	96	80-120%
2,3', 4,4'-Tetrachlorobiphenyl, %	100	97	80-120%
3,3', 4,4'-Tetrachlorobiphenyl, %	96	100	80-120%
2,2', 4,5,5'-Pentachlorobiphenyl, %	101	100	80-120%
2,3,3', 4,4'-Pentachlorobiphenyl, %	94	96	80-120%
2,3', 4,4',5-Pentachlorobiphenyl, %	98	103	80-120%
3,3', 4,4',5-Pentachlorobiphenyl, %	102	98	80-120%
2,2', 3,3',4,4'-Hexachlorobiphenyl, %	100	100	80-120%
2,2', 3,4,4',5'-Hexachlorobiphenyl, %	95	97	80-120%
2,2', 4,4',5,5'-Hexachlorobiphenyl, %	99	93	80-120%
3,3', 4,4',5,5'-Hexachlorobiphenyl, %	95	93	80-120%
2,2', 3,3',4,4',5-Heptachlorobiphenyl, %	99	93	80-120%
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, %	95	103	80-120%
2,2', 3,4',5,5',6-Heptachlorobiphenyl, %	98	93	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33628C

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TEST REPORT

Report No.:	QC33628B
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24

Sample Spike

Parameter	33628-1 spk	33628-11 spk	Acceptance
2,4'-Dichlorobiphenyl, %	92	97	80-120%
2,2',5-Trichlorobiphenyl, %	96	100	80-120%
2,4,4'-Trichlorobiphenyl, %	95	94	80-120%
2,2', 3,5'-Tetrachlorobiphenyl, %	92	90	80-120%
2,2', 5,5'-Tetrachlorobiphenyl, %	94	95	80-120%
2,3', 4,4'-Tetrachlorobiphenyl, %	89	97	80-120%
3,3', 4,4'-Tetrachlorobiphenyl, %	96	96	80-120%
2,2', 4,5,5'-Pentachlorobiphenyl, %	94	95	80-120%
2,3,3', 4,4'-Pentachlorobiphenyl, %	95	94	80-120%
2,3', 4,4',5-Pentachlorobiphenyl, %	96	90	80-120%
3,3', 4,4',5-Pentachlorobiphenyl, %	100	94	80-120%
2,2', 3,3',4,4'-Hexachlorobiphenyl, %	88	98	80-120%
2,2', 3,4,4',5'-Hexachlorobiphenyl, %	94	98	80-120%
2,2', 4,4',5,5'-Hexachlorobiphenyl, %	94	98	80-120%
3,3', 4,4',5,5'-Hexachlorobiphenyl, %	99	95	80-120%
2,2', 3,3',4,4',5-Heptachlorobiphenyl, %	97	93	80-120%
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, %	96	100	80-120%
2,2', 3,4',5,5',6-Heptachlorobiphenyl, %	98	101	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33628C

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TEST REPORT

Report No.:	QC33628B
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24
Page:	4 of 4

Sample Spike Duplicate

Parameter	33628-1 spk dup	33628-11 spk dup	Acceptance
2,4'-Dichlorobiphenyl, %	4	2	≤20%
2,2',5-Trichlorobiphenyl, %	6	9	≤20%
2,4,4'-Trichlorobiphenyl, %	4	3	≤20%
2,2', 3,5'-Tetrachlorobiphenyl, %	4	8	≤20%
2,2', 5,5'-Tetrachlorobiphenyl, %	2	6	≤20%
2,3', 4,4'-Tetrachlorobiphenyl, %	8	2	≤20%
3,3', 4,4'-Tetrachlorobiphenyl, %	3	2	≤20%
2,2', 4,5,5'-Pentachlorobiphenyl, %	2	2	≤20%
2,3,3', 4,4'-Pentachlorobiphenyl, %	2	7	≤20%
2,3', 4,4',5-Pentachlorobiphenyl, %	4	2	≤20%
3,3', 4,4',5-Pentachlorobiphenyl, %	2	8	≤20%
2,2', 3,3',4,4'-Hexachlorobiphenyl, %	5	3	≤20%
2,2', 3,4,4',5'-Hexachlorobiphenyl, %	1	2	≤20%
2,2', 4,4',5,5'-Hexachlorobiphenyl, %	2	5	≤20%
3,3', 4,4',5,5'-Hexachlorobiphenyl, %	2	7	≤20%
2,2', 3,3',4,4',5-Heptachlorobiphenyl, %	2	9	≤20%
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, %	6	4	≤20%
2,2', 3,4',5,5',6-Heptachlorobiphenyl, %	8	8	≤20%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33628C

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33628C
Date of Issue:	2020-06-24
Date Received:	2020-06-10
Date Tested:	2020-06-10
Date Completed:	2020-06-24
Page:	1 of 1

ATTN: **Mr. N.P. Shum**

QC report:

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Tributyltin, μg/L	<0.005	<0.005	<0.005

Method QC

Parameter	MQC 1	MQC 2	Acceptance
Tributyltin, %	101	96	90-110%

Sample Spike

Parameter	33628-1 spk	33628-11 spk	Acceptance
Tributyltin, %	95	100	90-110%

Sample Spike Duplicate

Parameter	33628-1 spk dup	33628-11 spk dup	Acceptance
Tributyltin, %	8	3	≤15%

Remarks: 1) < = less than
2) This report is the summary of quality control data for report number 33628D.

**********END OF REPORT**********

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General Manager

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33633
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24

ATTN: **Mr. N.P. Shum**

QC report:

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Cadmium (Cd), µg/L	<0.1	<0.1	<0.1
Chromium (Cr), µg/L	<0.2	<0.2	<0.2
Copper (Cu), µg/L	<0.2	<0.2	<0.2
Mercury (Hg), µg/L	<0.2	<0.2	<0.2
Nickel (Ni), µg/L	<0.2	<0.2	<0.2
Lead (Pb), µg/L	<0.2	<0.2	<0.2
Silver (Ag), µg/L	<0.2	<0.2	<0.2
Zinc (Zn), µg/L	<0.4	<0.4	<0.4
Arsenic (As), µg/L	<0.2	<0.2	<0.2

Method QC

Parameter	MQC 1	MQC 2	Acceptance
Cadmium (Cd), %	94	101	80-120%
Chromium (Cr), %	94	93	80-120%
Copper (Cu), %	97	97	80-120%
Mercury (Hg), %	96	96	80-120%
Nickel (Ni), %	99	96	80-120%
Lead (Pb), %	102	98	80-120%
Silver (Ag), %	98	96	80-120%
Zinc (Zn), %	94	96	80-120%
Arsenic (As), %	93	94	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33633

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General Manager

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TEST REPORT

Report No.:	QC33633
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24

Sample Spike

Parameter	33633-1 spk	33633-11 spk	Acceptance
Cadmium (Cd), %	92	94	80-120%
Chromium (Cr), %	91	95	80-120%
Copper (Cu), %	95	91	80-120%
Mercury (Hg), %	93	99	80-120%
Nickel (Ni), %	100	98	80-120%
Lead (Pb), %	92	94	80-120%
Silver (Ag), %	96	93	80-120%
Zinc (Zn), %	91	90	80-120%
Arsenic (As), %	92	91	80-120%

Sample Duplicate

Parameter	33633-1 chk	33633-11 chk	Acceptance
Cadmium (Cd), %	1	N/A	RPD≤20
Chromium (Cr), %	8	4	RPD≤20
Copper (Cu), %	9	4	RPD≤20
Mercury (Hg), %	7	2	RPD≤20
Nickel (Ni), %	6	7	RPD≤20
Lead (Pb), %	8	9	RPD≤20
Silver (Ag), %	5	4	RPD≤20
Zinc (Zn), %	4	3	RPD≤20
Arsenic (As), %	3	4	RPD≤20

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33633

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33633A
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24

ATTN: **Mr. N.P. Shum**

QC report:
Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Acenaphtene, µg/kg	<2	<2	<2
Acenaphtylene, µg/kg	<2	<2	<2
Anthracene, µg/kg	<2	<2	<2
Fluorene, µg/kg	<2	<2	<2
Naphthalene, µg/kg	<2	<2	<2
Phenanthrene, µg/kg	<2	<2	<2
Benzo(a)anthracene, µg/kg	<2	<2	<2
Benzo(a)pyrene, µg/kg	<2	<2	<2
Benzo(b)fluoranthene, µg/kg	<2	<2	<2
Benzo(k)fluoranthene, µg/kg	<2	<2	<2
Benzo(g,h,i)perylene, µg/kg	<2	<2	<2
Chrysene, µg/kg	<2	<2	<2
Dibenzo(a,h)anthracene, µg/kg	<2	<2	<2
Fluoranthene, µg/kg	<2	<2	<2
Indeno(1,2,3-cd)pyrene, µg/kg	<2	<2	<2
Pyrene, µg/kg	<2	<2	<2

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 33633A and 33633B

****

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PATRICK TSE
General Manager

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TEST REPORT

Report No.:	QC33633A
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24

Method QC

Parameter	MQC 1	MQC 2	Acceptance
Acenaphtene, %	100	98	80-120%
Acenaphtylene, %	102	98	80-120%
Anthracene, %	97	102	80-120%
Fluorene, %	94	98	80-120%
Naphthalene, %	99	97	80-120%
Phenanthrene, %	102	97	80-120%
Benzo(a)anthracene, %	94	98	80-120%
Benzo(a)pyrene, %	102	97	80-120%
Benzo(b)fluoranthene, %	96	100	80-120%
Benzo(k)fluoranthene, %	95	99	80-120%
Benzo(g,h,i)perylene, %	95	91	80-120%
Chrysene, %	95	93	80-120%
Dibenzo(a,h)anthracene, %	99	94	80-120%
Fluoranthene, %	97	102	80-120%
Indeno(1,2,3-cd)pyrene, %	96	102	80-120%
Pyrene, %	101	96	80-120%

Remark: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33633A and 33633B

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TEST REPORT

Report No.:	QC33633A
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24

Sample Spike

Parameter	33633-1 spk	33633-11 spk	Acceptance
Acenaphtene, %	94	91	80-120%
Acenaphtylene, %	92	96	80-120%
Anthracene, %	92	96	80-120%
Fluorene, %	95	97	80-120%
Naphthalene, %	98	94	80-120%
Phenanthrene, %	97	99	80-120%
Benzo(a)anthracene, %	98	95	80-120%
Benzo(a)pyrene, %	90	95	80-120%
Benzo(b)fluoranthene, %	96	93	80-120%
Benzo(k)fluoranthene, %	99	95	80-120%
Benzo(g,h,i)perylene, %	91	95	80-120%
Chrysene, %	91	94	80-120%
Dibenzo(a,h)anthracene, %	100	95	80-120%
Fluoranthene, %	100	96	80-120%
Indeno(1,2,3-cd)pyrene, %	97	92	80-120%
Pyrene, %	94	90	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33633A and 33633B

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TEST REPORT

Report No.:	QC33633A
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24
Page:	4 of 4

Sample Spike Duplicate

Parameter	33633-1 spk dup	33633-11 spk dup	Acceptance
Acenaphtene, %	5	3	≤15%
Acenaphtylene, %	5	2	≤15%
Anthracene, %	2	5	≤15%
Fluorene, %	4	5	≤15%
Naphthalene, %	1	8	≤15%
Phenanthrene, %	8	11	≤15%
Benzo(a)anthracene, %	9	6	≤15%
Benzo(a)pyrene, %	5	2	≤15%
Benzo(b)fluoranthene, %	2	1	≤15%
Benzo(k)fluoranthene, %	2	11	≤15%
Benzo(g,h,i)perylene, %	1	2	≤15%
Chrysene, %	6	7	≤15%
Dibenzo(a,h)anthracene, %	6	7	≤15%
Fluoranthene, %	5	1	≤15%
Indeno(1,2,3-cd)pyrene, %	8	1	≤15%
Pyrene, %	3	4	≤15%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33633A and 33633B

**********END OF REPORT**********

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33633B
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24

ATTN: **Mr. N.P. Shum**

QC report:
Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
2,4'-Dichlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2',5-Trichlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,4,4'-Trichlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 33633C

****

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PATRICK TSE
General Manager

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TEST REPORT

Report No.:	QC33633B
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24

Method QC

Parameter	MQC 1	MQC 2	Acceptance
2,4'-Dichlorobiphenyl, %	96	91	80-120%
2,2',5-Trichlorobiphenyl, %	94	100	80-120%
2,4,4'-Trichlorobiphenyl, %	100	99	80-120%
2,2', 3,5'-Tetrachlorobiphenyl, %	97	101	80-120%
2,2', 5,5'-Tetrachlorobiphenyl, %	96	92	80-120%
2,3', 4,4'-Tetrachlorobiphenyl, %	99	99	80-120%
3,3', 4,4'-Tetrachlorobiphenyl, %	94	100	80-120%
2,2', 4,5,5'-Pentachlorobiphenyl, %	97	98	80-120%
2,3,3', 4,4'-Pentachlorobiphenyl, %	97	98	80-120%
2,3', 4,4',5-Pentachlorobiphenyl, %	101	96	80-120%
3,3', 4,4',5-Pentachlorobiphenyl, %	98	99	80-120%
2,2', 3,3',4,4'-Hexachlorobiphenyl, %	101	100	80-120%
2,2', 3,4,4',5'-Hexachlorobiphenyl, %	96	95	80-120%
2,2', 4,4',5,5'-Hexachlorobiphenyl, %	102	97	80-120%
3,3', 4,4',5,5'-Hexachlorobiphenyl, %	96	102	80-120%
2,2', 3,3',4,4',5-Heptachlorobiphenyl, %	92	92	80-120%
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, %	98	95	80-120%
2,2', 3,4',5,5',6-Heptachlorobiphenyl, %	99	94	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33633C

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TEST REPORT

Report No.:	QC33633B
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24

Sample Spike

Parameter	33633-1 spk	33633-11 spk	Acceptance
2,4'-Dichlorobiphenyl, %	102	92	80-120%
2,2',5-Trichlorobiphenyl, %	91	97	80-120%
2,4,4'-Trichlorobiphenyl, %	90	94	80-120%
2,2', 3,5'-Tetrachlorobiphenyl, %	90	91	80-120%
2,2', 5,5'-Tetrachlorobiphenyl, %	93	95	80-120%
2,3', 4,4'-Tetrachlorobiphenyl, %	91	93	80-120%
3,3', 4,4'-Tetrachlorobiphenyl, %	93	92	80-120%
2,2', 4,5,5'-Pentachlorobiphenyl, %	94	91	80-120%
2,3,3', 4,4'-Pentachlorobiphenyl, %	100	97	80-120%
2,3', 4,4',5-Pentachlorobiphenyl, %	92	91	80-120%
3,3', 4,4',5-Pentachlorobiphenyl, %	92	95	80-120%
2,2', 3,3',4,4'-Hexachlorobiphenyl, %	93	101	80-120%
2,2', 3,4,4',5'-Hexachlorobiphenyl, %	91	99	80-120%
2,2', 4,4',5,5'-Hexachlorobiphenyl, %	95	93	80-120%
3,3', 4,4',5,5'-Hexachlorobiphenyl, %	96	94	80-120%
2,2', 3,3',4,4',5-Heptachlorobiphenyl, %	94	92	80-120%
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, %	99	92	80-120%
2,2', 3,4',5,5',6-Heptachlorobiphenyl, %	94	94	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33633C

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TEST REPORT

Report No.:	QC33633B
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24
Page:	4 of 4

Sample Spike Duplicate

Parameter	33633-1 spk dup	33633-11 spk dup	Acceptance
2,4'-Dichlorobiphenyl, %	5	9	≤20%
2,2',5-Trichlorobiphenyl, %	1	6	≤20%
2,4,4'-Trichlorobiphenyl, %	11	9	≤20%
2,2', 3,5'-Tetrachlorobiphenyl, %	2	3	≤20%
2,2', 5,5'-Tetrachlorobiphenyl, %	4	4	≤20%
2,3', 4,4'-Tetrachlorobiphenyl, %	2	3	≤20%
3,3', 4,4'-Tetrachlorobiphenyl, %	6	3	≤20%
2,2', 4,5,5'-Pentachlorobiphenyl, %	4	1	≤20%
2,3,3', 4,4'-Pentachlorobiphenyl, %	1	2	≤20%
2,3', 4,4',5-Pentachlorobiphenyl, %	10	7	≤20%
3,3', 4,4',5-Pentachlorobiphenyl, %	2	8	≤20%
2,2', 3,3',4,4'-Hexachlorobiphenyl, %	10	10	≤20%
2,2', 3,4,4',5'-Hexachlorobiphenyl, %	4	5	≤20%
2,2', 4,4',5,5'-Hexachlorobiphenyl, %	2	3	≤20%
3,3', 4,4',5,5'-Hexachlorobiphenyl, %	8	5	≤20%
2,2', 3,3',4,4',5-Heptachlorobiphenyl, %	4	6	≤20%
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, %	2	5	≤20%
2,2', 3,4',5,5',6-Heptachlorobiphenyl, %	6	9	≤20%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33633C

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33633C
Date of Issue:	2020-06-24
Date Received:	2020-06-11
Date Tested:	2020-06-11
Date Completed:	2020-06-24
Page:	1 of 1

ATTN: **Mr. N.P. Shum**

QC report:

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Tributyltin, µg/L	<0.005	<0.005	<0.005

Method QC

Parameter	MQC 1	MQC 2	Acceptance
Tributyltin, %	95	101	90-110%

Sample Spike

Parameter	33633-1 spk	33633-11 spk	Acceptance
Tributyltin, %	92	94	90-110%

Sample Spike Duplicate

Parameter	33633-1 spk dup	33633-11 spk dup	Acceptance
Tributyltin, %	6	3	≤15%

Remarks: 1) < = less than
2) This report is the summary of quality control data for report number 33633D.

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General Manager

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33638
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24

ATTN: **Mr. N.P. Shum**

QC report:

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Cadmium (Cd), µg/L	<0.1	<0.1	<0.1
Chromium (Cr), µg/L	<0.2	<0.2	<0.2
Copper (Cu), µg/L	<0.2	<0.2	<0.2
Mercury (Hg), µg/L	<0.2	<0.2	<0.2
Nickel (Ni), µg/L	<0.2	<0.2	<0.2
Lead (Pb), µg/L	<0.2	<0.2	<0.2
Silver (Ag), µg/L	<0.2	<0.2	<0.2
Zinc (Zn), µg/L	<0.4	<0.4	<0.4
Arsenic (As), µg/L	<0.2	<0.2	<0.2

Method QC

Parameter	MQC 1	MQC 2	Acceptance
Cadmium (Cd), %	95	92	80-120%
Chromium (Cr), %	101	99	80-120%
Copper (Cu), %	104	95	80-120%
Mercury (Hg), %	101	99	80-120%
Nickel (Ni), %	96	100	80-120%
Lead (Pb), %	101	100	80-120%
Silver (Ag), %	96	101	80-120%
Zinc (Zn), %	99	103	80-120%
Arsenic (As), %	99	98	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33638

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TEST REPORT

Report No.:	QC33638
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24

Sample Spike

Parameter	33638-1 spk	33638-11 spk	Acceptance
Cadmium (Cd), %	94	96	80-120%
Chromium (Cr), %	94	92	80-120%
Copper (Cu), %	91	95	80-120%
Mercury (Hg), %	94	90	80-120%
Nickel (Ni), %	100	93	80-120%
Lead (Pb), %	96	100	80-120%
Silver (Ag), %	89	91	80-120%
Zinc (Zn), %	99	94	80-120%
Arsenic (As), %	95	96	80-120%

Sample Duplicate

Parameter	33638-1 chk	33638-11 chk	Acceptance
Cadmium (Cd), %	11	N/A	RPD≤20
Chromium (Cr), %	1	2	RPD≤20
Copper (Cu), %	1	4	RPD≤20
Mercury (Hg), %	6	7	RPD≤20
Nickel (Ni), %	9	6	RPD≤20
Lead (Pb), %	2	2	RPD≤20
Silver (Ag), %	5	1	RPD≤20
Zinc (Zn), %	7	2	RPD≤20
Arsenic (As), %	1	4	RPD≤20

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33638

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33638A
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24

ATTN: **Mr. N.P. Shum**

QC report:
Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Acenaphtene, µg/kg	<2	<2	<2
Acenaphtylene, µg/kg	<2	<2	<2
Anthracene, µg/kg	<2	<2	<2
Fluorene, µg/kg	<2	<2	<2
Naphthalene, µg/kg	<2	<2	<2
Phenanthrene, µg/kg	<2	<2	<2
Benzo(a)anthracene, µg/kg	<2	<2	<2
Benzo(a)pyrene, µg/kg	<2	<2	<2
Benzo(b)fluoranthene, µg/kg	<2	<2	<2
Benzo(k)fluoranthene, µg/kg	<2	<2	<2
Benzo(g,h,i)perylene, µg/kg	<2	<2	<2
Chrysene, µg/kg	<2	<2	<2
Dibenzo(a,h)anthracene, µg/kg	<2	<2	<2
Fluoranthene, µg/kg	<2	<2	<2
Indeno(1,2,3-cd)pyrene, µg/kg	<2	<2	<2
Pyrene, µg/kg	<2	<2	<2

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 33638A and 33638B

****

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General Manager

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TEST REPORT

Report No.:	QC33638A
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24

Method QC

Parameter	MQC 1	MQC 2	Acceptance
Acenaphtene, %	101	98	80-120%
Acenaphtylene, %	93	97	80-120%
Anthracene, %	99	93	80-120%
Fluorene, %	92	92	80-120%
Naphthalene, %	99	92	80-120%
Phenanthrene, %	95	97	80-120%
Benzo(a)anthracene, %	95	104	80-120%
Benzo(a)pyrene, %	97	98	80-120%
Benzo(b)fluoranthene, %	100	96	80-120%
Benzo(k)fluoranthene, %	100	100	80-120%
Benzo(g,h,i)perylene, %	97	97	80-120%
Chrysene, %	103	98	80-120%
Dibenzo(a,h)anthracene, %	100	94	80-120%
Fluoranthene, %	99	99	80-120%
Indeno(1,2,3-cd)pyrene, %	96	96	80-120%
Pyrene, %	98	98	80-120%

Remark: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33638A and 33638B

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TEST REPORT

Report No.:	QC33638A
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24

Sample Spike

Parameter	33638-1 spk	33638-11 spk	Acceptance
Acenaphtene, %	100	96	80-120%
Acenaphtylene, %	92	97	80-120%
Anthracene, %	100	91	80-120%
Fluorene, %	94	94	80-120%
Naphthalene, %	98	97	80-120%
Phenanthrene, %	90	94	80-120%
Benzo(a)anthracene, %	95	96	80-120%
Benzo(a)pyrene, %	98	92	80-120%
Benzo(b)fluoranthene, %	95	94	80-120%
Benzo(k)fluoranthene, %	94	92	80-120%
Benzo(g,h,i)perylene, %	98	97	80-120%
Chrysene, %	94	96	80-120%
Dibenzo(a,h)anthracene, %	94	97	80-120%
Fluoranthene, %	89	91	80-120%
Indeno(1,2,3-cd)pyrene, %	91	96	80-120%
Pyrene, %	96	96	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33638A and 33638B

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TEST REPORT

Report No.:	QC33638A
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24

Sample Spike Duplicate

Parameter	33638-1 spk dup	33638-11 spk dup	Acceptance
Acenaphtene, %	4	2	≤15%
Acenaphtylene, %	6	4	≤15%
Anthracene, %	3	1	≤15%
Fluorene, %	7	10	≤15%
Naphthalene, %	2	6	≤15%
Phenanthrene, %	1	5	≤15%
Benzo(a)anthracene, %	10	3	≤15%
Benzo(a)pyrene, %	4	3	≤15%
Benzo(b)fluoranthene, %	3	6	≤15%
Benzo(k)fluoranthene, %	2	7	≤15%
Benzo(g,h,i)perylene, %	6	2	≤15%
Chrysene, %	5	9	≤15%
Dibenzo(a,h)anthracene, %	8	6	≤15%
Fluoranthene, %	4	5	≤15%
Indeno(1,2,3-cd)pyrene, %	7	7	≤15%
Pyrene, %	10	3	≤15%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33638A and 33638B

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33638B
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24

ATTN: **Mr. N.P. Shum**

QC report:
Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
2,4'-Dichlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2',5-Trichlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,4,4'-Trichlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 33638C

****

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For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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TEST REPORT

Report No.:	QC33638B
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24

Method QC

Parameter	MQC 1	MQC 2	Acceptance
2,4'-Dichlorobiphenyl, %	92	93	80-120%
2,2',5-Trichlorobiphenyl, %	97	95	80-120%
2,4,4'-Trichlorobiphenyl, %	97	99	80-120%
2,2', 3,5'-Tetrachlorobiphenyl, %	104	96	80-120%
2,2', 5,5'-Tetrachlorobiphenyl, %	100	99	80-120%
2,3', 4,4'-Tetrachlorobiphenyl, %	97	99	80-120%
3,3', 4,4'-Tetrachlorobiphenyl, %	95	94	80-120%
2,2', 4,5,5'-Pentachlorobiphenyl, %	99	97	80-120%
2,3,3', 4,4'-Pentachlorobiphenyl, %	100	101	80-120%
2,3', 4,4',5-Pentachlorobiphenyl, %	98	96	80-120%
3,3', 4,4',5-Pentachlorobiphenyl, %	97	99	80-120%
2,2', 3,3',4,4'-Hexachlorobiphenyl, %	101	99	80-120%
2,2', 3,4,4',5'-Hexachlorobiphenyl, %	98	97	80-120%
2,2', 4,4',5,5'-Hexachlorobiphenyl, %	95	94	80-120%
3,3', 4,4',5,5'-Hexachlorobiphenyl, %	96	98	80-120%
2,2', 3,3',4,4',5-Heptachlorobiphenyl, %	95	93	80-120%
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, %	102	96	80-120%
2,2', 3,4',5,5',6-Heptachlorobiphenyl, %	95	96	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33638C

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TEST REPORT

Report No.:	QC33638B
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24

Sample Spike

Parameter	33638-1 spk	33638-11 spk	Acceptance
2,4'-Dichlorobiphenyl, %	92	91	80-120%
2,2',5-Trichlorobiphenyl, %	93	101	80-120%
2,4,4'-Trichlorobiphenyl, %	96	95	80-120%
2,2', 3,5'-Tetrachlorobiphenyl, %	89	88	80-120%
2,2', 5,5'-Tetrachlorobiphenyl, %	95	96	80-120%
2,3', 4,4'-Tetrachlorobiphenyl, %	91	92	80-120%
3,3', 4,4'-Tetrachlorobiphenyl, %	94	97	80-120%
2,2', 4,5,5'-Pentachlorobiphenyl, %	93	97	80-120%
2,3,3', 4,4'-Pentachlorobiphenyl, %	95	98	80-120%
2,3', 4,4',5-Pentachlorobiphenyl, %	91	95	80-120%
3,3', 4,4',5-Pentachlorobiphenyl, %	94	94	80-120%
2,2', 3,3',4,4'-Hexachlorobiphenyl, %	94	97	80-120%
2,2', 3,4,4',5'-Hexachlorobiphenyl, %	95	99	80-120%
2,2', 4,4',5,5'-Hexachlorobiphenyl, %	100	95	80-120%
3,3', 4,4',5,5'-Hexachlorobiphenyl, %	100	91	80-120%
2,2', 3,3',4,4',5-Heptachlorobiphenyl, %	95	96	80-120%
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, %	96	93	80-120%
2,2', 3,4',5,5',6-Heptachlorobiphenyl, %	90	92	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33638C

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TEST REPORT

Report No.:	QC33638B
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24

Sample Spike Duplicate

Parameter	33638-1 spk dup	33638-11 spk dup	Acceptance
2,4'-Dichlorobiphenyl, %	6	5	≤20%
2,2',5-Trichlorobiphenyl, %	1	4	≤20%
2,4,4'-Trichlorobiphenyl, %	2	1	≤20%
2,2', 3,5'-Tetrachlorobiphenyl, %	7	3	≤20%
2,2', 5,5'-Tetrachlorobiphenyl, %	1	3	≤20%
2,3', 4,4'-Tetrachlorobiphenyl, %	2	7	≤20%
3,3', 4,4'-Tetrachlorobiphenyl, %	11	5	≤20%
2,2', 4,5,5'-Pentachlorobiphenyl, %	7	11	≤20%
2,3,3', 4,4'-Pentachlorobiphenyl, %	3	8	≤20%
2,3', 4,4',5-Pentachlorobiphenyl, %	3	5	≤20%
3,3', 4,4',5-Pentachlorobiphenyl, %	2	4	≤20%
2,2', 3,3',4,4'-Hexachlorobiphenyl, %	1	2	≤20%
2,2', 3,4,4',5'-Hexachlorobiphenyl, %	7	4	≤20%
2,2', 4,4',5,5'-Hexachlorobiphenyl, %	4	8	≤20%
3,3', 4,4',5,5'-Hexachlorobiphenyl, %	7	7	≤20%
2,2', 3,3',4,4',5-Heptachlorobiphenyl, %	3	1	≤20%
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, %	4	8	≤20%
2,2', 3,4',5,5',6-Heptachlorobiphenyl, %	1	7	≤20%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33638C

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33638C
Date of Issue:	2020-06-24
Date Received:	2020-06-12
Date Tested:	2020-06-12
Date Completed:	2020-06-24
Page:	1 of 1

ATTN: **Mr. N.P. Shum**

QC report:

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Tributyltin, μg/L	<0.005	<0.005	<0.005

Method QC

Parameter	MQC 1	MQC 2	Acceptance
Tributyltin, %	97	95	90-110%

Sample Spike

Parameter	33638-1 spk	33638-11 spk	Acceptance
Tributyltin, %	101	94	90-110%

Sample Spike Duplicate

Parameter	33638-1 spk dup	33638-11 spk dup	Acceptance
Tributyltin, %	8	1	≤15%

Remarks: 1) < = less than
2) This report is the summary of quality control data for report number 33638D.

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General Manager

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33652
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-30

ATTN: **Mr. N.P. Shum**

Page: 1 of 2

QC report:

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Cadmium (Cd), µg/L	<0.1	<0.1	<0.1
Chromium (Cr), µg/L	<0.2	<0.2	<0.2
Copper (Cu), µg/L	<0.2	<0.2	<0.2
Mercury (Hg), µg/L	<0.2	<0.2	<0.2
Nickel (Ni), µg/L	<0.2	<0.2	<0.2
Lead (Pb), µg/L	<0.2	<0.2	<0.2
Silver (Ag), µg/L	<0.2	<0.2	<0.2
Zinc (Zn), µg/L	<0.4	<0.4	<0.4
Arsenic (As), µg/L	<0.2	<0.2	<0.2

Method QC

Parameter	MQC 1	MQC 2	Acceptance
Cadmium (Cd), %	98	95	80-120%
Chromium (Cr), %	97	103	80-120%
Copper (Cu), %	95	99	80-120%
Mercury (Hg), %	98	95	80-120%
Nickel (Ni), %	102	99	80-120%
Lead (Pb), %	96	104	80-120%
Silver (Ag), %	94	102	80-120%
Zinc (Zn), %	94	93	80-120%
Arsenic (As), %	98	102	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33652

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General Manager

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TEST REPORT

Report No.:	QC33652
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-30

Sample Spike

Parameter	33652-1 spk	33652-11 spk	Acceptance
Cadmium (Cd), %	93	93	80-120%
Chromium (Cr), %	95	93	80-120%
Copper (Cu), %	96	95	80-120%
Mercury (Hg), %	89	90	80-120%
Nickel (Ni), %	92	89	80-120%
Lead (Pb), %	98	98	80-120%
Silver (Ag), %	98	93	80-120%
Zinc (Zn), %	94	95	80-120%
Arsenic (As), %	93	94	80-120%

Sample Duplicate

Parameter	33652-1 chk	33652-11 chk	Acceptance
Cadmium (Cd), %	8	3	RPD≤20
Chromium (Cr), %	4	1	RPD≤20
Copper (Cu), %	9	2	RPD≤20
Mercury (Hg), %	6	5	RPD≤20
Nickel (Ni), %	9	5	RPD≤20
Lead (Pb), %	4	10	RPD≤20
Silver (Ag), %	6	4	RPD≤20
Zinc (Zn), %	10	4	RPD≤20
Arsenic (As), %	6	3	RPD≤20

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33652

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33652A
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-30

ATTN: **Mr. N.P. Shum**

QC report:
Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Acenaphtene, µg/kg	<2	<2	<2
Acenaphtylene, µg/kg	<2	<2	<2
Anthracene, µg/kg	<2	<2	<2
Fluorene, µg/kg	<2	<2	<2
Naphthalene, µg/kg	<2	<2	<2
Phenanthrene, µg/kg	<2	<2	<2
Benzo(a)anthracene, µg/kg	<2	<2	<2
Benzo(a)pyrene, µg/kg	<2	<2	<2
Benzo(b)fluoranthene, µg/kg	<2	<2	<2
Benzo(k)fluoranthene, µg/kg	<2	<2	<2
Benzo(g,h,i)perylene, µg/kg	<2	<2	<2
Chrysene, µg/kg	<2	<2	<2
Dibenzo(a,h)anthracene, µg/kg	<2	<2	<2
Fluoranthene, µg/kg	<2	<2	<2
Indeno(1,2,3-cd)pyrene, µg/kg	<2	<2	<2
Pyrene, µg/kg	<2	<2	<2

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 33652A and 33652B

****

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General Manager

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TEST REPORT

Report No.:	QC33652A
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-30

Method QC

Parameter	MQC 1	MQC 2	Acceptance
Acenaphtene, %	101	92	80-120%
Acenaphtylene, %	100	103	80-120%
Anthracene, %	94	98	80-120%
Fluorene, %	93	100	80-120%
Naphthalene, %	98	94	80-120%
Phenanthrene, %	95	98	80-120%
Benzo(a)anthracene, %	94	105	80-120%
Benzo(a)pyrene, %	94	96	80-120%
Benzo(b)fluoranthene, %	96	96	80-120%
Benzo(k)fluoranthene, %	94	99	80-120%
Benzo(g,h,i)perylene, %	102	95	80-120%
Chrysene, %	98	98	80-120%
Dibenzo(a,h)anthracene, %	95	101	80-120%
Fluoranthene, %	91	101	80-120%
Indeno(1,2,3-cd)pyrene, %	101	101	80-120%
Pyrene, %	99	101	80-120%

Remark: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33652A and 33652B

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TEST REPORT

Report No.:	QC33652A
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-30

Sample Spike

Parameter	33652-1 spk	33652-11 spk	Acceptance
Acenaphtene, %	92	98	80-120%
Acenaphtylene, %	95	95	80-120%
Anthracene, %	93	89	80-120%
Fluorene, %	92	98	80-120%
Naphthalene, %	95	93	80-120%
Phenanthrene, %	102	100	80-120%
Benzo(a)anthracene, %	95	90	80-120%
Benzo(a)pyrene, %	93	98	80-120%
Benzo(b)fluoranthene, %	95	88	80-120%
Benzo(k)fluoranthene, %	93	94	80-120%
Benzo(g,h,i)perylene, %	94	94	80-120%
Chrysene, %	95	93	80-120%
Dibenzo(a,h)anthracene, %	101	99	80-120%
Fluoranthene, %	98	92	80-120%
Indeno(1,2,3-cd)pyrene, %	96	96	80-120%
Pyrene, %	95	91	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33652A and 33652B

****

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TEST REPORT

Report No.:	QC33652A
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-30

Sample Spike Duplicate

Parameter	33652-1 spk dup	33652-11 spk dup	Acceptance
Acenaphtene, %	6	1	≤15%
Acenaphtylene, %	7	1	≤15%
Anthracene, %	3	3	≤15%
Fluorene, %	5	10	≤15%
Naphthalene, %	2	2	≤15%
Phenanthrene, %	4	8	≤15%
Benzo(a)anthracene, %	2	2	≤15%
Benzo(a)pyrene, %	5	4	≤15%
Benzo(b)fluoranthene, %	3	1	≤15%
Benzo(k)fluoranthene, %	4	4	≤15%
Benzo(g,h,i)perylene, %	6	3	≤15%
Chrysene, %	3	1	≤15%
Dibenzo(a,h)anthracene, %	2	2	≤15%
Fluoranthene, %	7	2	≤15%
Indeno(1,2,3-cd)pyrene, %	5	10	≤15%
Pyrene, %	3	6	≤15%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33652A and 33652B

**********END OF REPORT**********

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33652B
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-30

ATTN: **Mr. N.P. Shum**

QC report:
Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
2,4'-Dichlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2',5-Trichlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,4,4'-Trichlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 33652C

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General Manager

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TEST REPORT

Report No.:	QC33652B
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-30

Method QC

Parameter	MQC 1	MQC 2	Acceptance
2,4'-Dichlorobiphenyl, %	96	103	80-120%
2,2',5-Trichlorobiphenyl, %	104	98	80-120%
2,4,4'-Trichlorobiphenyl, %	96	102	80-120%
2,2', 3,5'-Tetrachlorobiphenyl, %	100	95	80-120%
2,2', 5,5'-Tetrachlorobiphenyl, %	103	98	80-120%
2,3', 4,4'-Tetrachlorobiphenyl, %	93	96	80-120%
3,3', 4,4'-Tetrachlorobiphenyl, %	100	97	80-120%
2,2', 4,5,5'-Pentachlorobiphenyl, %	98	102	80-120%
2,3,3', 4,4'-Pentachlorobiphenyl, %	100	101	80-120%
2,3', 4,4',5-Pentachlorobiphenyl, %	102	92	80-120%
3,3', 4,4',5-Pentachlorobiphenyl, %	96	95	80-120%
2,2', 3,3',4,4'-Hexachlorobiphenyl, %	96	104	80-120%
2,2', 3,4,4',5'-Hexachlorobiphenyl, %	95	95	80-120%
2,2', 4,4',5,5'-Hexachlorobiphenyl, %	96	97	80-120%
3,3', 4,4',5,5'-Hexachlorobiphenyl, %	95	93	80-120%
2,2', 3,3',4,4',5-Heptachlorobiphenyl, %	96	96	80-120%
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, %	94	99	80-120%
2,2', 3,4',5,5',6-Heptachlorobiphenyl, %	98	97	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33652C

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TEST REPORT

Report No.:	QC33652B
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-30

Sample Spike

Parameter	33652-1 spk	33652-11 spk	Acceptance
2,4'-Dichlorobiphenyl, %	97	99	80-120%
2,2',5-Trichlorobiphenyl, %	95	96	80-120%
2,4,4'-Trichlorobiphenyl, %	101	98	80-120%
2,2', 3,5'-Tetrachlorobiphenyl, %	92	94	80-120%
2,2', 5,5'-Tetrachlorobiphenyl, %	97	92	80-120%
2,3', 4,4'-Tetrachlorobiphenyl, %	92	101	80-120%
3,3', 4,4'-Tetrachlorobiphenyl, %	96	100	80-120%
2,2', 4,5,5'-Pentachlorobiphenyl, %	91	101	80-120%
2,3,3', 4,4'-Pentachlorobiphenyl, %	89	99	80-120%
2,3', 4,4',5-Pentachlorobiphenyl, %	90	93	80-120%
3,3', 4,4',5-Pentachlorobiphenyl, %	93	93	80-120%
2,2', 3,3',4,4'-Hexachlorobiphenyl, %	98	98	80-120%
2,2', 3,4,4',5'-Hexachlorobiphenyl, %	92	92	80-120%
2,2', 4,4',5,5'-Hexachlorobiphenyl, %	96	94	80-120%
3,3', 4,4',5,5'-Hexachlorobiphenyl, %	94	96	80-120%
2,2', 3,3',4,4',5-Heptachlorobiphenyl, %	91	93	80-120%
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, %	90	96	80-120%
2,2', 3,4',5,5',6-Heptachlorobiphenyl, %	97	94	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33652C

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TEST REPORT

Report No.:	QC33652B
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-30

Sample Spike Duplicate

Parameter	33652-1 spk dup	33652-11 spk dup	Acceptance
2,4'-Dichlorobiphenyl, %	3	3	≤20%
2,2',5-Trichlorobiphenyl, %	6	1	≤20%
2,4,4'-Trichlorobiphenyl, %	2	10	≤20%
2,2', 3,5'-Tetrachlorobiphenyl, %	4	3	≤20%
2,2', 5,5'-Tetrachlorobiphenyl, %	10	10	≤20%
2,3', 4,4'-Tetrachlorobiphenyl, %	7	1	≤20%
3,3', 4,4'-Tetrachlorobiphenyl, %	5	7	≤20%
2,2', 4,5,5'-Pentachlorobiphenyl, %	4	1	≤20%
2,3,3', 4,4'-Pentachlorobiphenyl, %	5	5	≤20%
2,3', 4,4',5-Pentachlorobiphenyl, %	2	3	≤20%
3,3', 4,4',5-Pentachlorobiphenyl, %	4	3	≤20%
2,2', 3,3',4,4'-Hexachlorobiphenyl, %	8	5	≤20%
2,2', 3,4,4',5'-Hexachlorobiphenyl, %	3	7	≤20%
2,2', 4,4',5,5'-Hexachlorobiphenyl, %	3	7	≤20%
3,3', 4,4',5,5'-Hexachlorobiphenyl, %	2	3	≤20%
2,2', 3,3',4,4',5-Heptachlorobiphenyl, %	6	8	≤20%
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, %	4	7	≤20%
2,2', 3,4',5,5',6-Heptachlorobiphenyl, %	4	8	≤20%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33652C

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33652C
Date of Issue:	2020-06-30
Date Received:	2020-06-17
Date Tested:	2020-06-17
Date Completed:	2020-06-30
Page:	1 of 1

ATTN: **Mr. N.P. Shum**

QC report:

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Tributyltin, µg/L	<0.005	<0.005	<0.005

Method QC

Parameter	MQC 1	MQC 2	Acceptance
Tributyltin, %	101	98	90-110%

Sample Spike

Parameter	33652-1 spk	33652-11 spk	Acceptance
Tributyltin, %	91	93	90-110%

Sample Spike Duplicate

Parameter	33652-1 spk dup	33652-11 spk dup	Acceptance
Tributyltin, %	1	3	≤15%

Remarks: 1) < = less than
2) This report is the summary of quality control data for report number 33652D.

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General Manager

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33657
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-30
Page:	1 of 2

ATTN: **Mr. N.P. Shum**

QC report:

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Cadmium (Cd), µg/L	<0.1	<0.1	<0.1
Chromium (Cr), µg/L	<0.2	<0.2	<0.2
Copper (Cu), µg/L	<0.2	<0.2	<0.2
Mercury (Hg), µg/L	<0.2	<0.2	<0.2
Nickel (Ni), µg/L	<0.2	<0.2	<0.2
Lead (Pb), µg/L	<0.2	<0.2	<0.2
Silver (Ag), µg/L	<0.2	<0.2	<0.2
Zinc (Zn), µg/L	<0.4	<0.4	<0.4
Arsenic (As), µg/L	<0.2	<0.2	<0.2

Method QC

Parameter	MQC 1	MQC 2	Acceptance
Cadmium (Cd), %	97	97	80-120%
Chromium (Cr), %	100	105	80-120%
Copper (Cu), %	92	96	80-120%
Mercury (Hg), %	98	95	80-120%
Nickel (Ni), %	98	92	80-120%
Lead (Pb), %	93	97	80-120%
Silver (Ag), %	99	95	80-120%
Zinc (Zn), %	101	95	80-120%
Arsenic (As), %	96	101	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

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TEST REPORT

Report No.:	QC33657
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-30

Sample Spike

Parameter	33657-1 spk	33657-11 spk	Acceptance
Cadmium (Cd), %	94	95	80-120%
Chromium (Cr), %	96	97	80-120%
Copper (Cu), %	93	93	80-120%
Mercury (Hg), %	94	95	80-120%
Nickel (Ni), %	96	92	80-120%
Lead (Pb), %	99	90	80-120%
Silver (Ag), %	95	95	80-120%
Zinc (Zn), %	95	95	80-120%
Arsenic (As), %	99	97	80-120%

Sample Duplicate

Parameter	33657-1 chk	33657-11 chk	Acceptance
Cadmium (Cd), %	N/A	9	RPD≤20
Chromium (Cr), %	9	2	RPD≤20
Copper (Cu), %	6	3	RPD≤20
Mercury (Hg), %	8	7	RPD≤20
Nickel (Ni), %	2	2	RPD≤20
Lead (Pb), %	1	7	RPD≤20
Silver (Ag), %	3	6	RPD≤20
Zinc (Zn), %	5	1	RPD≤20
Arsenic (As), %	4	7	RPD≤20

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33657

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33657A
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-30

ATTN: **Mr. N.P. Shum**

QC report:
Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Acenaphtene, µg/kg	<2	<2	<2
Acenaphtylene, µg/kg	<2	<2	<2
Anthracene, µg/kg	<2	<2	<2
Fluorene, µg/kg	<2	<2	<2
Naphthalene, µg/kg	<2	<2	<2
Phenanthrene, µg/kg	<2	<2	<2
Benzo(a)anthracene, µg/kg	<2	<2	<2
Benzo(a)pyrene, µg/kg	<2	<2	<2
Benzo(b)fluoranthene, µg/kg	<2	<2	<2
Benzo(k)fluoranthene, µg/kg	<2	<2	<2
Benzo(g,h,i)perylene, µg/kg	<2	<2	<2
Chrysene, µg/kg	<2	<2	<2
Dibenzo(a,h)anthracene, µg/kg	<2	<2	<2
Fluoranthene, µg/kg	<2	<2	<2
Indeno(1,2,3-cd)pyrene, µg/kg	<2	<2	<2
Pyrene, µg/kg	<2	<2	<2

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33657A and 33657B

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TEST REPORT

Report No.:	QC33657A
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-30

Method QC

Parameter	MQC 1	MQC 2	Acceptance
Acenaphtene, %	100	95	80-120%
Acenaphtylene, %	93	98	80-120%
Anthracene, %	96	96	80-120%
Fluorene, %	93	100	80-120%
Naphthalene, %	91	103	80-120%
Phenanthrene, %	92	102	80-120%
Benzo(a)anthracene, %	105	99	80-120%
Benzo(a)pyrene, %	100	98	80-120%
Benzo(b)fluoranthene, %	98	99	80-120%
Benzo(k)fluoranthene, %	93	97	80-120%
Benzo(g,h,i)perylene, %	98	96	80-120%
Chrysene, %	104	99	80-120%
Dibenzo(a,h)anthracene, %	101	99	80-120%
Fluoranthene, %	97	96	80-120%
Indeno(1,2,3-cd)pyrene, %	100	96	80-120%
Pyrene, %	95	98	80-120%

Remark: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33657A and 33657B

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TEST REPORT

Report No.:	QC33657A
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-30

Sample Spike

Parameter	33657-1 spk	33657-11 spk	Acceptance
Acenaphtene, %	95	99	80-120%
Acenaphtylene, %	94	96	80-120%
Anthracene, %	96	93	80-120%
Fluorene, %	92	99	80-120%
Naphthalene, %	97	95	80-120%
Phenanthrene, %	98	95	80-120%
Benzo(a)anthracene, %	95	98	80-120%
Benzo(a)pyrene, %	99	94	80-120%
Benzo(b)fluoranthene, %	88	95	80-120%
Benzo(k)fluoranthene, %	94	94	80-120%
Benzo(g,h,i)perylene, %	92	89	80-120%
Chrysene, %	94	93	80-120%
Dibenzo(a,h)anthracene, %	91	98	80-120%
Fluoranthene, %	96	88	80-120%
Indeno(1,2,3-cd)pyrene, %	93	100	80-120%
Pyrene, %	95	94	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33657A and 33657B

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TEST REPORT

Report No.:	QC33657A
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-30

Sample Spike Duplicate

Parameter	33657-1 spk dup	33657-11 spk dup	Acceptance
Acenaphtene, %	3	8	≤15%
Acenaphtylene, %	4	4	≤15%
Anthracene, %	2	3	≤15%
Fluorene, %	5	1	≤15%
Naphthalene, %	10	2	≤15%
Phenanthrene, %	6	4	≤15%
Benzo(a)anthracene, %	5	8	≤15%
Benzo(a)pyrene, %	2	1	≤15%
Benzo(b)fluoranthene, %	6	3	≤15%
Benzo(k)fluoranthene, %	3	6	≤15%
Benzo(g,h,i)perylene, %	3	6	≤15%
Chrysene, %	7	8	≤15%
Dibenzo(a,h)anthracene, %	4	5	≤15%
Fluoranthene, %	1	3	≤15%
Indeno(1,2,3-cd)pyrene, %	6	4	≤15%
Pyrene, %	7	4	≤15%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33657A and 33657B

**********END OF REPORT**********

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33657B
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-30

ATTN: **Mr. N.P. Shum**

QC report:
Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
2,4'-Dichlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2',5-Trichlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,4,4'-Trichlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 33657C

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General Manager

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TEST REPORT

Report No.:	QC33657B
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-30

Method QC

Parameter	MQC 1	MQC 2	Acceptance
2,4'-Dichlorobiphenyl, %	95	95	80-120%
2,2',5-Trichlorobiphenyl, %	103	94	80-120%
2,4,4'-Trichlorobiphenyl, %	93	96	80-120%
2,2', 3,5'-Tetrachlorobiphenyl, %	103	102	80-120%
2,2', 5,5'-Tetrachlorobiphenyl, %	96	98	80-120%
2,3', 4,4'-Tetrachlorobiphenyl, %	97	99	80-120%
3,3', 4,4'-Tetrachlorobiphenyl, %	96	99	80-120%
2,2', 4,5,5'-Pentachlorobiphenyl, %	93	99	80-120%
2,3,3', 4,4'-Pentachlorobiphenyl, %	97	95	80-120%
2,3', 4,4',5-Pentachlorobiphenyl, %	99	96	80-120%
3,3', 4,4',5-Pentachlorobiphenyl, %	95	97	80-120%
2,2', 3,3',4,4'-Hexachlorobiphenyl, %	102	98	80-120%
2,2', 3,4,4',5'-Hexachlorobiphenyl, %	97	100	80-120%
2,2', 4,4',5,5'-Hexachlorobiphenyl, %	92	98	80-120%
3,3', 4,4',5,5'-Hexachlorobiphenyl, %	101	97	80-120%
2,2', 3,3',4,4',5-Heptachlorobiphenyl, %	97	103	80-120%
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, %	97	97	80-120%
2,2', 3,4',5,5',6-Heptachlorobiphenyl, %	98	100	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33657C

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TEST REPORT

Report No.:	QC33657B
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-30

Sample Spike

Parameter	33657-1 spk	33657-11 spk	Acceptance
2,4'-Dichlorobiphenyl, %	92	97	80-120%
2,2',5-Trichlorobiphenyl, %	96	94	80-120%
2,4,4'-Trichlorobiphenyl, %	94	98	80-120%
2,2', 3,5'-Tetrachlorobiphenyl, %	97	95	80-120%
2,2', 5,5'-Tetrachlorobiphenyl, %	93	97	80-120%
2,3', 4,4'-Tetrachlorobiphenyl, %	94	88	80-120%
3,3', 4,4'-Tetrachlorobiphenyl, %	95	92	80-120%
2,2', 4,5,5'-Pentachlorobiphenyl, %	91	90	80-120%
2,3,3', 4,4'-Pentachlorobiphenyl, %	99	97	80-120%
2,3', 4,4',5-Pentachlorobiphenyl, %	97	92	80-120%
3,3', 4,4',5-Pentachlorobiphenyl, %	99	99	80-120%
2,2', 3,3',4,4'-Hexachlorobiphenyl, %	99	95	80-120%
2,2', 3,4,4',5'-Hexachlorobiphenyl, %	92	97	80-120%
2,2', 4,4',5,5'-Hexachlorobiphenyl, %	98	94	80-120%
3,3', 4,4',5,5'-Hexachlorobiphenyl, %	94	90	80-120%
2,2', 3,3',4,4',5-Heptachlorobiphenyl, %	99	99	80-120%
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, %	94	98	80-120%
2,2', 3,4',5,5',6-Heptachlorobiphenyl, %	88	92	80-120%

Remarks: 1) <= less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33657C

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TEST REPORT

Report No.:	QC33657B
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-30
Page:	4 of 4

Sample Spike Duplicate

Parameter	33657-1 spk dup	33657-11 spk dup	Acceptance
2,4'-Dichlorobiphenyl, %	2	1	≤20%
2,2',5-Trichlorobiphenyl, %	5	7	≤20%
2,4,4'-Trichlorobiphenyl, %	3	5	≤20%
2,2', 3,5'-Tetrachlorobiphenyl, %	3	9	≤20%
2,2', 5,5'-Tetrachlorobiphenyl, %	4	5	≤20%
2,3', 4,4'-Tetrachlorobiphenyl, %	5	7	≤20%
3,3', 4,4'-Tetrachlorobiphenyl, %	3	3	≤20%
2,2', 4,5,5'-Pentachlorobiphenyl, %	2	4	≤20%
2,3,3', 4,4'-Pentachlorobiphenyl, %	4	2	≤20%
2,3', 4,4',5-Pentachlorobiphenyl, %	3	7	≤20%
3,3', 4,4',5-Pentachlorobiphenyl, %	11	7	≤20%
2,2', 3,3',4,4'-Hexachlorobiphenyl, %	7	5	≤20%
2,2', 3,4,4',5'-Hexachlorobiphenyl, %	1	2	≤20%
2,2', 4,4',5,5'-Hexachlorobiphenyl, %	1	3	≤20%
3,3', 4,4',5,5'-Hexachlorobiphenyl, %	3	7	≤20%
2,2', 3,3',4,4',5-Heptachlorobiphenyl, %	2	6	≤20%
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, %	4	2	≤20%
2,2', 3,4',5,5',6-Heptachlorobiphenyl, %	4	4	≤20%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33657C

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33657C
Date of Issue:	2020-06-30
Date Received:	2020-06-18
Date Tested:	2020-06-18
Date Completed:	2020-06-30
Page:	1 of 1

ATTN: **Mr. N.P. Shum**

QC report:

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Tributyltin, μg/L	<0.005	<0.005	<0.005

Method QC

Parameter	MQC 1	MQC 2	Acceptance
Tributyltin, %	104	100	90-110%

Sample Spike

Parameter	33657-1 spk	33657-11 spk	Acceptance
Tributyltin, %	96	99	90-110%

Sample Spike Duplicate

Parameter	33657-1 spk dup	33657-11 spk dup	Acceptance
Tributyltin, %	6	5	≤15%

Remarks: 1) < = less than
2) This report is the summary of quality control data for report number 33657D.

**********END OF REPORT**********

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General Manager

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33663
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30

ATTN: **Mr. N.P. Shum**

QC report:

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Cadmium (Cd), μg/L	<0.1	<0.1	<0.1
Chromium (Cr), μg/L	<0.2	<0.2	<0.2
Copper (Cu), μg/L	<0.2	<0.2	<0.2
Mercury (Hg), μg/L	<0.2	<0.2	<0.2
Nickel (Ni), μg/L	<0.2	<0.2	<0.2
Lead (Pb), μg/L	<0.2	<0.2	<0.2
Silver (Ag), μg/L	<0.2	<0.2	<0.2
Zinc (Zn), μg/L	<0.4	<0.4	<0.4
Arsenic (As), μg/L	<0.2	<0.2	<0.2

Method QC

Parameter	MQC 1	MQC 2	Acceptance
Cadmium (Cd), %	94	101	80-120%
Chromium (Cr), %	99	96	80-120%
Copper (Cu), %	97	98	80-120%
Mercury (Hg), %	98	97	80-120%
Nickel (Ni), %	104	100	80-120%
Lead (Pb), %	103	103	80-120%
Silver (Ag), %	102	92	80-120%
Zinc (Zn), %	94	100	80-120%
Arsenic (As), %	102	94	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33663

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General Manager

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TEST REPORT

Report No.:	QC33663
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30

Sample Spike

Parameter	33663-1 spk	33663-11 spk	Acceptance
Cadmium (Cd), %	88	99	80-120%
Chromium (Cr), %	99	90	80-120%
Copper (Cu), %	98	94	80-120%
Mercury (Hg), %	91	98	80-120%
Nickel (Ni), %	94	101	80-120%
Lead (Pb), %	99	94	80-120%
Silver (Ag), %	97	95	80-120%
Zinc (Zn), %	93	92	80-120%
Arsenic (As), %	94	99	80-120%

Sample Duplicate

Parameter	33663-1 chk	33663-11 chk	Acceptance
Cadmium (Cd), %	10	N/A	RPD≤20
Chromium (Cr), %	4	10	RPD≤20
Copper (Cu), %	12	4	RPD≤20
Mercury (Hg), %	9	9	RPD≤20
Nickel (Ni), %	3	2	RPD≤20
Lead (Pb), %	10	6	RPD≤20
Silver (Ag), %	3	3	RPD≤20
Zinc (Zn), %	3	8	RPD≤20
Arsenic (As), %	10	7	RPD≤20

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33663

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33663A
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30

ATTN: **Mr. N.P. Shum**

QC report:
Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Acenaphtene, µg/kg	<2	<2	<2
Acenaphtylene, µg/kg	<2	<2	<2
Anthracene, µg/kg	<2	<2	<2
Fluorene, µg/kg	<2	<2	<2
Naphthalene, µg/kg	<2	<2	<2
Phenanthrene, µg/kg	<2	<2	<2
Benzo(a)anthracene, µg/kg	<2	<2	<2
Benzo(a)pyrene, µg/kg	<2	<2	<2
Benzo(b)fluoranthene, µg/kg	<2	<2	<2
Benzo(k)fluoranthene, µg/kg	<2	<2	<2
Benzo(g,h,i)perylene, µg/kg	<2	<2	<2
Chrysene, µg/kg	<2	<2	<2
Dibenzo(a,h)anthracene, µg/kg	<2	<2	<2
Fluoranthene, µg/kg	<2	<2	<2
Indeno(1,2,3-cd)pyrene, µg/kg	<2	<2	<2
Pyrene, µg/kg	<2	<2	<2

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 33663A and 33663B

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General Manager

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TEST REPORT

Report No.:	QC33663A
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30

Method QC

Parameter	MQC 1	MQC 2	Acceptance
Acenaphtene, %	97	102	80-120%
Acenaphtylene, %	103	101	80-120%
Anthracene, %	95	102	80-120%
Fluorene, %	98	98	80-120%
Naphthalene, %	99	95	80-120%
Phenanthrene, %	98	93	80-120%
Benzo(a)anthracene, %	97	103	80-120%
Benzo(a)pyrene, %	97	102	80-120%
Benzo(b)fluoranthene, %	98	96	80-120%
Benzo(k)fluoranthene, %	94	92	80-120%
Benzo(g,h,i)perylene, %	102	97	80-120%
Chrysene, %	97	101	80-120%
Dibenzo(a,h)anthracene, %	102	100	80-120%
Fluoranthene, %	92	94	80-120%
Indeno(1,2,3-cd)pyrene, %	99	96	80-120%
Pyrene, %	97	97	80-120%

Remark: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33663A and 33663B

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TEST REPORT

Report No.:	QC33663A
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30

Sample Spike

Parameter	33663-1 spk	33663-11 spk	Acceptance
Acenaphtene, %	98	91	80-120%
Acenaphtylene, %	94	92	80-120%
Anthracene, %	96	98	80-120%
Fluorene, %	96	98	80-120%
Naphthalene, %	93	97	80-120%
Phenanthrene, %	95	95	80-120%
Benzo(a)anthracene, %	101	95	80-120%
Benzo(a)pyrene, %	91	97	80-120%
Benzo(b)fluoranthene, %	93	96	80-120%
Benzo(k)fluoranthene, %	94	91	80-120%
Benzo(g,h,i)perylene, %	94	91	80-120%
Chrysene, %	97	98	80-120%
Dibenzo(a,h)anthracene, %	94	90	80-120%
Fluoranthene, %	97	93	80-120%
Indeno(1,2,3-cd)pyrene, %	98	96	80-120%
Pyrene, %	91	96	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33663A and 33663B

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TEST REPORT

Report No.:	QC33663A
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30

Sample Spike Duplicate

Parameter	33663-1 spk dup	33663-11 spk dup	Acceptance
Acenaphtene, %	4	4	≤15%
Acenaphtylene, %	9	7	≤15%
Anthracene, %	6	2	≤15%
Fluorene, %	3	2	≤15%
Naphthalene, %	2	8	≤15%
Phenanthrene, %	10	5	≤15%
Benzo(a)anthracene, %	7	10	≤15%
Benzo(a)pyrene, %	5	7	≤15%
Benzo(b)fluoranthene, %	7	4	≤15%
Benzo(k)fluoranthene, %	7	3	≤15%
Benzo(g,h,i)perylene, %	5	2	≤15%
Chrysene, %	2	3	≤15%
Dibenzo(a,h)anthracene, %	6	3	≤15%
Fluoranthene, %	3	5	≤15%
Indeno(1,2,3-cd)pyrene, %	8	3	≤15%
Pyrene, %	6	6	≤15%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33663A and 33663B

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33663B
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30

ATTN: **Mr. N.P. Shum**

QC report:
Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
2,4'-Dichlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2',5-Trichlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,4,4'-Trichlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4
2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<0.4	<0.4	<0.4

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 33663C

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General Manager

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TEST REPORT

Report No.:	QC33663B
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30

Method QC

Parameter	MQC 1	MQC 2	Acceptance
2,4'-Dichlorobiphenyl, %	94	100	80-120%
2,2',5-Trichlorobiphenyl, %	102	104	80-120%
2,4,4'-Trichlorobiphenyl, %	95	96	80-120%
2,2', 3,5'-Tetrachlorobiphenyl, %	102	93	80-120%
2,2', 5,5'-Tetrachlorobiphenyl, %	97	98	80-120%
2,3', 4,4'-Tetrachlorobiphenyl, %	96	100	80-120%
3,3', 4,4'-Tetrachlorobiphenyl, %	101	100	80-120%
2,2', 4,5,5'-Pentachlorobiphenyl, %	105	95	80-120%
2,3,3', 4,4'-Pentachlorobiphenyl, %	95	98	80-120%
2,3', 4,4',5-Pentachlorobiphenyl, %	97	99	80-120%
3,3', 4,4',5-Pentachlorobiphenyl, %	103	96	80-120%
2,2', 3,3',4,4'-Hexachlorobiphenyl, %	100	99	80-120%
2,2', 3,4,4',5'-Hexachlorobiphenyl, %	97	98	80-120%
2,2', 4,4',5,5'-Hexachlorobiphenyl, %	100	99	80-120%
3,3', 4,4',5,5'-Hexachlorobiphenyl, %	93	98	80-120%
2,2', 3,3',4,4',5-Heptachlorobiphenyl, %	95	105	80-120%
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, %	92	99	80-120%
2,2', 3,4',5,5',6-Heptachlorobiphenyl, %	103	96	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33663C

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TEST REPORT

Report No.:	QC33663B
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30

Sample Spike

Parameter	33663-1 spk	33663-11 spk	Acceptance
2,4'-Dichlorobiphenyl, %	97	91	80-120%
2,2',5-Trichlorobiphenyl, %	95	99	80-120%
2,4,4'-Trichlorobiphenyl, %	98	101	80-120%
2,2', 3,5'-Tetrachlorobiphenyl, %	97	93	80-120%
2,2', 5,5'-Tetrachlorobiphenyl, %	93	95	80-120%
2,3', 4,4'-Tetrachlorobiphenyl, %	100	100	80-120%
3,3', 4,4'-Tetrachlorobiphenyl, %	99	95	80-120%
2,2', 4,5,5'-Pentachlorobiphenyl, %	97	94	80-120%
2,3,3', 4,4'-Pentachlorobiphenyl, %	98	102	80-120%
2,3', 4,4',5-Pentachlorobiphenyl, %	94	98	80-120%
3,3', 4,4',5-Pentachlorobiphenyl, %	92	93	80-120%
2,2', 3,3',4,4'-Hexachlorobiphenyl, %	90	100	80-120%
2,2', 3,4,4',5'-Hexachlorobiphenyl, %	94	91	80-120%
2,2', 4,4',5,5'-Hexachlorobiphenyl, %	98	93	80-120%
3,3', 4,4',5,5'-Hexachlorobiphenyl, %	97	96	80-120%
2,2', 3,3',4,4',5-Heptachlorobiphenyl, %	93	96	80-120%
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, %	94	100	80-120%
2,2', 3,4',5,5',6-Heptachlorobiphenyl, %	98	94	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33663C

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TEST REPORT

Report No.:	QC33663B
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30

Sample Spike Duplicate

Parameter	33663-1 spk dup	33663-11 spk dup	Acceptance
2,4'-Dichlorobiphenyl, %	2	11	≤20%
2,2',5-Trichlorobiphenyl, %	4	4	≤20%
2,4,4'-Trichlorobiphenyl, %	5	5	≤20%
2,2', 3,5'-Tetrachlorobiphenyl, %	4	10	≤20%
2,2', 5,5'-Tetrachlorobiphenyl, %	6	4	≤20%
2,3', 4,4'-Tetrachlorobiphenyl, %	5	3	≤20%
3,3', 4,4'-Tetrachlorobiphenyl, %	2	2	≤20%
2,2', 4,5,5'-Pentachlorobiphenyl, %	4	3	≤20%
2,3,3', 4,4'-Pentachlorobiphenyl, %	3	3	≤20%
2,3', 4,4',5-Pentachlorobiphenyl, %	2	9	≤20%
3,3', 4,4',5-Pentachlorobiphenyl, %	2	6	≤20%
2,2', 3,3',4,4'-Hexachlorobiphenyl, %	5	6	≤20%
2,2', 3,4,4',5'-Hexachlorobiphenyl, %	11	3	≤20%
2,2', 4,4',5,5'-Hexachlorobiphenyl, %	1	4	≤20%
3,3', 4,4',5,5'-Hexachlorobiphenyl, %	7	2	≤20%
2,2', 3,3',4,4',5-Heptachlorobiphenyl, %	3	1	≤20%
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, %	8	3	≤20%
2,2', 3,4',5,5',6-Heptachlorobiphenyl, %	3	6	≤20%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33663C

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33663C
Date of Issue:	2020-06-30
Date Received:	2020-06-19
Date Tested:	2020-06-19
Date Completed:	2020-06-30

ATTN: **Mr. N.P. Shum**

Page: 1 of 1

QC report:

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Tributyltin, μg/L	<0.005	<0.005	<0.005

Method QC

Parameter	MQC 1	MQC 2	Acceptance
Tributyltin, %	96	104	90-110%

Sample Spike

Parameter	33663-1 spk	33663-11 spk	Acceptance
Tributyltin, %	96	98	90-110%

Sample Spike Duplicate

Parameter	33663-1 spk dup	33663-11 spk dup	Acceptance
Tributyltin, %	6	8	≤15%

Remarks: 1) < = less than
2) This report is the summary of quality control data for report number 33663D.

**********END OF REPORT**********

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PATRICK TSE
General Manager

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33672
Date of Issue:	2020-06-30
Date Received:	2020-06-23
Date Tested:	2020-06-23
Date Completed:	2020-06-30

ATTN: **Mr. N.P. Shum**

QC report:

Method Blank

Parameter	Method Blank 1	Acceptance
Cadmium (Cd), µg/L	<0.1	<0.1
Chromium (Cr), µg/L	<0.2	<0.2
Copper (Cu), µg/L	<0.2	<0.2
Mercury (Hg), µg/L	<0.2	<0.2
Nickel (Ni), µg/L	<0.2	<0.2
Lead (Pb), µg/L	<0.2	<0.2
Silver (Ag), µg/L	<0.2	<0.2
Zinc (Zn), µg/L	<0.4	<0.4
Arsenic (As), µg/L	<0.2	<0.2

Method QC

Parameter	MQC 1	Acceptance
Cadmium (Cd), %	102	80-120%
Chromium (Cr), %	103	80-120%
Copper (Cu), %	102	80-120%
Mercury (Hg), %	99	80-120%
Nickel (Ni), %	105	80-120%
Lead (Pb), %	98	80-120%
Silver (Ag), %	101	80-120%
Zinc (Zn), %	98	80-120%
Arsenic (As), %	98	80-120%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 33672

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General Manager

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TEST REPORT

Report No.:	QC33672
Date of Issue:	2020-06-30
Date Received:	2020-06-23
Date Tested:	2020-06-23
Date Completed:	2020-06-30
Page:	2 of 2

Sample Spike

Parameter	33672-1 spk	Acceptance
Cadmium (Cd), %	91	80-120%
Chromium (Cr), %	100	80-120%
Copper (Cu), %	92	80-120%
Mercury (Hg), %	94	80-120%
Nickel (Ni), %	94	80-120%
Lead (Pb), %	99	80-120%
Silver (Ag), %	95	80-120%
Zinc (Zn), %	99	80-120%
Arsenic (As), %	99	80-120%

Sample Duplicate

Parameter	33672-1 chk	Acceptance
Cadmium (Cd), %	N/A	RPD≤20
Chromium (Cr), %	1	RPD≤20
Copper (Cu), %	9	RPD≤20
Mercury (Hg), %	2	RPD≤20
Nickel (Ni), %	2	RPD≤20
Lead (Pb), %	2	RPD≤20
Silver (Ag), %	4	RPD≤20
Zinc (Zn), %	10	RPD≤20
Arsenic (As), %	9	RPD≤20

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33672

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
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Report No.:	QC33672A
Date of Issue:	2020-06-30
Date Received:	2020-06-23
Date Tested:	2020-06-23
Date Completed:	2020-06-30

ATTN: **Mr. N.P. Shum**

QC report:
Method Blank

Parameter	Method Blank 1	Acceptance
Acenaphtene, µg/kg	<2	<2
Acenaphtylene, µg/kg	<2	<2
Anthracene, µg/kg	<2	<2
Fluorene, µg/kg	<2	<2
Naphthalene, µg/kg	<2	<2
Phenanthrene, µg/kg	<2	<2
Benzo(a)anthracene, µg/kg	<2	<2
Benzo(a)pyrene, µg/kg	<2	<2
Benzo(b)fluoranthene, µg/kg	<2	<2
Benzo(k)fluoranthene, µg/kg	<2	<2
Benzo(g,h,i)perylene, µg/kg	<2	<2
Chrysene, µg/kg	<2	<2
Dibenzo(a,h)anthracene, µg/kg	<2	<2
Fluoranthene, µg/kg	<2	<2
Indeno(1,2,3-cd)pyrene, µg/kg	<2	<2
Pyrene, µg/kg	<2	<2

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 33672A and 33672B

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TEST REPORT

Report No.:	QC33672A
Date of Issue:	2020-06-30
Date Received:	2020-06-23
Date Tested:	2020-06-23
Date Completed:	2020-06-30

Method QC

Parameter	MQC 1	Acceptance
Acenaphtene, %	102	80-120%
Acenaphtylene, %	100	80-120%
Anthracene, %	98	80-120%
Fluorene, %	96	80-120%
Naphthalene, %	103	80-120%
Phenanthrene, %	98	80-120%
Benzo(a)anthracene, %	96	80-120%
Benzo(a)pyrene, %	99	80-120%
Benzo(b)fluoranthene, %	95	80-120%
Benzo(k)fluoranthene, %	98	80-120%
Benzo(g,h,i)perylene, %	101	80-120%
Chrysene, %	92	80-120%
Dibenzo(a,h)anthracene, %	98	80-120%
Fluoranthene, %	95	80-120%
Indeno(1,2,3-cd)pyrene, %	97	80-120%
Pyrene, %	99	80-120%

Remark: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33672A and 33672B

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TEST REPORT

Report No.:	QC33672A
Date of Issue:	2020-06-30
Date Received:	2020-06-23
Date Tested:	2020-06-23
Date Completed:	2020-06-30

Sample Spike

Parameter	33672-1 spk	Acceptance
Acenaphtene, %	93	80-120%
Acenaphtylene, %	94	80-120%
Anthracene, %	95	80-120%
Fluorene, %	94	80-120%
Naphthalene, %	97	80-120%
Phenanthrene, %	102	80-120%
Benzo(a)anthracene, %	99	80-120%
Benzo(a)pyrene, %	97	80-120%
Benzo(b)fluoranthene, %	94	80-120%
Benzo(k)fluoranthene, %	95	80-120%
Benzo(g,h,i)perylene, %	92	80-120%
Chrysene, %	98	80-120%
Dibenzo(a,h)anthracene, %	94	80-120%
Fluoranthene, %	96	80-120%
Indeno(1,2,3-cd)pyrene, %	97	80-120%
Pyrene, %	91	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33672A and 33672B

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TEST REPORT

Report No.:	QC33672A
Date of Issue:	2020-06-30
Date Received:	2020-06-23
Date Tested:	2020-06-23
Date Completed:	2020-06-30

Sample Spike Duplicate

Parameter	33672-1 spk dup	Acceptance
Acenaphtene, %	8	≤15%
Acenaphtylene, %	7	≤15%
Anthracene, %	7	≤15%
Fluorene, %	1	≤15%
Naphthalene, %	4	≤15%
Phenanthrene, %	5	≤15%
Benzo(a)anthracene, %	3	≤15%
Benzo(a)pyrene, %	1	≤15%
Benzo(b)fluoranthene, %	3	≤15%
Benzo(k)fluoranthene, %	7	≤15%
Benzo(g,h,i)perylene, %	2	≤15%
Chrysene, %	9	≤15%
Dibenzo(a,h)anthracene, %	5	≤15%
Fluoranthene, %	5	≤15%
Indeno(1,2,3-cd)pyrene, %	5	≤15%
Pyrene, %	7	≤15%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33672A and 33672B

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33672B
Date of Issue:	2020-06-30
Date Received:	2020-06-23
Date Tested:	2020-06-23
Date Completed:	2020-06-30
Page:	1 of 4

ATTN: **Mr. N.P. Shum**

QC report:
Method Blank

Parameter	Method Blank 1	Acceptance
2,4'-Dichlorobiphenyl, µg/kg	<0.4	<0.4
2,2',5-Trichlorobiphenyl, µg/kg	<0.4	<0.4
2,4,4'-Trichlorobiphenyl, µg/kg	<0.4	<0.4
2,2', 3,5'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4
2,2', 5,5'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4
2,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4
3,3', 4,4'-Tetrachlorobiphenyl, µg/kg	<0.4	<0.4
2,2', 4,5,5'-Pentachlorobiphenyl, µg/kg	<0.4	<0.4
2,3,3', 4,4'-Pentachlorobiphenyl, µg/kg	<0.4	<0.4
2,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<0.4	<0.4
3,3', 4,4',5-Pentachlorobiphenyl, µg/kg	<0.4	<0.4
2,2', 3,3',4,4'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4
2,2', 3,4,4',5'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4
2,2', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4
3,3', 4,4',5,5'-Hexachlorobiphenyl, µg/kg	<0.4	<0.4
2,2', 3,3',4,4',5-Heptachlorobiphenyl, µg/kg	<0.4	<0.4
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, µg/kg	<0.4	<0.4
2,2', 3,4',5,5',6-Heptachlorobiphenyl, µg/kg	<0.4	<0.4

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 33672C

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General Manager

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TEST REPORT

Report No.:	QC33672B
Date of Issue:	2020-06-30
Date Received:	2020-06-23
Date Tested:	2020-06-23
Date Completed:	2020-06-30

Method QC

Parameter	MQC 1	Acceptance
2,4'-Dichlorobiphenyl, %	94	80-120%
2,2',5-Trichlorobiphenyl, %	101	80-120%
2,4,4'-Trichlorobiphenyl, %	94	80-120%
2,2', 3,5'-Tetrachlorobiphenyl, %	96	80-120%
2,2', 5,5'-Tetrachlorobiphenyl, %	101	80-120%
2,3', 4,4'-Tetrachlorobiphenyl, %	94	80-120%
3,3', 4,4'-Tetrachlorobiphenyl, %	101	80-120%
2,2', 4,5,5'-Pentachlorobiphenyl, %	97	80-120%
2,3,3', 4,4'-Pentachlorobiphenyl, %	98	80-120%
2,3', 4,4',5-Pentachlorobiphenyl, %	97	80-120%
3,3', 4,4',5-Pentachlorobiphenyl, %	97	80-120%
2,2', 3,3',4,4'-Hexachlorobiphenyl, %	103	80-120%
2,2', 3,4,4',5'-Hexachlorobiphenyl, %	94	80-120%
2,2', 4,4',5,5'-Hexachlorobiphenyl, %	100	80-120%
3,3', 4,4',5,5'-Hexachlorobiphenyl, %	95	80-120%
2,2', 3,3',4,4',5-Heptachlorobiphenyl, %	98	80-120%
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, %	99	80-120%
2,2', 3,4',5,5',6-Heptachlorobiphenyl, %	98	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33672C

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TEST REPORT

Report No.:	QC33672B
Date of Issue:	2020-06-30
Date Received:	2020-06-23
Date Tested:	2020-06-23
Date Completed:	2020-06-30

Sample Spike

Parameter	33672-1 spk	Acceptance
2,4'-Dichlorobiphenyl, %	90	80-120%
2,2',5-Trichlorobiphenyl, %	94	80-120%
2,4,4'-Trichlorobiphenyl, %	89	80-120%
2,2', 3,5'-Tetrachlorobiphenyl, %	93	80-120%
2,2', 5,5'-Tetrachlorobiphenyl, %	99	80-120%
2,3', 4,4'-Tetrachlorobiphenyl, %	95	80-120%
3,3', 4,4'-Tetrachlorobiphenyl, %	91	80-120%
2,2', 4,5,5'-Pentachlorobiphenyl, %	92	80-120%
2,3,3', 4,4'-Pentachlorobiphenyl, %	94	80-120%
2,3', 4,4',5-Pentachlorobiphenyl, %	98	80-120%
3,3', 4,4',5-Pentachlorobiphenyl, %	91	80-120%
2,2', 3,3',4,4'-Hexachlorobiphenyl, %	97	80-120%
2,2', 3,4,4',5'-Hexachlorobiphenyl, %	92	80-120%
2,2', 4,4',5,5'-Hexachlorobiphenyl, %	96	80-120%
3,3', 4,4',5,5'-Hexachlorobiphenyl, %	96	80-120%
2,2', 3,3',4,4',5-Heptachlorobiphenyl, %	100	80-120%
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, %	91	80-120%
2,2', 3,4',5,5',6-Heptachlorobiphenyl, %	91	80-120%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33672C

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TEST REPORT

Report No.:	QC33672B
Date of Issue:	2020-06-30
Date Received:	2020-06-23
Date Tested:	2020-06-23
Date Completed:	2020-06-30

Sample Spike Duplicate

Parameter	33672-1 spk dup	Acceptance
2,4'-Dichlorobiphenyl, %	8	≤20%
2,2',5-Trichlorobiphenyl, %	2	≤20%
2,4,4'-Trichlorobiphenyl, %	4	≤20%
2,2', 3,5'-Tetrachlorobiphenyl, %	7	≤20%
2,2', 5,5'-Tetrachlorobiphenyl, %	10	≤20%
2,3', 4,4'-Tetrachlorobiphenyl, %	1	≤20%
3,3', 4,4'-Tetrachlorobiphenyl, %	3	≤20%
2,2', 4,5,5'-Pentachlorobiphenyl, %	4	≤20%
2,3,3', 4,4'-Pentachlorobiphenyl, %	2	≤20%
2,3', 4,4',5-Pentachlorobiphenyl, %	8	≤20%
3,3', 4,4',5-Pentachlorobiphenyl, %	1	≤20%
2,2', 3,3',4,4'-Hexachlorobiphenyl, %	1	≤20%
2,2', 3,4,4',5'-Hexachlorobiphenyl, %	5	≤20%
2,2', 4,4',5,5'-Hexachlorobiphenyl, %	5	≤20%
3,3', 4,4',5,5'-Hexachlorobiphenyl, %	2	≤20%
2,2', 3,3',4,4',5-Heptachlorobiphenyl, %	9	≤20%
2,2', 3,4,4',5,5'-Heptachlorobiphenyl, %	5	≤20%
2,2', 3,4',5,5',6-Heptachlorobiphenyl, %	8	≤20%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 33672C

**********END OF REPORT**********

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TEST REPORT

APPLICANT: **Civil Engineering and Development Department**
5/F Civil Engineering and Development Building,
101 Princess Margaret Road,
Homantin, Kowloon, Hong Kong

Report No.:	QC33672C
Date of Issue:	2020-06-30
Date Received:	2020-06-23
Date Tested:	2020-06-23
Date Completed:	2020-06-30
Page:	1 of 1

ATTN: **Mr. N.P. Shum**

QC report:

Method Blank

Parameter	Method Blank 1	Acceptance
Tributyltin, µg/L	<0.005	<0.005

Method QC

Parameter	MQC 1	Acceptance
Tributyltin, %	98	90-110%

Sample Spike

Parameter	33672-1 spk	Acceptance
Tributyltin, %	96	90-110%

Sample Spike Duplicate

Parameter	33672-1 spk dup	Acceptance
Tributyltin, %	2	≤15%

Remarks: 1) < = less than
2) This report is the summary of quality control data for report number 33672D.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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