VIBRO

Vibro (H.K.) Limited

SITE INVESTIGATION DEPARTMENT

FINAL FIELDWORK REPORT

CONTRACT NO.	GE/2015/29
TASK ORDER NO.	GE/2015/29.8
PROJECT	Ground Investigation - New Territories West Agreement No. CE 32/2014 (HY) Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC
CLIENT	Civil Engineering and Development Department
DATE	31 March 2017

CHECKED BY		31-3-17
	Y. M. Leung Geotechnical Engineer	Date
CERTIFIED BY		31-3-17
	M. C. Leung Contractor's Representative	Date

ISO 9001 : 2008
Certificate No. : CC 1046

ISO 14001 : 2004
Certificate No. : CC 2466

OHSAS 18001 : 2007
Certificate No. : CC 2547

CONTRACTOR
Head Office : 11/F., Chevalier Commercial Centre,
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Tel: 2336 5985 Fax: 2342 3589

Contract Data Summary

Project Name & No. Ground Investigation - New Territories West	Site Name Agreement No. CE 32/2014 (HY) Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC	Date : 21/11/2017 to 31/03/2017 Official only
G.I. Contractor VIBRO (H.K.) LTD	Client Geotechnical Engineering Office	G.E.O. Data Bank No.
Contract No. : GE/2015/29	Task Order No. : GE/2015/29.8	File Ref. :

Field Work Summary

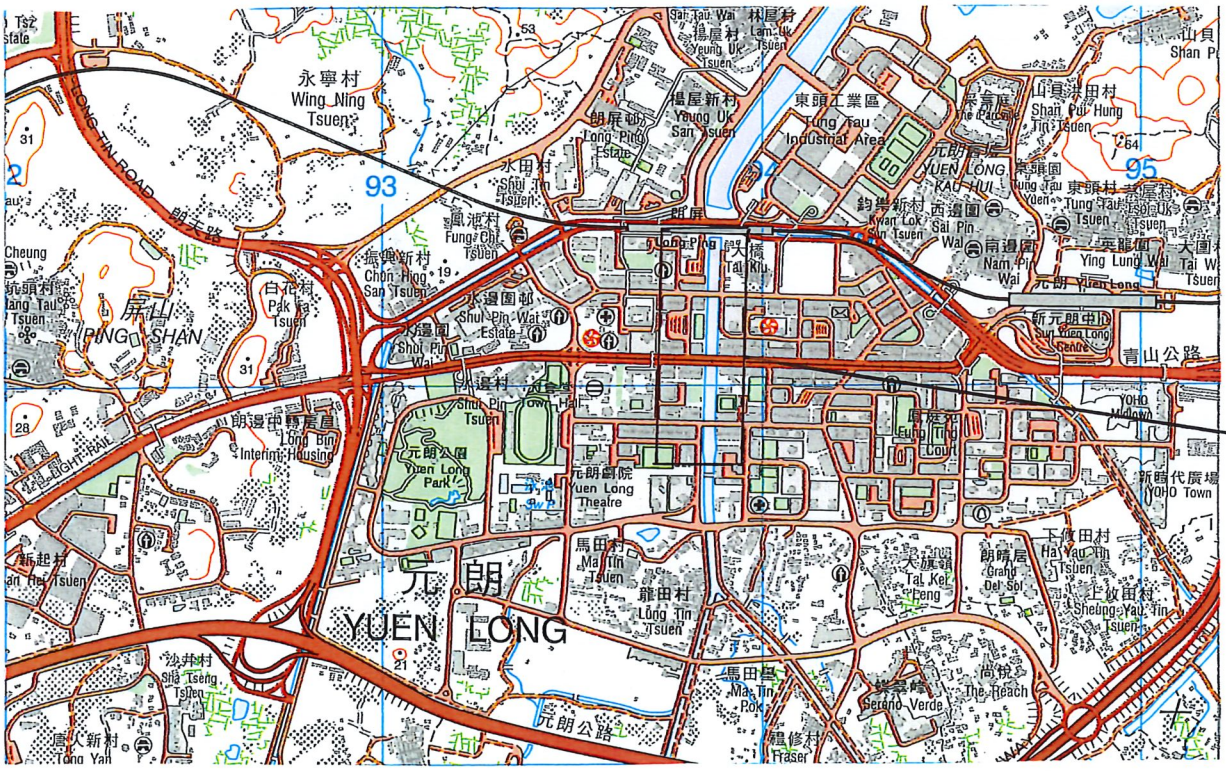
Drillholes Total No.	11	Method : Rotary		Date : 05/12/2016 to 11/02/2017	
Pits / Trenches / Caissons No.	NIL		Slope Strip No.	NIL	
Probes No.	NIL		Corehole No.	NIL	
Piezometers No.	NIL		Piezometer Bucket No.	NIL	
Insitu Test No.	220	Types SPT (220)			
Geophysics	NIL	Type NA			

Laboratory Testing Summary

Total No. of Tests : Date : to

Soil	Physical Properties	LL	PL	PSD	M/C
		SG	γ_m/ γ_d		
	Strength Tests	CU	CD	UU	Shear Box
	Compaction & CBR Tests	Standard	Modified		CBR
	Oedometer & Perm. Tests	Cv	k		
	Others				
Rock	γ	Pt load	UC	Shear Box	US Vel.

Location Plan SCALE 1 : 20 000 Derived from : HM20C 20 000 Sheet 6, Edition 16 - 2013



	G.I.	Laboratory	Geotechnical Engineering Office
CONTRACTOR	VIBRO (H.K.) LIMITED		CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
TASK ORDER NO	GE/2015/29.8		

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

GEOTECHNICAL ENGINEERING OFFICE

CONTRACT NO. GE/2015/29

GROUND INVESTIGATION – NEW TERRITORIES WEST

Task Order No. GE/2015/29.8

Agreement No. CE 32/2014 (HY)

Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station – IDC

Ground Investigation

Final Fieldwork Report

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GROUND INVESTIGATION – NEW TERRITORIES WEST

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Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station – IDC

Ground Investigation

Final Fieldwork Report

1. INTRODUCTION

The Civil Engineering and Development Department (CEDD) awarded Contract No. GE/2015/29 – New Territories West, to Vibro (H. K.) Limited in June 2016. This contract lasts for two years.

This report presents the results of the ground investigation works for Agreement No. CE 32/2014 (HY), Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station – IDC. The fieldworks were carried out under Task Order No. GE/2015/29.8.

The fieldworks comprise drilling, logging of ground materials, sampling, field testing and surveying, were carried out in the period between 5th December 2016 and 11th February 2017 under the supervision of Ove Arup and Partners Hong Kong Limited.

2. THE SITE

Investigation works were carried out at Yuen Long Town, New Territories. The exploratory stations are bounded within the following co-ordinates at Hong Kong Metric Grid (1980).

	Easting(m)	Northing(m)
(1)	820705	833695
(2)	820705	834150
(3)	820735	833695
(4)	820735	834150

All exploratory stations are indicated on the Ground Investigation Plan as shown in Figure 1. Co-ordinates and ground levels of all exploratory stations are presented in Table 1.

3. GEOLOGY

The 1:20 000 Solid and Superficial Geology Map 'Yuen Long' published by the GCO (HGM20 Sheet 6 Edition I, 1988) indicates that the site is expected to be underlain by Fill (natural earth and waste), Alluvium (clay/silt, sand and gravel, well-sorted to semi-sorted) from Holocene epoch of the Quaternary Period and Fill (natural earth and waste), undivided, mainly dark grey marine mud from Hang Hau Formation, Holocene epoch of the Quaternary Period.

4. FIELDWORK

The fieldworks comprised eleven (11) vertical drillholes (i.e. Nos. ADH01 to ADH11). The works at these investigation stations were carried out to depths and at locations as specified in the Task Order or as instructed by the *Service Manager*.

4.1 Drilling

An inspection pit was hand excavated at each drillhole location to the maximum depth of 1.30m, prior to the commencement of drilling works. Small disturbed samples were progressively collected during excavation at 0.5m intervals.

Eleven (11) vertical drillholes (i.e. Nos. ADH01 to ADH11) were terminated at depths between 55.33m (at ADH01) and 90.00m (at ADH04). Rotary drilling techniques, using six hydraulic-feed type drilling rigs, were adopted for this Task Order. SW (168mmØ), PW (140mmØ), HW (115mmØ) and NW (89mmØ) casings, equipped with tungsten carbide cutting shoes, were used to advance the drillholes and prevent holes collapses. Arisings from the drilling process were removed from the drillholes using air foam and water as the flushing medium as instructed by the *Service Manager*.

4.1.1 Mazier (Triple Tube Retractable Core Barrel) Samples

Undisturbed Retractable Triple Tube Core (Mazier) samples were taken at all drillholes using a triple tube retractable core barrel fitted with a removable 74mm diameter, 1000mm long transparent rigid ABS plastic liner. A retractable cutting shoe projecting from the tungsten carbide drill bit of the “Mazier” sampler was used to penetrate the material being sampled and thus isolate it from the detrimental effects of the flushing medium.

4.1.2 Undisturbed U76 Sample

Undisturbed U76 samples were taken at all drillholes except drillhole No. ADH11, using 77mm internal diameter open sample tubes. The tube was made from galvanized mild steel not less than 450mm in length fitted with a cutting shoe tapered at an angle not exceeding 20°.

Small disturbed samples were taken in drillholes from the cutting shoe of the sampler.

4.1.3 Double Tube Rock Coring

Double Tube, T2-101, TNW or triple tube, HMLC swivel-type rotary core barrel with diamond impregnated core bits was used to recover rock core with nominal size of 84mm, 61mm or 64mm where competent strata were encountered in common ground or bedrock.

After completion, all drillhole were backfilled with cement bentonite grout in accordance with CI. 7.50 of General Specifications for Civil Engineering Works, 2006 Edition, The Government of the HKSAR.

Photographs were taken for all materials recovered from the drillholes. The jar lids were removed prior to taking photographs in order to display their contents. The drillhole records and the relevant corebox photographs are presented in Appendix C and D respectively.

4.2 Field Testing

4.2.1 Standard Penetration Test

Standard Penetration Tests with liner samples were undertaken in all drillholes (i.e. Nos. ADH01 to ADH11). The tests were conducted according to BS1377: 1990 Part 9, Test 3.3 and Cl. 7.68 of General Specification for Civil Engineering Works, 2006 Edition.

The numbers of blows to drive a standard split-spoon sampler for the first 150mm penetration (seating drive) in 75mm increments and those for each 75mm penetration for the subsequent 300mm were recorded. The 'N' value was taken as the sum of the blows for the last 300mm penetration. Disturbed samples were retrieved from the cutting shoes and stored as jar samples.

The depth of tests and the 'N' values were recorded and are presented in the drillhole records.

4.3 Surveying Investigation Location

Following the completion of fieldworks, the as-built co-ordinates and reduced levels were taken for each Investigation Station with reference to the nearest Government Benchmark. The as-built co-ordinates are presented in Hong Kong Metric Grid (1980) and reduced levels are related to the Hong Kong Principal Datum (PD). The co-ordinates and levels of each investigation station are presented in the Summary Table of Survey Data, Table 1.

5. SOIL AND ROCK DESCRIPTIONS

The soils and rocks encountered in the investigation have generally been described according to Geoguide 3, Guide to Rock and Soil Descriptions. The classification and definitions of the descriptive terms are presented in Appendix A.

The delineation of various strata was primarily based on the examination of the samples recovered from the drillholes. The results given in the form of drillhole are presented in Appendix C. The legends used in the records are summarized in Appendix B.

6. GROUND CONDITIONS

6.1 Introduction

The vertical drillholes encountered a combination of the following strata:

CONCRETE SURFACE
FILL
MARINE DEPOSIT
ALLUVIUM
SAPROLITIC SOIL
KARST SURFACE DEPOSIT
MARBLE WITH CAVITY / CAVITY INFILL DEPOSIT
BEDROCK

A summary of the strata encountered is presented in Table 2.

A brief description of the materials encountered is given in the following sections. In summary, the strata have been grouped together under the headings of Concrete Surface, Fill, Marine Deposit, Alluvium, Saprolitic Soil, Karst Surface Deposit, Marble with Cavity / Cavity Infill Deposit and Bedrock.

Full descriptions of the strata encountered can be found in the Drillhole Records presented in Appendix C of this report.

6.2 Concrete Surface

Concrete Surface was encountered at the ground surface of all drillholes.

The encountered thickness of the stratum ranged from 0.10m (at ADH01 to ADH05, ADH07 to ADH09 and ADH11) to 0.20m (at ADH06 and ADH10) with its base elevations vary between +0.45mPD and +1.09mPD at drillhole No. ADH01 and ADH09 respectively.

6.3 Fill

Fill was encountered beneath Concrete Surface at drillhole Nos. ADH01, ADH05 to ADH07 and ADH09 to ADH11. Fill comprises clayey sandy SILT and clayey silty fine to coarse SAND with much angular to subangular fine to coarse gravel sized rock and shell fragments and subangular cobble sized moderately decomposed and slightly decomposed Granite, sandy subangular fine to medium GRAVEL sized rock fragments.

The encountered thickness of the stratum ranged from 0.40m (at ADH01) to 3.00m (at ADH11) with its base elevations vary between -2.43mPD and +0.05mPD at drillhole No. ADH11 and ADH01 respectively.

6.4 Marine Deposit

Marine Deposit was encountered beneath Fill at drillhole No. ADH01. Marine Deposit comprises clayey sandy SILT with occasional shell fragments.

The encountered thickness of the stratum was 1.50m with its base elevation at -1.45mPD.

6.5 Alluvium

Alluvium was encountered beneath Marine Deposit at drillhole No. ADH01, beneath Concrete Surface at drillhole Nos. ADH02 to ADH04 and ADH08 and beneath Fill at drillhole Nos. ADH05 to ADH07 and ADH09 to ADH11. Alluvium comprises clayey silty fine to coarse SAND and clayey sandy SILT with occasional decayed wood

pieces with much angular to subangular and subangular to subrounded fine to coarse gravel sized rock fragments and slightly clayey sandy subangular to subrounded fine to coarse GRAVEL sized rock fragments.

The encountered thickness of the stratum ranged from 9.30m (at ADH06) to 16.20m (at ADH10) with its base elevations vary between -17.41mPD and -11.35mPD at drillhole No. ADH10 and ADH06 respectively.

6.6 Saprolitic Soil

Soils derived from the in-situ weathering of Metasiltstone and Metasandstone were encountered beneath Karst Surface Deposit at drillhole No. ADH04 and beneath Alluvium at drillhole Nos. ADH5 to ADH8 and ADH11. Saprolitic Soil comprises sandy SILT with much angular to subangular fine to coarse gravel, silty fine SAND with occasional subangular fine to medium gravel and silty sandy angular to subangular fine to coarse GRAVEL.

The encountered thickness of the stratum ranged from 0.50m (at ADH04) to 46.20m (at ADH07) with its base elevations vary between -58.51mPD and -18.83mPD at drillhole Nos. ADH07 and ADH11 respectively.

6.7 Karst Surface Deposit

Karst Surface Deposit was encountered beneath Alluvium at drillhole Nos. ADH01 to ADH04, ADH09 and ADH10 and beneath Saprolitic Soil at drillhole Nos. ADH05 to ADH08 and ADH11. Karst Surface Deposit comprises slightly clayey silty fine to coarse SAND and clayey sandy SILT with much angular to subrounded and angular to subangular fine to coarse gravel sized rock and marble fragments, clayey silty sandy angular to subrounded fine to coarse GRAVEL sized rock fragments and subangular COBBLE sized slightly decomposed impure Marble, Monzonite and subangular COBBLE sized slightly decomposed impure Marble, Monzonite and moderately decomposed Metasiltstone with much clayey silty angular to subangular medium to coarse gravel sized rock fragments.

The encountered thickness of the stratum ranged from 3.10m (at ADH11) to 30.65m (at ADH06) with its base elevations vary between -65.31mPD and -20.01mPD at drillhole No. ADH07 and ADH09 respectively.

6.8 Marble with Cavity / Cavity Infill Deposit

Marble with Cavity / Cavity Infill Deposit was encountered beneath Karst Surface Deposit at drillhole Nos. ADH02, ADH03, ADH07, ADH09 and ADH11 and beneath Saprolitic Soil at drillhole No. ADH04. Marble with Cavity is the cavity encountered within slightly decomposed Marble. Cavity Infill Deposit comprises clayey silty fine to coarse SAND and clayey sandy SILT with much angular to subangular fine to coarse gravel sized rock fragments, clayey silty slightly sandy angular to subangular fine to coarse GRAVEL sized rock fragments, angular to subangular COBBLE sized moderately decomposed and slightly decomposed impure Marble with much slightly clayey slightly slity sandy angular to subangular fine to coarse gravel sized quartz and rock fragments and subangular BOULDER sized slightly decomposed impure Marble.

The encountered thickness of the stratum ranged from 4.86m (at ADH02) to 67.00m (at ADH04) with its base elevations vary between -89.26mPD and -26.44mPD at drillhole No. ADH04 and ADH02 respectively.

6.9 Bedrock

Bedrock of Marble was encountered at drillhole Nos. ADH01, ADH02, ADH06 and ADH08 to ADH11 and Marble and Basalt were encountered at drillhole Nos. ADH03 and ADH05 with the bedrock levels vary between -60.00mPD and -22.20mPD at drillhole Nos. ADH06 and ADH01 respectively.

7. DIGITAL DATA

The investigation log of each exploratory station was produced from gINT® which is a geotechnical and geoenvironmental software product. Details of the drillhole records are stored in ASCII digital format.

The data have been prepared in accordance with Appendix 1 of the third edition of the Association of Geotechnical and Geoenvironmental Specialists (AGS) publication "Electronic Transfer of Geotechnical and Geoenvironmental Data (AGS 1999)". The data dictionary used for the data field headings is in accordance with that recommended by the AGS with local variations as instructed by the Geotechnical Engineering Office.

All photographs taken for this report were taken with a digital camera, which conform to the JPEG Exchangeable Image File (EXIF) Version 2.2 standard.

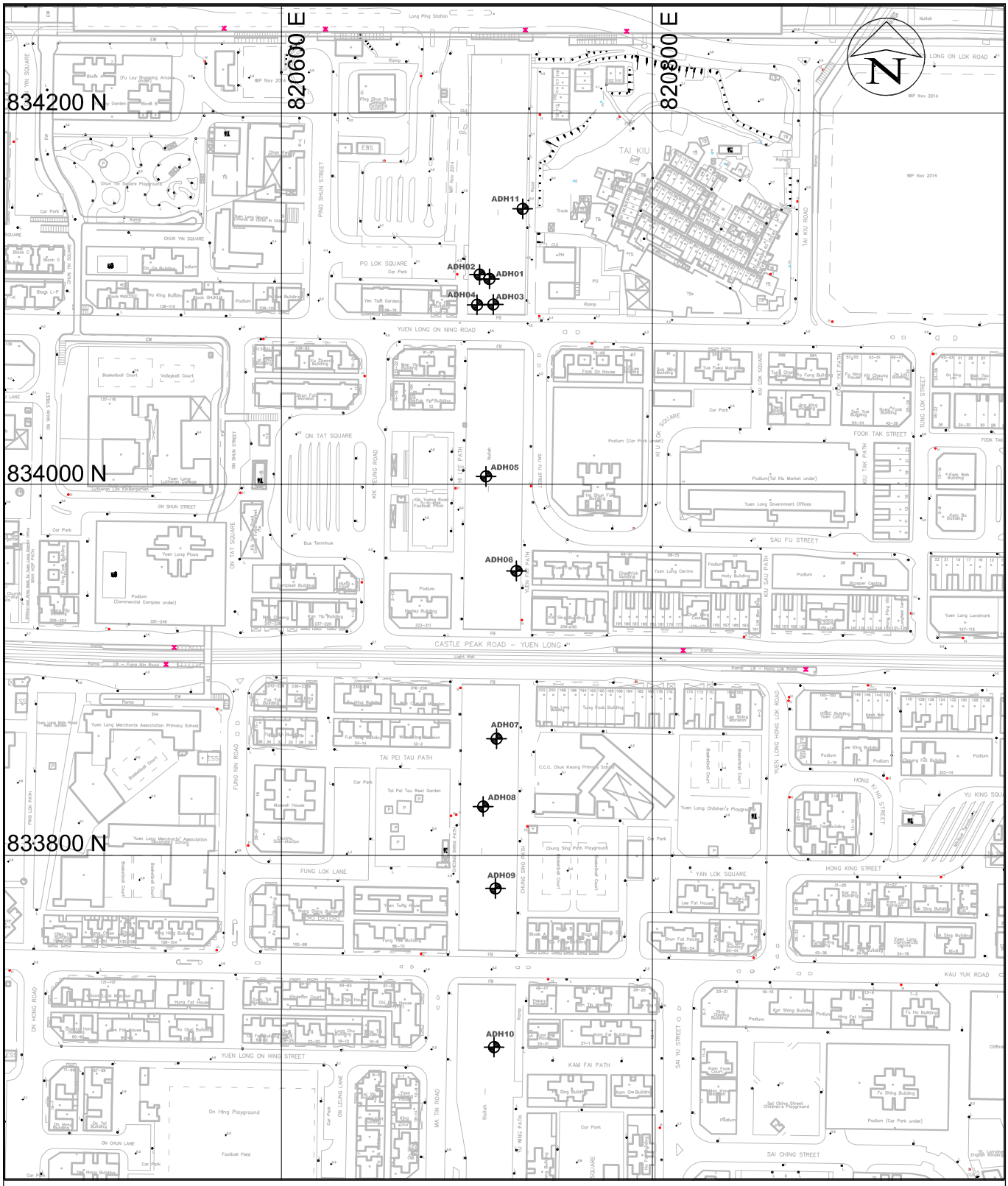
The AGS digital data and the digital image of this final fieldwork report, individual station records and photographs are stored on a CD-ROM as attached in Appendix E.

8. REFERENCES

1. GCO Sheet 6, Yuen Long, (Edition I, 1988): Solid and Superficial Geology (1:20 000 map).
2. GEO (1987), Guide to Site Investigation (Geoguide 2), Geotechnical Engineering Office, Hong Kong.
3. GEO (1988), Guide to Rock and Soil Descriptions (Geoguide 3), Geotechnical Engineering Office, Hong Kong.
4. General Specification for Civil Engineering Works, 2006 Edition, the Government of the Hong Kong Special Administrative Region.
5. BS 1377:Part 9 (1990) British Standard Methods of test for soils for civil engineering purposes, Part 9: Insitu tests, British Standards Institution, London.
6. Macbeth (1994), Munsell Soil Colour Charts. 1994 Revised Edition published by GretagMacbeth.
7. AGS (1999), Transfer of Geotechnical and Geoenvironmental Data, Association of Geotechnical and Geoenvironmental Specialists.

FIGURE 1

GROUND INVESTIGATION PLAN



LEGEND :

ADH01
DRILLHOLE

CONTRACT NO. : GE/2015/29	PROJECT TITLE: Ground Investigation - New Territories West Agreement No. CE 32/2014 (HY) Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC	DRAWN : P. W. NG	CHECKED : Y.M. Leung
TASK ORDER NO. : GE/2015/29.8		SCALE : 1 : 3000	DATE : 29-03-2017
LOCATION : Yuen Long Town		DRAWING NO. : J201617e/TO8/GIP	
DRAWING TITLE : GROUND INVESTIGATION LAYOUT PLAN	CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT HONG KONG	VIBRO (H.K.) LIMITED	

TABLE 1

SUMMARY TABLE OF SURVEY DATA

VIBRO	VIBRO (H.K.) LTD. SITE INVESTIGATION DEPARTMENT TABLE 1 - SURVEY RECORD	CONTRACT NO. GE/2015/29
PROJECT	Ground Investigation - New Territories West Agreement No. CE 32/2014 (HY) Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC	Task Order No. GE/2015/29.8 SHEET 1 OF 1

EXPLORATORY STATION	EASTING	NORTHING	GROUND LEVEL (mPD)
ADH01	820712.08	834110.75	+0.55
ADH02	820706.84	834113.03	+0.67
ADH03	820714.22	834096.92	+0.58
ADH04	820705.48	834096.74	+0.74
ADH05	820710.33	834004.26	+0.79
ADH06	820726.72	833953.31	+1.05
ADH07	820715.98	833862.93	+0.79
ADH08	820708.76	833826.39	+1.02
ADH09	820715.41	833782.26	+1.19
ADH10	820714.65	833696.77	+0.79
ADH11	820730.06	834148.44	+0.67

TABLE 2

SUMMARY TABLE OF DRILLHOLE RESULTS

VIBRO (H.K.) LIMITED

SITE INVESTIGATION DEPARTMENT

CONTRACT NO. GE/2015/29

TASK ORDER NO. GE/2015/29.8

PROJECT : Ground Investigation - New Territories West

LOCATION : Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station – IDC

Table 2 - Summary of Drillhole Result

Stratum	HOLE NO.										
	ADH01	ADH02	ADH03	ADH04	ADH05	ADH06	ADH07	ADH08	ADH09	ADH10	ADH11
Ground Level (mPD)	+0.55	+0.67	+0.58	+0.74	+0.79	+1.05	+0.79	+1.02	+1.19	+0.79	+0.67
Concrete Surface Bottom Level (mPD)	+0.45	+0.57	+0.48	+0.64	+0.69	+0.85	+0.69	+0.92	+1.09	+0.59	+0.57
Bottom Depth (m below Ground Level)	0.10	0.10	0.10	0.10	0.10	0.20	0.10	0.10	0.10	0.20	0.10
Thickness (m)	0.10	0.10	0.10	0.10	0.10	0.20	0.10	0.10	0.10	0.20	0.10
Fill Bottom Level (mPD)	+0.05	-	-	-	-1.21	-2.05	-1.21	-	-0.81	-1.21	-2.43
Bottom Depth (m below Ground Level)	0.50	-	-	-	2.00	3.10	2.00	-	2.00	2.00	3.10
Thickness (m)	0.40	-	-	-	1.90	2.90	1.90	-	1.90	1.80	3.00
Marine Deposit Bottom Level (mPD)	-1.45	-	-	-	-	-	-	-	-	-	-
Bottom Depth (m below Ground Level)	2.00	-	-	-	-	-	-	-	-	-	-
Thickness (m)	1.50	-	-	-	-	-	-	-	-	-	-
Alluvium Bottom Level (mPD)	-14.95	-14.43	-12.52	-14.36	-12.51	-11.35	-12.31	-12.28	-12.11	-17.41	-13.73
Bottom Depth (m below Ground Level)	15.50	15.10	13.10	15.10	13.30	12.40	13.10	13.30	13.30	18.20	14.40
Thickness (m)	13.50	15.00	13.00	15.00	11.30	9.30	11.10	13.20	11.30	16.20	11.30
Saprolitic Soil Bottom Level (mPD)	-	-	-	-	-30.51	-29.35	-58.51	-32.28	-	-	-18.83
Bottom Depth (m below Ground Level)	-	-	-	-	31.30	30.40	59.30	33.30	-	-	19.50
Thickness (m)	-	-	-	-	18.00	18.00	46.20	20.00	-	-	5.10
Karst Surface Deposit Bottom Level (mPD)	-22.20	-21.58	-30.44	-21.76	-54.21	-60.00	-65.31	-49.33	-20.01	-35.89	-21.93
Bottom Depth (m below Ground Level)	22.75	22.25	31.02	22.50	55.00	61.05	66.10	50.35	21.20	36.68	22.60
Thickness (m)	7.25	7.15	17.92	7.40	23.70	30.65	6.80	17.05	7.90	18.48	3.10
Saprolitic Soil Bottom Level (mPD)	-	-	-	-22.26	-	-	-	-	-	-	-
Bottom Depth (m below Ground Level)	-	-	-	23.00	-	-	-	-	-	-	-
Thickness (m)	-	-	-	0.50	-	-	-	-	-	-	-
Marble with Cavity/Cavity Infill Deposit Bottom Level (mPD)	-	-26.44	-55.11	-89.26	-	-	-86.03	-	-53.74	-	-46.53
Bottom Depth (m below Ground Level)	-	27.11	55.69	90.00	-	-	86.82	-	54.93	-	47.20
Thickness (m)	-	4.86	24.67	67.00	-	-	20.72	-	33.73	-	24.60
Bedrock Bottom Level (mPD)	-54.78	-55.14	-75.82	-	-74.48	-81.04	-	-69.78	-79.04	-56.50	-80.57
Bottom Depth (m below Ground Level)	55.33	55.81	76.40	-	75.27	82.09	-	70.80	80.23	57.29	81.24
Thickness (m)	32.58	28.70	20.71	-	20.27	21.04	-	20.45	25.30	20.61	34.04
End of Hole Level (mPD)	-54.78	-55.14	-75.82	-89.26	-74.48	-81.04	-86.03	-69.78	-79.04	-56.50	-80.57
End of Hole Depth (m below Ground Level)	55.33	55.81	76.40	90.00	75.27	82.09	86.82	70.80	80.23	57.29	81.24
Rock Type	MARBLE	MARBLE	BASALT / MARBLE	-	BASALT / MARBLE	MARBLE	-	MARBLE	MARBLE	MARBLE	MARBLE
Bedrock Level (mPD)	-22.20	-26.44	-55.11	-	-54.21	-60.00	-	-49.33	-53.74	-35.89	-46.53

Note : - : Not encountered in the investigation

APPENDIX A

CHECKLISTS FOR SOIL AND ROCK DESCRIPTIONS

CHECKLIST FOR SOIL DESCRIPTION

GEOTECHNICAL ENGINEERING OFFICE, HKSAR

1. STRENGTH (Compactness & Consistency)

Soil Type	Term	Identification
Very Coarse (COBBLES & BOULDERS)	Loose	By inspection of voids and particle packing in the field.
	Dense	
Coarse (SANDS & GRAVELS)	Very loose	SPT 'N' value 0-4.
	Loose	SPT 4-10; can be excavated with spade; 50 mm peg easily driven.
	Medium dense	SPT 10-30.
	Dense	SPT 30-50; requires pick for excavation; 50 mm peg hard to drive.
	Very dense	SPT > 50.
Fine (CLAYS & SILTS)	Very soft	Undrained shear strength (USS) < 20 kPa; exudes between fingers when squeezed in hand.
	Soft	USS 20-40 kPa; moulded by light finger pressure.
	Firm	USS 40-75 kPa; can be moulded by strong finger pressure.
	Stiff	USS 75-150 kPa; cannot be moulded by fingers; can be indented by thumb.
	Very stiff or hard	USS > 150 kPa; can be indented by thumbnail.
Organic (ORGANIC CLAYS, SILTS SANDS & PEATS)	Compact	Fibres already compressed together.
	Spongy	Very compressible and open structure.
	Plastic	Can be moulded in hand and smears fingers.

Terms applicable only to transported soils. For soils derived from insitu rock weathering, record actual values of quantitative tests (e.g. SPT 'N' value) as part of the description, where appropriate.

2. COLOUR

Parameter	Terms
Value	Light, Dark
Chroma	Pinkish, Reddish, Yellowish, Orangish, Brownish, Greenish, Bluish, Purplish, Greyish
Hue	Pink, Red, Yellow, Orange, Brown, Green, Blue, Purple, White, Grey, Black

For uniform colour distribution, choose a hue, supplemented by a value and/or chroma if necessary.

For non-uniform distribution, repeat this procedure using one of the following descriptors: spotted, mottled, dappled, streaked, striped (e.g. light yellowish brown mottled with red).

State whether sample was wet or dry when described.

3. PARTICLE SHAPE & COMPOSITION

Characteristic	Terms
Form	Equidimensional, Flat, Elongate, Flat & Elongate
Angularity	Angular, Subangular, Subrounded, Rounded
Surface Texture	Smooth, Rough, Glassy, Honeycombed, Pitted, Striated

Describe composition of coarse particles where appropriate. Gravel and larger particles are usually rock fragments (e.g. granite, tuff); sand particles are usually individual minerals (e.g. quartz, feldspar).

4. STRUCTURE

Soil Type	Term	Identification
Coarse & Fine	Homogenous	Deposit consists essentially of one type.
	Interstratified (Interbedded or Interlaminated)	Alternating layers of varying types or with bands or lenses of other materials.
Coarse	Heterogenous	A mixture of types.
Fine	Fissured	Breaks into polyhedral fragments along fissures.
	Intact	No fissures.
Organic	Fibrous	Plant remains recognizable & retain some strength.
	Amorphous	No recognizable plant remains.

Describe spacing of bedding planes, fissures, shell bands, etc using the spacing terms given in items 6 & 7 for rock description (see other side).

Above terms applicable only to transported soils. For soils derived from insitu rock weathering, describe relict structures in accordance with item 6 of rock description (see other side).

5. WEATHERING

Soils Derived from Insitu Weathering of Rocks

There are two main types: saprolites (rock texture/structure retained) and residual soils (rock texture/structure completely destroyed). Describe state of weathering in accordance with items 4 & 8 for rock description (see other side).

Sedimentary (Transported) Soils

Coarse soils: Describe overall discolouration of soil and degree of decomposition of gravel and larger particles (see item 4, other side). Also note any signs of disintegration of large particles where apparent.

Fine Soils: Describe overall discolouration of soil where apparent.

6. SOIL NAME

A. Basic Soil Types

Soil Type	Particle Sizes (mm)		Identification
BOULDERS	--	> 200	Only seen complete in pits or exposures.
COBBLES	--	60 - 200	Often difficult to recover from boreholes.
GRAVELS	Coarse	20 - 60	Easily visible to naked eye; particle shape and grading can be described.
	Medium	6 - 20	Well-graded: wide range of grain sizes.
	Fine	2 - 6	Poorly-graded: not well-graded (split further into uniform or gap-graded).
SANDS	Coarse	0.6 - 2	Visible to naked eye; very little or no cohesion; grading can be described.
	Medium	0.2 - 0.6	May be well-graded or poorly-graded (uniform or gap-graded) as for gravel.
	Fine	0.06 - 0.2	
SILTS	Coarse	0.02 - 0.06	Only coarse silt barely visible to naked eye; exhibits little plasticity and marked dilatancy; slightly granular or silky to the touch. Disintegrates in water; lumps dry quickly; possesses cohesion but can be powdered easily between fingers.
	Medium	0.006 - 0.02	
	Fine	0.002 - 0.006	
CLAYS	--	< 0.002	Dry lumps can be broken by hand but not powdered between the fingers. Disintegrates in water more slowly than silt; smooth to the touch; exhibits plasticity but no dilatancy; sticks to the fingers and dries slowly; shrinks appreciably on drying, usually showing cracks. These properties more noticeable with increasing plasticity.
ORGANIC CLAYS, SILTS OR SANDS	--	varies	Contains much organic vegetable matter; often has a noticeable smell and changes colour on oxidation.
PEATS	--	varies	Predominantly plant remains; usually dark brown or black in colour, often with distinctive smell; low bulk density.

B. Composite Soil Types (Mixtures of Basic Types)

Principal Soil Type	Terminology Sequence	Term for Secondary Constituent	% of Secondary Constituent
Very coarse (BOULDERS & COBBLES) (> 50% of soil > 60 mm)	Secondary constituents (finer material) ▲ after principal	With a little	< 5
		With some	5 - 20
		With much	20 - 50
Coarse (GRAVELS & SANDS) (> 65% gravel & sand sizes)	Secondary constituents before principal (excluding cobbles & boulders) +	Slightly (silty, clayey or silty/clayey) ❋	< 5
		- (silty, clayey or silty/clayey) ❋	5 - 15
		Very (silty, clayey or silty/clayey) ❋ AND/OR	15 - 35
		Slightly (gravelly or sandy) ❋	< 5
		- (gravelly or sandy) ❋	5 - 20
		Very (gravelly or sandy) ❋	20 - 50
Fine (SILTS & CLAYS) (> 35% silt & clay sizes)	Secondary constituents before principal (excluding cobbles & boulders) +	Slightly (gravelly or sandy or both) ❋	< 35
		- (gravelly or sandy) ❋	35 - 65

▲ Full name of finer material should be given (see examples below).

❋ Secondary soil type as appropriate; use 'silty/clayey' when a distinction cannot be made between the two.

\+ If cobbles or boulders are also present in a coarse or fine soil, this can be indicated by using one of the following terms relating to the very coarse fraction after the principal: 'with occasional' (< 5), 'with some' (5-20), 'with many' (20-50), where figures in brackets are % very coarse material expressed as a fraction of the whole soil (see examples below).

Examples: Slightly silty/clayey, sandy GRAVEL. Slightly gravelly, sandy SILT. Very gravelly SAND. Sandy GRAVEL with occasional boulders. BOULDERS with much finer material (silty/clayey, very sandy gravel).

For fine soils, plasticity terms should also be described where possible, viz: 'non-plastic' (generally silts), 'intermediate plasticity' (lean clays), 'high plasticity' (fat clays).

7. DISCONTINUITIES

Full description of discontinuities, where necessary, should be made using the methods and terms given in item 7 for rock description (see other side).

8. ADDITIONAL GEOLOGICAL INFORMATION

Record geological name which indicates geological origin or soil type (e.g. Alluvium, Colluvium, Marine sand etc.). Refer to HKGS maps & memoirs for further information.

NOTES:

1. Mass characteristics of soils (i.e. structure, weathering, discontinuities) can only be described satisfactorily in undisturbed field exposures or large undisturbed samples.
2. For full descriptions of soils derived from insitu rock weathering:
   (a) saprolites - describe as rocks, supplemented by soil strength and soil name terms in brackets,
   (b) residual soils - describe as soils, supplemented by name of parent rock where apparent from field evidence.

CHECKLIST FOR ROCK DESCRIPTION

GEOTECHNICAL ENGINEERING OFFICE, HKSAR

1. STRENGTH

Term	Identification
Extremely weak	Easily crumbled by hand; indented deeply by thumbnail.
Very weak	Crumbled with difficulty; scratched easily by thumbnail; peeled easily by pocket knife.
Weak	Broken into pieces by hand; scratched by thumbnail; peeled by pocket knife; deep indentations (to 5 mm) by point of geological pick; hand-held specimen easily broken by single light hammer blow.
Moderately weak	Broken with difficulty in two hands; scratched with difficulty by thumbnail; difficult to peel but easily scratched by pocket knife; shallow indentations easily made by point of pick; hand-held specimen usually broken by single light hammer blow.
Moderately strong	Scratched by pocket knife; shallow indentations made by firm blow with point of pick; hand-held specimen usually broken by single firm hammer blow. Point load strength (PLS) 0.5 - 2 MPa.
Strong	Firm blows with point of pick cause only superficial surface damage; hand-held specimen requires more than one firm hammer blow to break. PLS 2 - 4 MPa.
Very strong	Many hammer blows required to break specimen. PLS 4 - 8 MPa.
Extremely strong	Specimen only chipped by hammer blows. PLS > 8 MPa.

2. COLOUR

Parameter	Terms
Value	Light, Dark
Chroma	Pinkish, Reddish, Yellowish, Orangish, Brownish, Greenish, Bluish, Purplish, Greyish
Hue	Pink, Red, Yellow, Orange, Brown, Green, Blue, Purple, White, Grey, Black

For uniform colour distribution, choose a hue, supplemented by a value and/or chroma if necessary.

For non-uniform distribution, repeat this procedure using one of the following descriptors: spotted, mottled, dappled, streaked, striped (e.g. light pinkish grey spotted with black).

State whether sample was wet or dry when described.

3. TEXTURE/FABRIC

Texture Terms (Applicable Mainly to Igneous Rocks)
Equigranular, Inequigranular, Megacrystic, Porphyritic, Crystalline, Cryptocrystalline, Aphanitic

Fabric
Describe preferred orientation of grains/crystals where apparent.

Describe intensity, spacing, continuity and any preferred orientation of microfractures where apparent.

4. MATERIAL WEATHERING/ALTERATION

Decomposition Term	Grade Symbol	Typical Characteristics
Residual Soil	VI	Original rock texture completely destroyed; can be crumbled by hand and finger pressure into constituent grains.
Completely Decomposed	V	Original rock texture preserved; can be crumbled by hand and finger pressure into constituent grains; easily indented by point of geological pick; slakes in water; completely discoloured compared with fresh rock.
Highly Decomposed	IV	Can be broken by hand into smaller pieces; makes a dull sound when struck by hammer; not easily indented by point of pick; does not slake in water; completely discoloured compared with fresh rock.
Moderately Decomposed	III	Cannot usually be broken by hand; easily broken by hammer; makes a dull or slight ringing sound when struck by hammer; completely stained throughout.
Slightly Decomposed	II	Not broken easily by hammer; makes a ringing sound when struck by hammer; fresh rock colours generally retained but stained near joint surfaces.
Fresh Rock	I	Not broken easily by hammer; makes a ringing sound when struck by hammer; no visible signs of decomposition (i.e. no discolouration).

This classification is applicable to igneous and volcanic rocks and other rocks of equivalent strength in fresh state.

Disintegration
Describe small-scale cracking and fracturing caused by mechanical weathering, where apparent.

Alteration
Describe state of alteration (e.g. mineralised, kaolinised) where apparent.

5. ROCK NAME (Including Grain Size)

Igneous	:	Coarse- (6-20 mm), Medium- (2-6 mm) & Fine- (0.06-2 mm) grained GRANITE; GRANODIORITE. Very Fine-grained (< 0.06 mm) RHYOLITE; BASALT. (Common types only, see Geoguide 3 for others).
Pyroclastic	:	PYROCLASTIC BRECCIA (> 60 mm), Lapilli TUFF (2-60 mm), Coarse ash TUFF (0.06-2 mm), Fine ash TUFF (< 0.06 mm).
Metamorphic	:	Foliated - SCHIST (> 0.06 mm), PHYLLITE (< 0.06 mm). Non-foliated - MARBLE, QUARTZITE, FAULT BRECCIA.
Sedimentary	:	CONGLOMERATE, BRECCIA (> 2 mm), SANDSTONE (0.06-2 mm), MUDSTONE (< 0.06 mm) = SILTSTONE (0.002-0.06 mm) + CLAYSTONE (< 0.002 mm). (Common types only).

If rock name cannot be identified, describe grain size quantitatively, including textural term where appropriate.

6. STRUCTURE

Structural Term	Rock Type
Bedded, Laminated, Massive	Sedimentary
Massive, Flow-banded	Igneous, Pyroclastic
Foliated, Banded, Cleaved	Metamorphic

Spacing of Planar Structures
Very thick (> 2 m), Thick (0.6-2 m), Medium (200-600 mm),
Thin (60-200 mm), Very thin (20-60 mm),
Thickly-laminated (Sedimentary) (6-20 mm) or Narrow (Igneous, Metamorphic) (6-20 mm),
Thinly-laminated (Sedimentary) (< 6 mm) or Very narrow (Igneous, Metamorphic) (< 6 mm).

Examples: Thickly-bedded SANDSTONE. Narrowly flow-banded RHYOLITE.

7. DISCONTINUITIES

Nature (Type of Discontinuity)

Fault zone	Cleavage	Fissure	Bedding
Fault	Schistocity	Tension crack	
Joint	Shear plane	Foliation	

Location and Orientation
Record location as co-ordinates or relative position along datum line, preferably on map or plan.

Record orientation as dip direction/dip in degrees (e.g. 032/55).

Spacing
Extremely widely-spaced (> 6 m), Very widely-spaced (2-6 m),
Widely-spaced (0.6-2 m), Medium-spaced (200-600 mm),
Closely-spaced (60-200 mm), Very closely-spaced (20-60 mm),
Extremely closely-spaced (< 20 mm).

In exposures, supplement spacing with description of rock block shape where possible. Descriptors: Blocky, Tabular, Columnar, Polyhedral.

Persistence (Areal extent or size of a discontinuity within a plane)
Measured maximum persistence dimension should be used where possible (e.g. the discontinuity trace length on the surfaces of rock exposures). For general descriptions of different discontinuity sets, relative terms should be used.

Roughness
Waviness (large-scale): Estimate/measure wavelength and amplitude in metres.
Unevenness (small-scale), use one term from the following:

Rough stepped	Smooth stepped	Slickensided stepped
Rough undulating	Smooth undulating	Slickensided undulating
Rough planar	Smooth planar	Slickensided planar

Aperture Size
Wide (> 200 mm), Moderately wide (60-200 mm), Moderately narrow (20-60 mm), Narrow (6-20 m), Very narrow (2-6 mm), Extremely narrow (> 0-2 mm), Tight (zero).

Infilling (Nature)

Clean	Surface staining	Decomposed/ disintegrated rock
Non-cohesive soil	Cohesive soil	
Calcite	Manganese	Quartz
Other (Specify)		Kaolin

Give full description of infill materials/minerals where appropriate.

Seepage
Dry Damp/wet Seepage present (estimate quantity in 1/sec or 1/min)

Fracture State
In borehole cores, measure the following: Total Core Recovery (TCR), Solid Core Recovery (SCR), Rock Quality Designation (RQD), Fracture Index (FI). See Geoguide 3 for definitions.

8. MASS WEATHERING

Term	Zone Symbol	Typical Characteristics
Residual Soil	RS	**Residual soil derived from insitu weathering; mass structure and material texture/fabric completely destroyed: 100% soil**
Partially Weathered Rock	PW	**Less than 30% rock**
	0/30	**Soil retains original mass structure and material texture/fabric (i.e. saprolite)** Rock content does not affect shear behaviour of mass, but relict discontinuities in soil may do so. Rock content may be significant for investigation and construction.
	PW	**30% to 50% rock**
	30/50	Both rock content and relict discontinuities may affect shear behaviour of mass.
	PW	**50% to 90% rock**
	50/90	Interlocked structure.
	PW	**Greater than 90% rock**
	90/100	Small amount of the material converted to soil along discontinuities.
Unweathered Rock	UW	**100% rock** May show slight discolouration along discontinuities.

9. ADDITIONAL GEOLOGICAL INFORMATION

Record geological formation name if known. Avoid conjecture. Refer to HKGS maps & memoirs for further information.

NOTES:

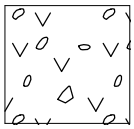
1. Rock material description normally includes: strength, colour, texture/fabric, material weathering/alteration and ROCK NAME.
2. Rock mass description normally includes: strength, colour, structure, mass weathering , ROCK NAME, discontinuities and additional geological information. Can be supplemented with more detailed information on texture/fabric and material weathering/alteration of different materials within the mass where necessary.

APPENDIX B

LEGENDS FOR USE IN EXPLORATORY STATION RECORDS

LEGENDS FOR USE ON EXPLORATORY HOLE RECORDS

AGGLOM



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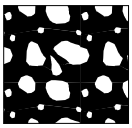

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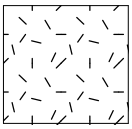

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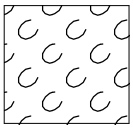

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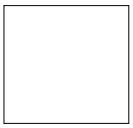

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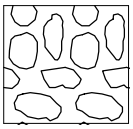

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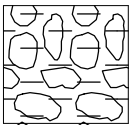

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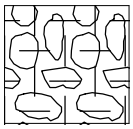

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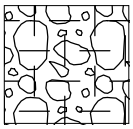

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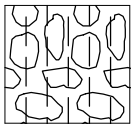

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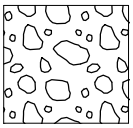

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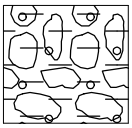

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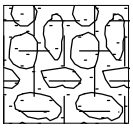

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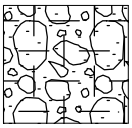

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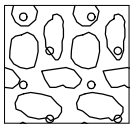

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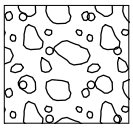

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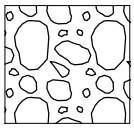

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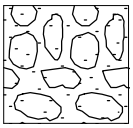

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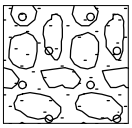

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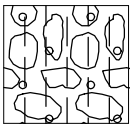

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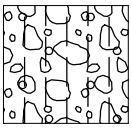

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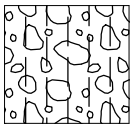

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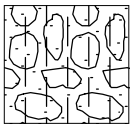

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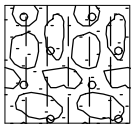

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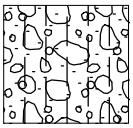

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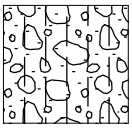

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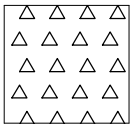

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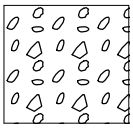

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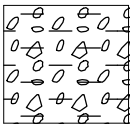

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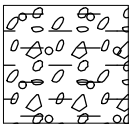

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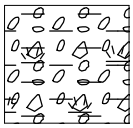

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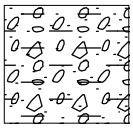

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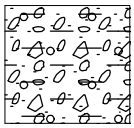

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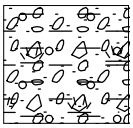

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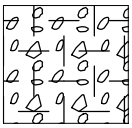

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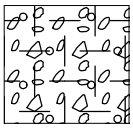

CBBLFS

CBBLFSG

CBBLG

CBBLS

CBBLSG

CBBLSGO

CBBLZ

CBBLZG

CBBLZS

CBBLZSG

CBBLZSO

CLAY

CLAYB

CLAYG

CLAYGB

CLAYGK

CLAYGKB

CLAYGKO

CLAYGO

CLAYK

CLAYKB

CLAYO

CLAYOB

CLAYS

CLAYSB

CLAYSG

CLAYSGB

CLAYSGK

CLAYSK

CLAYSKB

CLAYSO

CLAYSTON

CLAYZ

CLAYZB

CLAYZG

CLAYZGB

CLAYZGK

CLAYZGO

CLAYZK

CLAYZO

CLAYZS

CLAYZSB

CLAYZSG

CLAYZSGB

CLAYZSGK

CLAYZSGO

CLAYZSK

CLAYZSO

CONCRETE

CONGLOM

DOLOMITE

FAULT

FILL

FINE

FINEB

FINEG

FINEGB

FINEGK

FINEGKB

FINEO

FINES

FINESB

FINESG

FINESGB

FINESGK

FINESGO

FINESK

FINESO

FISSIN

GABBRO

GNEISS

GRANITE

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GRAVB

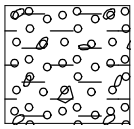
GRAVC

GRAVCB

GRAVCBBL

LEGENDS FOR USE ON EXPLORATORY HOLE RECORDS

GRAVCK



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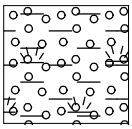

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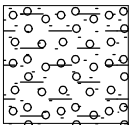

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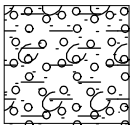

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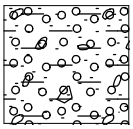

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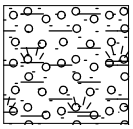

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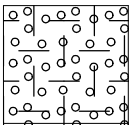

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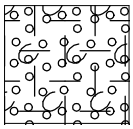

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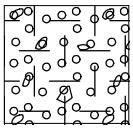

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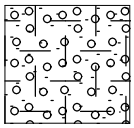

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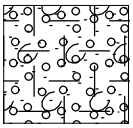

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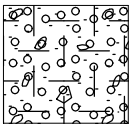

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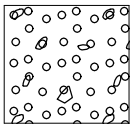
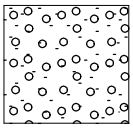


GRAVS



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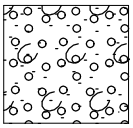

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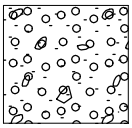

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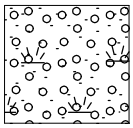

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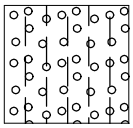

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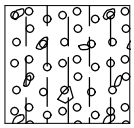

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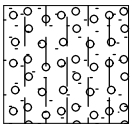

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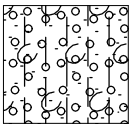

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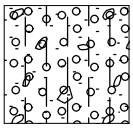

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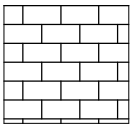

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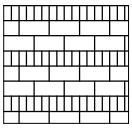

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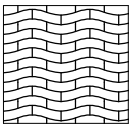

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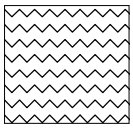

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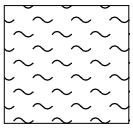

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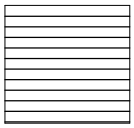

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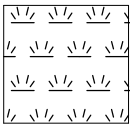
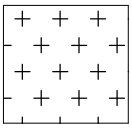


PEGMTITE



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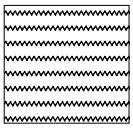

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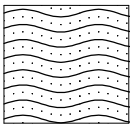

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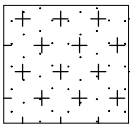

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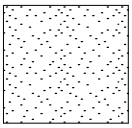

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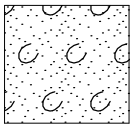

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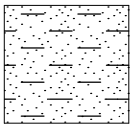

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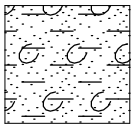

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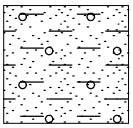

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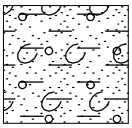

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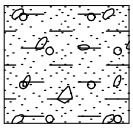

SANDCGO

SANDCK

SANDCO

SANDF

SANDFB

SANDFG

SANDFGB

SANDFGK

SANDFGO

SANDFK

SANDFO

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SANDGB

SANDGK

SANDGKB

SANDGO

SANDK

SANDO

SANDSTON

SANDZ

SANDZB

SANDZG

SANDZGB

SANDZGK

SANDZGKB

SANDZGO

SANDZK

SANDZKB

SANDZO

SCHIST

SHALE

SILT

SILTB

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SILTS

SILTSB

SILTSG

SILTSGB

SILTSGK

SILTSGO

SILTSK

SILTSKO

SILTSO

SILTSTON

SURFACE

SYENITE

TRACHYTE

TUFF

TUFFFINE

VEIN

VOID

WASHING

Legend Code Pick List for field GEOL_LEG (Groups **GEOL and **?LEGD)

Material Code	Description
AGGLOM	Agglomerate, tuff breccia
ASPHALT	Asphalt
BASALT	Basalt
BIOCLAST	Shell
BLANK	Material not recovered
BLDR	Boulder
BLDRCBBL	Boulders and Cobbles
BRECCIA	Breccia (sedimentary)
CBBL	Cobbles
CLAY	Clay
CLAYSTON	Claystone
CONCRETE	Concrete
CONGLOM	Conglomerate
DOLOMITE	Dolomite, dolomitic limestone
FAULT	Fault rock (breccia, gouge, mylonite)
FILL	Fill or made ground
FINE	SILT/CLAY (Geoguide 3 p39)
FISSIN	Fissure infill
GABBRO	Gabbro, lamprophyre
GNEISS	Gneiss
GRANITE	Granite
GRAV	Gravel
LST	Limestone
LSTSLT	Interbedded limestone and silitstone
MARBLE	Marble (pure or impure)
METACON	Contact metamorphic Rock
METAREG	Regional metamorphic Rock
MUDSTONE	Mudstone
ORGANICS	Organic material, peat
PEGMTITE	Pegmatite
PHYLLITE	Phyllite
QUARTZIT	Quartzite, quartz (vein)
RHYOLITE	Rhyolite (feldsparphyric, quartzphyric)
SAND	Sand
SANDSTON	Sandstone
SCHIST	Schist
SHALE	Shale
SILT	Silt
SILTSTON	Siltstone
SURFACE	Artificial surface (masonry, shotcrete, chunam, etc)
SYENITE	Granodiorite, syenite, monzonite
TRACHYTE	Trachyte, dacite, latite, andesite
TUFF	Coarse ash tuff, lapilli tuff
TUFFFINE	Fine ash tuff
VOID	Void
WASHING	Wash Boring (no sample recovery attempted)

Note 1 :

The code BLDRCBBL is reserved for very coarse soils where the sample size is too small to determine the actual proportion of boulders and cobbles (it is not likely to be required for excavations).

Note 2 :

Common Ground (defined at GS 7.22) soil descriptions are based on Geoguide 3.
Textual soil descriptions can become very complex (e.g., Geoguide 3, Tables 11, 15 & 16).
Legend codes for soils shall be constructed according to the following rules :

(a) Made ground of any type shall be represented by the code FILL.

(b) Codes for natural soils shall start with the 4-character code for the basic soil type, taken from the list above (i.e., CLAY, SILT, FINE, SAND, GRAV, CBBL, BLDR).

(c) Secondary and tertiary size fractions from the soil name are indicated using the following codes, appended to the basic soil code, in the order stated below :

(i) C - clayey
(ii) Z - silty
(iii) F - silty/clayey
(iv) S - sandy
(v) G - gravelly, with … gravel
(vi) K - cobbly, with … cobbles
(vii) V - bouldery, with … boulders

(d) Selected additional information is indicated by appending relevant codes from the list (and in the order) below :

(i) O with organic material
(ii) B with shell

The following examples of soil descriptions, from Geoguide 3 Tables 15 and 16, illustrate the derivation of codes :

Slightly silty/clayey, sandy GRAVEL	GRAVFS
Slightly clayey, gravelly SAND	SANDCG
Very gravelly SAND [or SAND with much gravel]	SANDG
Sandy SILT	SILTS
Slighly gravelly, slightly sandy SILT/CLAY	FINESG
[or Slightly sandy SILT/CLAY with occasional gravel]	
Sandy GRAVEL with occasional boulders	GRAVSV
Cobbly BOULDERS with some finer material (slightly gravelly sand)	BLDRSK
BOULDERS with much finer material (silty/clay, very sandy gravel)	BLDRSG

APPENDIX C

DRILLHOLE RECORDS

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH01
	SHEET 1 OF 6

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM26	E 820712.08 N 834110.75	DATE : 06/12/2016 to 24/12/2016
FLUSHING MEDIUM	Air Foam / Water	ORIENTATION Vertical	GROUND LEVEL + 0.55 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
06/12/2016	SW										+0.45	0.10			Concrete surface.
										A 0.50	+0.05	0.50			Firm, dark grey (N 3), locally black, spotted white, clayey sandy SILT with some angular fine to coarse gravel sized rock fragments. (FILL)
										INSPECTION PIT					Firm, dark grey (N 3), spotted white, clayey sandy SILT with occasional shell fragments. (MARINE DEPOSIT)
										B 1.00					
										C 1.30					
										2.00	-1.45	2.00			
			0	0											Yellowish brown (10YR 5/4), spotted white, slightly silty fine to coarse SAND. (ALLUVIUM)
										1 3.00 3.10	-2.55	3.10			
			0	0											Firm, yellowish brown (10YR 5/4), mottled light grey, clayey sandy SILT. (ALLUVIUM)
		2.59m at 18:00						4.20	1,2, 2,2,2,2 N=8	2 4.10 4.20					
06/12/2016										3 4.30					
07/12/2016		2.79m at 08:00						4.65		4 4.60 4.65					
											-4.55	5.10			
			0	83						5 5.10					Firm, grey (N 5), mottled dark grey, clayey sandy SILT with occasional decayed wood pieces and pockets of silty fine to coarse sand. (ALLUVIUM)
										6 6.10 6.20					
			0	95						7					
		2.00m at 18:00								8 7.20 7.30	-6.75	7.30			
07/12/2016															
08/12/2016		0.30m at 08:00						7.30	1,3, 7,6,10,11 N=34	9 7.40					Dense, grey (N 5), spotted white, slightly clayey silty fine to coarse SAND. (ALLUVIUM)
								7.75		10 7.70 7.75					
										8.20					
			0	0											
										11 9.20 9.30					
			0	0											

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	24/12/2016
CHECKED	Y. M. Leung
DATE	04/01/2017

REMARKS
1. An Inspection pit was excavated to 1.30m.
2. Water was used as flushing medium from 18.60m to 55.33m as instructed by the Service Manager. Air foam was used from 1.30m to 18.60m.

J201617e

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH01
	SHEET 2 OF 6

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM26	E 820712.08 N 834110.75	DATE : 06/12/2016 to 24/12/2016
FLUSHING MEDIUM	Air Foam / Water	ORIENTATION Vertical	GROUND LEVEL + 0.55 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	SW	2.65m at 18:00									-9.45	10.00			See sheet 1 of 5
08/12/2016															
09/12/2016		1.07m at 08:00						10.40	3,6, 9,6,8,10 N=33	12 10.30 10.40					
								10.85		13 10.50					
11										14 10.80 10.85					
										15 11.30					
			60	42											
12		3.50m at 18:00													
09/12/2016	SW 12.40									16 12.30 12.40					
10/12/2016	PW	2.50m at 08:00						79 bls		17					
			60	93											
										18 12.85 12.90					
13								12.90	4,11, 9,8,8,12 N=37	19 13.00					
								13.35		20 13.30 13.35					
		3.50m at 18:00									-13.35	13.90			
14 10/12/2016										21 14.00	-13.45	14.00			From 13.90m to 14.00m : Silty fine to coarse SAND with some subangular fine to medium gravel.
12/12/2016		5.80m at 08:00									-13.85	14.40			
										22 14.40					Light grey (N 7), spotted white, silty fine to medium SAND with occasional subangular fine to medium quartz gravel. (ALLUVIUM)
15			60	75											
										23 15.40 15.50	-14.95	15.50			
								36 bls		24					Firm, dark grey (N 3), striped grey, clayey sandy SILT with much angular to subangular fine to coarse gravel sized rock fragments. (KARST SURFACE DEPOSIT)
				100											
16										25 15.95 16.00					
								16.00	1,1, 3,2,8,14 N=27	26 16.10					
								16.45		27 16.40 16.45					
											-16.35	16.90			
17										28 17.00	-16.45	17.00			From 16.90m to 17.00m : Silty fine to coarse SAND with some angular to subangular fine to medium gravel.
											-16.95	17.50			
										17.50					Firm, greyish brown (2.5Y 5/2), mottled dark grey, clayey sandy SILT with much angular to subangular fine to coarse gravel sized rock fragments. (KARST SURFACE DEPOSIT)
18			60	0											
		8.50m at 18:00													
12/12/2016										29 18.50 18.60	-18.05	18.60			
14/12/2016		1.08m at 08:00						49 bls		30					Firm, brown (7.5YR 5/4), mottled dark grey, clayey sandy SILT with some angular to subangular fine to medium gravel sized rock fragments. (KARST SURFACE DEPOSIT)
				100											
19										31 19.05 19.10					
								19.10	5,5, 6,10,8,13 N=37	32 19.20					
								19.55		33 19.50 19.55					
											-19.35	19.90			
20										34 20.00	-19.45	20.00			

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	24/12/2016
CHECKED	Y. M. Leung
DATE	04/01/2017

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH01	SHEET 3 OF 6

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM26	E 820712.08 N 834110.75	DATE : 06/12/2016 to 24/12/2016
FLUSHING MEDIUM Air Foam / Water	ORIENTATION Vertical	GROUND LEVEL + 0.55 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	PW										-19.45	20.00			
											-19.75	20.30			From 19.90m to 20.00m : Clayey silty fine to medium SAND with some subangular fine gravel.
			60	83						T2 IOI 20.30					Dark grey (N 3), spotted white, subangular COBBLE sized impure Marble with much subangular medium to coarse gravel sized rock fragments. (KARST SURFACE DEPOSIT)
										35 20.70	-20.15	20.70			Firm, brown (7.5YR 5/4), mottled and dappled dark grey, clayey sandy SILT with some subangular fine to medium gravel sized rock fragments. (KARST SURFACE DEPOSIT)
21			60	50											
									25 bls	36 21.70 21.80					
22				0											
								22.30	3,3, 9,40,23,18 N=90	37 22.25 22.30					
										38 22.40					
	PW 22.75									39 22.70 22.75	-22.20	22.75		II	Strong, grey, striped light grey and dark grey, slightly decomposed impure MARBLE. Joints are very widely to widely spaced, locally closely to medium spaced, rough planar, occasional smooth planar and rough stepped, tight to extremely narrow, clean and occasional calcite coated, dipping 0° to 10°, 20° to 30°, 40° to 50°, occasional 50° to 60° and 60° to 70°. From 22.75m to 23.10m : With slightly solution features along joints, dipping 40° to 50°.
23							>20	22.90							
			60	98	81	69	9.5	23.11		T2 IOI					
		0.60m at 18:00													
24	14/12/2016									23.95					
	15/12/2016	0.00m at 08:00								T2 IOI					
			30	100	100	100									
25										25.21					
							1.2			T2 IOI					
26			30	100	100	100									
										26.55					
										T2 IOI					
27			30	100	100	100									
										27.95					
								28.17		T2 IOI					
28			30	95	81	42	14.6	28.58							From 28.25m to 28.58m : With slightly solution features along joints, dipping 20° to 30°.
	15/12/2016	0.00m at 18:00								28.80					
	17/12/2016	0.00m at 08:00					4.1	29.07		T2 IOI					
29			10	100	100	96									
										29.61					
										T2 IOI					
30															

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	24/12/2016
CHECKED	Y. M. Leung
DATE	04/01/2017

REMARKS

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH01
	SHEET 4 OF 6

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM26	E 820712.08 N 834110.75	DATE : 06/12/2016 to 24/12/2016
FLUSHING MEDIUM	Air Foam / Water	ORIENTATION Vertical	GROUND LEVEL + 0.55 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
			10	100	100	90	1.2			T2 1 30.31	-29.45	30.00		II	See sheet 3 of 5 From 30.00m to 31.00m : Quartz vein.
31			10	100	100	98				T2 1 31.73					
17/12/2016		0.00m at 18:00						31.60							
19/12/2016		0.00m at 08:00					7.1	32.02							From 31.60m to 31.90m : With closely spaced calcite veins up to 5mm thick, dipping 10° to 20° and 50° to 60°.
32			10	100	93	93	2.2			T2 1 33.16					
33							>20	32.95 33.05							From 32.95m to 33.05m : Moderately strong.
			10	100	100	95	1.7	33.63							
34							3.6	33.91		T2 1 34.55					
			10	100	100	100	0.9	35.03							
35										T2 1 35.90					From 35.45m to 35.87m : Quartz vein.
			10	100	100	100	2.4	36.26							From 36.30m to 36.46m : Quartz vein.
36										T2 1 37.32					From 36.70m to 36.75m : Quartz vein.
19/12/2016		0.00m at 18:00													
20/12/2016		0.00m at 08:00					2.1								
37			10	100	100	100				T2 1 38.69					
							10.0	38.60 38.70							
38			10	100	100	94	1.8	39.80		T2 1					
39															
40															

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	24/12/2016
CHECKED	Y. M. Leung
DATE	04/01/2017

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29		HOLE NO. ADH01
		SHEET 5 OF 6

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM26	E 820712.08 N 834110.75	DATE : 06/12/2016 to 24/12/2016
FLUSHING MEDIUM	Air Foam / Water	ORIENTATION Vertical	GROUND LEVEL + 0.55 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
							6.9	40.38		T2 1	-39.45	40.00		II	See sheet 4 of 5 From 40.05m to 40.13m : Quartz vein. From 40.19m to 40.25m : Quartz vein.
			10	100	100	100	3.2	41.00		T2 1					
41										41.40					
			10	100	100	100				T2 1					
42										42.81					
20/12/2016		0.00m at 18:00					2.4			T2 1					
22/12/2016		0.00m at 08:00								44.21					
43			10	100	100	100				T2 1					
44								44.40							
							10.0	44.50							
							2.2	44.95		T2 1					
45			10	100	98	93	7.1	45.23		45.59					
							2.3			T2 1					
46								46.12							
			10	100	100	100	9.1	46.23		T2 1					
47										46.95					
							1.2			T2 1					
48			10	100	100	100				48.37					
								48.75							
49							6.5	49.06		T2 1					
			10	100	100	100									
22/12/2016		0.00m at 18:00					1.2			49.78					
23/12/2016								49.93		T2 1					
50															

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	24/12/2016
CHECKED	Y. M. Leung
DATE	04/01/2017

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH01
		SHEET 6 OF 6

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM26	E 820712.08 N 834110.75	DATE : 06/12/2016 to 24/12/2016
FLUSHING MEDIUM Air Foam / Water	ORIENTATION Vertical	GROUND LEVEL + 0.55 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
		0.00m at 08:00	0	100	96	85	>20	50.03						II	From 49.93m to 50.03m : BASALT DYKE 100mm thick. dipping 40° to 50°.
51							3.9			T2IOI 51.15					
								51.58							
52			0	100	100	100	1.2			T2IOI 52.56					
								52.45							
							5.6	52.81							
53			0	100	100	95	1.4			T2IOI					
								53.54							
		0.00m at 18:00					5.6	53.72							
54	23/12/2016 24/12/2016	0.00m at 08:00	0	100	100	100	1.2			T2IOI 53.91					
55		0.00m at 18:00								T2IOI					
	24/12/2016							55.33		55.33	-54.78	55.33			End of Investigation Hole at 55.33m.
56															
57															
58															
59															
60															

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	24/12/2016
CHECKED	Y. M. Leung
DATE	04/01/2017

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH02
		SHEET 1 OF 6

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM26	E 820706.84 N 834113.03	DATE : 10/01/2017 to 21/01/2017
FLUSHING MEDIUM Water	ORIENTATION Vertical	GROUND LEVEL + 0.67 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
10/01/2017	SW										+0.57	0.10			Concrete surface.
										A INSPECTION PIT 0.50					Dark grey (N 4), spotted white, clayey silty fine to coarse SAND. (ALLUVIUM)
										B 1.00					
											-1.33	2.00			
			60	95						1 2.00					Firm, reddish brown (2.5YR 5/4), mottled brown and light grey, clayey sandy SILT. (ALLUVIUM)
								3.10	1,2, 2,2,2,2 N=8	2 3.00 3.10					
								3.55		3 3.20					
										4 3.50 3.55	-3.33	4.00			
			60	95						5 4.00					Light yellowish brown (2.5Y 6/3), spotted white, silty fine to coarse SAND. (ALLUVIUM)
										6 5.00 5.10	-4.43	5.10			
		0.91m at 18:00						5.10	1,3, 6,9,9,10 N=34	7 5.20					Firm, light grey (N 7), spotted white, clayey sandy SILT. (ALLUVIUM)
10/01/2017										8 5.50 5.55					
11/01/2017		0.55m at 08:00						5.55			-5.33	6.00			
			50	50						9 6.00					Medium dense to dense, dark grey (N 4), spotted white, silty fine to coarse SAND. (ALLUVIUM)
										10 7.00 7.10					
									54 bls	11					
				93						12 7.55 7.60					
								7.60	2,2, 5,12,15,16 N=48	13 7.70					
								8.05		14 8.00 8.05					
										15 8.60					
									43 bls	16 9.10					
				93						17 9.55 9.60					
								9.60	2,5, 5,6,6,8 N=25	18 9.70					
										10.00					

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	23/01/2017
CHECKED	Y. M. Leung
DATE	23/01/2017

REMARKS
1. An inspection pit was excavated to 1.00m.

J201617e

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH02
		SHEET 2 OF 6

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM26	E 820706.84 N 834113.03	DATE : 10/01/2017 to 21/01/2017
FLUSHING MEDIUM Water	ORIENTATION Vertical	GROUND LEVEL + 0.67 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	SW							10.05		19 10.05	-9.33	10.00			See sheet 1 of 6
										20 10.60					
11										21 11.10	-10.43	11.10			Medium dense, light grey (N 7), spotted white, silty fine to coarse SAND. (ALLUVIUM)
			50	98						22 12.10 12.20					
12								12.20	6,7, 4,4,6,8 N=22	23 12.30					
								12.65		24 12.60 12.65					
13										25 13.10	-12.43	13.10			Dense, light greenish grey (10GY 7/1), spotted white, silty fine to coarse SAND with some subangular to subrounded fine to medium gravel sized rock fragments. (ALLUVIUM)
			50	90						26 14.10 14.20					
14								14.20	1,3, 10,9,10,12 N=41	27 14.30					
	SW 14.65	0.00m at 18:00						14.65		28 14.60 14.65					
11/01/2017 12/01/2017	PW	0.00m at 08:00													
15										29 15.10	-14.43	15.10			Firm to stiff, dark brown (7.5YR 3/4), mottled dark grey, slightly clayey sandy SILT with some subangular to subrounded fine to coarse gravel sized rock fragments. (KARST SURFACE DEPOSIT)
			50	92						30 16.10 16.20					
16								16.20	1,3, 5,6,9,10 N=30	31 16.30					
								16.65		32 16.60 16.65					
17										33 17.10					
			50	96						34 18.10 18.20					
18								18.20	2,2, 5,8,10,12 N=35	35 18.30					
								18.65		36 18.60 18.65					
19	PW 19.10														
	HW		50	88						37 19.10					
										38 19.50 19.60	-18.93	19.60			
		0.00m at 18:00	50	93						T2 101					Grey (N 5), striped white, locally brown, subangular COBBLE sized slightly decomposed impure Marble with
12/01/2017 20 13/01/2017		0.78m								T2 101 19.90					

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	23/01/2017
CHECKED	Y. M. Leung
DATE	23/01/2017

REMARKS

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH02	SHEET 3 OF 6

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM26	E 820706.84 N 834113.03	DATE : 10/01/2017 to 21/01/2017
FLUSHING MEDIUM Water	ORIENTATION Vertical	GROUND LEVEL + 0.67 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
											-19.33	20.00			
	HW	at 08:00	50	73						T2 01	-19.53	20.20			some slightly silty angular medium to coarse gravel sized rock fragments. (KARST SURFACE DEPOSIT)
								20.20	4,5, 6,8,13,18 N=45	39		20.30			Dense, dark brown (7.5YR 3/4), mottled dark grey, clayey silty sandy subangular fine to medium GRAVEL sized rock fragments. (KARST SURFACE DEPOSIT)
								20.65		40		20.60			
21			50	42						41		20.65			
										42	-21.08	21.65			
									42 bls	43		21.75			
22		0.38m at 18:00		64											Dark grey (N 4), spotted brown, sandy angular to subangular fine to medium GRAVEL sized rock fragments. (KARST SURFACE DEPOSIT)
13/01/2017										44	-21.58	22.20			
14/01/2017		0.53m at 08:00	50	86	57	57	>20	22.53				22.25		II	Moderately strong, dark grey, striped white, slightly decomposed impure MARBLE.
							2.7	22.90		T2 01					Joints are medium spaced, locally extremely closely spaced, rough planar and slickensided planar, rough
								22.90	2,2, 6,6,7,8 N=27		-22.23	22.90			undulating, very narrow, iron and manganese oxide stained,
23										45		23.00			calcite coated, dipping 20° to 30° and 60° to 70°.
								23.35		46	-22.68	23.30 23.35			From 22.25m to 22.53m : With solution feature.
															From 22.86m to 22.90m : With solution feature.
							9.4	23.88			-23.21	23.88		II	Firm, dark brown (7.5YR 3/4), mottled light grey, clayey sandy SILT. (CAVITY INFILL DEPOSIT)
24			50	87	48	30	NR	24.03		T2 01	-23.36	24.03			Moderately strong, dark grey, striped white, slightly decomposed impure MARBLE.
							2.0	24.53				24.50		II	Joints are medium spaced, locally extremely closely to very closely spaced, occasional closely spaced, rough planar and undulating, occasional slickensided planar, very
							>20	24.73			-24.06	24.73			narrow, iron and manganese oxide stained, chlorite and calcite coated, dipping 0° to 10°, 20° to 30°, 40° to 50°, 50° to 60° and 60° to 70°.
25			50	50	23	18	NR	25.23		T2 01	-24.56	25.23			From 23.35m to 23.88m : With solution feature.
		0.68m at 18:00					3.7	25.50				25.50		II	From 23.88m to 24.03m : No recovery, inferred to be Cavity.
14/01/2017															From 24.53m to 24.73m : With solution feature.
16/01/2017		0.42m at 08:00					>20	25.73							From 24.73m to 25.23m : No recovery, inferred to be Cavity.
			50	77	38	20	8.7	25.96		T2 01	-25.29	25.96			From 25.50m to 25.73m : With solution feature.
26							NR	26.10			-25.43	26.10			From 25.96m to 26.10m : No recovery, inferred to be Cavity.
								26.10		47					
								26.30	5,7, 100/50mm (100/50mm)	48	-25.63	26.25 26.30			
							9.1	26.41						II	Firm, dark brown (7.5YR 3/4), mottled dark grey, clayey sandy SILT with some subangular fine to medium gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
							>20	26.65			-25.98	26.65			
			50	57	39	11	NR	27.11		T2 01	-26.44	27.11			Moderately strong, dark grey, striped white, slightly decomposed impure MARBLE.
27							20.0	27.26						II	Joints are extremely closely to very closely spaced, locally closely spaced, rough planar and rough stepped, very narrow, iron and manganese oxide stained, dipping 10° to 20°, 40° to 50° and 50° to 60°.
	HW 27.38											27.38			From 26.40m to 26.60m : With solution feature.
			50	100	100	100				T2 01					From 26.65m to 27.11m : No recovery, inferred to be Cavity.
28															Strong, dark grey (N 4), striped white, slightly decomposed impure MARBLE.
		0.57m at 18:00										28.61			Joints are widely to very widely spaced, locally very closely to closely spaced, rough planar and slickensided planar, occasional rough undulating, extremely narrow, calcite and occasional chlorite coated, dipping 0° to 10°, 10° to 20°, 20° to 30°, 50° to 60° and 60° to 70°.
16/01/2017															
17/01/2017		0.35m at 08:00													
29			50	100	100	100				T2 01					
							0.8								
30															

- Disturbed sample
- Piston sample
- Split spoon sample
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- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	23/01/2017
CHECKED	Y. M. Leung
DATE	23/01/2017

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH02
		SHEET 4 OF 6

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM26	E 820706.84 N 834113.03	DATE : 10/01/2017 to 21/01/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 0.67 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
										30.03	-29.33	30.00		II	See sheet 3 of 6
31			50	100	100	100				T2 1 01					
										31.46					
32			50	100	100	98	13.3	32.19 / 32.34		T2 1 01					
										32.89					
33			50	100	100	100				T2 1 01					
34										34.32					
35			50	100	100	100				T2 1 01					
		0.51m at 18:00								35.82					
	17/01/2017														
36	18/01/2017	0.35m at 08:00	20	100	100	100				T2 1 01					
37										37.17					
38			20	100	100	100				T2 1 01					
		0.48m at 18:00								38.59					
	18/01/2017														
	19/01/2017	0.36m at 08:00													
39			20	100	100	100				T2 1 01					
40															

- Disturbed sample
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LOGGED	S. C. Law
DATE	23/01/2017
CHECKED	Y. M. Leung
DATE	23/01/2017

REMARKS

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH02	SHEET 5 OF 6

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM26	E 820706.84 N 834113.03	DATE : 10/01/2017 to 21/01/2017
FLUSHING MEDIUM Water	ORIENTATION Vertical	GROUND LEVEL + 0.67 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
										40.04	-39.33	40.00		II	See sheet 4 of 6
			20	100	100	100				T2IOI					
										41.49					
			20	100	100	100	0.5			T2IOI					
										42.95					
			20	100	100	100				T2IOI					
										44.34					
			20	100	100	100				T2IOI					
		0.51m at 18:00								45.76					
19/01/2017										T2IOI					
20/01/2017		0.35m at 08:00	30	100	100	100									
										47.22					
			30	100	100	100				T2IOI					
										48.64					
			30	100	100	100				T2IOI					

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LOGGED	S. C. Law
DATE	23/01/2017
CHECKED	Y. M. Leung
DATE	23/01/2017

REMARKS

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH02
		SHEET 6 OF 6

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM26	E 820706.84 N 834113.03	DATE : 10/01/2017 to 21/01/2017
FLUSHING MEDIUM Water	ORIENTATION Vertical	GROUND LEVEL + 0.67 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
										T2IOI 50.06	-49.33	50.00		II	See sheet 5 of 6
51			30	100	100	100				T2IOI 51.05					
52		0.53m at 18:00	30	100	100	92				T2IOI 52.46					
53	20/01/2017 21/01/2017	0.36m at 08:00	30	100	91	63	14.8	52.31		T2IOI 53.67					From 52.58m to 52.78m : With some microfractures, randomly oriented.
54			0	100	100	100	>20 20.0	52.58 52.68 52.78		T2IOI 55.09					
55			0	100	100	100	1.6 20.0	54.63 54.78		T2IOI 55.81	-55.14	55.81			
56	21/01/2017	0.35m at 18:00					1.0	55.81							End of Investigation Hole at 55.81m.
57															
58															
59															
60															

- Disturbed sample
- Piston sample
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- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
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- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
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- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	23/01/2017
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DATE	23/01/2017

REMARKS

J201617e

DRILLHOLE RECORD

CONTRACT NO. : GE/2015/29	HOLE NO. ADH03
	SHEET 1 OF 8

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM36	E 820714.22 N 834096.92	DATE : 06/12/2016 to 29/12/2016
FLUSHING MEDIUM	Air Foam / Water	ORIENTATION Vertical	GROUND LEVEL + 0.58 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
06/12/2016	SW										+0.48	0.10			Concrete surface.
										A INSPECTION PIT 0.50					Brown (7.5YR 5/4), mottled grey, spotted white, slightly clayey silty fine to coarse SAND. (ALLUVIUM)
										B 1.00					
										C 1.10					
											-1.42	2.00			
				95						1 2.00					Brown (7.5YR 5/4), mottled light grey, clayey silty fine to medium SAND. (ALLUVIUM)
										2 3.00	-2.52	3.10			
								3.10	2,2,2,2,3 N=9	3 3.20					Loose, light grey (N 7), mottled brown, clayey fine to coarse SAND. (ALLUVIUM)
								3.55		4 3.50 3.55					
06/12/2016		2.00m at 18:00									-3.42	4.00			
07/12/2016		0.40m at 08:00		40						5 4.00					Brown (7.5YR 5/4), mottled greyish brown, silty fine to coarse SAND. (ALLUVIUM)
										6 5.00 5.10	-4.52	5.10			
				82						7					Light grey (N 7), spotted white, silty fine to coarse SAND. (ALLUVIUM)
										8 6.10 6.20	-5.62	6.20			
								6.20	2,2,2,2,5 N=11	9 6.30					Medium dense, grey (N 5), spotted white, silty fine to coarse SAND. (ALLUVIUM)
								6.65		10 6.60 6.65					
				95						11 7.10					
										12 8.10 8.20					
								8.20	3,4,4,5,7,7 N=23	13 8.30					
								8.65		14 8.60 8.65					
											-8.52	9.10			
				95						15 9.10					Medium dense, light grey (N 7), spotted white, silty fine to coarse SAND. (ALLUVIUM)

- Disturbed sample
- Piston sample
- Split spoon sample
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- U100 undisturbed sample
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- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	29/12/2016
CHECKED	Y. M. Leung
DATE	30/12/2016

REMARKS
1. An inspection pit was excavated to 1.10m.
2. Water was used as flushing medium from 32.00m to 76.40m as instructed by the Service Manager. Air foam was used from 1.10m to 32.00m.

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH03
	SHEET 2 OF 8

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM36	E 820714.22 N 834096.92	DATE : 06/12/2016 to 29/12/2016
FLUSHING MEDIUM	Air Foam / Water	ORIENTATION Vertical	GROUND LEVEL + 0.58 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	TCR %	SCR %	RQD %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	SW										-9.42	10.00			See sheet 1 of 8
								10.20	5,5, 7,9,13,19 N=48	16 10.10 10.20					
								10.65		17 10.30					
										18 10.60 10.65					
11										19 11.10					
				95											
12	SW 12.20	2.00m at 18:00								20 12.10 12.20					
07/12/2016								12.20	3,3, 5,5,5,7 N=22						
08/12/2016	PW	0.50m at 08:00								21 12.30					
								12.65		22 12.60 12.65					
13											-12.52	13.10			
										23 13.10					Firm, dark grey (N 3), spotted white, slightly clayey sandy SILT with occasional subangular fine gravel sized rock fragments. (KARST SURFACE DEPOSIT)
				50											
14										24 14.10 14.20	-13.62	14.20			
										25					Stiff, greyish brown (2.5Y 5/2), mottled dark grey, slightly clayey sandy SILT with much angular to subangular fine to coarse gravel sized rock fragments. (KARST SURFACE DEPOSIT)
				90											
15										26 15.20 15.30					
								15.30	2,3, 3,7,7,8 N=25	27 15.40					
								15.75		28 15.70 15.75					
16															
										29 16.20					
				40											
17										30 17.20 17.30					
										31					
				70											
18		2.00m at 18:00													
08/12/2016										32 18.30 18.40					
09/12/2016		0.40m at 08:00						18.40	3,4, 11,16,16,21 N=64	33 18.50					
								18.85		34 18.80 18.85					
19															
										19.30					
				0											
20															

● Disturbed sample
Piston sample
Split spoon sample
U76 undisturbed sample
U100 undisturbed sample
Mazier sample
SPT liner sample
▲ Water sample
En Environmental Sample

Standard penetration test
V In-situ vane shear test
Permeability test
Pressuremeter test
Packer Test
Acoustic or optical televiewer survey
Piezometer tip
Standpipe
Groundwater Sampling Well
Vibrating wire piezometer
Impression packer test

LOGGED	S. C. Law
DATE	29/12/2016
CHECKED	Y. M. Leung
DATE	30/12/2016

REMARKS

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH03
		SHEET 3 OF 8

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM36	E 820714.22 N 834096.92	DATE : 06/12/2016 to 29/12/2016
FLUSHING MEDIUM Air Foam / Water	ORIENTATION Vertical	GROUND LEVEL + 0.58 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	PW										-19.42	20.00			See sheet 2 of 8
										35 20.30 20.40	-19.82	20.40			
21				0											Dark grey (N 3), mottled brown, clayey silty subangular fine to coarse GRAVEL sized rock fragments. (KARST SURFACE DEPOSIT)
										36 21.40 21.50	-20.92	21.50			
22				72						T2101					Dark grey (N 3), mottled greyish brown, clayey silty subangular fine to coarse GRAVEL sized rock fragments. (KARST SURFACE DEPOSIT)
										22.50	-21.92	22.50			
23				0											Firm, brown (7.5YR 5/4), mottled dark grey, occasional spotted white, slightly clayey sandy SILT with much subangular fine to coarse gravel sized rock fragments. (KARST SURFACE DEPOSIT)
		12.00m at 18:00								37 23.50 23.60					
	09/12/2016 10/12/2016	0.70m at 08:00		0						38 24.00 24.10	-23.52	24.10			
24										T2101					Greyish brown (2.5Y 5/2), mottled dark greyish brown, slightly clayey sandy subangular fine to coarse GRAVEL sized rock fragments and occasional subangular cobble sized moderately decomposed Metasiltstone. (KARST SURFACE DEPOSIT)
25				43											
										39 25.30	-24.72	25.30			Dense, greyish brown (2.5Y 5/2), mottled dark greyish brown, silty fine to coarse SAND with much subangular fine to coarse gravel sized rock fragments. (KARST SURFACE DEPOSIT)
26				50											
										40 26.30 26.40					
				0					47 bls	41 26.85 26.90					
27								26.90	2,4, 5,6,11,12 N=34	42 27.00					
		5.30m at 18:00						27.35		43 27.30 27.35					
	10/12/2016 12/12/2016	0.80m at 08:00													
28										44 28.00	-27.62	28.20			
										28.20					Brown (7.5YR 5/4), mottled dark grey, sandy angular to subangular fine to medium GRAVEL sized rock fragments. (KARST SURFACE DEPOSIT)
29				46						T2101					
										45 29.60					
30															

- Disturbed sample
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LOGGED	S. C. Law
DATE	29/12/2016
CHECKED	Y. M. Leung
DATE	30/12/2016

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH03
		SHEET 4 OF 8

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM36	E 820714.22 N 834096.92	DATE : 06/12/2016 to 29/12/2016
FLUSHING MEDIUM Air Foam / Water	ORIENTATION Vertical	GROUND LEVEL + 0.58 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	PW			45							-29.42	30.00			See sheet 3 of 8
									154 bls	46 30.60–30.70	-30.12	30.70			
		6.10m at 18:00		0						47 30.92–30.97	-30.44	31.02			Light grey (N 7), locally grey, spotted white, subangular medium to coarse GRAVEL sized rock fragments. (KARST SURFACE DEPOSIT)
31	12/12/2016 13/12/2016	0.30m at 08:00		41	26	26	>20	31.17						II	Moderately strong to strong, grey, striped white, slightly decomposed impure MARBLE.
							8.0	31.42			-30.84	31.42			Joints are very closely to closely spaced, locally medium spaced, rough planar and undulating, extremely narrow, iron and manganese oxide stained, occasional chlorite coated, dipping 0° to 10°, 10° to 20°, 40° to 50°, 60° to 70° and 70° to 80°.
		1.20m at 18:00					NR			T2I0I					
32	13/12/2016 PW 32.00							32.00		32.00	-31.42	32.00			From 31.42m to 32.00m : No recovery, inferred to be Cavity.
	14/12/2016 HW	0.40m at 08:00	50	84	65	49	>20	32.87						II	From 32.14m to 32.75m : Subvertical joints.
33							6.5	33.18			-32.60	33.18			
							NR	33.40		T2I0I 33.40	-32.82	33.40			From 33.18m to 33.40m : No recovery, inferred to be Cavity.
			50	90	77	77	16.7	33.52						II	
34		0.50m at 18:00					2.2	33.98		T2I0I					
	14/12/2016						5.4	34.35		34.35					
	15/12/2016	0.35m at 08:00	50	56	0	0	>20	34.60		T2I0I	-34.02	34.60			
							NR	34.80		34.80	-34.22	34.80			From 34.60m to 34.80m : No recovery, inferred to be Cavity.
35			60	20						48					Firm, brown (7.5YR 5/4), mottled dark grey and greyish brown, slightly clayey sandy SILT with some angular to subangular fine to coarse gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
									211 bls	49 35.80–35.90					
36				89						50					
										51 36.35–36.40					
									36.40 8,12, 32,68/25mm (100/100mm) 36.65	52 53 36.60–36.65	-36.07	36.65			
37			50	100	100	100				T2I0I				II	Moderately strong to strong, grey, striped white, slightly decomposed impure MARBLE.
										37.50					Joints are widely spaced, locally medium spaced, occasional very closely to closely spaced, rough planar and undulating, slickensided and occasional smooth planar, extremely narrow to very narrow, iron and manganese oxide stained, chlorite coated, dipping 0° to 10°, 10° to 20°, 40° to 50°, 50° to 60° and 60° to 70°.
			50	100	100	100				T2I0I					
38										38.08					
			50	100	100	100				T2I0I					
39		1.10m at 18:00													
	15/12/2016 16/12/2016	0.20m at 08:00					2.0			39.46 T2I0I					
40															

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	29/12/2016
CHECKED	Y. M. Leung
DATE	30/12/2016

REMARKS

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH03
		SHEET 5 OF 8

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM36	E 820714.22 N 834096.92	DATE : 06/12/2016 to 29/12/2016
FLUSHING MEDIUM	Air Foam / Water	ORIENTATION Vertical	GROUND LEVEL + 0.58 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level -39.42	Depth (m) 40.00	Legend	Grade	Description
	HW													II	See sheet 4 of 8
			50	100	100	100				T2 IOI 40.96					
			50	100	100	100				T2 IOI 42.48					
			50	100	95	88	16.7	42.72 – 42.96		T2 IOI 43.94					From 43.90m to 45.30m : With quartz veins
							5.7	44.02							
			50	100	100	100	3.4	45.20		T2 IOI 45.42					From 45.95m to 46.42m : With quartz veins
16/12/2016		1.50m at 18:00					12.9	45.51							
17/12/2016		0.30m at 08:00													
			50	100	100	100	1.6	48.68		T2 IOI 48.34					
			50	100	100	100	9.1	49.23		T2 IOI 49.86					From 49.00m to 54.40m : With quartz veins

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	29/12/2016
CHECKED	Y. M. Leung
DATE	30/12/2016

REMARKS

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH03
		SHEET 6 OF 8

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM36	E 820714.22 N 834096.92	DATE : 06/12/2016 to 29/12/2016
FLUSHING MEDIUM Air Foam / Water	ORIENTATION Vertical	GROUND LEVEL + 0.58 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	HW						2.3				-49.42	50.00		II	See sheet 5 of 8
			50	100	85	80				T2 IOI					
51		1.20m at 18:00					>20	50.97 51.07							From 50.97m to 51.07m : With solution feature.
17/12/2016							11.8	51.24		51.34					
19/12/2016		0.20m at 08:00													From 51.34m to 53.30m : Solution feature with subvertical joints.
52			50	99	21	0	>20			T2 IOI					
										52.75					From 52.40m to 52.49m : Moderately weak.
53			50	100	93	21				T2 IOI					
		1.30m at 18:00					10.0	53.30 53.50		53.50					
19/12/2016															
21/12/2016		0.20m at 08:00					2.6	53.88							
54			50	100	79	57				T2 IOI					
		0.20m at 18:00					11.5								
21/12/2016								54.40 54.54	50/75mm 100/65mm (100/65mm)	54.40	-53.82	54.40			
23/12/2016		0.30m at 08:00								54 54.54	-53.96	54.54			Very dense, grey (N 5), spotted white, angular to subangular fine to medium GRAVEL sized rock fragments. (CAVITY INFILL DEPOSIT)
55			80	42						T2 IOI					Grey (N 5), striped white, mottled light greenish grey, subangular COBBLE with much subangular fine to coarse gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
										55.69	-55.11	55.69			
56			80	100	100	100				T2 IOI				II	Strong, grey, locally dark grey, striped white, slightly decomposed impure MARBLE
	HW 56.26									56.26					Joints are very widely to widely spaced, locally closely to medium spaced, rough planar and slickensided planar, occasional smooth planar and rough stepped, extremely narrow, iron and manganese oxide stained, chlorite coated, dipping 10° to 20°, 20° to 30°, 40° to 50° and 60° to 70°.
57			80	100	100	100				T2 IOI					From 55.69m to 61.25m : FAULT BRECCIA with BASALT DYKES.
															From 56.75m to 56.91m : With solution feature.
										57.60					
											-57.22	57.80			From 57.80m to 58.98m : BASALT.
58			80	100	100	100				T2 IOI					
59		1.30m at 18:00									-58.40	58.98			
23/12/2016										59.10					
24/12/2016		0.20m at 08:00													
							1.1			T2 IOI	-59.00	59.58			From 59.58m to 61.03m : BASALT.
60			80	100	100	100									

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	29/12/2016
CHECKED	Y. M. Leung
DATE	30/12/2016

REMARKS

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29		HOLE NO. ADH03
		SHEET 7 OF 8

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM36	E 820714.22 N 834096.92	DATE : 06/12/2016 to 29/12/2016
FLUSHING MEDIUM Air Foam / Water	ORIENTATION Vertical	GROUND LEVEL + 0.58 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
											-59.42	60.00			
										T2 1 01 60.42				II	See sheet 6 of 8
61											-60.45	61.03			
			80	100	100	100				T2 1 01					From 61.25m to 69.55m : Impure Marble.
62										61.93					
			80	100	100	100				T2 1 01					From 62.10m to 63.30m : Light green with quartz veins.
63										63.44					
								63.54							
							16.0	63.79							
64			80	100	97	93				T2 1 01					
65							3.9			64.92					
			80	100	100	94				T2 1 01					
66								66.10							
	24/12/2016	1.10m at 18:00								66.45					
	28/12/2016	0.30m at 08:00													
67							1.6			T2 1 01					
			80	100	100	100									
68								67.94		67.90					
			80	100	100	86				T2 1 01					
69										68.95					From 69.00m to 69.55m : White MARBLE.
							5.3								From 69.38m to 71.58m : White MARBLE.
										T2 1 01					
			80	100	97	91									
70															

- Disturbed sample
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- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	29/12/2016
CHECKED	Y. M. Leung
DATE	30/12/2016

REMARKS

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH03
	SHEET 8 OF 8

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM36	E 820714.22 N 834096.92	DATE : 06/12/2016 to 29/12/2016
FLUSHING MEDIUM	Air Foam / Water	ORIENTATION Vertical	GROUND LEVEL + 0.58 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
											-69.42	70.00		II	See sheet 7 of 8
								70.41		T2 1					
71			80	99	66	34	13.4			70.41					
28/12/2016		1.50m at 08:00								T2 1					
72 29/12/2016		0.10m at 08:00						71.98		71.91					
							3.5			T2 1					
			80	100	97	95		72.84							
73										73.39					
74			80	100	100	95				T2 1					
							1.4			74.88					
75										T2 1					
			80	100	100	100									
76										T2 1					
29/12/2016		0.60m at 18:00						76.40		76.40	-75.82	76.40			End of Investigation Hole at 76.40m.
77															
78															
79															
80															

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
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- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	29/12/2016
CHECKED	Y. M. Leung
DATE	30/12/2016

REMARKS

J201617e

DRILLHOLE RECORD

CONTRACT NO. : GE/2015/29	HOLE NO. ADH04
	SHEET 1 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM36	E 820705.48 N 834096.74	DATE : 10/01/2017 to 10/02/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 0.74 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
10/01/2017	SW										+0.64	0.10			Concrete surface.
										A INSPECTION PIT 0.50	+0.24	0.50			Grey (N 5), spotted white, slightly silty fine to coarse SAND. (ALLUVIUM)
										B 1.00	-0.26	1.00			Grey (N 5), spotted white, clayey silty fine to coarse SAND. (ALLUVIUM)
															Firm, light reddish brown (2.5YR 7/3), mottled light grey, clayey sandy SILT. (ALLUVIUM)
			60	95						1 2.00					
								3.10	1,1, 2,3,5,5 N=15	2 3.00 3.10					
								3.55		3 3.20					
										4 3.50 3.55	-3.26	4.00			
			60	95						5 4.00					Firm, light grey (N 7), spotted white, clayey sandy SILT. (ALLUVIUM)
										6 5.00 5.10					
								5.10	2,2, 3,2,3,3 N=11	7 5.20					
								5.55		8 5.50 5.55					
											-5.26	6.00			
			60	95						9 6.00					Grey (N 5), spotted white, silty fine to coarse SAND. (ALLUVIUM)
										10 7.00 7.10	-6.36	7.10			
								7.10	2,2, 6,6,8,8 N=28	11 7.20					Medium dense to dense, light grey (N 7), spotted white, occasional mottled white, silty fine to coarse SAND with occasional subangular to subrounded fine to medium gravel sized rock fragments. (ALLUVIUM)
								7.55		12 7.50 7.55					
			60	95						13 8.00					
										14 9.00 9.10					
								9.10	2,3, 5,5,5,7 N=22	15 9.20					
								9.55		16 9.50 9.55					

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	T. C. Yip
DATE	13/02/2017
CHECKED	Y. M. Leung
DATE	15/02/2017

REMARKS
1. An inspection pit was excavated to 1.00m.

J201617e

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH04
	SHEET 2 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM36	E 820705.48 N 834096.74	DATE : 10/01/2017 to 10/02/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 0.74 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	SW									17 10.00	-9.26	10.00			See sheet 1 of 9
11		0.20m at 18:00	60	95											At 10.60m : Light greyish brown.
10/01/2017										18 11.00 11.10					
11/01/2017		0.10m at 08:00						11.10	2,4, 7,7,9,10 N=33	19 11.20					
								11.55		20 11.50 11.55					
12	SW 12.00 PW		60	0						12.00					
13									39 bls	21 13.00					
				89						22 13.10					
										23 13.55 13.60					
								13.60	2,2, 2,4,4,4 N=14	24 13.70					
14								14.05		25 14.00 14.05					
										26 14.70					
15											-14.36	15.10			
										27 15.10					Medium dense, dark brown (7.5YR 3/4), mottled dark grey, slightly clayey silty SAND with much angular to subangular fine to medium gravel sized rock fragments. (KARST SURFACE DEPOSIT)
			60	82											
16										28 16.10 16.20					
								16.20	4,4, 4,5,6,8 N=23	29 16.30					
								16.65		30 16.60 16.65					
17											-16.36	17.10			
										31 17.10					Dark grey (N 3), mottled white, angular to subangular fine to medium GRAVEL sized rock fragments. (KARST SURFACE DEPOSIT)
			60	85											
18										32 18.10 18.20					
								18.20	3,3, 4,5,8,11 N=28		-17.46	18.20			Medium dense, yellowish brown (10YR 5/4), mottled brownish grey, silty fine to coarse SAND. (KARST SURFACE DEPOSIT)
								18.65		33 18.30 34 18.60 18.65					
19											-18.36	19.10			
										35 19.10					Dark grey (N 3), occasional spotted brown, slightly sandy angular to subangular fine to coarse GRAVEL sized rock fragments. (KARST SURFACE DEPOSIT)
			60	55											
20															

- Disturbed sample
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- Split spoon sample
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- SPT liner sample
- Water sample
- En Environmental Sample
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- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	T. C. Yip
DATE	13/02/2017
CHECKED	Y. M. Leung
DATE	15/02/2017

REMARKS

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH04
		SHEET 3 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM36	E 820705.48 N 834096.74	DATE : 10/01/2017 to 10/02/2017
FLUSHING MEDIUM Water	ORIENTATION Vertical	GROUND LEVEL + 0.74 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	PW									36 20.10	-19.26	20.00			See sheet 2 of 9
										36 20.10 / 37 20.20	-19.46	20.20			Stiff, dark brown (7.5YR 3/4), mottled brown and dark grey, slightly clayey sandy SILT with some angular to subangular fine to coarse gravel sized rock fragments. (KARST SURFACE DEPOSIT)
21		0.10m at 18:00	60	50											
	11/01/2017														
	12/01/2017	0.20m at 08:00						21.30	50/75mm, 52,37,11/15mm (100/165mm)	38 21.20 / 39 21.30 / 40 21.49 / 21.54	-20.86	21.60			
								21.54							
										21.60	-21.11	21.85			Grey (N 5), locally brown, striped white, subangular COBBLE sized slightly decomposed impure Marble with some clayey silty subangular medium to coarse gravel sized rock fragments. (KARST SURFACE DEPOSIT)
22			50	34						T2IOI	-21.17	21.91			From 21.85m to 21.91m : Firm to stiff, brown (7.5YR 5/4), dappled light grey, clayey slightly sandy SILT.
	PW 22.50 HW									22.50	-21.76	22.50		IV	Moderately weak, dark grey (N 3), streaked brown, highly decomposed graphitic METASILTSTONE. (Slightly sandy angular fine to coarse GRAVEL)
			50	62	0	0	NA	22.81		T2IOI	-22.07	22.81		V	
23							NR	23.00		23.00	-22.26	23.00		II	From 22.81m to 23.00m : No recovery, inferred to be completely decomposed METASILTSTONE.
							11.5	23.26							Moderately strong to strong, dark grey (N 3), striped white, slightly decomposed impure MARBLE.
							>20	23.40							Joints are widely spaced, locally closely to medium spaced, occasional extremely closely spaced, rough and smooth planar, occasional slickensided planar, very narrow, iron and manganese oxide stained, calcite coated, dipping 10° to 20°, 20° to 30°, 40° to 50° and 50° to 60°.
			50	81	65	56	2.9			T2IOI					From 23.20m to 23.40m : With solution features.
24								24.10			-23.36	24.10			From 24.10m to 24.36m : No recovery, inferred to be Cavity.
							NR	24.36		24.36	-23.62	24.36			From 24.60m to 25.06m : No recovery, inferred to be Cavity.
							4.2	24.60			-23.86	24.60		II	
			50	34	26	26	NR			T2IOI					
25								25.06		25.06	-24.32	25.06			
														II	
		0.15m at 18:00	50	100	100	100				T2IOI					
	12/01/2017									25.83					
26	13/01/2017	0.20m at 08:00					0.9								
			50	100	100	100				T2IOI					
27															
								27.30		27.30	-26.56	27.30			From 27.25m to 27.30m : With solution features.
		0.20m at 18:00						27.30	27,23, 11,15,12,12 N=50						Dense, dark grey (N 3), locally dark greyish brown, spotted white, silty fine to coarse SAND with some subangular fine to medium gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
	13/01/2017							27.75		41 27.75 / 27.80 / 42 27.90	-27.16	27.90			
	14/01/2017	0.30m at 08:00	60	0										II	
28							3.8	28.16		T2IOI					Moderately strong to strong, dark grey (N 3), striped white, slightly decomposed impure MARBLE.
			50	78	52	43	>20	28.37			-27.63	28.37			Joints are medium spaced, locally extremely closely to very closely spaced, rough planar and undulating, very narrow, iron and manganese oxide stained, calcite coated, dipping 30° to 40°, 50° to 60° and 60° to 70°.
							NR	28.50		28.50	-27.76	28.50			From 27.90m to 27.95m : With solution features.
								28.50	2,3, 5,10,10,11 N=36	43 28.60					From 28.16m to 28.37m : With solution features.
29								28.95		44 28.90 / 28.95	-28.26	29.00			From 28.37m to 28.50m : No recovery, inferred to be Cavity.
										45 29.00					Dense, dark grey (N 3), spotted white, clayey silty fine to coarse SAND. (CAVITY INFILL DEPOSIT)
			60	50											Greyish brown (2.5Y 5/2), spotted yellowish brown, clayey
30										30.00					

- Disturbed sample
- Piston sample
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- En Environmental Sample
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- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	T. C. Yip
DATE	13/02/2017
CHECKED	Y. M. Leung
DATE	15/02/2017

REMARKS

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH04	SHEET 4 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM36	E 820705.48 N 834096.74	DATE : 10/01/2017 to 10/02/2017
FLUSHING MEDIUM Water	ORIENTATION Vertical	GROUND LEVEL + 0.74 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	HW									46 30.10	-29.36	30.10		II	silty fine to coarse SAND. (CAVITY INFILL DEPOSIT)
															See sheet 3 of 9
		0.50m at 18:00													Moderately strong to strong, dark grey (N 3), striped white, slightly decomposed impure MARBLE.
14/01/2017			50	91	91	91	3.2			T2IOI					Joints are medium spaced, rough undulating, extremely narrow, iron and manganese oxide stained, calcite coated, dipping 40° to 50°, 50° to 60° and 60° to 70°.
16/01/2017		0.20m at 08:00													
31								31.05	1,2, 1,1,2,3 N=7	31.05	-30.31	31.05			From 30.10m to 30.19m : With solution features.
								31.50							From 30.93m to 31.05m : With solution features.
										47 31.50	-30.76	31.50			Loose, dark grey (N 3), spotted white, slightly clayey silty fine to coarse SAND. (CAVITY INFILL DEPOSIT)
															Grey (N 5), spotted and striped white, sandy subangular fine to coarse GRAVEL sized rock fragments. (CAVITY INFILL DEPOSIT)
32			60	0											
										48 32.50 32.60					
			60	0						49 32.80 32.90	-32.16	32.90			
33															Grey (N 5), striped white, locally brown, subangular COBBLE sized slightly decomposed impure Marble with much slightly silty slightly sandy subangular fine to coarse gravel sized rock fragments and subangular boulder sized slightly decomposed impure Marble up to 230mm. (CAVITY INFILL DEPOSIT)
			50	62						T2IOI					
34															
			50	76						34.20 T2IOI 34.70					
35															
			50	67						T2IOI					
		0.20m at 18:00													
16/01/2017															
17/01/2017		0.20m at 08:00													
36			50	55						35.75 T2IOI 36.63					
37			50	75						T2IOI					
			50	81						37.64 T2IOI 37.90	-37.16	37.90			
38								37.90	3,2, 3,3,4,6 N=16						Medium dense, dark grey (N 3), slightly sandy angular to subangular fine to coarse GRAVEL sized rock fragments. (CAVITY INFILL DEPOSIT)
								38.35		50 38.35	-37.66	38.40			
										51 38.40					Firm, brown (7.5YR 5/4), dappled greyish brown, silty clayey fine to coarse SAND with much angular to subangular fine to coarse gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
39			60	50											
		0.30m at 18:00													
17/01/2017									26 bls	52 39.40 39.50					
18/01/2017		0.20m at 08:00		0											
40										53 39.95					

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- Vibrating wire piezometer
- Impression packer test

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CHECKED	Y. M. Leung
DATE	15/02/2017

REMARKS

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DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH04
		SHEET 5 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM36	E 820705.48 N 834096.74	DATE : 10/01/2017 to 10/02/2017
FLUSHING MEDIUM Water	ORIENTATION Vertical	GROUND LEVEL + 0.74 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	HW							40.00	3,4, 4,4,7,21 N=36	54 40.00 40.10	-39.26	40.00			See sheet 4 of 9
								40.45		55 40.40 40.45					
41			50	80	28	28	8.3			T2IOI 40.90	-40.16	40.90		II	Moderately strong to strong, grey (N 5), streaked light grey, slightly decomposed impure MARBLE. Joints are closely to medium spaced, locally extremely closely spaced, rough planar and undulating, very narrow, iron and manganese oxide stained, calcite coated, dipping 0° to 10° and 20° to 30°.
								41.50	2,3, 3,3,4,6 N=16	56 41.60	-40.76	41.50			
		0.10m at 18:00						41.95		57 41.90 41.95	-41.21	41.95			Medium dense, brown (7.5YR 5/4), dappled greyish brown, silty fine to coarse SAND with much angular fine to medium gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
42	18/01/2017 19/01/2017	0.20m at 08:00					NI	42.10						II	Strong, grey, dappled dark grey, slightly decomposed impure MARBLE.
			50	100	81	79	5.2			T2IOI					Joints are medium spaced, locally very closely to closely spaced, rough planar and rough stepped, extremely narrow to very narrow, clean and locally iron oxide stained. dipping 10° to 20°. From 42.10m to 42.83m : Subvertical joints.
43								43.45			-42.71	43.45			
								43.45	6,10, 13,11,6,7 N=37						Dense, greyish brown (2.5Y 5/2), dappled brown, silty sandy angular fine to coarse GRAVEL sized rock fragments with occasional angular cobble sized moderately decomposed impure Marble. (CAVITY INFILL DEPOSIT)
								43.90		58 43.90	-43.16	43.90			
44							7.4	44.17						II	Moderately strong to strong, dark grey, dappled grey, slightly decomposed impure MARBLE.
			50	77	33	19	>20			T2IOI					Joints are very closely to closely spaced, rough planar and rough stepped, extremely narrow to very narrow, iron and manganese oxide stained, dipping 0° to 10° and 50° to 60°. From 44.17m to 44.90m : With heavily solution features.
								44.90			-44.16	44.90			
45							NR	45.20			-44.46	45.20			From 44.90m to 45.20m : No recovery, inferred to be Cavity.
								45.20	3,1, 1,1,1,5 N=8	45.20					
		0.30m at 18:00						45.65			-44.91	45.65			Loose, brown (7.5YR 5/4), silty fine to coarse SAND with much angular fine to medium gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
	19/01/2017 20/01/2017	0.20m at 08:00					NI	45.80		59 45.65				II	Strong, locally moderately strong, grey, striped light grey, slightly decomposed impure MARBLE.
46			50	84	36	36	4.0	46.05		T2IOI					Joints are closely to medium spaced, locally very closely spaced, rough planar and rough stepped, extremely narrow to very narrow, iron oxide stained and clean, dipping 0° to 10° and 10° to 20°. From 45.65m to 45.75m : With solution features. From 46.05m to 46.30m : With solution features. From 46.80m to 47.15m : With solution features.
							>20	46.30		46.20					
			50	86	48	44	2.1	46.78		T2IOI					
47							NI	47.15			-46.41	47.15			
							NR	47.30		47.30	-46.56	47.30			From 47.15m to 47.30m : No recovery, inferred to be Cavity.
							10.0	47.60						II	From 47.30m to 47.85m : With solution features.
			50	98	63	34	NI	47.75		T2IOI					
48										48.25					
			50	97	85	71	4.3			T2IOI					
								48.90		48.90	-48.16	48.90			
49		0.20m at 18:00						48.90	3,5, 67,33/25mm (100/100mm)						Very dense, brown (7.5YR 5/4), silty sandy angular fine to coarse GRAVEL sized rock fragments. (CAVITY INFILL DEPOSIT)
	20/01/2017 21/01/2017	0.20m at 08:00						49.15		60 49.15	-48.41	49.15			Grey (N 5), dappled light brown, angular to subangular COBBLE sized slightly decomposed impure Marble with some subangular medium to coarse gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
50			50	92						T2IOI					

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- Packer Test
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- Vibrating wire piezometer
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REMARKS

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH04	SHEET 6 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM36	E 820705.48 N 834096.74	DATE : 10/01/2017 to 10/02/2017
FLUSHING MEDIUM Water	ORIENTATION Vertical	GROUND LEVEL + 0.74 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	HW									T2IOI 50.40	-49.66	50.40			See sheet 5 of 9
								50.40	5,7, 7,8,10,12 N=37	61 50.50					Dense, brown (7.5YR 5/4), silty fine to coarse SAND with much angular to subangular fine to coarse gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
								50.85		62 50.80 50.85					
51			60	0											
										63 51.85 51.95	-51.26	52.00			
52									83 bls	52.00					
				0											Dark grey (N 3), dappled grey, angular to subangular medium to coarse GRAVEL sized rock fragments with some subangular cobble sized slightly decomposed impure Marble. (CAVITY INFILL DEPOSIT)
		0.10m at 18:00						52.50	5,7, 9,11,80/50mm (100/200mm)	64 52.45 52.50					
21/01/2017								52.85		65 52.85	-52.11	52.85			
53 23/01/2017		0.30m at 08:00	50	96	53	53	10.7			T2IOI				II	Moderately, dark grey, streaked light grey, slightly impure MARBLE. Joints are closely to medium spaced, locally extremely closely spaced, rough planar and undulating, very narrow, iron and manganese oxide stained, calcite coated, dipping 0° to 10° and 20° to 30°.
								53.60		53.60	-52.86	53.60			
								53.60	1,2, 2,3,3,4 N=12						Firm, brown (7.5YR 5/4), sandy SILT with some angular fine gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
54								54.05		66 54.05	-53.31	54.05			
							NA								Dark grey (N 3), streaked brown, subangular COBBLE sized slightly decomposed impure Marble. (CAVITY INFILL DEPOSIT)
								54.50			-53.76	54.50			
			50	90	20	20	4.8	54.92		T2IOI	-54.18	54.92		II	Moderately strong, dark grey, streaked white, slightly decomposed impure MARBLE. Joints are medium spaced, locally closely spaced, rough planar and undulating, very narrow, calcite coated, dipping 0° to 10° and 50° to 60°.
55							NA								Dark grey (N 3), streaked brown, subangular fine to coarse GRAVEL sized rock fragments. (CAVITY INFILL DEPOSIT)
								55.55	5,8, 11,15,19,26 N=71		-54.81	55.55			Very dense, brown (7.5YR 5/4), silty fine to coarse SAND with some angular fine to medium gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
56 23/01/2017		0.10m at 18:00						56.00		67 56.00	-55.26	56.00			
24/01/2017		0.30m at 08:00					>20	56.25						II	Moderately strong, dark grey, streaked white, brown, slightly decomposed impure MARBLE. Joints are extremely closely to very closely spaced, locally closely to medium spaced, very narrow, iron and manganese oxide stained, calcite coated, dipping 0° to 10°, 20° to 30°, 40° to 50° and 50° to 60°
			50	90	28	28	10.7			T2IOI					
57								57.00		57.00					
			50	86	0	0	>20			T2IOI					
										57.70					
58			50	60	0	0		58.00		T2IOI	-57.26	58.00			
							NR	58.20		58.20	-57.46	58.20			From 58.00m to 58.20m : No recovery, inferred to be Cavity.
								58.20	4,7, 4,7,7,8 N=26	68 58.30					Medium dense, grey (N 5), dappled dark grey and brown, silty sandy angular fine to coarse GRAVEL sized rock fragments. (CAVITY INFILL DEPOSIT)
								58.65		69 58.60 58.65 58.70					
59			60	0											
										70 59.10 59.20	-58.46	59.20			
		0.20m at 18:00	60	94						T2IOI					Grey (N 5), dappled light brown, angular to subangular COBBLE sized slightly decomposed impure Marble with occasional silty sandy angular medium to coarse gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
60															

- Disturbed sample
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REMARKS

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH04
		SHEET 7 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM36	E 820705.48 N 834096.74	DATE : 10/01/2017 to 10/02/2017
FLUSHING MEDIUM Water	ORIENTATION Vertical	GROUND LEVEL + 0.74 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
24/01/2017	HW									T2 1	60.10	-59.26	60.00		See sheet 6 of 9
25/01/2017		0.20m at 08:00	60	89						T2 1					
61											61.60				
			60	96						T2 1					
62												-61.61	62.35		
		0.20m at 18:00			82	82	2.7			T2 1	62.80			II	Strong, grey, dappled dark grey, striped white, slightly decomposed impure MARBLE. Joints are medium spaced, locally very closely to closely spaced, rough planar and rough stepped, extremely narrow to very narrow, calcite coated, locally iron and manganese oxide stained, dipping 10° to 20°, 40° to 50°, 50° to 60° and occasional 60° to 70°.
25/01/2017								63.10							
04/02/2017		0.20m at 08:00	60	100	100	91	3.3			T2 1					
63								63.70							
											63.98				
64			60	100	100	100	2.3			T2 1					
65											65.48				
								65.92							
66			60	99	80	37	6.5			T2 1					From 66.00m to 66.75m : With solution features along joints, dipping 50° to 60° and subvertically.
		0.10m at 18:00									66.98				
67 04/02/2017								67.00							
06/02/2017		0.10m at 08:00	60	100	100	95	2.5			T2 1					
68											68.35				
								69.00							
69			60	99	78	78	10.0			T2 1					From 69.00m to 69.44m : With solution features along joints, dipping 50° to 60° and subvertically.
								69.40							
							3.0				69.85				
70										T2 1					

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REMARKS

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH04
		SHEET 8 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM36	E 820705.48 N 834096.74	DATE : 10/01/2017 to 10/02/2017
FLUSHING MEDIUM Water	ORIENTATION Vertical	GROUND LEVEL + 0.74 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	HW							70.06			-69.26	70.00		II	See sheet 7 of 9 From 70.08m to 70.55m : With solution features.
			60	90	62	44	10.2	70.55		T2101					
							3.3	70.85			-70.11	70.85			
71							NR	71.00			-70.26	71.00			From 70.85m to 71.00m : No recovery, inferred to be Cavity.
							2.9	71.30		71.30				II	
								71.70			-70.96	71.70			
72			60	74	50	38	12.5	72.42		T2101	-71.68	72.42		II	Moderately strong to strong, dark grey, dappled light grey, striped white, slightly decomposed impure MARBLE. Joints are very closely to closely spaced, locally medium spaced, rough planar, very narrow to narrow, iron stained and occasional calcite coated, dipping 0° to 10°, 30° to 40° and 50° to 60°.
		0.20m at 18:00					NR	72.82		72.82	-72.08	72.82			From 72.20m to 72.42m : With solution features.
06/02/2017															From 72.42m to 72.82m : No recovery, inferred to be Cavity.
07/02/2017		0.10m at 08:00					7.9	73.20						II	From 72.82m to 73.60m : With solution features.
73			60	96	41	10	NI	73.57		T2101					
	HW 73.91	0.10m at 18:00								73.91					
07/02/2017 74 08/02/2017	NW	0.10m at 08:00					5.7	74.45			-73.71	74.45			From 74.35m to 74.45m : With solution features.
			60	81	59	49	NR	74.68		TNW	-73.94	74.68		II	From 74.45m to 74.68m : No recovery, inferred to be Cavity.
							>20	75.00							From 74.68m to 74.90m : With solution features.
75										75.14					
			60	79	68	26	6.1	75.66		TNW	-74.92	75.66			From 75.20m to 75.26m : With solution features.
							NR	75.80		75.80	-75.06	75.80			From 75.66m to 75.80m : No recovery, inferred to be Cavity.
76								75.80	4,7, 15,15,9,17 N=56						Very dense, dark brown (7.5YR 3/4), slightly silty fine to coarse SAND with some angular fine gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
								76.25		71 76.25					
								76.80	5,9, 12,17,19,23 N=71		-76.06	76.80			Firm to stiff, grey (N 5), locally dappled brown, dappled light grey, slightly sandy SILT with occasional angular to subangular fine gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
77								77.25		72 77.25					
								77.80	14,14, 22,28,31,19/25mm (100/250mm)	73 77.85					
78								78.20		74 78.15 78.20					
								78.80	5,9, 11,15,20,23 N=69						
79								79.25		75 79.25					
								79.80	4,8, 11,16,18,19 N=64						
80															

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DATE	13/02/2017
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REMARKS

DRILLHOLE RECORD

CONTRACT NO. : GE/2015/29	HOLE NO. ADH04
	SHEET 9 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM36	E 820705.48 N 834096.74	DATE : 10/01/2017 to 10/02/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 0.74 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	NW							80.25		76 ● 80.25	-79.26	80.00			See sheet 8 of 9
08/02/2017		0.10m at 18:00						80.80	9,14, 17,22,28,31 N=98						
09/02/2017		0.10m at 08:00						81.25		77 ● 81.25					
81								81.80	5,5, 5,21,25,25 N=76		-81.06	81.80			Stiff to very stiff, brown (7.5YR 5/4), dappled grey, slightly sandy SILT with some angular to subangular fine to medium gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
82								82.25		78 ● 82.25					
83								82.80	3,5, 5,6,7,6 N=24						
								83.25		79 ● 83.25					
84								83.80	4,6, 8,15,23,25 N=71						
								84.25		80 ● 84.25					
85								84.80	10,21,						
								85.02	100/70mm (100/70mm)	81 ● 85.02	-85.06	85.80			
86								85.80 85.92	50/60mm 100/60mm (100/60mm)	82 ● 85.92	-85.66	86.40			Very dense, grey (N 5), dappled dark grey, angular to subangular medium to coarse GRAVEL sized rock fragments. (CAVITY INFILL DEPOSIT)
87			60	30				86.40		TNW	-86.66	87.40			Grey (N 5), dappled greyish brown, subangular BOULDER sized slightly decomposed impure Marble up to 250mm with some angular medium to coarse gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
								87.40	9,11, 7,10,25,29 N=71						Stiff to very stiff, brown (7.5YR 5/4), dappled grey, sandy SILT with some angular to subangular fine to coarse gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
								87.85		83 ● 87.85					
88								88.40	11,13, 10,17,25,26 N=78						
09/02/2017		0.10m at 18:00						88.85		84 ● 88.85					
89 10/02/2017		0.10m at 08:00						89.40	21,27, 44,56/75mm (100/150mm)	85 89.40					
								89.70		86 ● 89.65 89.70					
90 10/02/2017	NW 90.00	0.20m at 18:00									-89.26	90.00			End of Investigation Hole at 90.00m.

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	T. C. Yip
DATE	13/02/2017
CHECKED	Y. M. Leung
DATE	15/02/2017

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH05
		SHEET 1 OF 8

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM32	E 820710.33 N 834004.26	DATE : 09/01/2017 to 20/01/2017
FLUSHING MEDIUM Water	ORIENTATION Vertical	GROUND LEVEL + 0.79 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
09/01/2017	SW										+0.69	0.10			Concrete surface.
										A 0.50 (INSPECTION PIT)					Dark grey (N 3), spotted white, slightly clayey silty fine to coarse SAND with occasional shell fragments. (FILL)
										B 1.00					
										C 1.20					
											-1.21	2.00			
			60	95						1 2.00					Medium dense, brown (7.5YR 5/4), mottled reddish brown, clayey silty fine to coarse SAND. (ALLUVIUM)
										2 3.00 3.10					
								3.10	3,3, 4,4,4,7 N=19	3 3.20					
								3.55		4 3.50 3.55					
			60	90						5 4.00					
										6 5.00 5.10					
								5.10	1,2, 2,2,4,6 N=14	7 5.20					
								5.55		8 5.50 5.55					
											-5.21	6.00			
			60	58						9 6.00					Dense, dark grey (N 3), spotted white, clayey silty fine to coarse SAND. (ALLUVIUM)
										10 7.00 7.10					
				93					75 bls	11					
										12 7.55 7.60					
								7.60	4,8, 9,10,10,10 N=39	13 7.70					
								8.05		14 8.00 8.05					
										15 8.60					
										9.10					
		0.15m at 18:00	60	0											

- Disturbed sample
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- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	20/01/2017
CHECKED	Y. M. Leung
DATE	06/02/2017

REMARKS
1. An inspection pit was excavated to 1.20m.

J201617e

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH05
		SHEET 2 OF 8

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM32	E 820710.33 N 834004.26	DATE : 09/01/2017 to 20/01/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 0.79 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
09/01/2017 10/01/2017	SW	0.11m at 08:00		96					159 bls	16 10.10 17 10.20	-9.41	10.20			At 10.10m : With much subangular to subrounded fine to coarse quartz gravel. Dense, grey (N 5), spotted white, silty fine to coarse SAND. (ALLUVIUM)
								10.70 11.15	2,3, 7,8,14,18 N=47	18 10.65 10.70 19 10.80 20 11.10 11.15 21 11.70					
	SW 12.20 PW		60	0						12.20					
									53 bls	22 13.20 13.30 23	-12.51	13.30		V	Extremely weak, greyish brown (2.5Y 5/2), dappled reddish brown, streaked brown, completely decomposed graphitic METASILTSTONE. (Slightly sandy SILT with some angular to subangular fine to medium gravel)
				96				13.80 14.25	2,2, 3,8,11,14 N=36	24 13.75 13.80 25 13.90 26 14.20 14.25 27 14.90					
			60	96						28 15.30 29 16.30 16.40					
								16.40 16.85	2,4, 5,6,7,9 N=27	30 16.50 31 16.80 16.85					
			60	96						32 17.30 33 18.30 18.40					
								18.40 18.85	2,4, 6,7,9,11 N=33	34 18.50 35 18.80 18.85					
			60	96						36 19.30					

- Disturbed sample
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- V In-situ vane shear test
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- Packer Test
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- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	20/01/2017
CHECKED	Y. M. Leung
DATE	06/02/2017

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH05
	SHEET 3 OF 8

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM32	E 820710.33 N 834004.26	DATE : 09/01/2017 to 20/01/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 0.79 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	PW										-19.21	20.00		V	See sheet 2 of 8
								20.40	9,18, 23,35,42/20mm (100/170mm)	37 20.30 20.40 38 39 20.67 20.72	-19.61	20.40		V	Extremely weak to very weak, greyish brown (2.5Y 5/2), dappled reddish brown, streaked brown, completely decomposed graphitic METASILTSTONE. (Slightly sandy SILT with much angular to subangular fine to medium gravel)
21								20.72							
			60	96						40 21.30					
22															
								22.40	8,14, 15,22,27,36/45mm (100/270mm)	41 22.30 22.40 42 22.47					
								22.82		43 22.77 22.82					
23		0.13m at 18:00													
10/01/2017 11/01/2017		0.12m at 08:00								44 23.30					
			60	96											
24															
								24.40	15,15, 20,36,44/60mm (100/210mm)	45 24.30 24.40 46 24.41					
								24.76		47 24.71 24.76					
25											-24.51	25.30			
										48 25.30				V	Extremely weak to very weak, greyish brown (2.5Y 5/2), streaked brown, completely decomposed graphitic METASILTSTONE. (Slightly sandy SILT with much angular to subangular fine to medium gravel)
			60	96											
26															
								26.40	21,27, 30,45,25/15mm (100/165mm)	49 26.30 26.40 50 51 26.67 26.72					
								26.72							
27											-26.51	27.30			
										52 27.30				V	Extremely weak to very weak, greyish brown (2.5Y 5/2), dappled reddish brown, streaked light yellowish brown, completely decomposed graphitic METASILTSTONE. (Slightly sandy SILT with some subangular fine to medium gravel)
			60	96											
28															
								28.40	8,11, 27,35,38/35mm (100/185mm)	53 28.30 28.40 54					
								28.74		55 28.69 28.74					
29	PW 29.30 HW														
										56 29.30					
30			60	90											

- Disturbed sample
- Piston sample
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- Mazier sample
- SPT liner sample
- Water sample
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- Standard penetration test
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- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	20/01/2017
CHECKED	Y. M. Leung
DATE	06/02/2017

REMARKS

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH05
	SHEET 4 OF 8

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM32	E 820710.33 N 834004.26	DATE : 09/01/2017 to 20/01/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 0.79 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	HW										-29.21	30.00		V	See sheet 3 of 8
								30.40	9,11, 9,9,11,18 N=47	57 30.30 30.40 58 30.50 59 30.80 30.85					
31								30.85			-30.51	31.30			
			60	96						60 31.30 61 32.30 32.40					Firm to stiff, brown (7.5YR 5/4), mottled dark brown, spotted white, slightly sandy SILT. (KARST SURFACE DEPOSIT)
32								32.40	15,12, 13,20,23,27 N=83	62 32.50 63 32.80 32.85	-31.61	32.40			Firm, grey (N 5), streaked brown, slightly sandy SILT. (KARST SURFACE DEPOSIT)
33		0.13m at 18:00						32.85			-32.51	33.30			
11/01/2017 12/01/2017		0.13m at 08:00	60	70						64 33.30 65 34.30 34.40	-33.61	34.40			Firm, dark grey (N 3), dappled greenish grey, spotted black, sandy SILT with some subangular fine to medium gravel sized rock fragments. (KARST SURFACE DEPOSIT)
34										66 34.40					
			60	95						67 35.40 35.50	-34.71	35.50			Brown (7.5YR 5/4), dappled greyish brown and light greenish grey, silty sandy subangular fine to medium GRAVEL sized rock fragments. (KARST SURFACE DEPOSIT)
35								35.50	9,12, 20,80/25mm (100/100mm)	68 35.70 69 35.75					Firm, greyish brown (2.5Y 5/2), streaked brown, slightly sandy SILT with some subangular fine gravel sized rock fragments. (KARST SURFACE DEPOSIT)
								35.75			-35.61	36.40			
36										70 36.40					Firm to stiff, dark brown (7.5YR 3/4), spotted white, mottled greyish brown, clayey slightly sandy SILT. (KARST SURFACE DEPOSIT)
			60	95						71 37.40 37.50	-36.71	37.50			
37								37.50	8,8, 9,13,15,17 N=54	72 37.60 73 37.90 37.95					Firm, greyish brown (2.5Y 5/2), mottled and streaked brown, slightly sandy SILT with much subangular fine to medium gravel sized rock fragments. (KARST SURFACE DEPOSIT)
38								37.95							
										74 38.40					
			60	95						75 39.40 39.50					
39								39.50	8,10, 11,12,12,38 N=73	76 39.60 77 39.90 39.95					
40								39.95							

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
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- Water sample
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- V In-situ vane shear test
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- Packer Test
- Acoustic or optical televiewer survey
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- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	20/01/2017
CHECKED	Y. M. Leung
DATE	06/02/2017

REMARKS

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH05
		SHEET 5 OF 8

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM32	E 820710.33 N 834004.26	DATE : 09/01/2017 to 20/01/2017
FLUSHING MEDIUM Water	ORIENTATION Vertical	GROUND LEVEL + 0.79 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	HW										-39.21	40.00			See sheet 4 of 8
41			60	95						78 40.40					
								41.50	10,10, 23,57,20/10mm (100/160mm)	79 41.40 41.50 80 81 41.76 41.81					
42								41.81			-41.61	42.40			
										82 42.40					Firm to stiff, greyish brown (2.5Y 5/2), mottled light yellowish brown and dark greyish brown, slightly sandy SILT with some subangular fine to medium gravel sized rock fragments. (KARST SURFACE DEPOSIT)
43			60	95											
								43.50	13,37/25mm, 100/60mm (100/60mm)	83 43.40 43.50 84 85 43.61 43.66					
44		0.11m at 18:00						43.66							
12/01/2017															
13/01/2017		0.09m at 08:00								86 44.40					
45			60	95											
								45.50	10,14, 35,65/55mm (100/130mm)	87 45.40 45.50 88 89 45.73 45.78					
46								45.78			-45.61	46.40			
										90 46.40					Firm to stiff, grey (N 5), dappled greyish brown, slightly clayey slightly sandy SILT. (KARST SURFACE DEPOSIT)
47			60	95											
								47.50	10,11, 12,28,30,30/25mm (100/250mm)	91 47.40 47.50	-46.71	47.50			
								47.90		92 47.55 93 47.85 47.90					Firm to stiff, dark brown, mottled reddish brown, spotted white, slightly clayey sandy SILT with occasional subangular fine to medium gravel sized rock fragments. (KARST SURFACE DEPOSIT)
48		0.10m at 18:00													
13/01/2017															
14/01/2017		0.11m at 08:00								94 48.40					
49			60	92											
								49.50	8,9, 9,9,10,11 N=39	95 49.40 49.50 96 49.60 97 49.90 49.95					
50								49.95							

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
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- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	20/01/2017
CHECKED	Y. M. Leung
DATE	06/02/2017

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH05
		SHEET 6 OF 8

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM32	E 820710.33 N 834004.26	DATE : 09/01/2017 to 20/01/2017
FLUSHING MEDIUM Water	ORIENTATION Vertical	GROUND LEVEL + 0.79 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	HW										-49.21	50.00			See sheet 5 of 8
51			60	95						98 50.40–51.40					
								51.50	4,4, 6,6,8,10 N=30	99 51.40–51.50					
										100 51.60					
52								51.95		101 51.90–51.95	-51.61	52.40			
										102 52.40					Very dense, grey (N 5), spotted dark grey, dappled brown, slightly clayey sandy subangular fine to medium GRAVEL sized rock fragments. (KARST SURFACE DEPOSIT)
53			60	95											
								53.50	8,18, 18,20,22,40/25mm (100/250mm)	103 53.40–53.50					
										104 53.55					
54								53.90		105 53.85–53.90	-53.61	54.40			
			60	50						106 54.40					Grey (N 5), striped white, slightly silty subangular fine to coarse GRAVEL sized rock fragments. (KARST SURFACE DEPOSIT)
55	HW 55.00	0.12m at 18:00								107 54.90–55.00	-54.21	55.00			
14/01/2017 16/01/2017		0.10m at 08:00					>20	55.10						II	Strong, dark grey, spotted white and black, locally striped white, slightly decomposed BASALT. Joints are medium to widely spaced, locally very closely to closely spaced, extremely narrow, chlorite and calcite coated, dipping 0° to 10°, 30° to 40°, 50° to 60° and 60° to 70°. From 55.00m to 56.15m : Impure Marble. From 55.00m to 55.06m : With solution feature, fractured. From 56.15m to 56.78m : Subvertical joints. From 56.35m to 56.39m : With quartz veins, dipping 0° to 10°. At 56.46m : With quartz veins up to 8mm thick, dipping 10° to 20°. At 56.95m : With quartz veins up to 12mm thick, dipping 10° to 20°. From 57.32m to 57.37m : With quartz veins, dipping 0° to 10°. At 57.47m : With quartz veins up to 22mm thick, dipping 10° to 20°. At 57.60m : With quartz veins up to 35mm thick, dipping 10° to 20°. At 57.71m : With quartz veins up to 12mm thick, dipping 30° to 40°. From 57.98m to 58.08m : With quartz veins, dipping 0° to 10°. From 58.91m to 59.02m : With quartz veins, dipping 0° to 10°.
			60	100	78	73	6.7	55.25							
56							1.1	56.14		T2I0I					
							19.0	56.35		56.35	-55.36	56.15			
57			60	100	100	86				T2I0I					
		0.12m at 18:00								57.83					
16/01/2017 17/01/2017		0.10m at 08:00								T2I0I					
58			60	100	100	100	0.5								
										T2I0I					
59										59.28	-58.56	59.35			
										T2I0I				II	Strong, dark grey, striped white, slightly decomposed impure MARBLE. Joints are widely spaced, locally closely to medium spaced, rough planar and slickensided planar, rough undulating,
60															

- Disturbed sample
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LOGGED	S. C. Law
DATE	20/01/2017
CHECKED	Y. M. Leung
DATE	06/02/2017

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH05
		SHEET 7 OF 8

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM32	E 820710.33 N 834004.26	DATE : 09/01/2017 to 20/01/2017
FLUSHING MEDIUM Water	ORIENTATION Vertical	GROUND LEVEL + 0.79 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
											-59.21	60.00			
			60	100	97	96		60.31		T2 IOI 60.70	-59.51	60.30		II	extremely narrow, occasional iron and manganese oxide stained, chlorite and calcite coated, dipping 0° to 10°, 10° to 20°, 30° to 40° and 40° to 50°. From 60.30m to 60.50m : BASALT DYKE.
											-59.71	60.50			
61			60	100	100	100				T2 IOI 62.21	-60.65	61.44			From 61.44m to 62.70m : BASALT DYKE.
62											-61.91	62.70			
63			60	100	100	100				T2 IOI 63.68	-62.11	62.90			From 62.90m to 64.22m : BASALT DYKE.
64											-63.43	64.22			
65		0.11m at 18:00	60	100	100	100				T2 IOI 65.21					
17/01/2017															
18/01/2017		0.12m at 08:00													
66			60	100	100	99				T2 IOI 66.62					
67			60	100	100	100				T2 IOI 68.13					
68		0.14m at 18:00					0.7								
18/01/2017															
19/01/2017		0.09m at 08:00													
69			60	100	100	100				T2 IOI 69.62					
70															

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	20/01/2017
CHECKED	Y. M. Leung
DATE	06/02/2017

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH05
		SHEET 8 OF 8

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM32	E 820710.33 N 834004.26	DATE : 09/01/2017 to 20/01/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 0.79 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
			60	100	100	100				T2 1 01	-69.21	70.00		II	See sheet 7 of 8
71										71.08					
			60	100	100	100				T2 1 02					
72										72.57					
			60	100	100	100				T2 1 03					
73															
		0.12m at 18:00								T2 1 04					
74	19/01/2017									74.07					
	20/01/2017	0.10m at 08:00	60	100	100	100				T2 1 05					
75															
	20/01/2017							75.27		75.27	-74.48	75.27			End of Investigation Hole at 75.27m.
76															
77															
78															
79															
80															

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	20/01/2017
CHECKED	Y. M. Leung
DATE	06/02/2017

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH06
		SHEET 1 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM39	E 820726.72 N 833953.31	DATE : 17/12/2016 to 05/01/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 1.05 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
17/12/2016	SW										+0.85	0.20			Concrete surface.
										A INSPECTION PIT 0.50 B 0.80 1 1.10					Greyish brown (2.5Y 5/2), spotted white, clayey silty fine to coarse SAND with some subangular fine to medium gravel sized rock fragments. (FILL)
											-0.95	2.00			
			50	0						2 2.00 3.00					Yellowish brown (10YR 5/4), spotted white, sandy subangular fine to medium GRAVEL sized rock fragments. (FILL)
									37 bls	2 3.00 3 3.10	-2.05	3.10			
				71						4 3.55 3.60	-2.55	3.60			Brown (7.5YR 5/4), dappled reddish brown, mottled light grey, slightly clayey silty fine to medium SAND. (ALLUVIUM)
								3.60 4.05	1,1, 2,3,2,5 N=12	5 3.70 6 4.00 4.05					Medium dense, light grey (N 7), locally reddish brown, spotted white, silty fine to medium SAND. (ALLUVIUM)
											-3.55	4.60			
										7 4.70	-4.05	5.10			Firm, light grey (N 7), mottled reddish brown, clayey slightly sandy SILT. (ALLUVIUM)
										8 5.10					Light grey (N 7), spotted white, slightly clayey silty fine to coarse SAND with some subangular fine gravel sized rock fragments. (ALLUVIUM)
			50	66											
	SW 6.10 PW									9 6.10 10 6.20					
									62 bls						
				71						11 6.65 6.70	-5.65	6.70			
								6.70 7.15	6,8, 7,5,2,7 N=21	12 6.80 13 7.10 7.15					Medium dense, reddish brown (2.5YR 5/4), spotted white, silty fine to coarse SAND. (ALLUVIUM)
		0.00m at 18:00													
17/12/2016 20/12/2016		0.44m at 08:00								14 7.80	-6.65 -6.75	7.70 7.80			From 7.70m to 7.80m : Firm, dark grey (N 3), mottled reddish brown, clayey sandy SILT.
											-7.15	8.20			
										15 8.20					Medium dense, dark grey (N 3), spotted white, slightly clayey silty fine to coarse SAND with some decayed wood pieces. (ALLUVIUM)
			50	48											
										16 9.20 9.30					At 9.20m : With decayed wood pieces up to dia. 80mm.
									84 bls	17					
				98						18 9.75 9.80					
								9.80		19 9.90					

- Disturbed sample
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- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	05/01/2017
CHECKED	Y. M. Leung
DATE	07/01/2017

REMARKS
1. An inspection pit was excavated to 0.80m.

J201617e

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH06
	SHEET 2 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM39	E 820726.72 N 833953.31	DATE : 17/12/2016 to 05/01/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 1.05 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	PW										-8.95	10.00			
								10.25	4,6, 5,3,4,9 N=21	20 10.20 10.25					See sheet 1 of 9
11										21 10.90					
										22 11.30					
12				75						23 12.30 12.40	-11.35	12.40			
									125 bls	24				V	Extremely weak to very weak, brown (7.5YR 5/4), dappled greyish brown, completely decomposed METASILTSTONE. (Slightly silty angular to subangular fine to coarse GRAVEL)
				98						25 12.85 12.90	-11.85	12.90			
13								12.90	5,8, 14,14,17,28 N=73	26 13.00				V	Extremely weak, greyish brown (2.5Y 5/2), dappled brown, completely decomposed METASILTSTONE. (Sandy SILT with much subangular fine to coarse gravel)
								13.35		27 13.30 13.35					
14										28 14.00					
										29 14.40					
15			50	96											
										30 15.40 15.50					
								15.50	2,4, 6,15,23,55 N=99	31 15.60					
16								15.95		32 15.90 15.95					
										33 16.40					
17			50	94											
										34 17.40 17.50					
								17.50	7,11, 16,20,28,36/55mm (100/280mm)	35 17.58					
18								17.93		36 17.88 17.93					
										37 18.40					
19			50	96											
										38 19.40 19.50					
								19.50	8,7, 14,22,27,37 N=100	39 19.60					
20								19.95		40 19.90 19.95					

- Disturbed sample
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- Split spoon sample
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- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	05/01/2017
CHECKED	Y. M. Leung
DATE	07/01/2017

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH06
	SHEET 3 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM39	E 820726.72 N 833953.31	DATE : 17/12/2016 to 05/01/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 1.05 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	PW										-18.95	20.00			
20/12/2016		0.00m at 18:00												V	See sheet 2 of 9
21/12/2016		0.30m at 08:00	50	96						41 20.40	-19.35	20.40		V	Extremely weak to very weak, greyish brown (2.5Y 5/2), mottled brown, completely decomposed METASILTSTONE. (Angular to subangular fine to coarse GRAVEL)
21										42 21.40 21.50	-20.45	21.50			
								21.50	23,26,	43				V	Extremely weak, greyish brown (2.5Y 5/2), dappled brown, completely decomposed METASILTSTONE. (Slightly clayey sandy SILT with much subangular fine to coarse gravel)
								21.81	34,53,13/10mm (100/160mm)	44 21.76 21.81					
22															
			50	96						45 22.40					
23															
										46 23.40 23.50	-22.45	23.50			
								23.50 23.56	50/30mm 100/30mm (100/30mm)	47 23.56				V	Extremely weak to very weak, greyish brown (2.5Y 5/2), mottled brown, completely decomposed METASILTSTONE. (Subangular fine to medium GRAVEL)
24	PW 24.00 HW										-23.35	24.40			
										48 24.40				IV	Very weak, greyish brown (2.5Y 5/2), dappled and streaked brown, highly decomposed graphitic METASILTSTONE. (Silty sandy subangular fine to medium GRAVEL)
			50	96						49 25.40 25.50					
25															
								25.50 25.60	50/40mm 100/60mm (100/60mm)	50 25.60					
26															
										51 26.40					
			50	95											
27															
										52 27.40 27.50					
								27.50 27.60	50/35mm 100/65mm (100/65mm)	53 27.60					
28															
21/12/2016		0.00m at 18:00													
22/12/2016		0.45m at 08:00								54 28.40					
			50	96											
29															
										55 29.40 29.50					
								29.50 29.57	50/25mm 100/45mm (100/45mm)	56 29.57					
30															

- Disturbed sample
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- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	05/01/2017
CHECKED	Y. M. Leung
DATE	07/01/2017

REMARKS

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH06
	SHEET 4 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM39	E 820726.72 N 833953.31	DATE : 17/12/2016 to 05/01/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 1.05 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	HW										-28.95	30.00		IV	See sheet 3 of 9
										57 30.40	-29.35	30.40			Stiff, brown (7.5YR 5/4), spotted yellowish brown, dappled greyish brown, sandy SILT with much subangular fine to coarse gravel sized rock fragments. (KARST SURFACE DEPOSIT)
31			50	96											
								31.50	3,8, 12,17,18,33 N=80	58 31.40 31.50					
										59 31.60					
32								31.95		60 31.90 31.95					
										61 32.40	-31.35	32.40			Stiff, brown (7.5YR 5/4), locally dark grey, dappled light brown, slightly clayey sandy SILT with much subangular fine to medium gravel sized rock fragments. (KARST SURFACE DEPOSIT)
33			50	95											
										62 33.40 33.50	-32.45	33.50			Very dense, brown (7.5YR 5/4), dappled greyish brown, slightly clayey silty sandy angular to subangular fine to coarse GRAVEL sized rock fragments. (KARST SURFACE DEPOSIT)
								33.50	8,5, 6,10,19,30 N=65	63 33.60					
34								33.95		64 33.90 33.95					
										65 34.40					
35			50	95											
										66 35.40 35.50					
								35.50 35.63	50/60mm 100/70mm (100/70mm)	67 35.63					
36											-35.35	36.40			
										68 36.40					Very stiff, greyish brown (2.5Y 5/2), dappled light brownish grey, slightly clayey sandy SILT with much angular to subangular fine to coarse gravel sized rock fragments. (KARST SURFACE DEPOSIT)
37			50	93											
		0.00m at 18:00								69 37.40 37.50					
22/12/2016								37.50 37.63	50/55mm 100/75mm (100/75mm)	70 37.63					
23/12/2016		0.37m at 08:00													
38															
										71 38.40					
39			50	95											
										72 39.40 39.50					
								39.50 39.64	50/65mm 100/75mm (100/75mm)	73 39.64					
40															

- Disturbed sample
- Piston sample
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- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	05/01/2017
CHECKED	Y. M. Leung
DATE	07/01/2017

REMARKS

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH06
		SHEET 5 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM39	E 820726.72 N 833953.31	DATE : 17/12/2016 to 05/01/2017
FLUSHING MEDIUM Water	ORIENTATION Vertical	GROUND LEVEL + 1.05 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	HW										-38.95	40.00			See sheet 4 of 9
										74 40.40	-39.35	40.40			Very stiff, brown (7.5YR 5/4), dappled dark greyish brown, slightly clayey sandy SILT with much angular to subangular fine to medium gravel sized rock fragments. (KARST SURFACE DEPOSIT)
41			50	90						75 41.40 41.50					
								41.50	5,5, 12,12,20,35 N=79	76 41.60					
42								41.95		77 41.90 41.95					
										78 42.40					
43			50	95											
										79 43.40 43.50	-42.45	43.50			
								43.50	8,9, 11,12,17,31 N=71	80 43.60					Very stiff, dark grey (N 3), spotted white, yellowish brown, slightly sandy SILT with some subangular fine to medium gravel sized rock fragments. (KARST SURFACE DEPOSIT)
44								43.95		81 43.90 43.95					
										82 44.40					
45			50	95											
		0.00m at 18:00								83 45.40 45.50					
	23/12/2016							45.50	5,8, 8,10,14,37 N=69	84 45.60					
46	24/12/2016	0.38m at 08:00						45.95		85 45.90 45.95					
										86 46.40	-45.35	46.40			Stiff, greyish brown (2.5Y 5/2), mottled dark greyish brown, clayey sandy SILT with some subangular fine to medium gravel sized rock fragments. (KARST SURFACE DEPOSIT)
47			50	90											
								47.50	8,9, 11,12,17,37 N=77	87 47.40 47.50					
48								47.95		88 47.60					
										89 47.90 47.95					
										90 48.40					
49			50	75											
										91 49.40 49.50					
										92					
50															

- Disturbed sample
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- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
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- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	05/01/2017
CHECKED	Y. M. Leung
DATE	07/01/2017

REMARKS

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH06
	SHEET 6 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM39	E 820726.72 N 833953.31	DATE : 17/12/2016 to 05/01/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 1.05 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	TCR %	SCR %	RQD %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	HW		50	96							-48.95	50.00			See sheet 5 of 9
										93 50.50 94 50.60	-49.55	50.60			Stiff, dark grey (N 3), mottled brown, occasional mottled light grey, slightly clayey slightly sandy SILT with some subangular fine to medium gravel sized rock fragments. (KARST SURFACE DEPOSIT)
								50.60 50.88	10,16, 27,73/55mm (100/130mm)	95 50.83 50.88					
51															
										96 51.50					
52			50	96											
		0.00m at 16:00								97 52.50 52.60					
24/12/2016								52.60	6,7, 11,12,14,20 N=57	98 52.70					
28/12/2016		0.43m at 08:00						53.05		99 53.00 53.05					
53															
										100 53.50					
54			50	96											
										101 54.50 54.60					
								54.60	8,10, 14,14,18,31 N=77	102 54.70					
55								55.05		103 55.00 55.05					
											-54.45	55.50			
										104 55.50					Very stiff, dark grey (N 3), mottled light grey, spotted white, sandy SILT with occasional subangular fine to medium gravel sized rock fragments. (KARST SURFACE DEPOSIT)
56			50	96											
										105 56.50 56.60					
								56.60	9,12, 16,28,39,17/25mm (100/250mm)	106 56.65					
57								57.00		107 56.95 57.00					
										108 57.50					
58			50	83											
										109 58.50 58.60					
								58.60	5,8, 8,10,13,24 N=55	110 58.70					
59								59.05		111 59.00 59.05					
											-58.45	59.50			
										112 59.50					Stiff, dark grey (N 3), spotted white, mottled light greenish grey, clayey slightly sandy SILT with occasional subangular fine gravel sized rock fragments. (KARST SURFACE
60															

- Disturbed sample
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LOGGED	S. C. Law
DATE	05/01/2017
CHECKED	Y. M. Leung
DATE	07/01/2017

REMARKS

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH06
		SHEET 7 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM39	E 820726.72 N 833953.31	DATE : 17/12/2016 to 05/01/2017
FLUSHING MEDIUM Water	ORIENTATION Vertical	GROUND LEVEL + 1.05 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	HW		50	96							-58.95	60.00			DEPOSIT) See sheet 6 of 9
28/12/2016		0.00m at 18:00													
29/12/2016		0.40m at 08:00						60.60	4,6, 9,12,16,27 N=64	113 60.50 60.60					
61 29/12/2016	HW 61.05	0.00m at 18:00								114 60.70					
30/12/2016		0.49m at 08:00								115 61.00 61.05	-60.00	61.05		II	Strong, dark grey (N 3), striped light grey, dappled white, slightly decomposed impure MARBLE. Joints are very widely to widely spaced, locally closely to medium spaced, rough planar, occasional slickensided and smooth planar, extremely narrow, occasional iron and manganese oxide stained, chlorite and calcite coated, dipping 0° to 10°, 10° to 20°, 40° to 50°, 50° to 60° and 60° to 70°.
							4.8	61.67							
62			80	100	100	100				T2IOI					
							1.3	62.45		62.43					
							10.7	62.73							
63			80	100	100	93				T2IOI					
30/12/2016		0.00m at 18:00								63.38					
31/12/2016		0.50m at 08:00								T2IOI					
64			80	100	100	100				64.15					
65			80	100	100	100				T2IOI					From 65.25m to 68.37m : Quartz vein.
										65.67					
66			80	94	94	94				T2IOI					
67										67.20					
68			80	100	100	100				T2IOI					
31/12/2016		0.00m at 18:00								68.75					
03/01/2017		0.67m at 08:00					0.6								
69			80	100	100	100				T2IOI					
70															

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	05/01/2017
CHECKED	Y. M. Leung
DATE	07/01/2017

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH06
		SHEET 8 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM39	E 820726.72 N 833953.31	DATE : 17/12/2016 to 05/01/2017
FLUSHING MEDIUM Water	ORIENTATION Vertical	GROUND LEVEL + 1.05 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
											-68.95	70.00			
										T2 01 70.26				II	See sheet 7 of 9
71			80	100	100	100				T2 01 71.73					
72			80	100	100	100				T2 01 73.10					
73															
74			80	100	100	100				T2 01 74.65					
03/01/2017		0.00m at 18:00													
04/01/2017		0.66m at 08:00						74.92							
75							11.1								
			80	100	100	89		75.37		T2 01 76.16					
76							1.2								
77			80	100	100	96		77.05		T2 01 77.71					
							9.4	77.37							
							1.5								
78								78.05							
			80	100	98	97	4.8			T2 01 79.27					
79								79.10							
04/01/2017		0.00m at 18:00													
05/01/2017		0.48m at 08:00													
80							0.6			T2 01					

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

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DATE	05/01/2017
CHECKED	Y. M. Leung
DATE	07/01/2017

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO

HOLE NO.	ADH06
CONTRACT NO. :	GE/2015/29
SHEET	9 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES		TASK ORDER NO.	GE/2015/29.8
MACHINE & NO.	VBM39	E 820726.72	N 833953.31	DATE :	17/12/2016 to 05/01/2017
FLUSHING MEDIUM	Water	ORIENTATION	Vertical	GROUND LEVEL	+ 1.05 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
05/01/2017		0.00m at 12:00	80	100	100	100					-78.95	80.00		II	See sheet 8 of 9
								80.72		T2 1 01 80.72					
			80	100	100	100	2.9			T2 1 01 82.09	-81.04	82.09			End of Investigation Hole at 82.09m.
								82.09							

81 82 83 84 85 86 87 88 89 90

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

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DATE	05/01/2017
CHECKED	Y. M. Leung
DATE	07/01/2017

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH07
	SHEET 1 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM43	E 820715.98 N 833862.93	DATE : 20/12/2016 to 11/01/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 0.79 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
20/12/2016	SW										+0.69	0.10			Concrete surface.
										A INSPECTION PIT 0.50					Firm, grey (N 5), mottled light yellowish brown, clayey sandy SILT with some subangular coarse gravel sized rock fragments and subangular cobble sized moderately decomposed and slightly decomposed Granite. (FILL)
										B 1.00					
										C 1.40	-1.21	2.00			
			60	95						1 2.00					Yellowish brown (10YR 5/4), spotted white, slightly silty fine to coarse SAND. (ALLUVIUM)
										2 3.00	-2.31	3.10			
								3.10	2,2, 2,2,2,3 N=9	3 3.20					Firm, grey (N 5), mottled brown, clayey sandy SILT. (ALLUVIUM)
								3.55		4 3.50 3.55	-3.21	4.00			
			60	60						5 4.00					Light grey (N 7), spotted white, slightly silty fine to coarse SAND with some subangular to subrounded fine gravel sized rock fragments. (ALLUVIUM)
										6 5.00 5.10	-4.31	5.10			
									38 bls	7					Light grey (N 7), dappled light brown, silty fine to medium SAND. (ALLUVIUM)
				100						8 5.55 5.60	-4.81	5.60			
								5.60	3,7, 11,11,12,14 N=48	9 5.70					Dense, light grey (N 7), spotted white, silty fine to coarse SAND. (ALLUVIUM)
								6.05		10 6.00 6.05					
										11 6.60					
									49 bls	12 7.10					
		0.90m at 18:00		89						13 7.55 7.60	-6.81	7.60			
20/12/2016	SW 7.60							7.60	6,8, 8,6,7,13 N=34	14 7.70					Dense, dark grey (N 3), spotted yellowish brown, clayey silty fine to coarse SAND. (ALLUVIUM)
21/12/2016	PW	0.90m at 08:00						8.05		15 8.00 8.05					
										16 8.60	-7.71	8.50			Light yellowish brown (2.5Y 6/3), spotted white, silty fine to coarse SAND. (ALLUVIUM)
									80 bls	17 9.10					
				100						18 9.55 9.60	-8.81	9.60			
								9.60	3,3, 4,4,3,4 N=15	19 9.70 10.00					Medium dense, dark grey (N 3), spotted white, clayey silty fine to coarse SAND. (ALLUVIUM)

- Disturbed sample
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- U100 undisturbed sample
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- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	11/01/2017
CHECKED	Y. M. Leung
DATE	13/01/2017

REMARKS
1. An inspection pit was excavated to 1.40m.

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH07
		SHEET 2 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM43	E 820715.98 N 833862.93	DATE : 20/12/2016 to 11/01/2017
FLUSHING MEDIUM Water	ORIENTATION Vertical	GROUND LEVEL + 0.79 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	PW							10.05		20 10.05	-9.21	10.00			See sheet 1 of 9
11										21 10.60	-10.31	11.10			
				89					19 bls	22 11.10					Dense, grey (N 5), spotted white, clayey silty fine to coarse SAND with occasional decayed wood pieces. (ALLUVIUM)
								11.60	6,7, 8,8,9,12 N=37	23 11.55 11.60					
12								12.05		24 11.70					
										25 12.00 12.05					
										26 12.60					
13											-12.31	13.10			
			60	95						27 13.10				V	Extremely weak, yellowish brown (10YR 5/4), occasional streaked black, dappled reddish brown, completely decomposed METASANDSTONE. (Silty fine SAND with occasional subangular fine to medium gravel)
14										28 14.10 14.20	-13.41	14.20			
								14.20	2,2, 2,3,3,5 N=13	29 14.30				V	Extremely weak, dark grey (N 3), streaked yellowish brown, completely decomposed graphitic METASILTSTONE. (Slightly sandy SILT)
								14.65		30 14.60 14.65					
15											-14.31	15.10			
										31 15.10				V	Extremely weak to very weak, dark grey (N 3), streaked yellowish brown and brown, completely decomposed graphitic METASILTSTONE. (Slightly sandy SILT with much angular to subangular fine to medium gravel)
			60	30											
16		0.45m at 18:00								32 16.10 16.20					
	21/12/2016														
	22/12/2016	0.95m at 08:00								33					
			60	95											
17										34 17.20 17.30	-16.51	17.30			
								17.30	2,3, 5,8,11,15 N=39	35 17.40				V	Extremely weak, reddish brown (2.5YR 5/4), streaked yellowish brown, completely decomposed METASILTSTONE. (Slightly sandy SILT)
								17.75		36 17.70 17.75					
18											-17.41	18.20			
										37 18.20				IV	Very weak, reddish brown (2.5YR 5/4), dappled dark grey, streaked yellowish brown, highly decomposed graphitic METASILTSTONE. (Silty slightly sandy angular to subangular fine to coarse GRAVEL)
			60	95											
19										38 19.20 19.30	-18.51	19.30			
								19.30	3,6, 12,21,25,39 N=97	39 19.40				V	Extremely weak, dark grey (N 3), streaked yellowish brown and brown, completely decomposed graphitic METASILTSTONE. (Slightly sandy SILT with some subangular fine to medium gravel)
								19.75		40 19.70 19.75					
20															

- Disturbed sample
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DATE	11/01/2017
CHECKED	Y. M. Leung
DATE	13/01/2017

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH07
		SHEET 3 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM43	E 820715.98 N 833862.93	DATE : 20/12/2016 to 11/01/2017
FLUSHING MEDIUM Water	ORIENTATION Vertical	GROUND LEVEL + 0.79 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	PW										-19.21	20.00		V	See sheet 2 of 9
21			60	95						41 20.20					
								21.30	4,5, 6,8,11,14 N=39	42 21.20 21.30					
								21.75		43 21.40					
										44 21.70 21.75					
22			60	95						45 22.20					
								23.30	5,8, 9,14,16,21 N=60	46 23.20 23.30					
								23.75		47 23.40					
23										48 23.70 23.75					
										49 24.20					
24			60	95											
										50 25.20 25.30	-24.51	25.30		V	
								25.30	4,6, 7,9,12,17 N=45	51 25.40					Extremely weak, reddish brown (2.5YR 5/4), streaked brown, completely decomposed METASILTSTONE. (Slightly sandy SILT)
25								25.75		52 25.70 25.75					
											-25.41	26.20			
										53 26.20				IV	Very weak, reddish brown (2.5YR 5/4), streaked and mottled brown, highly decomposed METASILTSTONE. (Silty sandy subangular fine to coarse GRAVEL)
26			60	95											
		0.62m at 18:00								54 27.20 27.30	-26.51	27.30		V	
	22/12/2016							27.30	4,6, 8,14,17,20 N=59	55 27.40					Extremely weak, dark grey (N 3), streaked brown, completely decomposed graphitic METASILTSTONE. (Slightly sandy SILT with some subangular fine to medium gravel)
27	23/12/2016	0.35m at 08:00						27.75		56 27.70 27.75					
										57 28.20					
28			60	95											
										58 29.20 29.30					
								29.30	3,4, 5,8,13,22 N=48	59 29.40					
29								29.75		60 29.70 29.75					
30	PW 30.00														

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
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- Water sample
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- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
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- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	11/01/2017
CHECKED	Y. M. Leung
DATE	13/01/2017

REMARKS

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH07
		SHEET 4 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM43	E 820715.98 N 833862.93	DATE : 20/12/2016 to 11/01/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 0.79 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	HW										-29.21	30.00		V	See sheet 3 of 9
31			60	95						61 30.20					
								31.30	5,6, 10,15,18,26 N=69	62 31.20 31.30					
								31.75		63 31.40					
										64 31.70 31.75					
32										65 32.20					
			60	95											
33		0.30m at 18:00								66 33.20 33.30	-32.51	33.30		V	Extremely weak, dark grey (N 3), streaked white, completely decomposed graphitic METASILTSTONE. (Slightly sandy SILT)
23/12/2016 28/12/2016		0.35m at 08:00						33.30	4,6, 10,16,21,20 N=67	67 33.40					
								33.75		68 33.70 33.75					
34											-33.41	34.20		IV	Very weak to weak, dark grey (N 3), streaked and striped brown, highly decomposed graphitic METASILTSTONE. (Silty sandy subangular fine to medium GRAVEL)
			60	95						69 34.20					
35										70 35.20 35.30					
								35.30	5,9, 14,20,28,30 N=92	71 35.40					
								35.75		72 35.70 35.75					
36											-35.41	36.20		IV	Very weak to weak, dark grey (N 3), streaked white, occasional mottled pinkish grey, highly decomposed graphitic METASILTSTONE. (Silty sandy subangular fine to medium GRAVEL)
			60	95						73 36.20					
37										74 37.20 37.30					
								37.30	17,20, 43,57/75mm (100/150mm)	75					
								37.60		76 37.55 37.60					
38											-37.41	38.20		IV	Very weak to weak, dark grey (N 3), streaked white, highly decomposed graphitic METASILTSTONE. (Silty sandy subangular fine to medium GRAVEL)
			60	95						77 38.20					
39										78 39.20 39.30					
								39.30	6,7, 11,13,15,23 N=62	79 39.40					
								39.75		80 39.70 39.75					
40															

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
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LOGGED	S. C. Law
DATE	11/01/2017
CHECKED	Y. M. Leung
DATE	13/01/2017

REMARKS

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH07
		SHEET 5 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM43	E 820715.98 N 833862.93	DATE : 20/12/2016 to 11/01/2017
FLUSHING MEDIUM Water	ORIENTATION Vertical	GROUND LEVEL + 0.79 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	HW										-39.21	40.00		IV	See sheet 4 of 9
			60	95						81 40.20	-39.41	40.20		IV	Very weak to weak, dark grey (N 3), streaked brown, completely to highly decomposed graphitic METASILTSTONE. (Silty sandy subangular fine to medium GRAVEL)
41										82 41.20 41.30					
		0.29m at 18:00						41.30	4,5, 8,10,13,18 N=49	83 41.40					
28/12/2016								41.75		84 41.70 41.75					
29/12/2016		0.31m at 08:00									-41.41	42.20		IV	Very weak to weak, dark grey (N 3), streaked light yellowish brown, highly decomposed graphitic METASILTSTONE. (Silty sandy subangular fine to medium GRAVEL)
42										85 42.20					
			60	95											
43										86 43.20 43.30					
								43.30	7,43, 68,32/55mm (100/130mm)	87					
								43.58		88 43.53 43.58					
44											-43.41	44.20		V	Extremely weak to very weak, dark grey (N 3), streaked brown, completely decomposed graphitic METASILTSTONE. (Slightly sandy SILT with some subangular fine to medium gravel)
			60	95						89 44.20					
45										90 45.20 45.30					
								45.30	15,35, 37,43,20/5mm (100/155mm)	91					
								45.61		92 45.56 45.61					
46															
			60	95						93 46.20					
47										94 47.20 47.30					
								47.30	12,21, 47,53/65mm (100/140mm)	95					
								47.59		96 47.54 47.59					
48		0.28m at 18:00													
29/12/2016										97 48.20					
30/12/2016		0.29m at 08:00													
			60	95											
49										98 49.20 49.30					
								49.30	14,20, 25,53,22/20mm (100/170mm)	99					
								49.62		100 49.57 49.62					
50															

- Disturbed sample
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LOGGED	S. C. Law
DATE	11/01/2017
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REMARKS

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH07
		SHEET 6 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM43	E 820715.98 N 833862.93	DATE : 20/12/2016 to 11/01/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 0.79 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	HW										-49.21	50.00		V	See sheet 5 of 9
			60	95						101 50.20					
51										102 51.20					
								51.30	15,25, 35,45,20/50mm (100/200mm)	103 51.30					
								51.65		104 51.60 51.65					
52											-51.41	52.20			
			60	95						105 52.20				V	Extremely weak to very weak, dark grey (N 3), occasional mottled and streaked light yellowish brown, completely decomposed graphitic METASILTSTONE. (Slightly sandy SILT with occasional subangular fine to medium gravel)
53										106 53.20 53.30					
								53.30	4,6, 9,12,17,25 N=63	107 53.40					
								53.75		108 53.70 53.75					
54											-53.41	54.20			
			60	95						109 54.20				IV	Very weak, brown (7.5YR 5/4), dappled dark grey (N 3), streaked yellowish brown, highly decomposed graphitic METASILTSTONE. (Silty sandy angular to subangular fine to medium GRAVEL)
55		0.55m at 18:00								110 55.20 55.30					
	30/12/2016							55.30	10,39, 100/60mm (100/60mm)	111	-54.51	55.30		V	Extremely weak to very weak, dark grey (N 3), streaked brown, completely decomposed graphitic METASILTSTONE. (Slightly sandy SILT with some subangular fine to medium gravel)
	31/12/2016	0.00m at 08:00						55.51		112 55.46 55.51					
56										113 56.20					
			60	95											
57										114 57.20 57.30	-56.51	57.30			
								57.30	7,8, 10,14,20,31 N=75	115 57.40				V	Extremely weak, dark brown (7.5YR 3/4), mottled light grey, spotted white, completely decomposed graphitic METASILTSTONE. (Slightly clayey sandy SILT)
								57.75		116 57.70 57.75					
58											-57.41	58.20			
										117 58.20				V	Extremely weak, dark grey (N 3), spotted and streaked white, mottled brown, completely decomposed graphitic METASILTSTONE. (Sandy SILT with some subangular fine to coarse gravel)
			60	90											
59										118 59.20 59.30	-58.51	59.30			
								59.30	7,9, 13,21,28,31 N=93	119 59.40					Stiff, dark brown (7.5YR 3/4), mottled dark grey and light grey, spotted white, clayey sandy SILT with occasional subangular fine to medium gravel sized rock fragments. (KARST SURFACE DEPOSIT)
								59.75		120 59.70 59.75					
60		0.00m at 18:00													

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	11/01/2017
CHECKED	Y. M. Leung
DATE	13/01/2017

REMARKS

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH07
		SHEET 7 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM43	E 820715.98 N 833862.93	DATE : 20/12/2016 to 11/01/2017
FLUSHING MEDIUM Water	ORIENTATION Vertical	GROUND LEVEL + 0.79 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	HW										-59.21	60.00			
31/12/2016															See sheet 6 of 9
03/01/2017		0.00m at 08:00													
61			60	95											
								61.30	11,21, 46,54/5mm (100/80mm)	121 60.20 / 122 61.20 / 61.30 / 123 / 124 61.48 / 61.53					
62											-61.41	62.20			
			60	95						125 62.20					Firm to stiff, dark brown (7.5YR 3/4), mottled greyish brown, spotted white, clayey sandy SILT with much subangular fine to medium gravel sized rock and marble fragments. (KARST SURFACE DEPOSIT)
63								63.30	7,9, 13,47,40/40mm (100/190mm)	126 63.20 / 63.30 / 127 / 128 63.59 / 63.64					
64										129 64.20					
			60	95						130 65.20 / 65.30	-64.51	65.30			
65								65.30	11,22, 32,43,25/30mm (100/180mm)	131 / 132 65.58 / 65.63					Stiff, brown (7.5YR 5/4), mottled greyish brown, slightly sandy SILT. (KARST SURFACE DEPOSIT)
66		0.00m at 18:00									-65.31	66.10			
03/01/2017															
04/01/2017		0.00m at 08:00								66.10				II	Strong, white, streaked grey, slightly decomposed MARBLE. Joints are medium spaced, locally extremely closely spaced, rough planar, extremely narrow, iron and manganese oxide stained, dipping 0° to 10° and 40° to 50°. From 66.10m to 66.16m : With solution feature. From 66.80m to 67.50m : With solution feature.
67			60	93	92	92	2.1			T2 I 0 I	-66.71	67.50			
							NR	67.50 / 67.60		67.60	-66.81	67.60			From 67.50m to 67.60m : No recovery, inferred to be Cavity.
								67.60	3,6, 8,10,13,18 N=49						No recovery, inferred to be Cavity infill.
68								68.05		133 68.05 / 68.10	-67.31	68.10			
			60	76						T2 I 0 I					Light grey (N 7), dappled white and dark brown, subangular BOULDER sized slightly decomposed Marble up to 240mm with some slightly clayey slightly silty angular medium to coarse gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
		0.00m at 18:00						68.60 / 68.76	8,42/50mm, 100/35mm (100/35mm)	134 68.60 / 68.71 / 135 68.76	-67.81	68.60			
04/01/2017											-68.01	68.80			
05/01/2017		0.00m at 08:00								68.80					Firm, dark brown (7.5YR 3/4), spotted white, clayey sandy SILT. (CAVITY INFILL DEPOSIT)
69			60	80						T2 I 0 I					Light grey (N 7), dappled white and dark brown, subangular BOULDER sized slightly decomposed Marble up to 240mm with some slightly clayey slightly silty angular medium to coarse gravel sized rock fragments and angular cobble sized slightly decomposed Marble. (CAVITY INFILL
								69.50	5,7, 14,86/35mm (100/110mm)	136 69.50 / 137 69.71 / 69.76	-68.71	69.50			
70								69.76		T2 I 0 I 69.80	-69.01	69.80			

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	11/01/2017
CHECKED	Y. M. Leung
DATE	13/01/2017

REMARKS

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH07
		SHEET 8 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM43	E 820715.98 N 833862.93	DATE : 20/12/2016 to 11/01/2017
FLUSHING MEDIUM Water	ORIENTATION Vertical	GROUND LEVEL + 0.79 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	HW		60	68							-69.21	70.00			DEPOSIT)
										T2I01					Firm, dark brown (7.5YR 3/4), mottled white. clayey slightly sandy SILT. (CAVITY INFILL DEPOSIT)
								70.40	8,15, 19,20,61/50mm (100/200mm)	138 70.40	-69.61	70.40			Light grey (N 7), dappled brown, occasional dappled white, subangular BOULDER sized slightly decomposed Marble up to 250mm with some clayey silty angular medium to coarse gravel sized rock fragments and angular cobble sized slightly decomposed Marble. (CAVITY INFILL DEPOSIT)
								70.75		139 70.70 70.75	-70.11	70.90			
71											-70.30	71.09		II	
			60	98	88	88				T2I01					Stiff, brown (7.5YR 5/4), dappled dark brown and yellowish brown, clayey sandy SILT. (CAVITY INFILL DEPOSIT)
		0.00m at 18:00													Dark brown (7.5YR 3/4), streaked white, subangular COBBLE sized slightly decomposed Marble with much clayey silty angular medium to coarse gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
72		0.00m at 08:00													Strong, light grey, dappled white, occasional mottled brown, slightly decomposed impure MARBLE.
			60	100	100	100	1.2			T2I01					Joints are widely spaced, locally extremely closely spaced, rough planar and undulating, extremely narrow to very narrow, iron and manganese oxide stained, dipping 10° to 20°, 40° to 50° and 70° to 80°.
73															From 71.09m to 71.24m : With solution feature.
															From 71.58m to 71.86m : With solution feature.
															From 73.39m to 73.60m : With solution feature.
										T2I01					
74			60	91	87	87									
								74.30			-73.51	74.30			From 74.25m to 74.30m : With solution feature.
							NR	74.40			-73.61	74.40			From 74.30m to 74.40m : No recovery, inferred to be Cavity.
			0	0						T2I01					No recovery, inferred to be Cavity.
								74.80	10,12, 15,17,19,21 N=72		-74.01	74.80			Firm, dark brown (7.5YR 3/4), dappled dark greyish brown, spotted white, clayey sandy SILT. (CAVITY INFILL DEPOSIT)
75										140 74.90					
		0.00m at 18:00						75.25		141 75.20 75.25	-74.61	75.40			
	06/01/2017														
	07/01/2017	0.00m at 08:00												II	Strong, light grey (N 7), dappled white, brown, slightly decomposed MARBLE.
			60	75	71	60	3.3			T2I01					Joints are medium spaced, locally closely spaced, rough planar, very narrow, iron and manganese oxide stained, dipping 0° to 10°, 20° to 30° and 40° to 50°.
76								76.00			-75.21	76.00			From 75.40m to 75.45m : With solution feature.
							NR	76.20			-75.41	76.20			From 75.81m to 76.00m : With solution feature.
															From 76.00m to 76.20m : No recovery, inferred to be Cavity.
															No recovery, inferred to be Cavity.
77			60	0						T2I01					
78											-77.21	78.00			
								78.00	11,15, 35,65/45mm (100/120mm)	142 78.00					Firm, dark brown (7.5YR 3/4), mottled brown, clayey sandy SILT. (CAVITY INFILL DEPOSIT)
								78.27		143 78.22 78.27	-77.51	78.30			Light grey (N 7), dappled dark brown, white, Subangular COBBLES with much slightly clayey slightly sandy angular medium to coarse gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
			60	60						T2I01 78.30	-77.81	78.60			
								78.60	11,20, 15,14,17,19 N=65						
79								79.05		144 79.05	-78.31	79.10			Firm to stiff, dark grey (N 3), spotted white, mottled yellowish brown, clayey sandy SILT with much subangular fine to medium gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
										79.10					
			60	0											Light grey (N 7), dappled brown and dark brown, subangular COBBLE with much slightly clayey slightly sandy angular medium to coarse gravel sized quartz and
80		0.00m at 18:00													

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
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- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
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- Piezometer tip
- Standpipe
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- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	11/01/2017
CHECKED	Y. M. Leung
DATE	13/01/2017

REMARKS

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH07
		SHEET 9 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM43	E 820715.98 N 833862.93	DATE : 20/12/2016 to 11/01/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 0.79 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
07/01/2017 09/01/2017	HW	0.00m at 08:00		0					105 blls	145 80.10 80.20					rock fragments. (CAVITY INFILL DEPOSIT) See sheet 8 of 9
	HW 80.90									146 80.65 80.70					
81			0	49						T2IOI 80.90 81.31	-80.52	81.31		II	Strong, white, dappled light grey and brown, slightly decomposed MARBLE. Joints are widely spaced, locally very closely to closely spaced, rough planar, occasional slickensided planar and rough stepped, extremely narrow to very narrow, iron and manganese oxide stained, dipping 0° to 10°, 10° to 20°, 50° to 60°, 60° to 70° and 70° to 80°. From 81.51m to 81.59m : Quartz vein. From 81.64m to 81.75m : Quartz vein.
82			0	100	100	96	2.1	82.71		T2IOI 82.71	-81.92	82.71			From 82.71m to 82.89m : No recovery, inferred to be Cavity.
							NR	82.89			-82.10	82.89			
83			0	87	65	65	6.3	83.85		T2IOI				II	From 82.89m to 83.14m : With solution voids up to 250mm. From 83.44m to 83.84m : With solution voids up to 400mm.
84 09/01/2017		0.00m at 18:00													
10/01/2017		0.00m at 08:00								84.09					
85			0	100	96	92	0.7			T2IOI 85.43					
86			0	96	91	91				T2IOI					
10/01/2017		0.00m at 18:00						86.70	50/50mm 100/70mm (100/70mm)	86.70	-85.91	86.70			From 86.52m to 86.70m : With solution feature.
11/01/2017		0.00m						86.82		147 86.82	-86.03	86.82			Firm, brown (7.5YR 5/4), mottled light grey, spotted white, clayey sandy SILT. with some subangular fine gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
11/01/2017		at 08:00 0.00m at 18:00													End of Investigation Hole at 86.82m.
87															
88															
89															
90															

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	11/01/2017
CHECKED	Y. M. Leung
DATE	13/01/2017

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH08
	SHEET 1 OF 8

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM43	E 820708.76 N 833826.39	DATE : 20/01/2017 to 09/02/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 1.02 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
20/01/2017	SW									A INSPECTION PIT 0.50	+0.92	0.10			Concrete surface. Brown (7.5YR 5/4), mottled dark grey, spotted white, silty fine to coarse SAND. (ALLUVIUM)
										1 1.30					
										2 2.00	-0.98	2.00			Light grey (N 7), spotted white, silty fine to coarse SAND. (ALLUVIUM)
			60	95						3 3.00 3.10	-2.08	3.10			
								3.10	2,3, 4,5,5,6 N=20	4 3.20					Medium dense, light brown (7.5YR 6/4), spotted white, silty fine to coarse SAND. (ALLUVIUM)
								3.55		5 3.50 3.55	-2.98	4.00			
										6 4.00					Medium dense, light grey (N 7), spotted white, silty fine to coarse SAND. (ALLUVIUM)
			60	50						7 5.00					
									72 blows	8 5.10					
				100						9 5.55 5.60					
								5.60	2,3, 4,5,7,9 N=25	10 5.70					
								6.05		11 6.00 6.05					
										12 6.60					
										13 7.10	-6.08	7.10			
			60	65						14 8.10 8.20					Reddish brown (2.5YR 5/4), spotted yellowish brown, silty fine to coarse SAND. (ALLUVIUM)
									24 blows	15	-7.18	8.20			
		0.00m at 18:00		100						16 8.65 8.70					Medium dense, yellowish brown (10YR 5/4), mottled light grey, clayey silty fine to coarse SAND with occasional subangular to subrounded fine quartz gravel. (ALLUVIUM)
20/01/2017										17 8.80					
21/01/2017		0.00m at 08:00						8.70	4,5, 6,7,7,8 N=28	18 9.10 9.15					
								9.15		19 9.60					

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	09/02/2017
CHECKED	Y. M. Leung
DATE	10/02/2017

REMARKS
1. An inspection pit was excavated to 0.50m.

J201617e

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH08
		SHEET 2 OF 8

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM43	E 820708.76 N 833826.39	DATE : 20/01/2017 to 09/02/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 1.02 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	SW										-8.98	10.00			
											-9.18	10.20			See sheet 1 of 8
11			60	0						10.20					Light grey (N 7), spotted white, silty fine to coarse SAND with some subangular to subrounded fine to medium quartz gravel. (ALLUVIUM)
									79 bls	20 11.20 21 11.30					
				100						22 11.75 11.80	-10.78	11.80			
12								11.80	4,4, 3,4,5,7 N=19	23 11.90					Medium dense, dark grey (N 4), spotted light yellowish brown, clayey silty fine to coarse SAND. (ALLUVIUM)
	SW 12.25 PW							12.25		24 12.20 12.25					
										25 12.60					
13											-12.28	13.30			
										26 13.30				V	Extremely weak, reddish brown (2.5YR 5/4), dappled grey, streaked yellowish brown, completely decomposed METASILTSTONE. (Slightly clayey SILT)
			60	90											
14								14.40	3,3, 4,5,6,8 N=23	27 14.30 14.40					
										28 14.50					
								14.85		29 14.80 14.85					
15											-14.28	15.30			
										30 15.30				V	Extremely weak, dark grey (N 4), streaked brown, completely decomposed graphitic METASILTSTONE. (Slightly sandy SILT)
			60	95											
16										31 16.30 16.40					
								16.40	3,4, 6,7,8,10 N=31	32 16.50					
								16.85		33 16.80 16.85					
17															
										34 17.30					
			60	95											
18															
										35 18.30 18.40					
		0.00m at 18:00						18.40	3,5, 7,8,10,13 N=38	36 18.50					
	21/01/2017							18.85		37 18.80 18.85					
19	23/01/2017	0.00m at 08:00									-18.28	19.30			
										38 19.30				V	Extremely weak, dark reddish grey (10R 4/1), streaked brown, dappled reddish brown, completely decomposed graphitic METASILTSTONE. (Slightly sandy SILT)
			60	95											
20															

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
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- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	09/02/2017
CHECKED	Y. M. Leung
DATE	10/02/2017

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH08
		SHEET 3 OF 8

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM43	E 820708.76 N 833826.39	DATE : 20/01/2017 to 09/02/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 1.02 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	PW										-18.98	20.00		V	See sheet 2 of 8
21								20.40 20.85	3,4, 5,6,8,10 N=29	39 20.30 20.40 40 20.50 41 20.80 20.85					
22			60	95						42 21.30 43 22.30 22.40	-21.38	22.40		V	Extremely weak to very weak, dark grey (N 4), streaked brown, completely decomposed graphitic METASILTSTONE. (Slightly sandy SILT with some subangular fine to medium gravel)
23								22.40 22.85	2,3, 3,4,6,11 N=24	44 22.50 45 22.80 22.85					
24			60	95						46 23.30 47 24.30 24.40	-23.38	24.40		V	Extremely weak, dark grey (N 4), streaked and dappled brown, completely decomposed graphitic METASILTSTONE. (Slightly sandy SILT)
25								24.40 24.85	2,3, 4,6,9,10 N=29	48 24.50 49 24.80 24.85					
26			60	95						50 25.30 51 26.30 26.40					
27								26.40 26.85	3,5, 7,10,13,18 N=48	52 26.50 53 26.80 26.85					
28			60	95						54 27.30 55 28.30 28.40	-27.38	28.40		V	Extremely weak, dark grey (N 4), streaked and dappled brown, completely decomposed graphitic METASILTSTONE. (Slightly sandy SILT)
29		0.00m at 18:00						28.40 28.85	6,8, 15,21,29,31 N=96	56 28.50 57 28.80 28.85				V	Extremely weak, dark grey (N 4), streaked and dappled brown, completely decomposed graphitic METASILTSTONE. (Slightly sandy SILT)
23/01/2017 24/01/2017		0.00m at 08:00								58 29.30					
30			60	95											

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	09/02/2017
CHECKED	Y. M. Leung
DATE	10/02/2017

REMARKS

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH08	SHEET 4 OF 8

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM43	E 820708.76 N 833826.39	DATE : 20/01/2017 to 09/02/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 1.02 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	PW										-28.98	30.00		V	See sheet 3 of 8
	PW 30.40									59 30.30 30.40					
	HW							30.40	5,6, 17,23,26,30 N=96	60 30.50					
								30.85		61 30.80 30.85					
31											-30.28	31.30			
			60	95						62 31.30				V	Extremely weak, brown (7.5YR 5/4), mottled dark grey, completely decomposed graphitic METASILTSTONE. (Clayey slightly sandy SILT)
32															
								32.40	7,9, 18,23,28,32 N=101	63 32.30 32.40					
								32.85		64 32.50					
33										65 32.80 32.85					
											-32.28	33.30			
			60	95						66 33.30					Firm to stiff, brown (7.5YR 5/4), mottled dark grey, clayey slightly sandy SILT. (KARST SURFACE DEPOSIT)
34															
								34.40	8,11, 20,35,45/50mm (100/200mm)	67 34.30 34.40					
								34.75		68 34.70 34.75					
35										69					
											-34.28	35.30			
			60	95						70 35.30					Firm to stiff, dark grey (N 4), dappled brown, clayey slightly sandy SILT with some angular to subangular fine to medium gravel sized rock fragments. (KARST SURFACE DEPOSIT)
36															
								36.40	10,13, 27,35,38/40mm (100/190mm)	71 36.30 36.40					
								36.74		72					
37										73 36.69 36.74					
										74 37.30					
			60	95											
38															
		0.00m at 18:00								75 38.30 38.40					
								38.40	12,14, 25,35,40/30mm (100/180mm)	76					
	24/01/2017							38.73		77 38.68 38.73					
	25/01/2017	0.00m at 08:00													
39															
										78 39.30					
			60	95											
40															

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	09/02/2017
CHECKED	Y. M. Leung
DATE	10/02/2017

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH08
	SHEET 5 OF 8

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM43	E 820708.76 N 833826.39	DATE : 20/01/2017 to 09/02/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 1.02 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	HW										-38.98	40.00			See sheet 4 of 8
								40.40 40.71	6,12, 34,40,26/10mm (100/160mm)	79 40.30 80 40.40 81 40.66 40.71	-39.38	40.40			Stiff, dark brown (7.5YR 3/4), mottled dark grey, spotted white, clayey slightly sandy SILT with occasional subangular fine to medium gravel sized rock fragments. (KARST SURFACE DEPOSIT)
41															
42			60	95						82 41.30 83 42.30 42.40					
								42.40 42.73	10,12, 27,33,40/30mm (100/180mm)	84 85 42.68 42.73					
43															
44			60	95						86 43.30 87 44.30 44.40					
								44.40 44.70	11,19, 47,53/75mm (100/150mm)	88 89 44.65 44.70					
45															
46			60	95						90 45.30 91 46.30 46.40					
		0.00m at 18:00						46.40 46.85	7,11, 15,23,30,32 N=100	92 46.50 93 46.80 46.85					
47	25/01/2017 26/01/2017	0.00m at 08:00													
48			60	95						94 47.30 95 48.30 48.40					
								48.40 48.85	3,5, 7,8,9,11 N=35	96 48.50 97 48.80 48.85					
49											-48.28	49.30			
50			60	95						98 49.30					Very stiff, dark brown (7.5YR 3/4), spotted and mottled white, clayey sandy SILT with some subangular fine to medium gravel sized rock fragments. (KARST SURFACE DEPOSIT)

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	09/02/2017
CHECKED	Y. M. Leung
DATE	10/02/2017

REMARKS

DRILLHOLE RECORD

CONTRACT NO. : GE/2015/29	HOLE NO. ADH08
	SHEET 6 OF 8

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM43	E 820708.76 N 833826.39	DATE : 20/01/2017 to 09/02/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 1.02 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	HW	0.00m at 18:00									-48.98	50.00			See sheet 5 of 8
26/01/2017										99 50.25 50.35	-49.33	50.35		II	
04/02/2017		0.00m at 08:00													Strong, white, locally brown, occasional dappled light grey, slightly decomposed MARBLE. Joints are widely to very widely spaced, locally closely to medium spaced, occasional very closely spaced, rough planar, occasional rough undulating and smooth planar, extremely narrow, occasional iron and manganese oxide stained, chlorite coated, dipping 20° to 30°, 30° to 40°, 40° to 50°, 60° to 70° and 70° to 80°. From 50.35m to 50.50m : With solution features.
51			60	100	89	88	>20			T2 I O I					
								51.51		51.75					
52			60	95	89	89	2.2			T2 I O I					
								52.88							From 52.88m to 53.00m : Fractured.
53		0.00m at 18:00					>20	53.00		53.17					
04/02/2017															
06/02/2017	HW 53.35	0.00m at 08:00								T2 I O I					
54			60	100	100	100				54.61					
							0.9			T2 I O I					
55			60	100	100	100									
56										56.05					
			60	100	64	64		56.37		T2 I O I					From 56.15m to 56.82m : With solution features and subvertical joints.
		0.00m at 18:00					11.8	56.71		56.71					
06/02/2017															From 56.66m to 57.55m : Impure Marble.
07/02/2017		0.00m at 08:00													
57			60	100	100	100				T2 I O I					
58										58.17					
59			60	100	98	100				T2 I O I					
							0.7			59.67					
60										T2 I O I					

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	09/02/2017
CHECKED	Y. M. Leung
DATE	10/02/2017

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH08
		SHEET 7 OF 8

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM43	E 820708.76 N 833826.39	DATE : 20/01/2017 to 09/02/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 1.02 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
											-58.98	60.00		II	See sheet 6 of 8
			60	100	100	100				T2IOI 61.10					From 61.15m to 62.13m : With some microfractures, randomly oriented.
			60	100	100	100				T2IOI 62.51					
07/02/2017		0.00m at 18:00													
08/02/2017		0.00m at 08:00						62.89							
			60	100	100	100	11.4	63.24		T2IOI 63.92					
			60	100	100	100				T2IOI 65.38					
			60	100	100	100	0.7			T2IOI 66.83					
			60	100	100	100				T2IOI 68.28					
			60	100	100	100	2.6	68.72		T2IOI 69.71					
08/02/2017		0.00m at 18:00					9.5	69.50 69.71							
09/02/2017		0.00m at								T2IOI					

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
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- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	09/02/2017
CHECKED	Y. M. Leung
DATE	10/02/2017

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH08	SHEET 8 OF 8

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM43	E 820708.76 N 833826.39	DATE : 20/01/2017 to 09/02/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 1.02 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
		08:00	60	100	90	90	1.5	70.38		T2101	-68.98	70.00		II	See sheet 7 of 8
09/02/2017		0.00m at 18:00					9.5	70.80		70.80	-69.78	70.80			End of Investigation Hole at 70.80m.

71 72 73 74 75 76 77 78 79 80

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	09/02/2017
CHECKED	Y. M. Leung
DATE	10/02/2017

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH09
		SHEET 1 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM48	E 820715.41 N 833782.26	DATE : 19/01/2017 to 11/02/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 1.19 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
19/01/2017	SW									A INSPECTION PIT 0.50	+1.09	0.10			Concrete surface. Grey (N 5), spotted yellowish brown and black, silty fine to coarse SAND with some angular fine to medium gravel sized rock fragments. (FILL)
										1 1.20					
										2 2.00	-0.81	2.00			Medium dense, light grey (N 7), spotted white, mottled brown, slightly clayey silty fine to coarse SAND. (ALLUVIUM)
			50	95						3 3.00 3.10					
								3.10	1,4, 4,3,2,3 N=12	4 3.20					
								3.55		5 3.50 3.55					
										6 4.00	-2.81	4.00			Brown (7.5YR 5/4), spotted white, silty fine to coarse SAND. (ALLUVIUM)
			50	55						7 5.00 5.10					
									86 blows	8	-3.91	5.10			Medium dense, light brown (7.5YR 6/4), locally brown, spotted white, silty fine to coarse SAND. (ALLUVIUM)
				91						9 5.55 5.60					
								5.60	1,3, 3,4,4,8 N=19	10 5.70					
								6.05		11 6.00 6.05					
										12 6.70					
19/01/2017	SW 7.10	0.10m at 18:00													
20/01/2017	PW	0.10m at 08:00								7.10					
			75	0						13 8.10 8.20					
									63 blows	14					
				89						15 8.65 8.70	-7.51	8.70			
								8.70	2,3, 6,6,6,8 N=26	16 8.80					Medium dense, light grey (N 7), locally light brown, spotted white, silty fine to coarse SAND with occasional subangular to subrounded fine gravel sized rock fragments. (ALLUVIUM)
								9.15		17 9.10 9.15					
										18 9.70					

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	T. C. Yip
DATE	13/02/2017
CHECKED	Y. M. Leung
DATE	15/02/2017

REMARKS
1. An inspection pit was excavated to 0.50m.

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH09
	SHEET 2 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM48	E 820715.41 N 833782.26	DATE : 19/01/2017 to 11/02/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 1.19 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	PW										-8.81	10.00			See sheet 1 of 9
11			75	0						10.20					
										19 11.20					
									116 bls	20 11.30	-10.11	11.30			Light brown (7.5YR 6/4), spotted white, silty fine to coarse SAND. (ALLUVIUM)
				96						21 11.75	-10.61	11.80			
12								11.80	5,9, 4,3,4,10 N=21	22 11.90					Firm, grey (N 5), spotted white, clayey sandy SILT. (ALLUVIUM)
								12.25		23 12.20 12.25					
										24 12.80					
13											-12.11	13.30			
										25 13.30					Firm to stiff, brown (7.5YR 5/4), spotted yellowish brown, mottled grey, clayey sandy SILT with some angular to subangular fine to medium gravel sized rock fragments. (KARST SURFACE DEPOSIT)
			75	92											
14								14.40	4,3, 4,6,10,14 N=34	26 14.30 14.40					
										27 14.50					
								14.85		28 14.80 14.85					
15															
										29 15.30					
			75	95											
16										30 16.30 16.40					
								16.40	7,8, 7,8,10,13 N=38	31 16.50					
								16.85		32 16.80 16.85					
17											-16.11	17.30			
										33 17.30					Firm to stiff, dark brown (7.5YR 3/4), spotted and mottled yellowish brown, clayey sandy SILT with occasional subangular fine to medium gravel sized rock fragments. (KARST SURFACE DEPOSIT)
			75	95											
18										34 18.30 18.40					
								18.40	3,3, 2,5,5,7 N=19	35 18.50					
								18.85		36 18.80 18.85					
19		0.00m at 18:00													
20/01/2017															
21/01/2017		0.10m at 08:00								37 19.30					
20			75	95											

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
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- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	T. C. Yip
DATE	13/02/2017
CHECKED	Y. M. Leung
DATE	15/02/2017

REMARKS

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH09	SHEET 3 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM48	E 820715.41 N 833782.26	DATE : 19/01/2017 to 11/02/2017
FLUSHING MEDIUM Water	ORIENTATION Vertical	GROUND LEVEL + 1.19 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	PW										-18.81	20.00			See sheet 2 of 9
21	PW 21.20 HW							20.40	3,4, 5,6,7,13 N=31	38 20.30 20.40 39 20.50 40 20.80 20.85	-20.01	21.20		II	Moderately strong, white, mottled brown, spotted light grey, slightly decomposed MARBLE with solution features. Joints are medium spaced, locally extremely closely spaced, rough planar and undulating, very narrow, iron and manganese oxide stained, dipping 0° to 10°, 40° to 50° and 60° to 70°. From 21.20m to 21.50m : With solution voids up to dia. 300mm. From 21.72m to 22.25m : With solution voids up to dia. 530mm.
22			50	99	85	31	3.1	20.85 22.50		21.20 T2101 22.50	-21.31	22.50			
23			75	95				22.50 22.95	2,3, 4,8,5,5 N=22	41 22.60 42 22.90 22.95 43 23.00					Medium dense, dark brown (7.5YR 3/4), mottled brown, light grey, spotted white, clayey fine to coarse SAND with occasional subangular fine to medium gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
24										44 24.00 24.10					
25								24.50 24.95	2,4, 8,8,6,8 N=30	45 24.60 46 24.90 24.95 47 25.00	-23.91	25.10			
26			75	95						48 26.00 26.10					Firm, brown (7.5YR 5/4), mottled dark brownish grey and light grey, clayey sandy SILT with some subangular fine to medium gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
27								26.50 26.95	2,3, 4,4,6,8 N=22	49 26.60 50 26.90 26.95 51 27.00					
28			75	93						52 28.00 28.10					
	21/01/2017 23/01/2017	0.00m at 18:00 0.10m at 08:00						28.50 28.73	20,28, 34,66/5mm (100/80mm)	53 28.50 54 28.68 28.73	-27.54	28.73			
29							6.3	29.21						II	Strong, white, dappled light grey, slightly decomposed MARBLE. Joints are very widely to widely spaced, rough planar, extremely narrow, iron oxide stained and occasional calcite coated, dipping 0° to 10°, 10° to 20° and occasional 50° to 60°. From 28.73m to 28.83m : Subvertical joints. From 29.65m to 31.30m : Impure Marble.
30			75	100	97	94				T2101					

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	T. C. Yip
DATE	13/02/2017
CHECKED	Y. M. Leung
DATE	15/02/2017

REMARKS

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH09
		SHEET 4 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM48	E 820715.41 N 833782.26	DATE : 19/01/2017 to 11/02/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 1.19 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	HW									T2 01 30.17	-28.81	30.00		II	See sheet 3 of 9
31			75	100	100	100				T2 01					
							0.8			31.60					
32			75	100	100	100				T2 01					
										32.94					
33			75	100	100	100				T2 01					
23/01/2017		0.00m at 18:00								33.73					
24/01/2017		0.10m at 08:00						34.05		T2 01					
34			75	100	100	100	7.1	34.47		34.58					
							1.3								
35			75	100	100	79		35.25		T2 01					
36										36.04					
			75	100	100	70	2.2			T2 01					From 36.66m to 37.22m : Subvertical joints.
37								37.50		37.47					From 37.47m to 37.57m : Subvertical joints.
38			75	100	99	97				T2 01					
39							0.7			38.91					
			75	100	100	100				T2 01					From 39.15m to 40.80m : Impure Marble.
40										39.59 T2 01					

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	T. C. Yip
DATE	13/02/2017
CHECKED	Y. M. Leung
DATE	15/02/2017

REMARKS

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH09	SHEET 5 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM48	E 820715.41 N 833782.26	DATE : 19/01/2017 to 11/02/2017
FLUSHING MEDIUM Water	ORIENTATION Vertical	GROUND LEVEL + 1.19 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	TCR %	SCR %	RQD %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	HW		75	100	100	100					-38.81	40.00		II	See sheet 4 of 9
24/01/2017		0.00m at 18:00						40.42		T2 1 01 40.42					
25/01/2017							2.6	40.81							
41			0	100	94	90	5.0			T2 1 01 41.86					From 41.63m to 45.50m : Impure Marble.
42							>20	42.01 42.11							From 42.01m to 42.11m : Subvertical joints.
			0	99	93	93	1.9			T2 1 01 43.34					
43								43.65							
44			0	100	100	83	5.4			T2 1 01 44.76					
45								44.76							
			0	100	100	100				T2 1 01 46.17					
46							0.8								
			0	97	97	97				T2 1 01 47.20					
47								47.20							
25/01/2017											-46.01	47.20			From 47.05m to 47.20m : With solution features.
26/01/2017		0.10m at 08:00						47.20	4,6, 2,5,7,9 N=23	55 47.30					Firm, brown (7.5YR 5/4), clayey SILT. (CAVITY INFILL DEPOSIT)
26/01/2017		0.00m						47.65		56 47.60 47.65	-46.46	47.65			
06/02/2017		at 18:00					NI	47.80						II	Strong, white, slightly decomposed MARBLE.
48		0.10m at 08:00	0	88	59	59	3.3			T2 1 01 48.40	-47.21	48.40			Joints are closely to medium spaced, locally very closely spaced, rough planar, extremely narrow, dipping 0° to 10° and 60° to 70°. From 47.65m to 47.80m : With slightly solution features.
								48.40	1,0, 1,0,1,1 N=3						Firm, dark brown (7.5YR 3/4), sandy clayey SILT with some angular to subangular fine to medium gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
								48.85		57 48.85					From 48.40m to 48.85m : No sample.
49			0	42						58 48.90					
		0.00m at 18:00								59 49.90 50.00	-48.81	50.00			
50 06/02/2017															

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	T. C. Yip
DATE	13/02/2017
CHECKED	Y. M. Leung
DATE	15/02/2017

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH09
	SHEET 6 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM48	E 820715.41 N 833782.26	DATE : 19/01/2017 to 11/02/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 1.19 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
07/02/2017	HW	0.10m at 08:00	0	86						60	-48.81	50.00			Firm, dark brown (7.5YR 3/4), clayey SILT. (CAVITY INFILL DEPOSIT)
										61 51.00 51.10					
								51.10	6,12, 7,4,4,4 N=19						From 51.10m to 51.55m : No sample.
								51.55		62 51.55					
										63 52.00					
			0	40											
										64 53.00 53.10	-51.91	53.10			
			0	0											Firm, dark brown (7.5YR 3/4), sandy clayey SILT with some angular to subangular fine to medium gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
										65 54.10 54.20					
								54.20	8,9, 6,4,6,8 N=24	66 54.30					From 54.10m to 54.20m : With occasional angular cobble sized slightly decomposed Marble.
								54.65		67 54.60 54.65					
											-53.74	54.93			
							4.4	55.38		54.93				II	Strong, light grey, dappled white, slightly decomposed MARBLE. Joints are very widely to widely spaced, locally closely to medium spaced, rough planar, extremely narrow and locally very narrow, clean and calcite coated, dipping 10° to 20°, 20° to 30°, 40° to 50° and occasional 60° to 70°. From 54.93m to 55.05m : With solution features. From 55.25m to 55.40m : With solution features.
			0	99	88	88				T2I0I					
							1.1	56.33		56.33					
07/02/2017	HW 56.33	0.00m at 18:00								T2I0I					
08/02/2017		0.10m at 08:00	60	96	96	0	12.5	56.57		56.57					
							4.6			T2I0I					
			60	100	100	100		57.44							
										T2I0I					
										58.02					
							0.6			T2I0I					
			60	100	100	100									
								59.10		T2I0I					
							4.0	59.35		59.46					
										T2I0I					

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	T. C. Yip
DATE	13/02/2017
CHECKED	Y. M. Leung
DATE	15/02/2017

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH09
		SHEET 7 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM48	E 820715.41 N 833782.26	DATE : 19/01/2017 to 11/02/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 1.19 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
											-58.81	60.00			
			60	100	100	100	1.0			T2IOI 60.89				II	See sheet 6 of 9
61							8.3	61.28 / 61.40							
			60	100	100	100	3.1			T2IOI					
62								62.36		62.36					
			60	100	100	100	1.3			T2IOI					
63		0.00m at 18:00								63.75					
08/02/2017		09/02/2017 0.10m at 08:00						63.90							
64							7.5	64.30							
			65	100	100	100	1.4			T2IOI					
65							10.0	65.03 / 65.13		65.24					
			65	100	100	100	1.5			T2IOI					
66										66.70					
67								67.13							
			65	100	100	100	9.1	67.24		T2IOI					
09/02/2017		0.00m at 12:00								67.64					
10/02/2017		0.10m at 08:00					1.4								
68							7.7	67.94 / 68.20							
			65	100	100	100				T2IOI					
69										69.13					
			65	100	100	100	0.9			T2IOI					
										69.65					
70										T2IOI					

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	T. C. Yip
DATE	13/02/2017
CHECKED	Y. M. Leung
DATE	15/02/2017

REMARKS

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH09
		SHEET 8 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM48	E 820715.41 N 833782.26	DATE : 19/01/2017 to 11/02/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 1.19 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
											-68.81	70.00		II	See sheet 7 of 9
			65	100	100	100		70.39							
							2.9			T2 1 01					
71								71.09		71.09					From 70.80m to 71.28m : Subvertical joints.
			65	100	100	100	3.6			T2 1 01					From 71.45m to 71.75m : Subvertical joints.
72								72.21		72.58					
							1.7								
			65	100	98	93	>20	72.80 72.94		T2 1 01					From 72.80m to 72.94m : Moderately strong, with closely spaced silt infilled joints up to 3mm thick, dipping 0° to 10° and 20° to 30°.
73							2.3								
		0.00m at 18:00						73.80							From 73.58m to 74.98m : Impure Marble.
74	10/02/2017 11/02/2017	0.10m at 08:00								73.95					
			65	100	100	100	3.8			T2 1 01					
75										75.43					
								75.65							
							20.0	75.75							From 75.65m to 76.75m : Moderately strong, with closely spaced silt infilled joints up to 3mm thick, dipping 0° to 10° and 20° to 30°.
76			65	100	97	90				T2 1 01					
										76.58					
77							1.5								
			65	100	100	100				T2 1 01					
78										78.03					
								78.45							
			65	100	100	100	9.1	78.56		T2 1 01					
79										79.05					
							2.1								
								79.50							
			65	100	100	100	10.0	79.60		T2 1 01					
80							3.2								

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	T. C. Yip
DATE	13/02/2017
CHECKED	Y. M. Leung
DATE	15/02/2017

REMARKS

J201617e

DRILLHOLE RECORD

CONTRACT NO. : GE/2015/29	HOLE NO. ADH09
	SHEET 9 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM48	E 820715.41 N 833782.26	DATE : 19/01/2017 to 11/02/2017
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 1.19 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
11/02/2017		0.00m at 18:00						80.23		T2 101 80.23	-78.81 -79.04	80.00 80.23		II	See sheet 8 of 9 End of Investigation Hole at 80.23m.

81 82 83 84 85 86 87 88 89 90

● Disturbed sample
▥ Piston sample
▨ Split spoon sample
▩ U76 undisturbed sample
■ U100 undisturbed sample
▨ Mazier sample
□ SPT liner sample
▲ Water sample
En Environmental Sample

Standard penetration test
V In-situ vane shear test
Permeability test
Pressuremeter test
Packer Test
Acoustic or optical televiewer survey
Piezometer tip
Standpipe
Groundwater Sampling Well
Vibrating wire piezometer
Impression packer test

LOGGED	T. C. Yip
DATE	13/02/2017
CHECKED	Y. M. Leung
DATE	15/02/2017

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH10
	SHEET 1 OF 6

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM48	E 820714.65 N 833696.77	DATE : 19/12/2016 to 31/12/2016
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 0.79 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
19/12/2016	SW										+0.59	0.20			Concrete surface.
										A INSPECTION PIT 0.50 B 0.60					Greyish brown (2.5Y 5/2), spotted white, mottled light grey, silty fine to coarse SAND with much subangular fine to coarse gravel sized rock fragments. (FILL)
1										1 1.60					From 1.50m to 1.60m : Firm, light grey (N 7), clayey sandy SILT with much subangular fine to coarse gravel.
2										2 2.00	-1.21	2.00			Loose, yellowish brown (10YR 5/4), spotted white, silty fine to coarse SAND. (ALLUVIUM)
			90	95											
3										3 3.00 3.10					
								3.10	5,4, 2,2,2,3 N=9	4 3.20					
								3.55		5 3.50 3.55	-2.71 -2.76	3.50 3.55			From 3.50m to 3.55m : Firm, clayey slightly sandy SILT.
4	19/12/2016 20/12/2016	0.20m at 18:00								6 4.00					
			90	35											
5										7 5.00 8 5.10					
				96					33 bls						
										9 5.55 5.60	-4.81	5.60			
								5.60	4,4, 4,4,6,10 N=24	10 5.70					Medium dense, light grey (N 7), spotted white, silty fine to coarse SAND. (ALLUVIUM)
6	SW 6.05 PW							6.05		11 6.00 6.05					
										12 6.50					
7											-6.31	7.10			
										13 7.10					Firm, dark grey (N 3), spotted white, slightly clayey sandy SILT with occasional decayed wood pieces. (ALLUVIUM)
			90	95											
8										14 8.10 8.20	-7.41	8.20			
								8.20	4,6, 6,3,3,7 N=19	15 8.30					Medium dense, yellowish brown (10YR 5/4), spotted white, silty fine to coarse SAND. (ALLUVIUM)
								8.65		16 8.60 8.65					
9											-8.31	9.10			
										17 9.10					Very dense, light yellowish brown (2.5Y 6/3), spotted white, silty fine to coarse SAND (ALLUVIUM)
			90	92											
10															

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	03/01/2017
CHECKED	Y. M. Leung
DATE	07/01/2017

REMARKS
1. An inspection pit was excavated to 0.60m.

J201617e

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH10
	SHEET 2 OF 6

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM48	E 820714.65 N 833696.77	DATE : 19/12/2016 to 31/12/2016
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 0.79 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	PW										-9.21	10.00			See sheet 1 of 6
								10.20	4,7, 14,17,20,25 N=76	18 10.10 10.20					
								10.65		19 10.30					
										20 10.60 10.65					
11										11.10					
			90	0											
12										21 12.10					
									66 bls	22 12.20					
		0.10m at 18:00		96											
	20/12/2016									23 12.65 12.70	-11.91	12.70			
	21/12/2016	0.70m at 08:00						12.70	5,5, 9,7,12,16 N=44	24 12.80					Dense, yellowish brown (10YR 5/4), mottled light grey, slightly clayey sandy subangular to subrounded fine to coarse GRAVEL sized rock fragments. (ALLUVIUM)
13								13.15		25 13.10 13.15					
										26 13.70					
14											-13.41	14.20			
										27 14.20					Firm, reddish brown (2.5YR 5/4), mottled yellowish brown, clayey slightly sandy SILT. (ALLUVIUM)
			90	95											
15										28 15.20 15.30					
								15.30	2,2, 3,3,3,4 N=13	29 15.40					
								15.75		30 15.70 15.75					
16											-15.41	16.20			
										31 16.20					Brown (7.5YR 5/4), spotted white, sandy SILT. (ALLUVIUM)
			90	95											
17										32 17.20 17.30	-16.51	17.30			
								17.30	10,8, 5,9,8,17 N=39	33 17.40					Firm to stiff, brown (7.5YR 5/4), striped reddish brown, clayey SILT. (ALLUVIUM)
								17.75		34 17.70 17.75					
18											-17.41	18.20			
										35 18.20					Firm to stiff, brown (7.5YR 5/4), mottled dark grey, reddish brown and light grey, clayey sandy SILT with some subangular fine gravel sized rock fragments. (KARST SURFACE DEPOSIT)
			90	95											
19										36 19.20 19.30					
								19.30	3,3, 3,3,8,14 N=28	37 19.40					
								19.75		38 19.70 19.75					
20															

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	03/01/2017
CHECKED	Y. M. Leung
DATE	07/01/2017

REMARKS

DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH10
	SHEET 3 OF 6

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM48	E 820714.65 N 833696.77	DATE : 19/12/2016 to 31/12/2016
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 0.79 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	PW										-19.21	20.00			See sheet 2 of 6
			90	95						39 20.20					
21		0.10m at 18:00								40 21.20 21.30					
21/12/2016								21.30	5,5, 6,4,7,8 N=25	41 21.40					
22/12/2016		0.10m at 08:00						21.75		42 21.70 21.75					
22											-21.41	22.20			
			90	91						43 22.20					Firm to stiff, dark brown (7.5YR 3/4), mottled brown, spotted white, clayey sandy SILT with some subangular fine to medium gravel sized rock fragments. (KARST SURFACE DEPOSIT)
23								23.30	8,9, 9,9,10,12 N=40	44 23.20 23.30					
										45 23.40					
								23.75		46 23.70 23.75					
24	PW 24.20 HW									47 24.20					
			90	85						48 25.20 25.30	-24.51	25.30			
25								25.30	6,6, 5,4,5,6 N=20	49 25.40					Firm to stiff, dark greyish brown (10YR 4/2), spotted and mottled white, clayey sandy SILT with some subangular fine to medium gravel sized rock and marble fragments. (KARST SURFACE DEPOSIT)
								25.75		50 25.70 25.75					
26										51 26.20					
			90	45											
27										52 27.20 27.30					
										53					
			90	95											
28										54 28.30 28.40					
								28.40	3,3, 3,5,5,6 N=19	55 28.50					
								28.85		56 28.80 28.85					
29															
										57 29.30					
			90	95											
30															

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

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DATE	03/01/2017
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DATE	07/01/2017

REMARKS

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH10
		SHEET 4 OF 6

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM48	E 820714.65 N 833696.77	DATE : 19/12/2016 to 31/12/2016
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 0.79 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	HW	0.10m at 18:00									-29.21	30.00			See sheet 3 of 6
22/12/2016										58 30.30 30.40					
23/12/2016		0.10m at 08:00						30.40	4,4, 5,5,9,11 N=30	59 30.50					
31								30.85		60 30.80 30.85					
										61 31.30					
			90	95											
32										62 32.30 32.40	-31.61	32.40			
								32.40	5,5, 6,8,9,11 N=34	63 32.50					Stiff, brown (7.5YR 5/4), slightly sandy SILT with some subangular fine to medium gravel sized rock fragments. (KARST SURFACE DEPOSIT)
								32.85		64 32.80 32.85					
33															
										65 33.30					
			90	95											
34										66 34.30 34.40	-33.61	34.40			
								34.40	7,7, 8,15,20,25 N=68	67 34.50					Stiff, light yellowish brown (2.5Y 6/3), spotted white, slightly sandy SILT. (KARST SURFACE DEPOSIT)
								34.85		68 34.80 34.85					
35											-34.51	35.30			
										69 35.30					Light yellowish brown (2.5Y 6/3), spotted white, slightly sandy subangular fine to coarse GRAVEL sized rock fragments. (KARST SURFACE DEPOSIT)
			90	44											
36															
										70 36.20 36.30	-35.51	36.30			
			60	86						T2I01	-35.89	36.68			Greyish brown (2.5Y 5/2), mottled light grey, subangular COBBLE sized slightly decomposed Monzonite with some slightly silty angular medium to coarse gravel sized rock fragments. (KARST SURFACE DEPOSIT)
23/12/2016	HW 36.92	0.10m at 18:00			100	100	2.6							II	
37 24/12/2016		0.10m at 08:00						37.07		36.92					Moderately strong to strong, white, dappled light grey, occasional spotted greenish grey, slightly decomposed MARBLE.
							>20	37.17							Joints are very widely to widely spaced, locally closely to medium spaced, occasional very closely spaced, rough planar and undulating, occasional smooth and slickensided planar, extremely narrow, occasional iron and manganese oxide stained, chlorite coated, dipping 10° to 20°, 20° to 30°, 40° to 50° and 50° to 60°.
							10.0	37.27							From 36.68m to 36.70m : With solution feature.
			60	100	85	79	1.7			T2I01					From 37.07m to 37.22m : With solution feature.
38								37.85							
							6.3	38.17		38.31					From 38.83m to 38.92m : With solution feature.
							1.6								
								38.81		T2I01					From 39.32m to 39.41m : With solution feature.
39			60	91	88	75	8.2								
								39.30							From 39.77m to 39.87m : With solution feature.
							2.0			39.77					
								39.80		T2I01					
40															

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
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- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	03/01/2017
CHECKED	Y. M. Leung
DATE	07/01/2017

REMARKS

J201617e

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH10
		SHEET 5 OF 6

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM48	E 820714.65 N 833696.77	DATE : 19/12/2016 to 31/12/2016
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 0.79 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
											-39.21	40.00			
24/12/2016		0.10m at 18:00	60	96	78	61	13.2	40.71		T2IOI 41.10				II	From 39.96m to 40.02m : With solution feature.
28/12/2016		0.10m at 08:00	60	93	79	74				T2IOI 42.34					From 40.31m to 41.08m : With solution feature.
			60	100	98	98				T2IOI 43.82					From 41.61m to 41.88m : With solution feature.
28/12/2016		0.00m at 18:00	60	97	94	89				T2IOI 44.44					From 42.34m to 43.03m : Impure Marble.
29/12/2016		0.10m at 08:00	60	100	100	99	1.2			T2IOI 45.89					
			60	100	100	100				T2IOI 47.30					
		Dry at 18:00	60	100	100	100				T2IOI 48.06					
30/12/2016		0.10m at 08:00	60	100	100	100				T2IOI 48.79					
			60	100	100	100		49.68		T2IOI					

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REMARKS

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DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH10
	SHEET 6 OF 6

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM48	E 820714.65 N 833696.77	DATE : 19/12/2016 to 31/12/2016
FLUSHING MEDIUM	Water	ORIENTATION Vertical	GROUND LEVEL + 0.79 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
										T2IOI 50.27	-49.21	50.00		II	See sheet 5 of 6
51			60	100	100	100	3.8	51.51		T2IOI 51.76					
52			60	100	100	100	0.5			T2IOI 53.21					
53								53.33							From 53.33m to 53.37m : With solution feature.
							>20	53.57							
							10.0	53.67							
54			60	100	85	79				T2IOI 54.64					
	30/12/2016	Dry at 18:00													
	31/12/2016	0.10m at 08:00													
55			60	100	100	100	1.7			T2IOI 56.09					
56															From 56.00m to 57.29m : Impure Marble.
57			60	100	100	100				T2IOI 57.29	-56.50	57.29			
	31/12/2016	Dry at 18:00						57.29							
															End of Investigation Hole at 57.29m.
58															
59															
60															

- Disturbed sample
- Piston sample
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- SPT liner sample
- Water sample
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REMARKS

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DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH11
	SHEET 1 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM32	E 820730.06 N 834148.44	DATE : 05/12/2016 to 22/12/2016
FLUSHING MEDIUM	Air Foam / Water	ORIENTATION Vertical	GROUND LEVEL + 0.67 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
05/12/2016	SW										+0.57	0.10			Concrete surface.
										A 0.50	+0.17	0.50			Soft, dark grey (N 3), locally brown, spotted white, clayey sandy SILT with some angular to subangular fine to coarse gravel sized rock fragments and shell fragments. (FILL)
										B 1.00					Soft, dark grey (N 3), spotted white, clayey sandy SILT with some shell fragments. (FILL)
										C 1.20					
		0.25m at 18:00													
05/12/2016															
06/12/2016		0.65m at 08:00									-1.33	2.00			
				0						2.00					Dark grey (N 3), spotted white, silty fine to coarse SAND with occasional shell fragments. (FILL)
										1 3.00					
										2 3.10	-2.43	3.10			Grey (N 5), spotted white, silty fine to coarse SAND. (ALLUVIUM)
				100											
		0.45m at 18:00								3 4.10 4.20	-3.53	4.20			
06/12/2016															
07/12/2016		0.50m at 08:00						4.20	3,5, 5,4,4,6 N=19	4 4.30					Medium dense, brown (7.5YR 5/4), spotted white, silty fine to coarse SAND. (ALLUVIUM)
								4.65		5 4.60 4.65					
										5.10					
				0											
										6 6.10 6.20	-5.53	6.20			
										7					Medium dense, grey (N 5), locally dark grey, spotted white, slightly clayey silty fine to coarse SAND. (ALLUVIUM)
				71											
										8 7.20 7.30					
								7.30	3,7, 7,6,7,8 N=28	9 7.40					
								7.75		10 7.70 7.75					
										8.20					
				0											
		0.60m at 18:00								11 9.20 9.30					
07/12/2016															
08/12/2016		1.40m at 08:00								12					From 9.30m to 10.40m : Dark grey (N 3).
				40											

- Disturbed sample
- Piston sample
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- U76 undisturbed sample
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- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
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- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	07/01/2017
CHECKED	Y. M. Leung
DATE	09/01/2017

REMARKS
1. An Inspection pit was excavated to 1.20m.
2. Water was used as flushing medium from 21.50m to 81.24m as instructed by the Service Manager.

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DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH11
		SHEET 2 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM32	E 820730.06 N 834148.44	DATE : 05/12/2016 to 22/12/2016
FLUSHING MEDIUM Air Foam / Water	ORIENTATION Vertical	GROUND LEVEL + 0.67 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	TCR %	SCR %	RQD %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	SW										-9.33	10.00			See sheet 1 of 9
								10.40	8,8, 10,12,12,14 N=48	13 10.30 10.40					
								10.85		14 10.50					
										15 10.80 10.85					
11															
										16 11.30					
12				30											
										17 12.30 12.40					
										18					
13				73											
										19 13.40 13.50					
								13.50	3,6, 2,2,2,3 N=9						
14								13.95		20 13.95					
		1.60m at 18:00									-13.73	14.40			
	08/12/2016 09/12/2016	1.10m at 08:00								21 14.40				V	Extremely weak, brown (7.5YR 5/4), streaked white, completely decomposed METASANDSTONE. (Silty fine SAND)
15				95											
	SW 15.50 PW									22 15.40 15.50					
								15.50	5,6, 6,10,10,11 N=37	23 15.60					
16								15.95		24 15.90 15.95					
											-15.73	16.40			
										25 16.40				V	Extremely weak, brown (7.5YR 5/4), streaked light grey, completely decomposed METASILTSTONE. (Slightly sandy SILT with some subangular fine to medium gravel)
17				81											
										26 17.40 17.50					
										27					
18				100											
										28 18.50 18.60					
								18.60	3,4, 5,8,10,11 N=34	29 18.70					
19								19.05		30 19.00 19.05					
											-18.83	19.50			
										31 19.50					Brown (7.5YR 5/4), dappled light grey and dark grey, slightly silty sandy subangular to subrounded fine to coarse GRAVEL sized rock fragments. (KARST SURFACE
20															

- Disturbed sample
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DATE	07/01/2017
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REMARKS

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH11
		SHEET 3 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM32	E 820730.06 N 834148.44	DATE : 05/12/2016 to 22/12/2016
FLUSHING MEDIUM Air Foam / Water	ORIENTATION Vertical	GROUND LEVEL + 0.67 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	PW			100							-19.33	20.00			DEPOSIT) See sheet 2 of 9
								20.60	12,9, 6,6,11,13 N=36	32 20.50 20.60 33 20.70					
21		0.95m at 18:00						21.05		34 21.00 21.05					
09/12/2016															
10/12/2016		1.05m at 08:00								21.50					
22			50	0											
		1.30m at 18:00													
10/12/2016										35 22.50 22.60	-21.93	22.60			
13/12/2016		0.35m at 08:00												II	Moderately strong, light brownish grey, striped light brown, slightly decomposed impure MARBLE. Joints are very closely to closely spaced, locally medium spaced, occasional extremely closely spaced, extremely narrow, iron and manganese oxide stained, chlorite coated, dipping 0° to 10°, 10° to 20°, 30° to 40° and 40° to 50°. From 22.60m to 23.12m : With solution feature. From 22.88m to 22.96m : With kaolin infilled up to 55mm thick, dipping 40° to 50°. From 23.12m to 23.30m : No recovery, inferred to be Cavity.
23			60	74	20	0	>20	23.12		T2I0I	-22.45	23.12			
							NR	23.30			-22.63	23.30			
							5.9	23.47						II	
			60	98	64	40	>20	23.90		HMLC					
24		0.50m at 18:00					5.0	24.10							
13/12/2016							>20	24.22		24.22	-23.55	24.22			
14/12/2016		0.25m at 08:00	60	0						HMLC					From 23.30m to 24.22m : With solution feature. No recovery, inferred to be Cavity.
										24.50	-23.83	24.50			Brown (7.5YR 5/4), locally light greenish grey, spotted light brown, clayey silty subangular fine to medium GRAVEL sized rock fragments. (CAVITY INFILL DEPOSIT)
25			60	0											
										25.50					
										36 25.60	-24.93	25.60			
										37					Brown (7.5YR 5/4), dappled light brownish grey, silty sandy angular fine to coarse GRAVEL sized rock fragments. (CAVITY INFILL DEPOSIT)
26			60	67											
										26.60					
										38 26.70	-26.03	26.70			
								26.70	7,8, 100/70mm (100/70mm)	39					Firm, light greenish grey (10GY 7/1), sandy SILT with occasional subangular fine to medium gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
								26.92		40 26.87 26.92	-26.25	26.92			
27														II	Moderately strong to strong, grey (N 5), dappled striped white, slightly decomposed impure MARBLE. Joints are very widely spaced, locally extremely closely spaced, rough undulating, extremely narrow, iron and manganese oxide stained, dipping 10° to 20° and 20° to 30°.
			50	100	100	100									
28							0.8								
										28.43					
															From 29.30m to 29.40m : Very stiff, brown (7.5YR 5/4), spotted white, clayey sandy SILT. (CAVITY INFILL DEPOSIT) From 29.40m to 29.50m : No recovery, inferred to be Cavity.
29			50	91	86	86				T2I0I					
		0.30m at 18:00						29.30			-28.63	29.30			
							NA	29.40			-28.73	29.40			
14/12/2016							NR	29.50		29.50	-28.83	29.50			
15/12/2016		0.20m at 08:00								41					Firm, brown (7.5YR 5/4), spotted white, clayey slightly sandy SILT with occasional subangular fine to medium gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
30			60												

- Disturbed sample
- Piston sample
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- V In-situ vane shear test
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- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
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LOGGED	S. C. Law
DATE	07/01/2017
CHECKED	Y. M. Leung
DATE	09/01/2017

REMARKS

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH11
		SHEET 4 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM32	E 820730.06 N 834148.44	DATE : 05/12/2016 to 22/12/2016
FLUSHING MEDIUM Air Foam / Water	ORIENTATION Vertical	GROUND LEVEL + 0.67 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	PW			100							-29.33	30.00			See sheet 3 of 9
	PW 30.50									42 30.40 30.50	-29.83	30.50			
	HW													II	Moderately strong, light grey (N 7), dappled greyish brown, slightly decomposed impure MARBLE. Joints are medium to widely spaced, locally closely spaced, rough planar and slickensided planar, extremely narrow, iron and manganese oxide stained, dipping 20° to 30°, 40° to 50° and 50° to 60°.
31			50	95	86	86	1.3	31.28		T2 I O I					
							3.2	31.90			-31.23	31.90			
32							>20	32.00		43 32.00	-31.33	32.00			From 31.90m to 32.00m : Stiff, brown (7.5YR 5/4), locally dark brown, spotted white, silty sandy subangular fine to coarse GRAVEL sized rock fragments. (CAVITY INFILL DEPOSIT)
			60	100						44 32.40 32.50	-31.83	32.50			
			50	83	83	71	5.7	32.85		T2 I O I				II	Very stiff, dark brown (7.5YR 3/4), spotted white, clayey slightly sandy SILT. (CAVITY INFILL DEPOSIT)
33			50	67	0	0	>20	33.00		T2 I O I 45 33.00	-32.33	33.00			Moderately strong to strong, grey (N 5), dappled white, slightly decomposed impure MARBLE. Joints are medium spaced, locally extremely closely spaced, rough planar and rough stepped, extremely narrow, occasional iron and manganese oxide stained, dipping 10° to 20°, 40° to 50° and 50° to 60°.
			60	100											
34								34.10	6,5, 7,9,9,15 N=40	46 34.00 34.10					Very stiff, dark brown (7.5YR 3/4), spotted black, clayey slightly sandy SILT. (CAVITY INFILL DEPOSIT)
								34.55		47 34.20					
										48 34.50 34.55					
35											-34.33	35.00			
			60	100						49 35.00					Firm, brown (7.5YR 5/4), dappled dark grey, clayey slightly sandy SILT. (CAVITY INFILL DEPOSIT)
										50 35.50 35.60	-34.93	35.60			
			50	78						T2 I O I					Grey (N 5), dappled light grey, subangular COBBLE sized moderately decomposed and slightly decomposed impure Marble with much angular medium to coarse gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
36										51 36.00	-35.33	36.00			
			60	34											Firm, brown (7.5YR 5/4), dappled dark grey, clayey sandy SILT with much angular to subangular fine to medium gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
37		0.35m at 18:00													
	15/12/2016 16/12/2016	0.20m at 08:00								52 37.00 37.10					
			50	45						53					
38															
								38.20	16,26, 30,41,29/50mm (100/200mm)	54 38.10 38.20					
								38.55		55					
										56 38.50 38.55					
39											-38.43	39.10			
			50	0						57 39.10 39.20 39.30					Dark grey (N 3), locally dark brown, subangular COBBLE sized moderately decomposed and slightly decomposed impure Marble with much angular fine to coarse gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
			50	56						T2 I O I					
40										58 39.80	-39.13	39.80			Light grey (N 7), dappled dark grey, clayey sandy SILT with

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED	S. C. Law
DATE	07/01/2017
CHECKED	Y. M. Leung
DATE	09/01/2017

REMARKS

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH11
		SHEET 5 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM32	E 820730.06 N 834148.44	DATE : 05/12/2016 to 22/12/2016
FLUSHING MEDIUM Air Foam / Water	ORIENTATION Vertical	GROUND LEVEL + 0.67 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
	HW		50	25						59 40.80 40.90	-40.23	40.90			much angular fine to medium gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
41			50	40						60 41.90 42.00					Firm, dark brown, dappled dark grey, clayey sandy SILT with much angular fine to medium gravel sized rock fragments. (CAVITY INFILL DEPOSIT)
42								42.00 42.45	6,11, 12,16,17,14 N=59	61 41.90 42.00 62 42.10 63 42.40 42.45	-42.23	42.90			
43			50	0						42.90					Dark grey (N 3), dappled brownish grey, slightly sandy angular to subangular fine to coarse GRAVEL sized rock fragments. (CAVITY INFILL DEPOSIT)
44	16/12/2016 17/12/2016	0.25m at 18:00 0.25m at 08:00	50	0						64 43.90 44.00					
45								45.10 45.55	6,11, 10,13,13,15 N=51	65 45.00 45.10 66 45.20 67 45.50 45.55	-44.43	45.10			Very dense, grey (N 5), dappled dark grey, clayey sandy angular fine to coarse GRAVEL sized rock fragments. (CAVITY INFILL DEPOSIT)
46			50	63						68 46.00					
47	HW 47.20		50	0						69 47.00 47.10 70 47.15 47.20	-46.53	47.20		II	Strong, grey, dappled white, slightly decomposed impure MARBLE. Joints are very widely spaced, locally moderately weak rough planar and occasional undulating, extremely narrow, chlorite and calcite coated, occasional iron and manganese oxide stained, dipping 10° to 20°, 20° to 30°, 40° to 50° and 60° to 70°.
48			50	100	100	100				T2 I O I 48.60					From 48.58m to 48.64m : With solution feature.
49			50	100	100	100				T2 I O I					
50															

- Disturbed sample
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- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- Water sample
- En Environmental Sample
- Standard penetration test
- V In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiewer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
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LOGGED	S. C. Law
DATE	07/01/2017
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DATE	09/01/2017

REMARKS

DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH11
		SHEET 6 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM32	E 820730.06 N 834148.44	DATE : 05/12/2016 to 22/12/2016
FLUSHING MEDIUM Air Foam / Water	ORIENTATION Vertical	GROUND LEVEL + 0.67 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
											-49.33	50.00			
			50	100	100	100	0.7			T2 1				II	See sheet 5 of 9
										50.77					
			50	100	100	100				T2 1					From 51.30m to 53.50m : With quartz veins
17/12/2016		0.30m at 18:00													
19/12/2016		0.10m at 08:00													
			50	100	100	100				T2 1					
								53.89		53.62					
							8.7	54.12							
			50	100	100	100	1.9	54.65		T2 1					
										55.10					
			50	100	100	100				T2 1					From 55.70m to 56.56m : With quartz veins
										56.56					
			50	100	100	100				T2 1					
										58.05					
			50	100	100	100				T2 1					
										59.53					
										T2 1					

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- Permeability test
- Pressuremeter test
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DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH11
		SHEET 7 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM32	E 820730.06 N 834148.44	DATE : 05/12/2016 to 22/12/2016
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Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
											-59.33	60.00			
61			50	100	100	100				T2IOI 61.01				II	See sheet 6 of 9
62		0.15m at 18:00	50	100	100	100				T2IOI 62.47					
19/12/2016 20/12/2016		0.13m at 08:00													
63			50	100	100	100				T2IOI 63.95					
64			50	100	100	100				T2IOI 65.45					
65															
66			50	100	100	100	0.8			T2IOI 66.80					
67			50	100	100	100				T2IOI 67.77					
68			50	100	100	98				T2IOI 69.25					
69		0.10m at 18:00													
20/12/2016 21/12/2016		0.15m at 08:00								T2IOI					
70															

- Disturbed sample
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REMARKS

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DRILLHOLE RECORD

VIBRO	CONTRACT NO. : GE/2015/29	HOLE NO. ADH11
		SHEET 8 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO. VBM32	E 820730.06 N 834148.44	DATE : 05/12/2016 to 22/12/2016
FLUSHING MEDIUM Air Foam / Water	ORIENTATION Vertical	GROUND LEVEL + 0.67 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
											-69.33	70.00		II	See sheet 7 of 9
			50	100	100	100				T2 1 01 70.73					
71			50	100	94	90				T2 1 02 71.81					
72			50	100	97	97				T2 1 03 72.96					From 72.48m to 73.01m : Brecciated layer up to 530mm thick, dipping 40° to 50°.
73			50	100	100	100				T2 1 04 74.44					
74			50	100	100	100				T2 1 05 75.92					
75		0.13m at 18:00													
76	21/12/2016 22/12/2016	0.10m at 08:00	50	100	100	100				T2 1 06 77.42					
77								77.80							
78			50	100	98	94	12.8	78.19		T2 1 07 78.82					
79			50	100	100	100	0.7			T2 1 08					
80															

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DRILLHOLE RECORD

VIBRO

CONTRACT NO. : GE/2015/29	HOLE NO. ADH11
	SHEET 9 OF 9

PROJECT Ground Investigation - New Territories West
Agreement No. CE 32/2014 (HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO. GE/2015/29.8
MACHINE & NO.	VBM32	E 820730.06 N 834148.44	DATE : 05/12/2016 to 22/12/2016
FLUSHING MEDIUM	Air Foam / Water	ORIENTATION Vertical	GROUND LEVEL + 0.67 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	T C R %	S C R %	R Q D %	FI	Depth of FI / Test	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
22/12/2016		0.12m at 18:00	50	100	100	100		81.24		T2 01 80.34 T2 01 81.24	-79.33 -80.57	80.00 81.24		II	See sheet 8 of 9 End of Investigation Hole at 81.24m.

- Disturbed sample
- Piston sample
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- U76 undisturbed sample
- U100 undisturbed sample
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- Standard penetration test
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- Pressuremeter test
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REMARKS

J201617e

APPENDIX D

DRILLHOLE COREBOX PHOTOGRAPHS

GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO (H.K.) LIMITED
惠保(香港)有限公司
新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No : GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH01

Box No.: 1 of 14

Depth : 0.00 m to 13.35 m

Date of Photograph : 22-02-2017

0.00m 1.00m

GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO 惠保(香港)有限公司
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Contract No.: GE/2015/29

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Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH01

Box No.: 2 of 14

Depth : 13.35 m to (23.62) m

Date of Photograph : 22-02-2017

Kodak Color Control Patches
Blue Cyan Green Yellow Red Magenta White 3/Color Black

0.00m 1.00m

GEOTECHNICAL ENGINEERING OFFICE
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Contract No.: GE/2015/29

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Task Order No. : GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

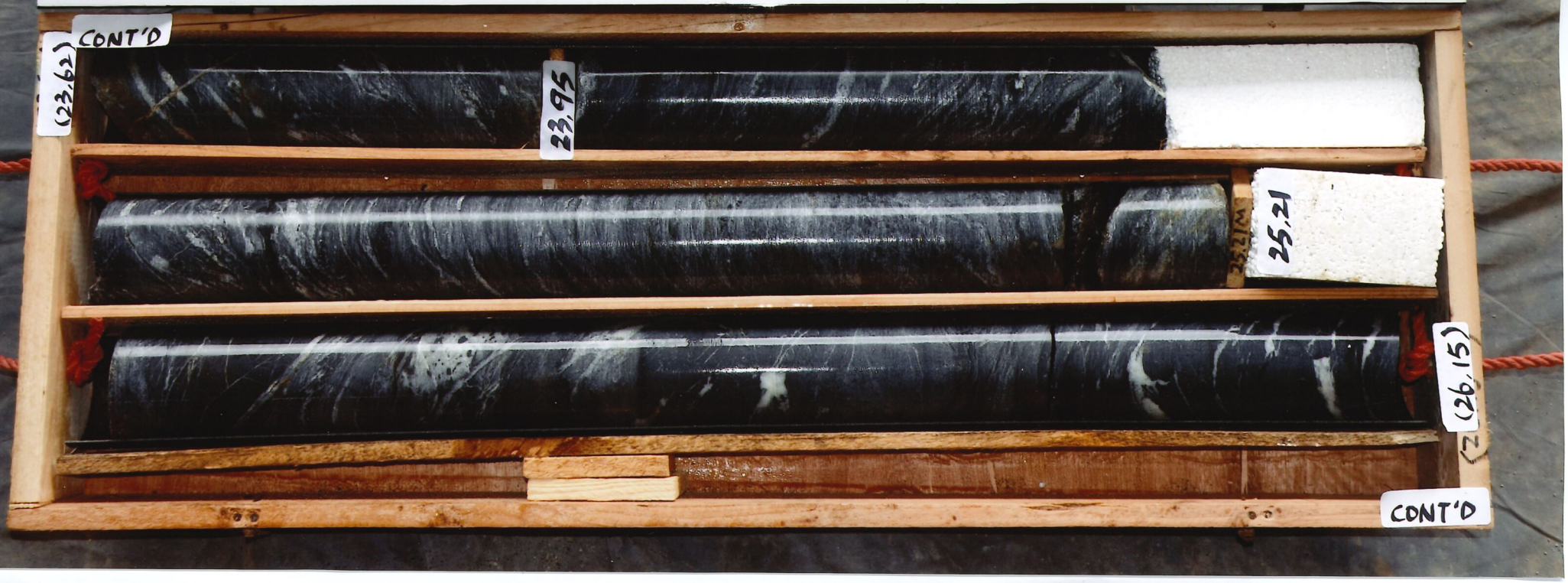
Hole No.: ADH01

Box No.: 3 of 14

Depth : (23.62) m to (26.15) m

Date of Photograph : 22-02-2017

0.00m 1.00m



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CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO 惠保(香港)有限公司
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Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

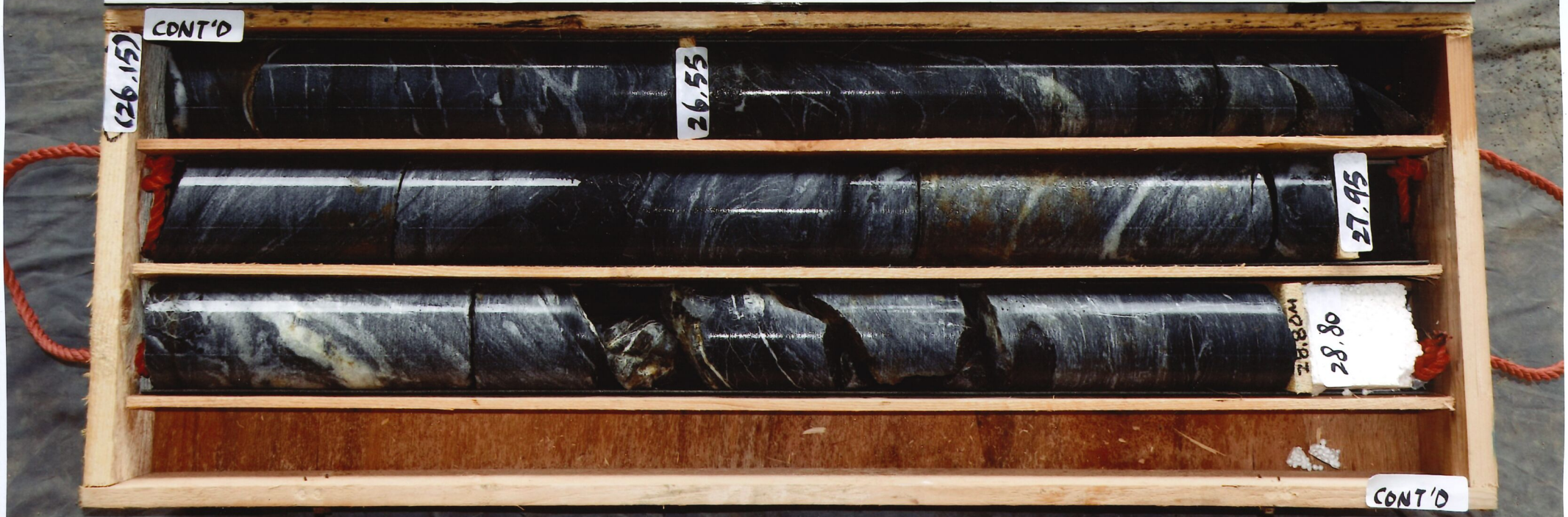
Hole No.: ADH01

Box No.: 4 of 14

Depth : (26.15) m to 28.80 m

Date of Photograph : 22-02-2017

0.00m 1.00m



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Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

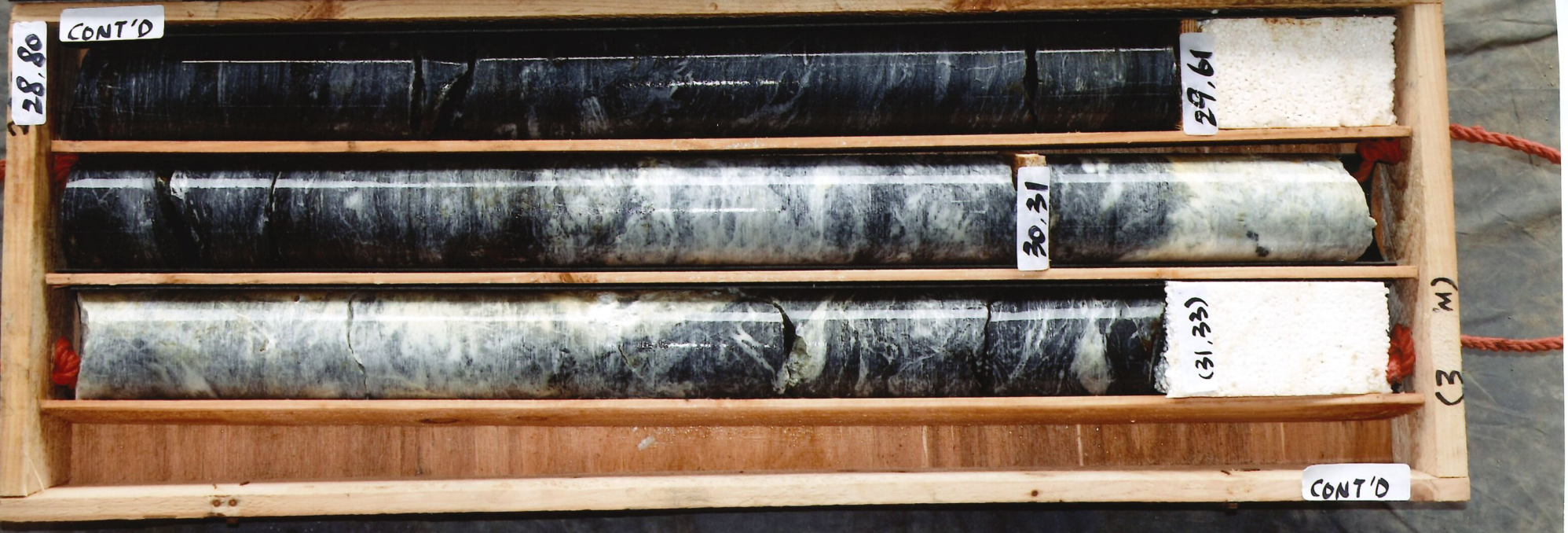
Hole No.: ADH01

Box No.: 5 of 14

Depth : 28.80 m to (31.33) m

Date of Photograph : 22-02-2017

0.00m 1.00m



GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO 惠保(香港)有限公司
VIBRO (H.K.) LIMITED
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Contract No.: GE/2015/29

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Task Order No. GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH01

Box No.: 6 of 14

Depth : (31.33) m to (34.13) m

Date of Photograph : 22-02-2017

GEOTECHNICAL ENGINEERING OFFICE
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Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long
Town connecting with Long Ping Station - IDC

Hole No.: ADH01

Box No.: 7 of 14

Depth : (34.13) m to (36.85) m

Date of Photograph : 22-02-2017

GEOTECHNICAL ENGINEERING OFFICE
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Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH01

Box No.: 8 of 14

Depth : (36.85) m to (39.63) m

Date of Photograph : 22-02-2017

0.00m 1.00m

GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

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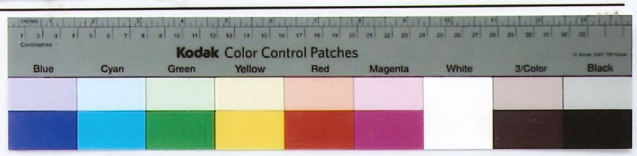
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

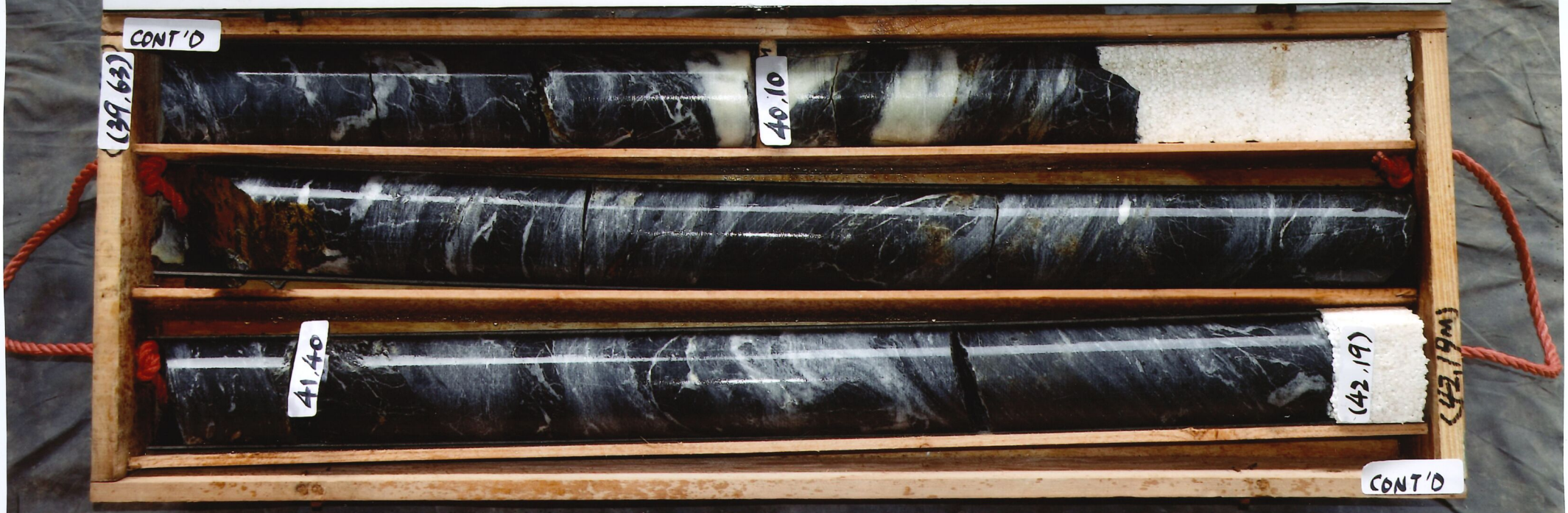
Hole No.: ADH01

Box No.: 9 of 14

Depth : (39.63) m to (42.19) m

Date of Photograph : 22-02-2017





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VIBRO (H.K.) LIMITED
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Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

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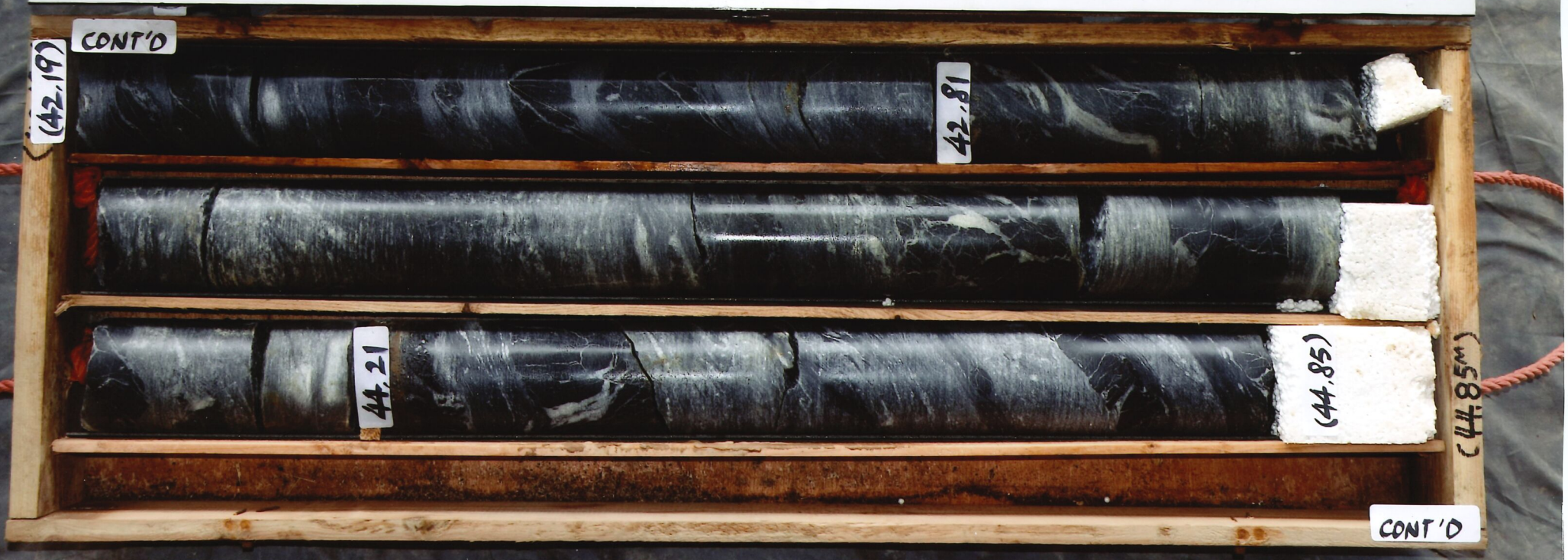
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH01

Box No.: 10 of 14

Depth : (42.19) m to (44.85) m

Date of Photograph : 22-02-2017



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VIBRO (H.K.) LIMITED
新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No. GE/2015/29.8

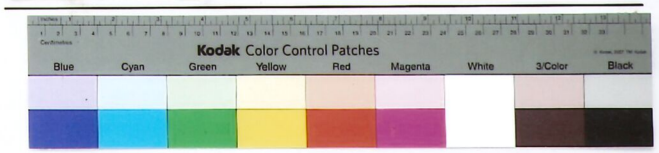
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

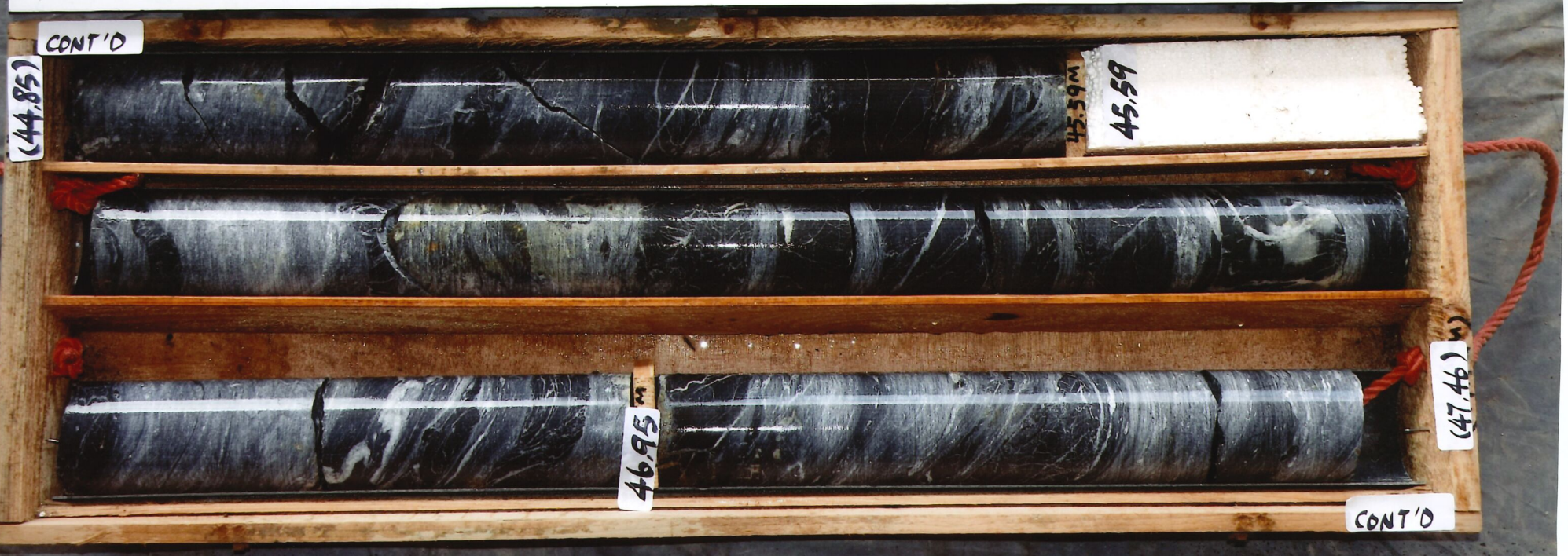
Hole No.: ADH01

Box No.: 11 of 14

Depth : (44.85) m to (47.46) m

Date of Photograph : 22-02-2017





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VIBRO 惠保(香港)有限公司
VIBRO (H.K.) LIMITED
新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No. GE/2015/29.8

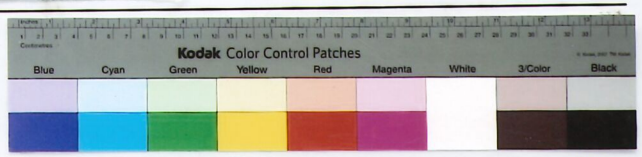
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long
Town connecting with Long Ping Station - IDC

Hole No.: ADH01

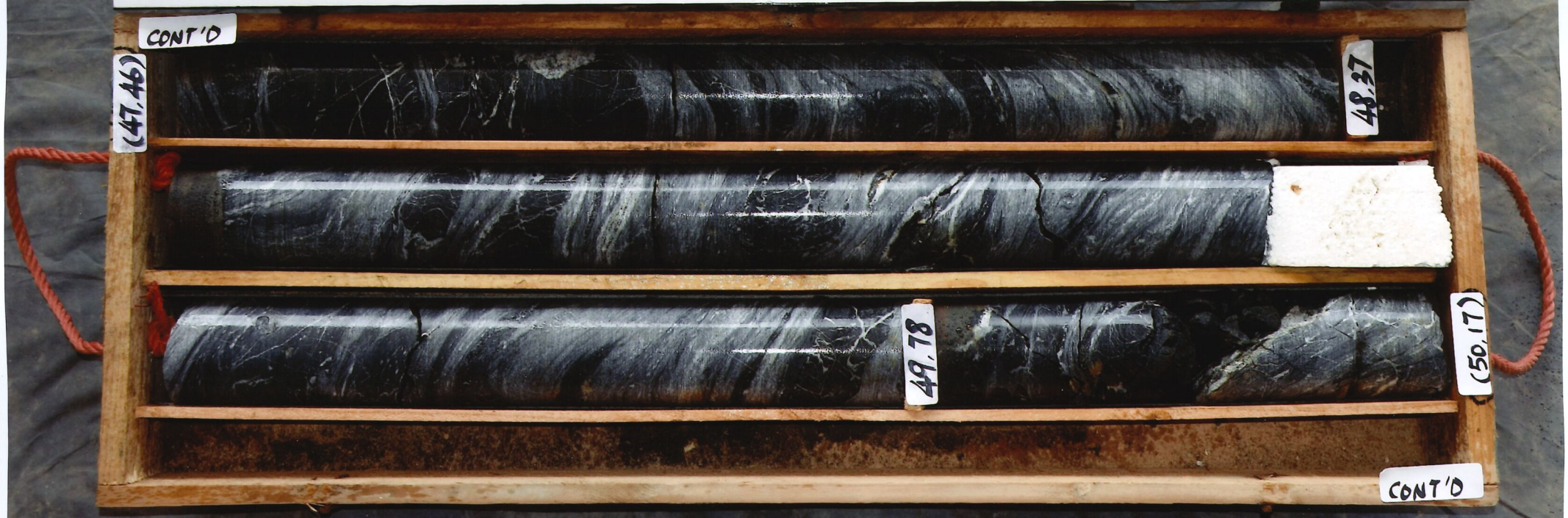
Box No.: 12 of 14

Depth : (47.46) m to (50.17) m

Date of Photograph : 22-02-2017



0.00m 1.00m



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VIBRO (H.K.) LIMITED
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新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No. GE/2015/29.8

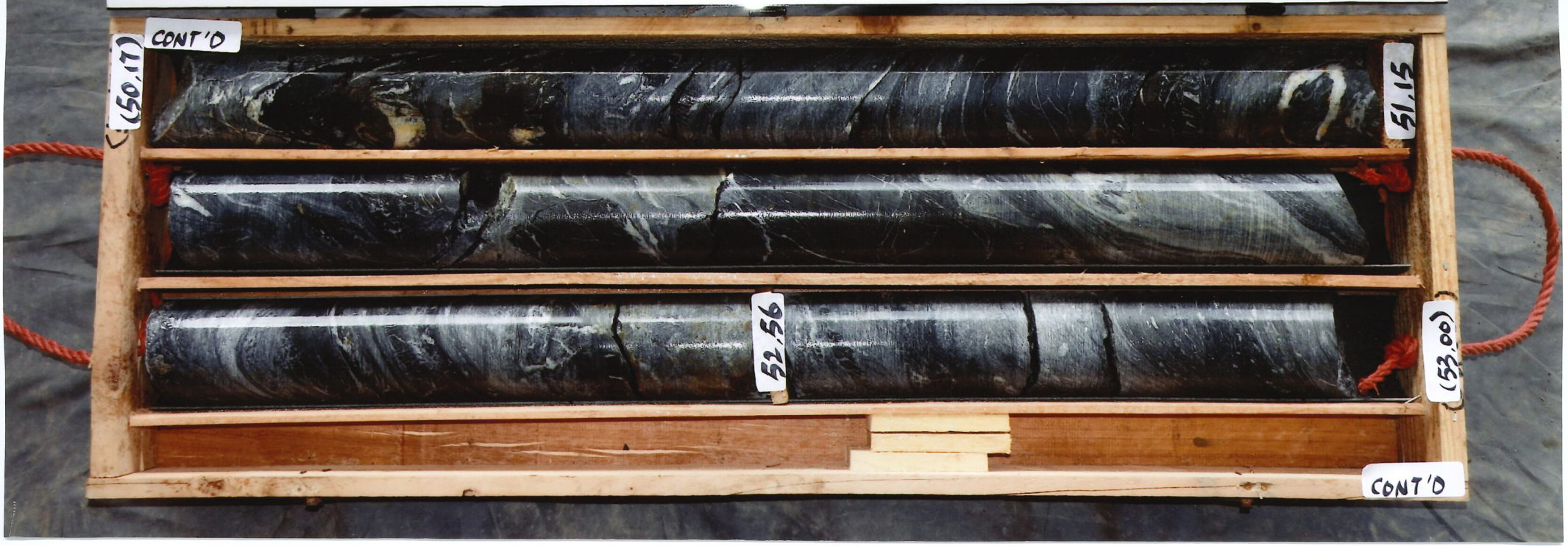
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH01

Box No.: 13 of 14

Depth : (50.17) m to (53.00) m

Date of Photograph : 22-02-2017



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VIBRO 惠保(香港)有限公司
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Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No. GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

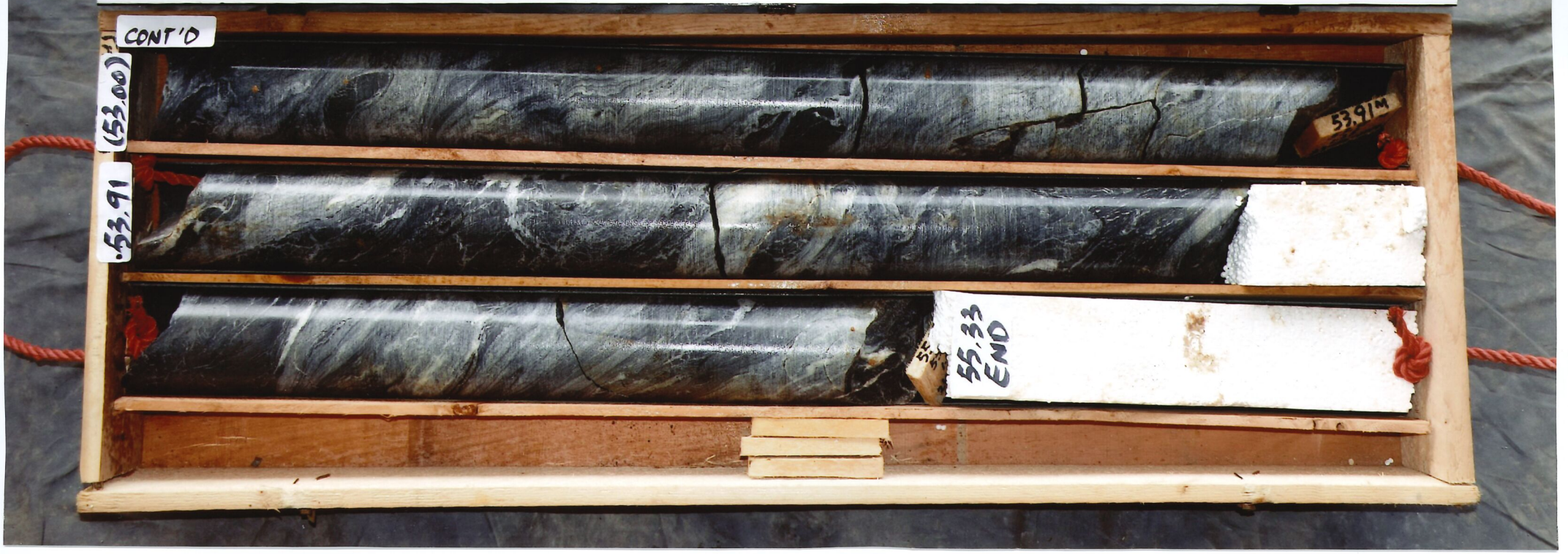
Hole No.: ADH01

Box No.: 14 of 14

Depth : (53.00) m to 55.33 m

Date of Photograph : 22-02-2017

0.00m 1.00m



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VIBRO 惠保(香港)有限公司
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Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No : GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH02

Box No.: 1 of 14

Depth : 0.00 m to 13.10 m

Date of Photograph : 22-02-2017

0.00m 1.00m

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VIBRO 惠保(香港)有限公司
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Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No : GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH02

Box No.: 2 of 14

Depth : 13.10 m to 22.90 m

Date of Photograph : 22-02-2017

0.00m 1.00m

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VIBRO 惠保(香港)有限公司
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Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No.: GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH02

Box No.: 3 of 14

Depth : 22.90 m to 26.30 m

Date of Photograph : 22-02-2017

0.00m 1.00m


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Contract No.: GE/2015/29
Contract Title : Ground Investigation - New Territories West
Task Order No : GE/2015/29.8
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC
Hole No.: ADH02
Box No.: 4 of 14
Depth : 26.30 m to (29.11) m
Date of Photograph : 22-02-2017
Kodak Color Control Patches
0.00m
1.00m
CONT'D
26.30
NR
26.65 - 27.11
27.38
28.61
(29.11)
CONT'D

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Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No.: GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH02

Box No.: 5 of 14

Depth : (29.11) m to (31.97) m

Date of Photograph : 22-02-2017

0.00m 1.00m

GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO (H.K.) LIMITED
惠保(香港)有限公司
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Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No : GE/2015/29.8

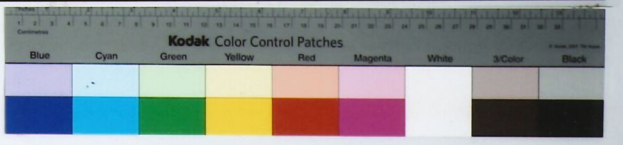
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH02

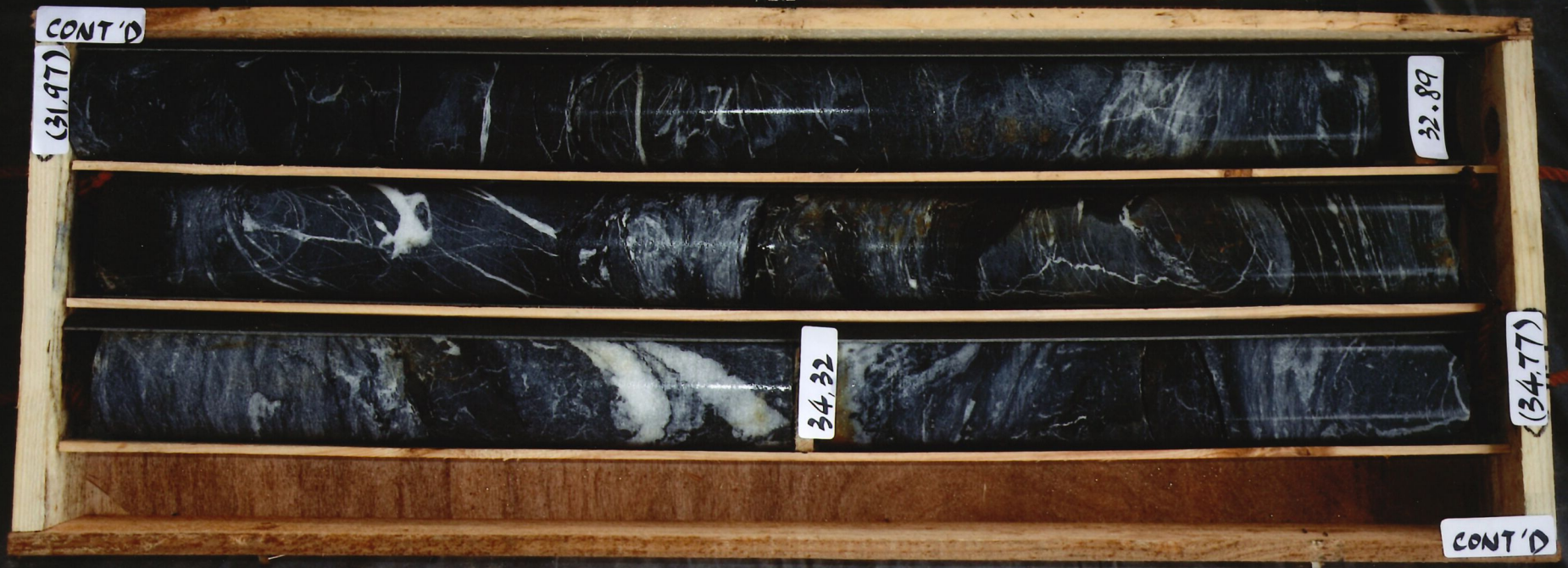
Box No.: 6 of 14

Depth : (31.97) m to (34.77) m

Date of Photograph : 22-02-2017



0.00m 1.00m



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CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO (H.K.) LIMITED
惠保(香港)有限公司
新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No.: GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH02

Box No.: 7 of 14

Depth : (34.77) m to 37.17 m

Date of Photograph : 22-02-2017

0.00m 1.00m

GEOTECHNICAL ENGINEERING OFFICE
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Contract Title : Ground Investigation - New Territories West

Task Order No : GE/2015/29.8

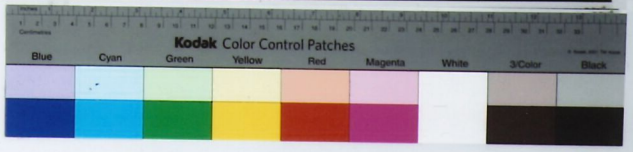
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH02

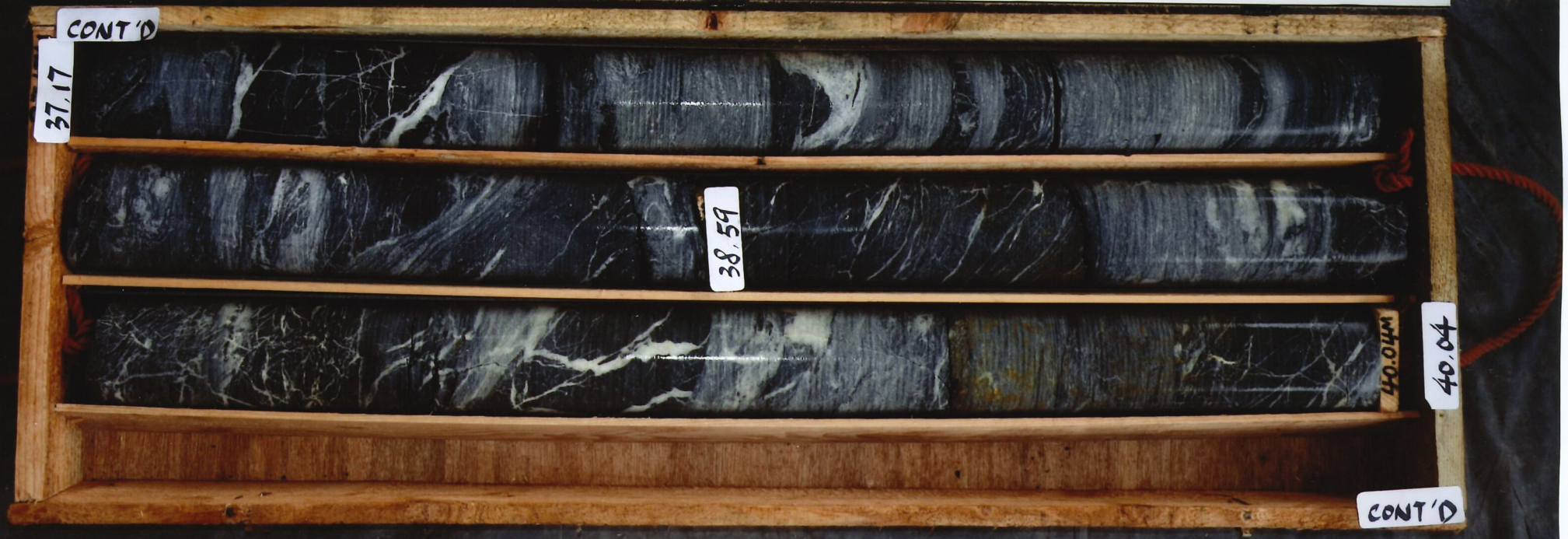
Box No.: 8 of 14

Depth : 37.17 m to 40.04 m

Date of Photograph : 22-02-2017



0.00m 1.00m



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VIBRO 惠保(香港)有限公司
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新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No : GE/2015/29.8

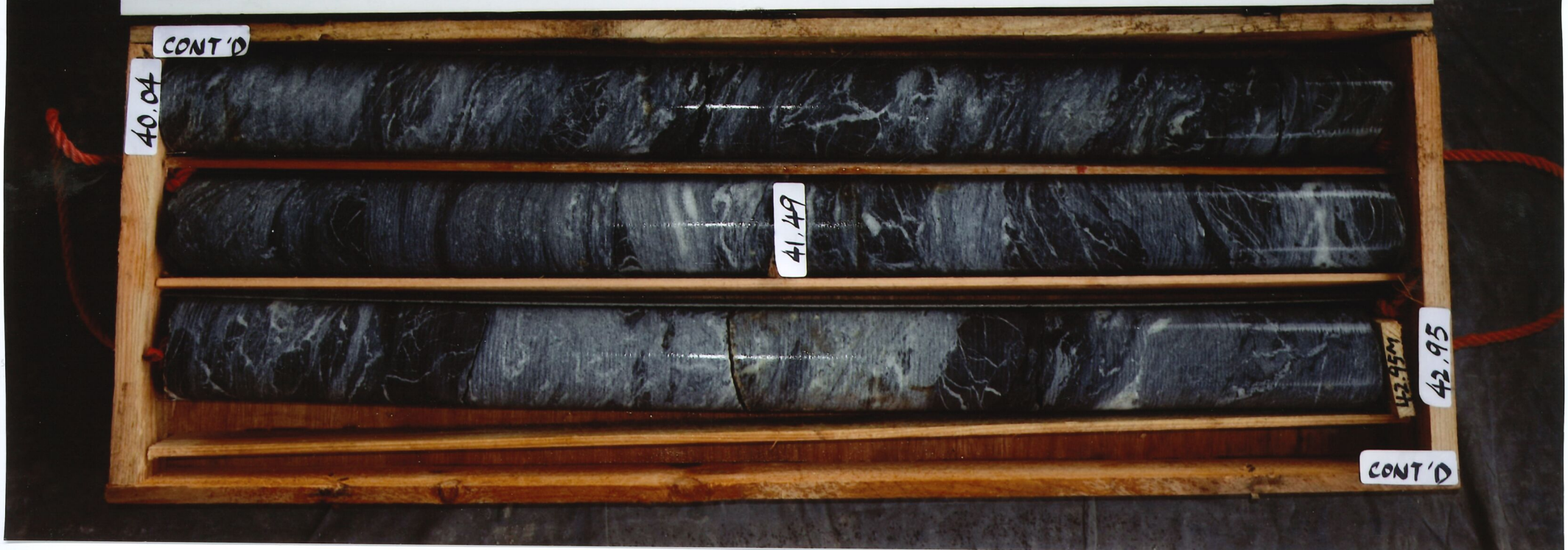
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH02

Box No.: 9 of 14

Depth : 40.04 m to 42.95 m

Date of Photograph : 22-02-2017

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VIBRO
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新創建集團成員 Member of NWS Holdings
Contract No.: GE/2015/29
Contract Title : Ground Investigation - New Territories West
Task Order No : GE/2015/29.8
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC
Hole No.: ADH02
Box No.: 10 of 14
Depth : 42.95 m to 45.76 m
Date of Photograph : 22-02-2017
Kodak Color Control Patches
Blue Cyan Green Yellow Red Magenta White 3/Color Black
0.00m
1.00m
CONT'D
42.95
44.34
45.76
CONT'D

GEOTECHNICAL ENGINEERING OFFICE
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VIBRO 惠保(香港)有限公司
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新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No. : GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH02

Box No.: 11 of 14

Depth : 45.76 m to 48.64 m

Date of Photograph : 22-02-2017

0.00m 1.00m


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VIBRO
惠保(香港)有限公司
VIBRO (H.K.) LIMITED
新創建集團成員 Member of NWS Holdings
Contract No.: GE/2015/29
Contract Title : Ground Investigation - New Territories West
Task Order No.: GE/2015/29.8
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC
Hole No.: ADH02
Box No.: 12 of 14
Depth : 48.64 m to (51.39) m
Date of Photograph : 22-02-2017
Kodak Color Control Patches
Blue Cyan Green Yellow Red Magenta White 3/Color Black
0.00m
1.00m
CONT'D
48.64
50.06
51.05
(51.39)
CONT'D

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CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO 惠保(香港)有限公司
VIBRO (H.K.) LIMITED
新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No : GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH02

Box No.: 13 of 14

Depth : (51.39) m to 53.67 m

Date of Photograph : 22-02-2017

0.00m 1.00m


GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
CEDD
VIBRO
惠保(香港)有限公司
VIBRO (H.K.) LIMITED
新創建集團成員 Member of NWS Holdings
Contract No.: GE/2015/29
Contract Title : Ground Investigation - New Territories West
Task Order No : GE/2015/29.8
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC
Hole No.: ADH02
Box No.: 14 of 14
Depth : 53.67 m to 55.81 m
Date of Photograph : 22-02-2017
Kodak Color Control Patches
Blue Cyan Green Yellow Red Magenta White 3/Color Black
0.00m
1.00m
CONT'D
53.67
55.09
55.81
END


GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
VIBRO
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VIBRO (H.K.) LIMITED
新創建集團成員 Member of NWS Holdings
Contract No.: GE/2015/29
Contract Title : Ground Investigation - New Territories West
Task Order No.: GE/2015/29.8
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC
Hole No.: ADH03
Box No.: 1 of 19
Depth : 0.00 m to 21.50 m
Date of Photograph : 18-01-2017
Kodak Color Control Patches
Blue Cyan Green Yellow Red Magenta White 3/Color Black
0.00m
1.00m
(A)
(2)
(36)
0.00
0.10
21.50
CONT'D


GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
VIBRO
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VIBRO (H.K.) LIMITED
新創建集團成員 Member of NWS Holdings
Contract No.: GE/2015/29
Contract Title : Ground Investigation - New Territories West
Task Order No.: GE/2015/29.8
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC
Hole No.: ADH03
Box No.: 2 of 19
Depth : 21.50 m to 28.20 m
Date of Photograph : 18-01-2017
Kodak Color Control Patches
Blue Cyan Green Yellow Red Magenta White 3/Color Black
0.00m
1.00m
CONT'D
21.50
(37)
24.10
(44)
28.20
22.50
25.30
CONT'D

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VIBRO 惠保(香港)有限公司
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Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No.: GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH03

Box No.: 3 of 19

Depth : 28.20 m to (33.18) m

Date of Photograph : 18-01-2017

0.00m 1.00m

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VIBRO 惠保(香港)有限公司
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Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No.: GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH03

Box No.: 4 of 19

Depth : (33.18) m to 37.50 m

Date of Photograph : 21/03/2017

0.00m 1.00m

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VIBRO 惠保(香港)有限公司
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Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No. GE/2015/29.8

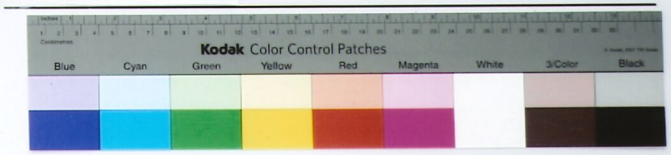
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH03

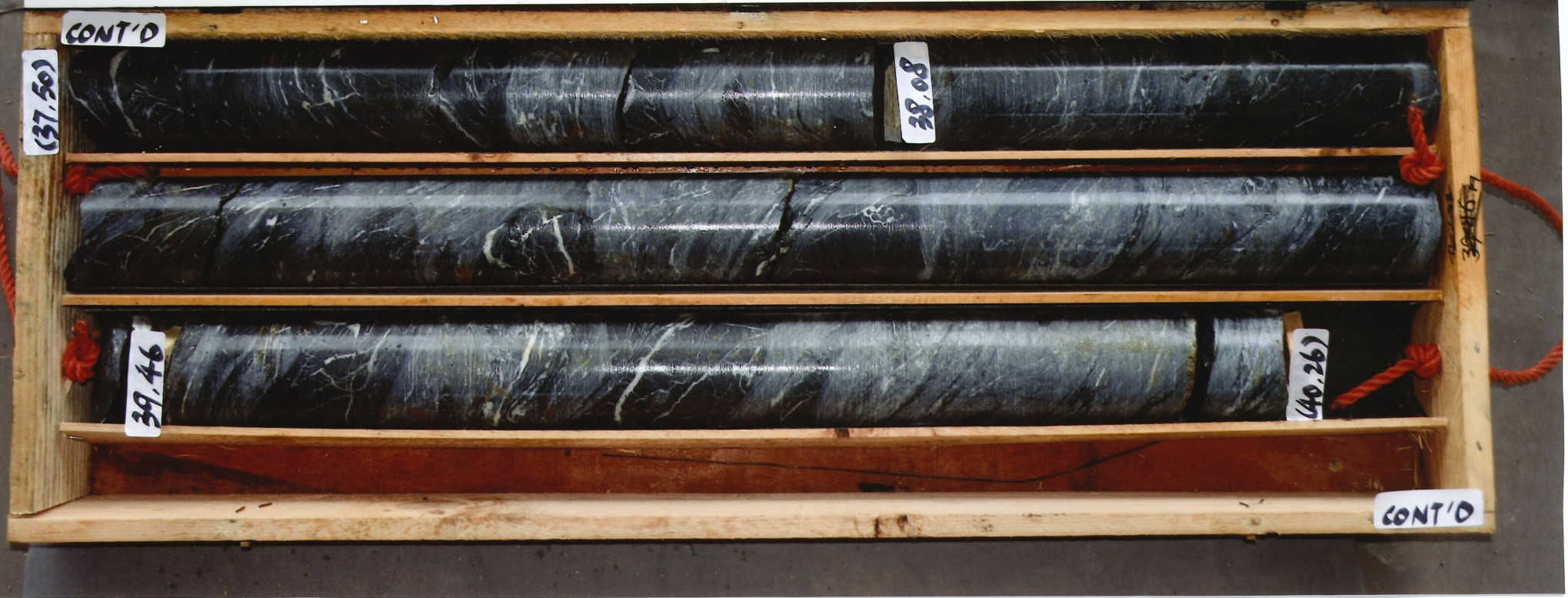
Box No.: 5 of 19

Depth : (37.50) m to (40.26) m

Date of Photograph : 18-01-2017



0.00m 1.00m

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VIBRO (H.K.) LIMITED
新創建集團成員 Member of NWS Holdings
Contract No.: GE/2015/29
Contract Title : Ground Investigation - New Territories West
Task Order No.: GE/2015/29.8
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC
Hole No.: ADH03
Box No.: 6 of 19
Depth : (40.26) m to (42.96) m
Date of Photograph : 18-01-2017
Kodak Color Control Patches
Blue Cyan Green Yellow Red Magenta White 3/Color Black
0.00m
1.00m
CONT'D
(40.26)
40.96
42.48
(42.96)
CONT'D

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Contract Title : Ground Investigation - New Territories West

Task Order No.: GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

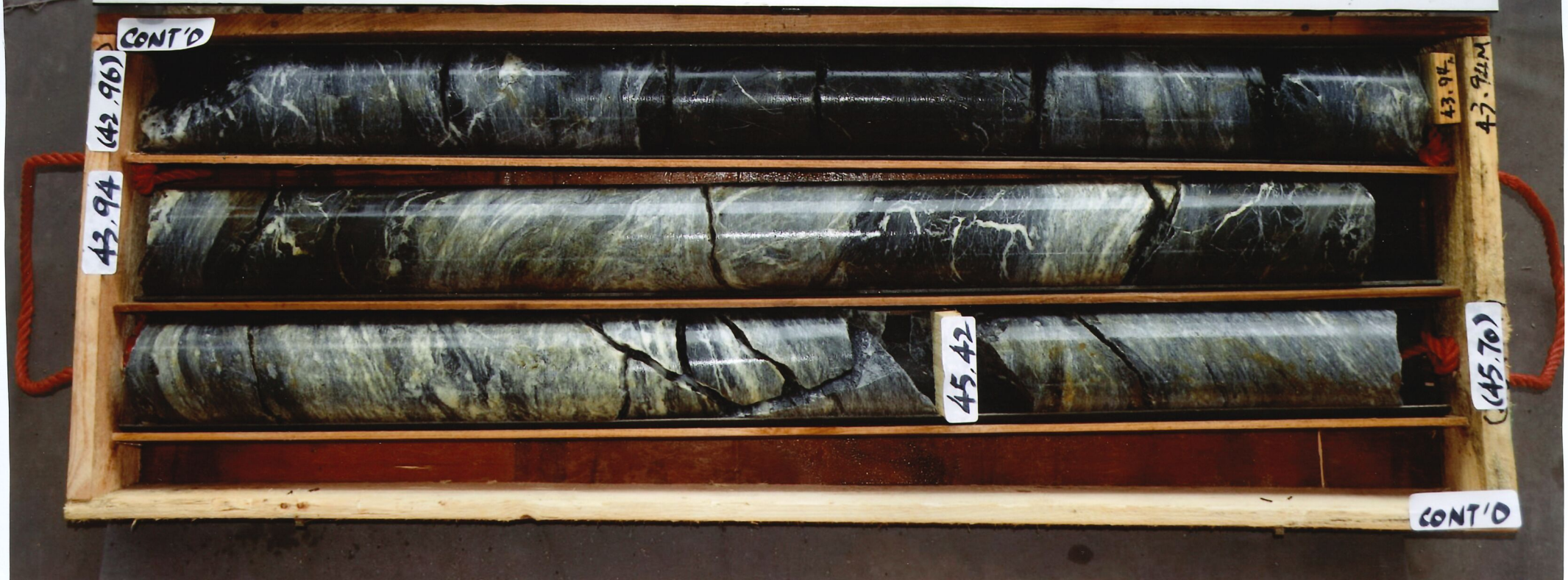
Hole No.: ADH03

Box No.: 7 of 19

Depth : (42.96) m to (45.70) m

Date of Photograph : 18-01-2017

0.00m 1.00m



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Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No. GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long
Town connecting with Long Ping Station - IDC

Hole No.: ADH03

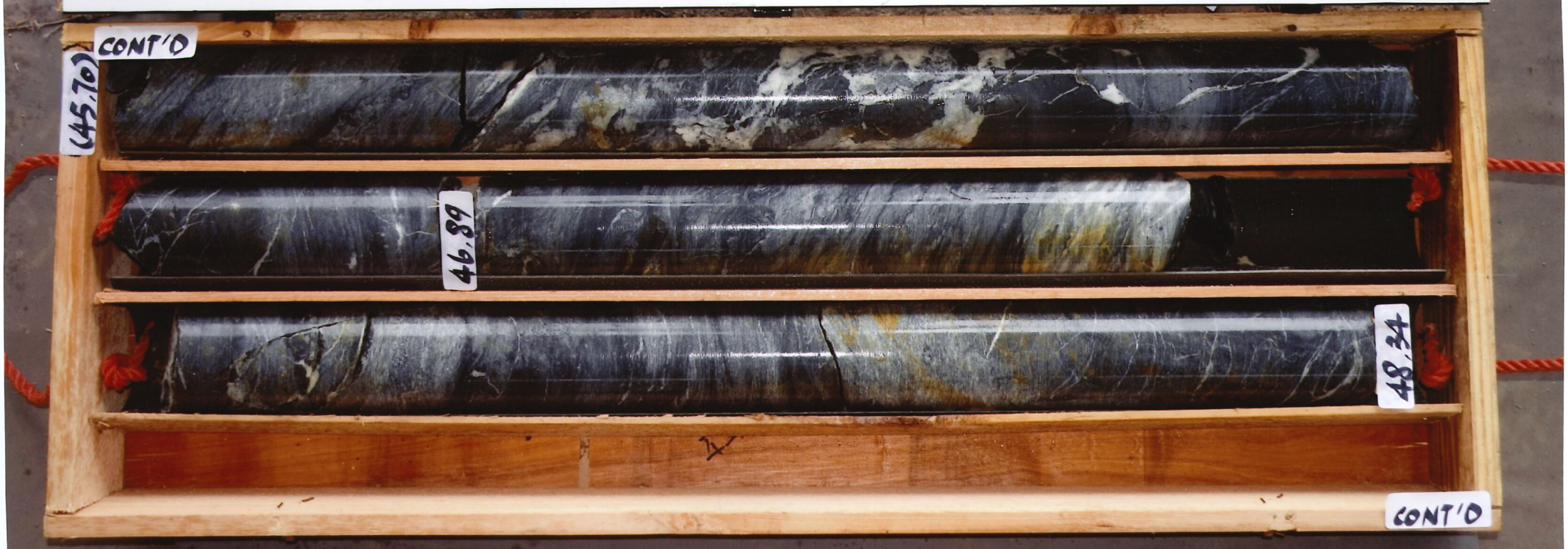
Box No.: 8 of 19

Depth : (45.70) m to 48.34 m

Date of Photograph : 18-01-2017

Kodak Color Control Patches
Blue Cyan Green Yellow Red Magenta White 3/Color Black

0.00m 1.00m



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VIBRO (H.K.) LIMITED
惠保(香港)有限公司
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Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No.: GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

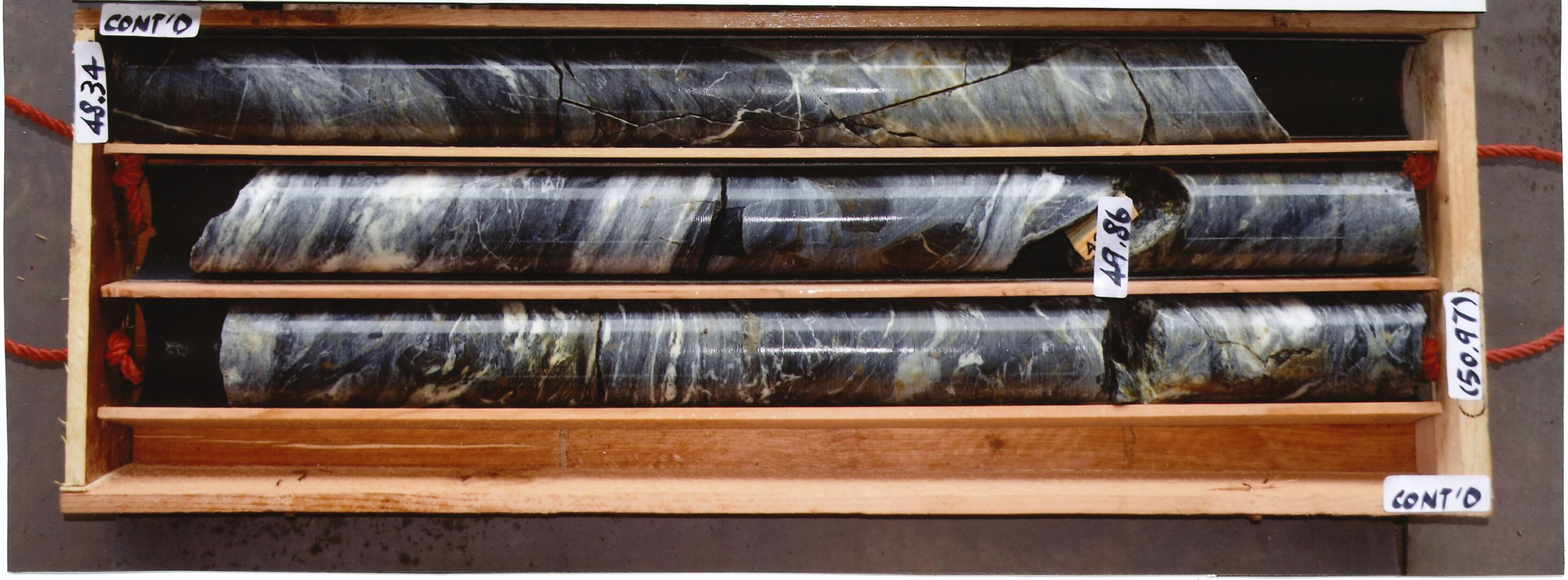
Hole No.: ADH03

Box No.: 9 of 19

Depth : 48.34 m to (50.97) m

Date of Photograph : 18-01-2017

0.00m 1.00m



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VIBRO (H.K.) LIMITED
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Contract No.: GE/2015/29

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Task Order No.: GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH03

Box No.: 10 of 19

Depth : (50.97) m to 53.50 m

Date of Photograph : 18-01-2017

0.00m 1.00m


GEOTECHNICAL ENGINEERING OFFICE
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VIBRO
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VIBRO (H.K.) LIMITED
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Contract No.: GE/2015/29
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Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC
Hole No.: ADH03
Box No.: 11 of 19
Depth : 53.50 m to 56.26 m
Date of Photograph : 18-01-2017
Kodak Color Control Patches
Blue Cyan Green Yellow Red Magenta White 3/Color Black
0.00m
1.00m
CONT'D
53.50
(54)
54.54
55.69
54.40
56.26

GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO
惠保(香港)有限公司
VIBRO (H.K.) LIMITED
新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No.: GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH03

Box No.: 12 of 19

Depth : 56.26 m to (58.98) m

Date of Photograph : 18-01-2017

Kodak Color Control Patches
Blue Cyan Green Yellow Red Magenta White 3/Color Black

0.00m 1.00m

GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO 惠保(香港)有限公司
VIBRO (H.K.) LIMITED
新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No.: GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

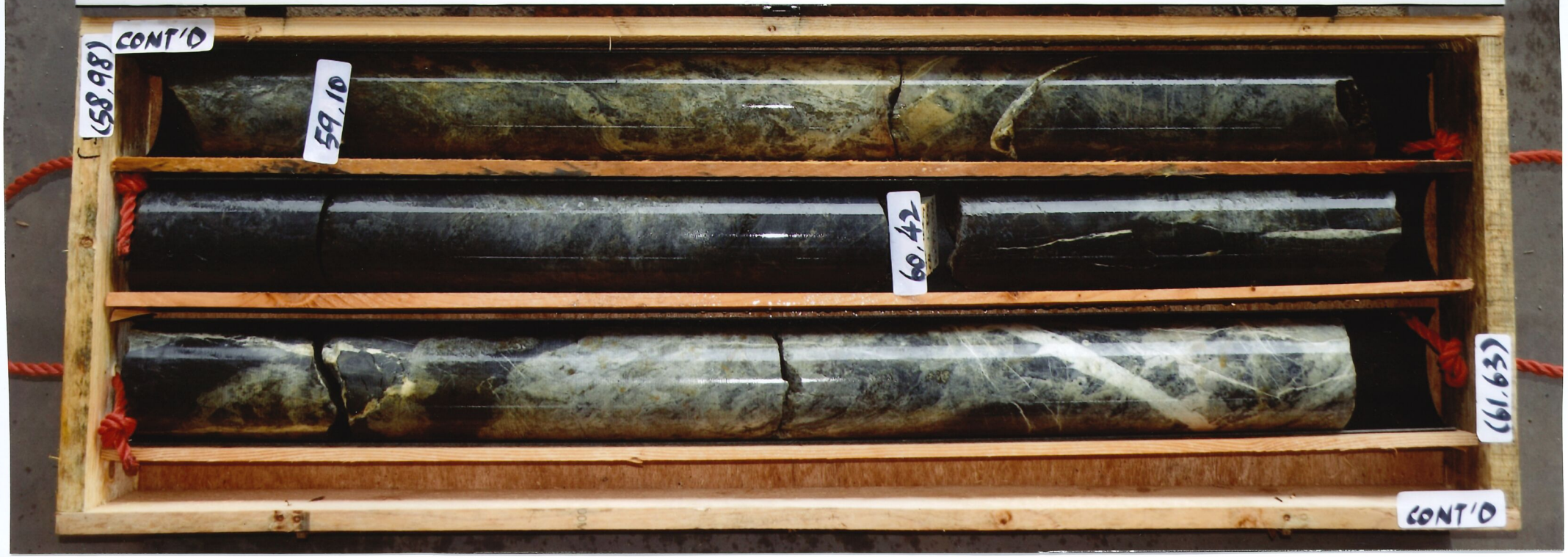
Hole No.: ADH03

Box No.: 13 of 19

Depth : (58.98) m to (61.63) m

Date of Photograph : 18-01-2017

0.00m 1.00m



GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO 惠保(香港)有限公司
VIBRO (H.K.) LIMITED
新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No. GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

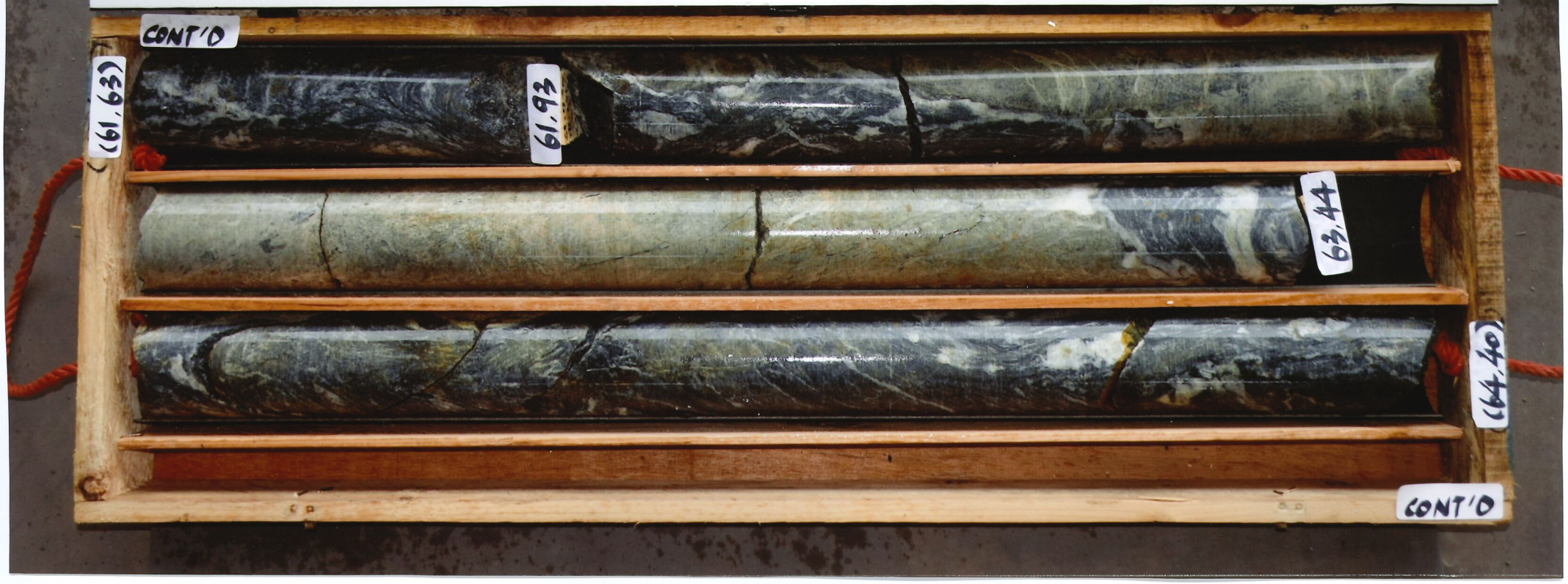
Hole No.: ADH03

Box No.: 14 of 19

Depth : (61.63) m to (64.40) m

Date of Photograph : 18-01-2017

0.00m 1.00m




GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
CEDD
VIBRO
惠保(香港)有限公司
VIBRO (H.K.) LIMITED
新創建集團成員 Member of NWS Holdings
Contract No.: GE/2015/29
Contract Title : Ground Investigation - New Territories West
Task Order No.: GE/2015/29.8
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long
Town connecting with Long Ping Station - IDC
Hole No.: ADH03
Box No.: 15 of 19
Depth : (64.40) m to (66.97) m
Date of Photograph : 18-01-2017
Kodak Color Control Patches
Blue Cyan Green Yellow Red Magenta White 3/Color Black
0.00m
1.00m
CONT'D
(64.40)
64.92
66.45
(66.97)
CONT'D

GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO 惠保(香港)有限公司
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新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No.: GE/2015/29.8

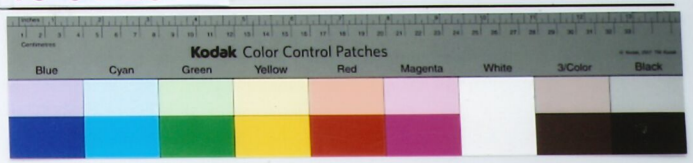
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH03

Box No.: 16 of 19

Depth : (66.97) m to (69.78) m

Date of Photograph : 18-01-2017



0.00m 1.00m

GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO 惠保(香港)有限公司
VIBRO (H.K.) LIMITED
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Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No.: GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

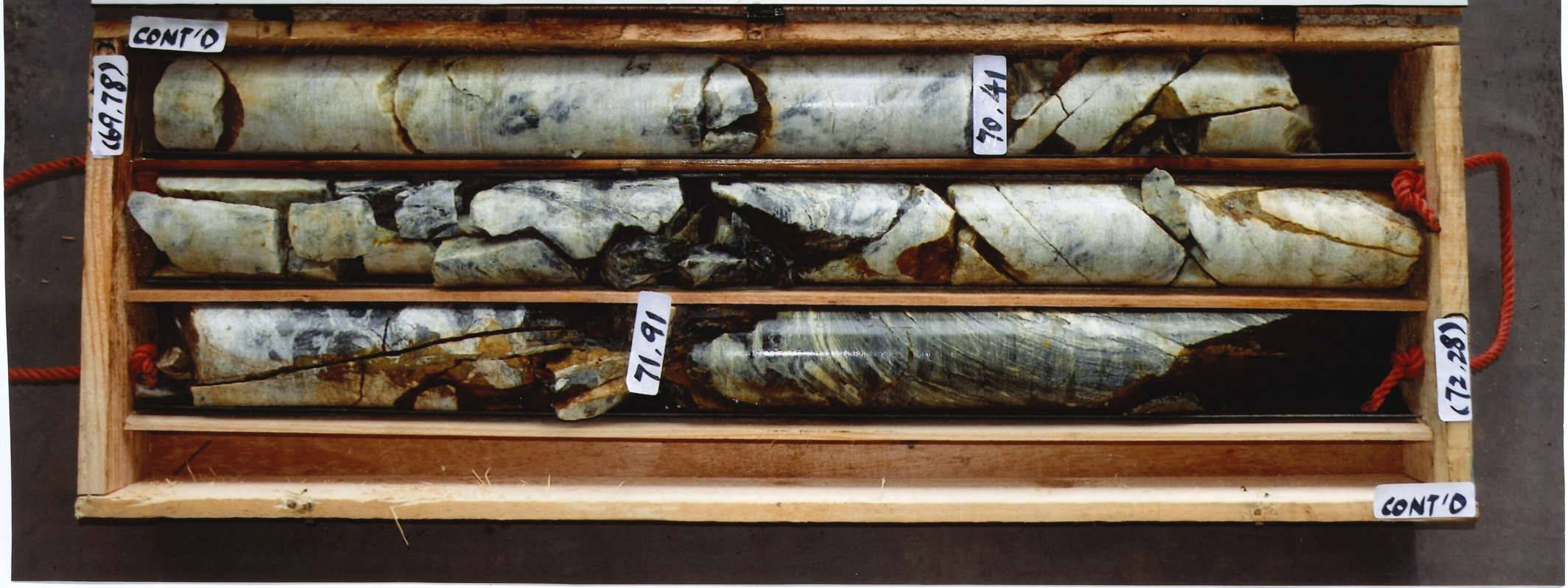
Hole No.: ADH03

Box No.: 17 of 19

Depth : (69.78) m to (72.28) m

Date of Photograph : 18-01-2017

0.00m 1.00m



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CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO (H.K.) LIMITED
惠保(香港)有限公司
新創建集團成員 Member of NWS Holdings

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Contract Title : Ground Investigation - New Territories West

Task Order No.: GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH03

Box No.: 18 of 19

Depth : (72.28) m to 74.88 m

Date of Photograph : 18-01-2017

0.00m 1.00m


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VIBRO
惠保(香港)有限公司
VIBRO (H.K.) LIMITED
新創建集團成員 Member of NWS Holdings
Contract No.: GE/2015/29
Contract Title : Ground Investigation - New Territories West
Task Order No. GE/2015/29.8
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long
Town connecting with Long Ping Station - IDC
Hole No.: ADH03
Box No.: 19 of 19
Depth : 74.88 m to 76.40 m
Date of Photograph : 18-01-2017
Kodak Color Control Patches
Blue Cyan Green Yellow Red Magenta White 3/Color Black
0.00m
1.00m
CONT'D
74.88
76.40
END

GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO 惠保(香港)有限公司
VIBRO (H.K.) LIMITED
新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No : GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH04

Box No.: 1 of 17

Depth : 0.00 m to 20.20 m

Date of Photograph : 22-02-2017

0.00m 1.00m

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VIBRO 惠保(香港)有限公司
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新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No.: GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH04

Box No.: 2 of 17

Depth : 20.20 m to (25.33) m

Date of Photograph : 22-02-2017

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VIBRO 惠保(香港)有限公司
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Contract No.: GE/2015/29

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Task Order No.: GE/2015/29.8

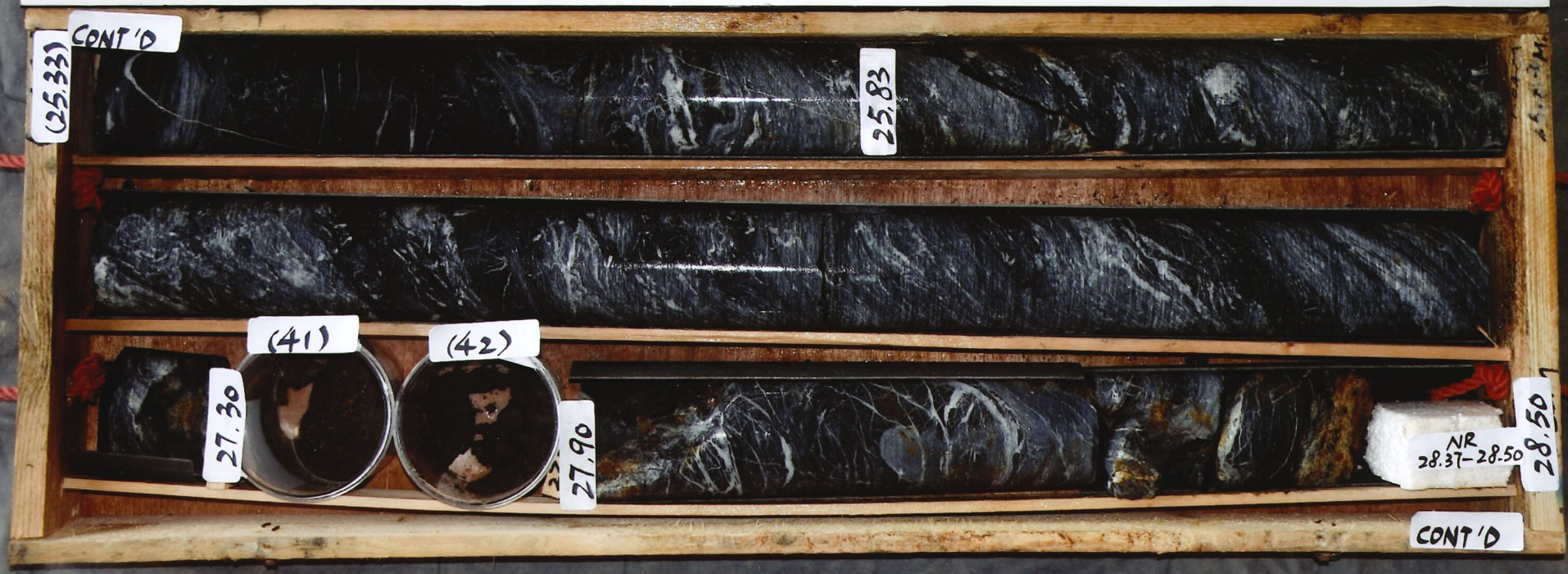
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long
Town connecting with Long Ping Station - IDC

Hole No.: ADH04

Box No.: 3 of 17

Depth : (25.33) m to 28.50 m

Date of Photograph : 22-02-2017



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VIBRO 惠保(香港)有限公司
VIBRO (H.K.) LIMITED
新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No : GE/2015/29.8

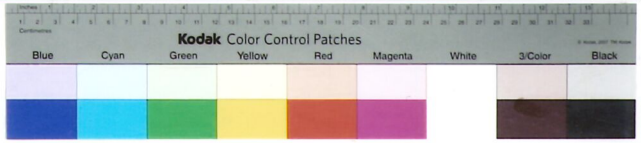
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH04

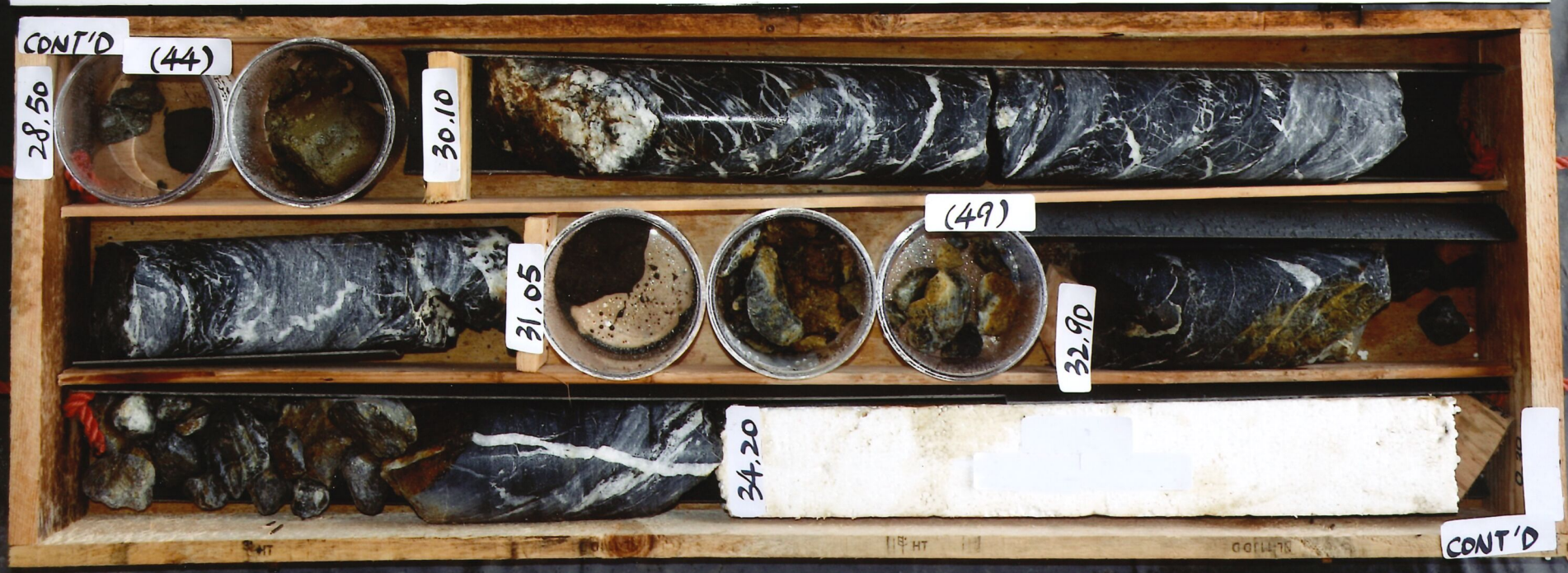
Box No.: 4 of 17

Depth : 28.50 m to 34.20 m

Date of Photograph : 22-02-2017



0.00m 1.00m



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VIBRO 惠保(香港)有限公司
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新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No.: GE/2015/29.8

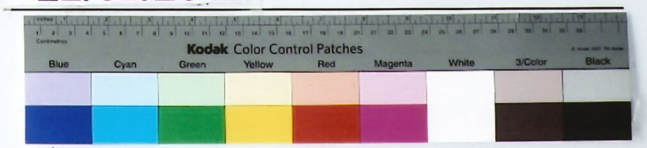
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH04

Box No.: 5 of 17

Depth : 34.20 m to (37.00) m

Date of Photograph : 22/02/2017



0.00m 1.00m

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VIBRO 惠保(香港)有限公司
VIBRO (H.K.) LIMITED
新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No : GE/2015/29.8

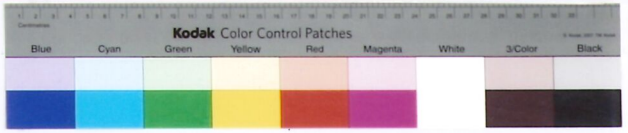
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long
Town connecting with Long Ping Station - IDC

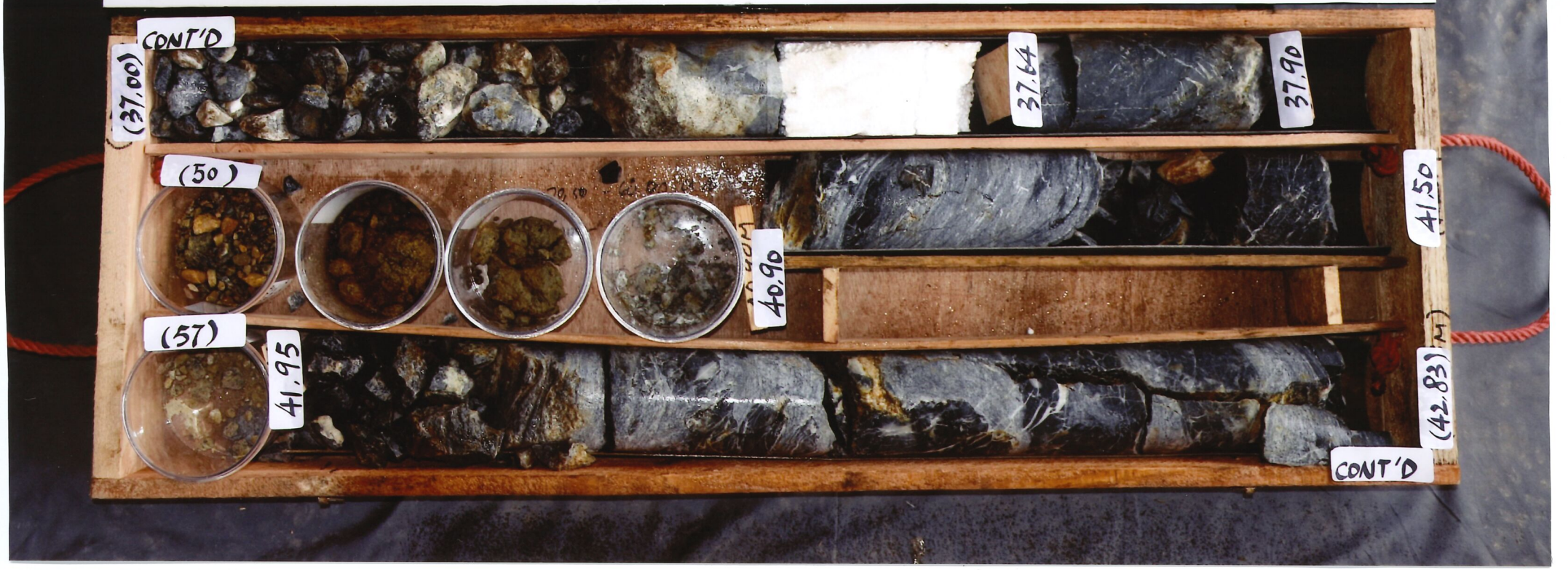
Hole No.: ADH04

Box No.: 6 of 17

Depth : (37.00) m to (42.83) m

Date of Photograph : 22-02-2017





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惠保(香港)有限公司
VIBRO (H.K.) LIMITED
新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No. GE/2015/29.8

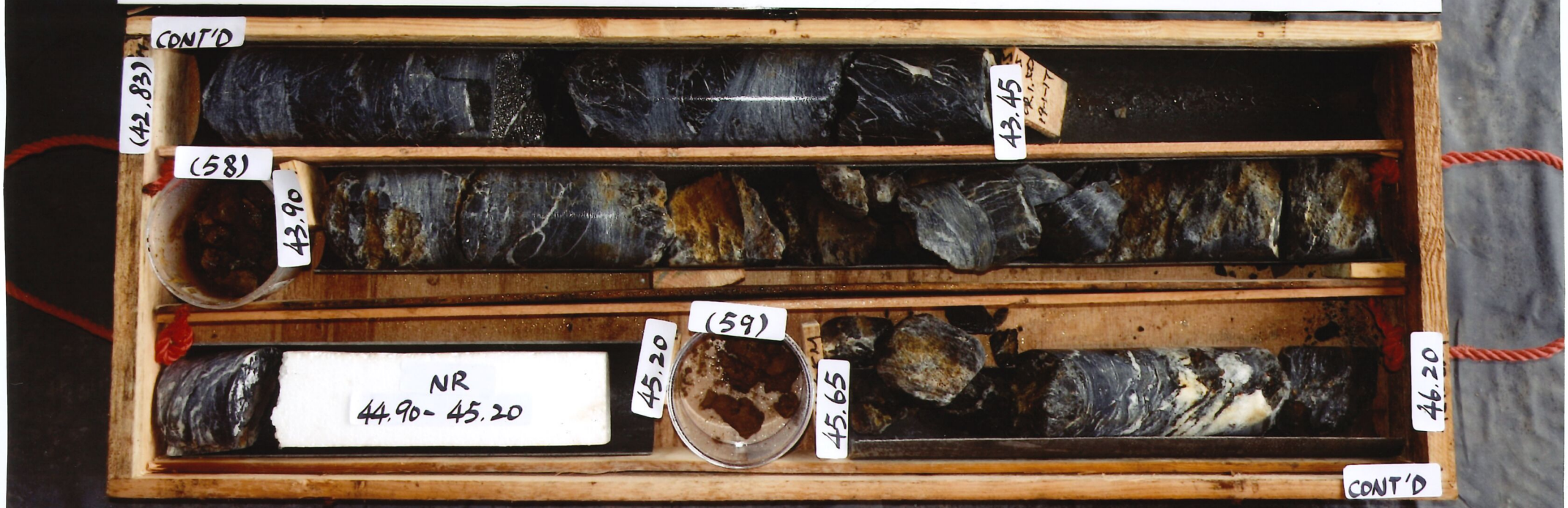
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH04

Box No.: 7 of 17

Depth : (42.83) m to 46.20 m

Date of Photograph : 22-02-2017



GEOTECHNICAL ENGINEERING OFFICE
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VIBRO 惠保(香港)有限公司
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Contract Title : Ground Investigation - New Territories West

Task Order No : GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

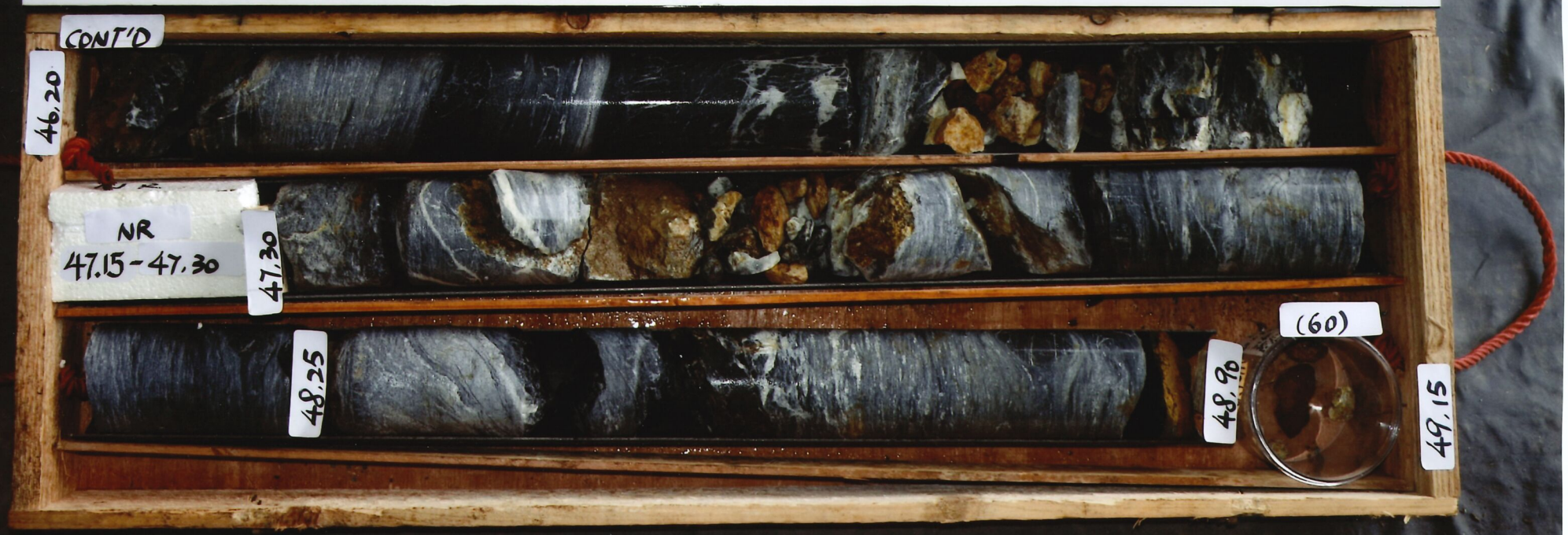
Hole No.: ADH04

Box No.: 8 of 17

Depth : 46.20 m to 49.15 m

Date of Photograph : 22-02-2017

0.00m 1.00m



GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO 惠保(香港)有限公司
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新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No.: GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH04

Box No.: 9 of 17

Depth : 49.15 m to 54.05 m

Date of Photograph : 22/02/2017

0.00m 1.00m

GEOTECHNICAL ENGINEERING OFFICE
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Task Order No : GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH04

Box No.: 10 of 17

Depth : 54.05 m to 57.00 m

Date of Photograph : 22-02-2017

0.00m 1.00m

GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

惠保(香港)有限公司
VIBRO (H.K.) LIMITED
新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No. GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH04

Box No.: 11 of 17

Depth : 57.00 m to (60.65) m

Date of Photograph : 22-02-2017

0.00m 1.00m

GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO 惠保(香港)有限公司
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Task Order No.: GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH04

Box No.: 12 of 17

Depth : (60.65) m to (63.26) m

Date of Photograph : 22-02-2017

0.00m 1.00m

GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO (H.K.) LIMITED
惠保(香港)有限公司
新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No. : GE/2015/29.8

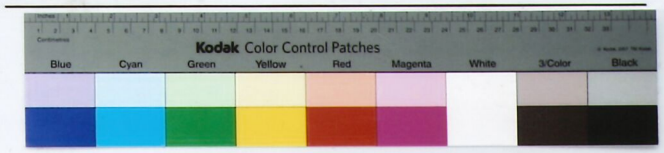
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH04

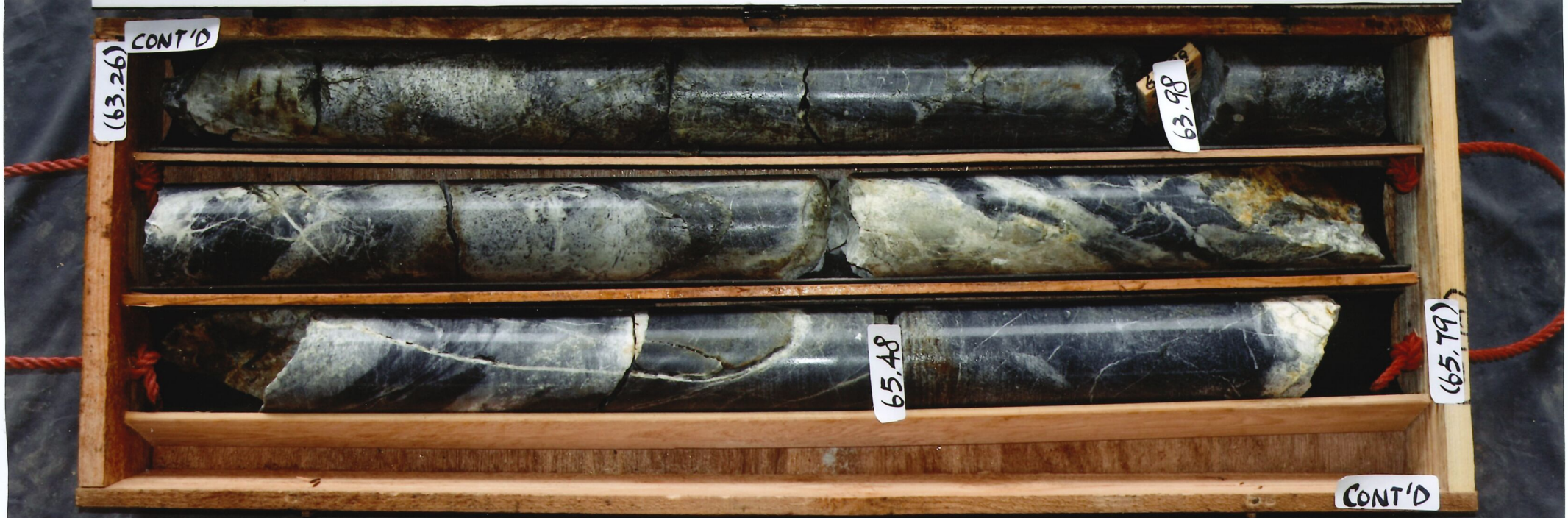
Box No.: 13 of 17

Depth : (63.26) m to (65.79) m

Date of Photograph : 22-02-2017



0.00m 1.00m



GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO 惠保(香港)有限公司
VIBRO (H.K.) LIMITED
新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No.: GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

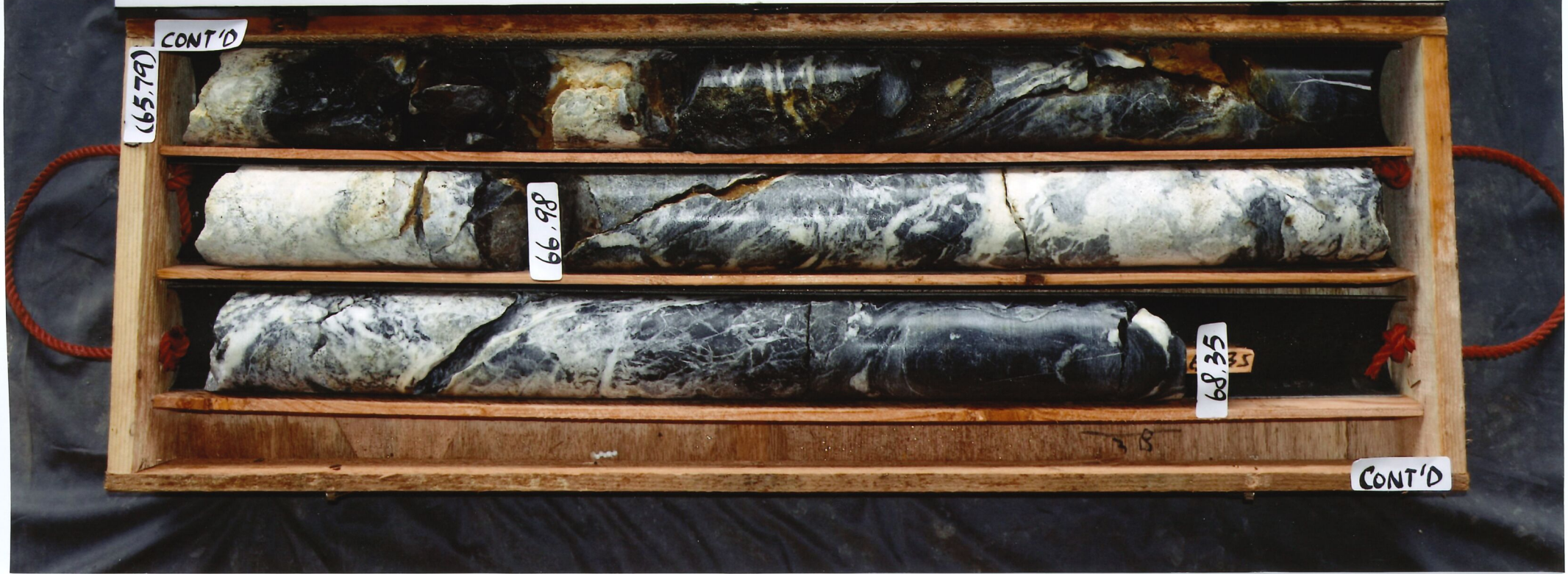
Hole No.: ADH04

Box No.: 14 of 17

Depth : (65.79) m to 68.35 m

Date of Photograph : 22-02-2017

0.00m 1.00m



GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO (H.K.) LIMITED
惠保(香港)有限公司
新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No. : GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH04

Box No.: 15 of 17

Depth : 68.35 m to 71.30 m

Date of Photograph : 22-02-2017

GEOTECHNICAL ENGINEERING OFFICE
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Task Order No. GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

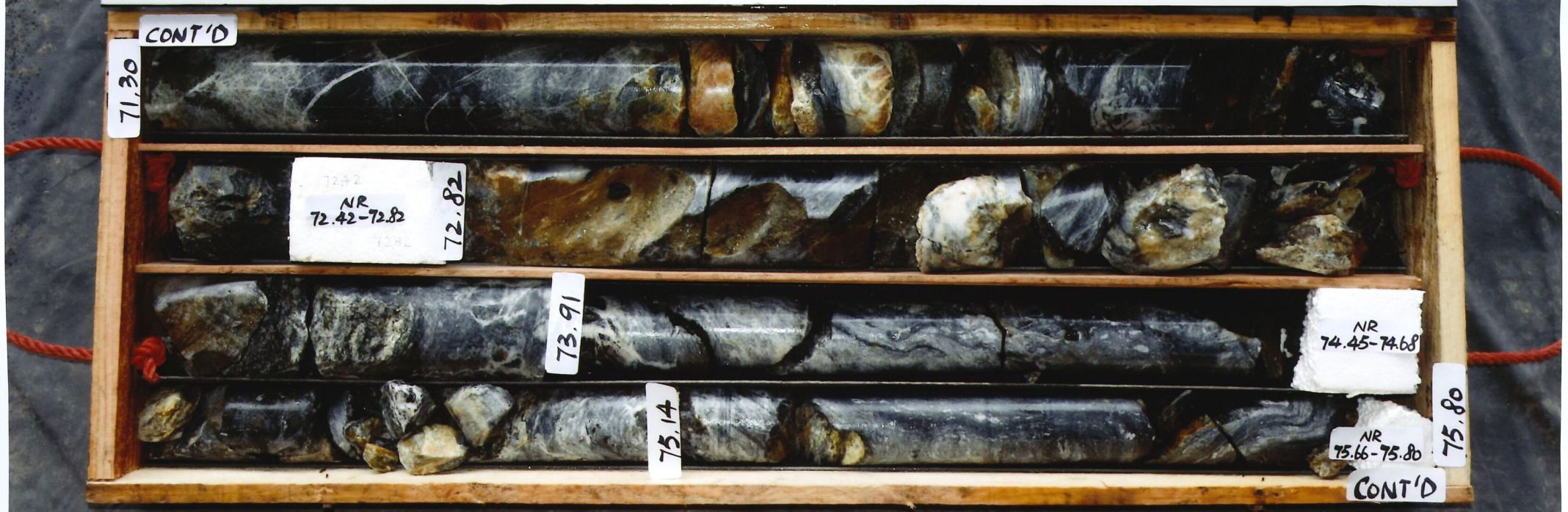
Hole No.: ADH04

Box No.: 16 of 17

Depth : 71.30 m to 75.80 m

Date of Photograph : 22-02-2017

0.00m 1.00m



GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO 惠保(香港)有限公司
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Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No.: GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH04

Box No.: 17 of 17

Depth : 75.80 m to 90.00 m

Date of Photograph : 22-02-2017

0.00m 1.00m

GEOTECHNICAL ENGINEERING OFFICE
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VIBRO 惠保(香港)有限公司
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Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No : GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

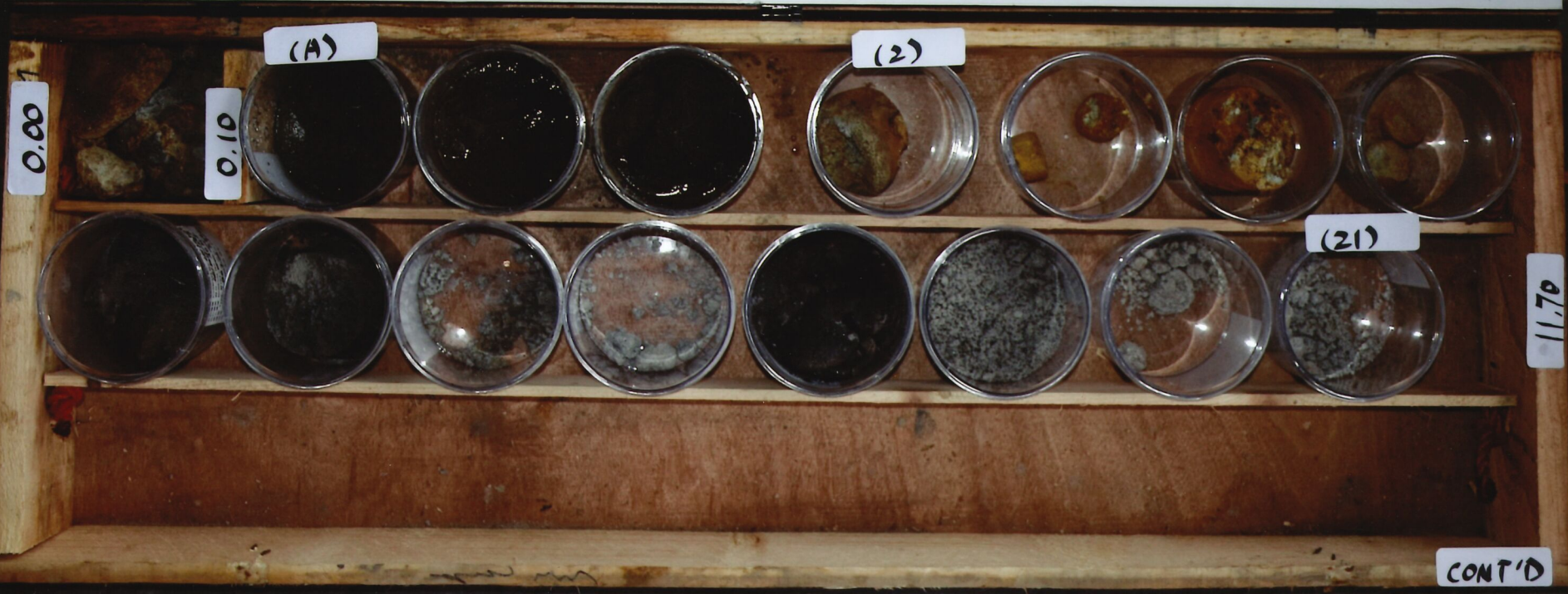
Hole No.: ADH05

Box No.: 1 of 11

Depth : 0.00 m to 11.70 m

Date of Photograph : 22-02-2017

0.00m 1.00m



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VIBRO 惠保(香港)有限公司
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Contract Title : Ground Investigation - New Territories West

Task Order No. : GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH05

Box No.: 2 of 11

Depth : 11.70 m to 27.30 m

Date of Photograph : 22-02-2017

0.00m 1.00m

GEOTECHNICAL ENGINEERING OFFICE
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Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH05

Box No.: 3 of 11

Depth : 27.30 m to 43.50 m

Date of Photograph : 22-02-2017

GEOTECHNICAL ENGINEERING OFFICE
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Task Order No : GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH05

Box No.: 4 of 11

Depth : 43.50 m to 56.35 m

Date of Photograph : 22-02-2017

0.00m 1.00m

GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO 惠保(香港)有限公司
VIBRO (H.K.) LIMITED
新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No : GE/2015/29.8

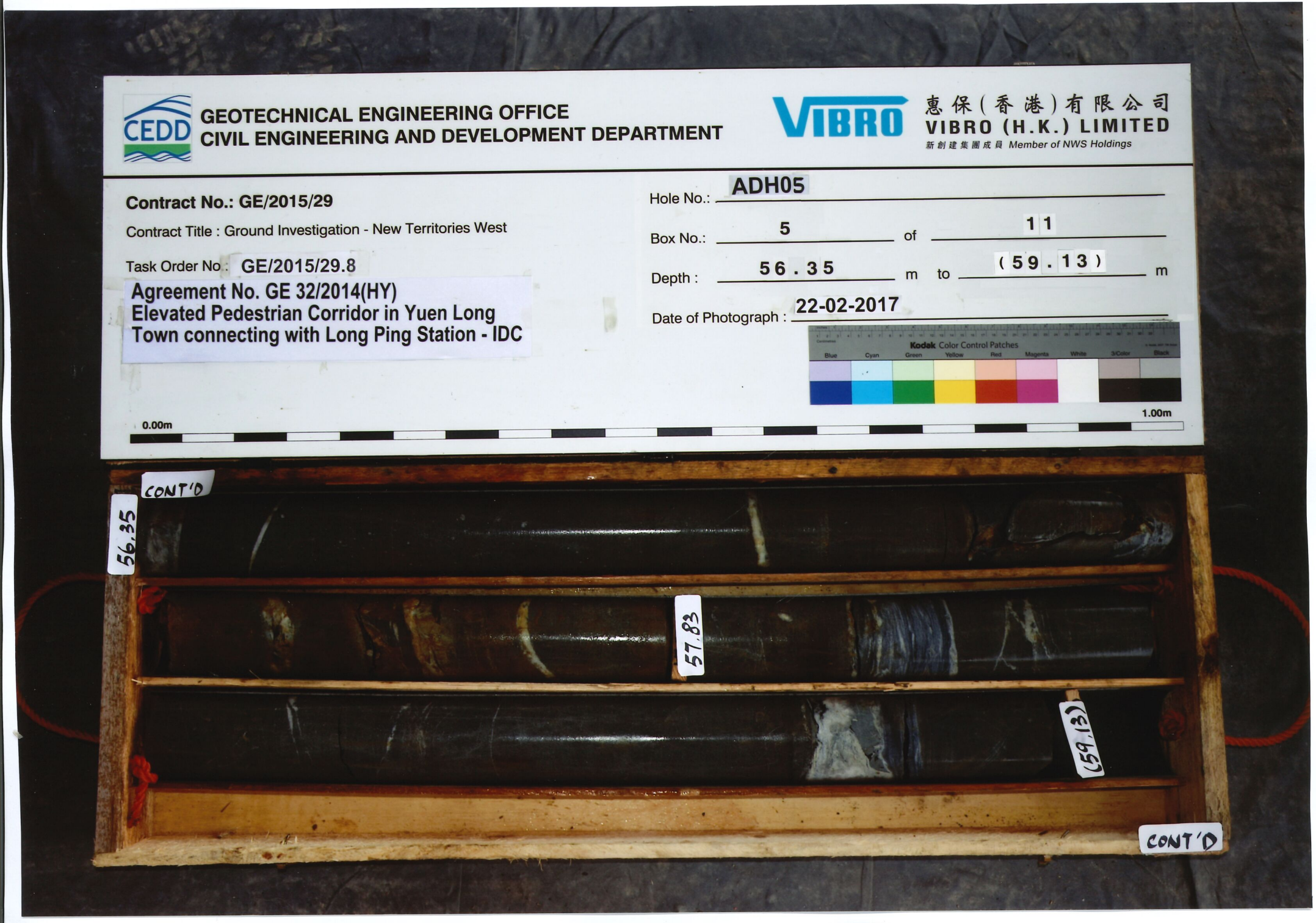
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH05

Box No.: 5 of 11

Depth : 56.35 m to (59.13) m

Date of Photograph : 22-02-2017



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VIBRO 惠保(香港)有限公司
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Task Order No : GE/2015/29.8

**Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC**

Hole No.: ADH05

Box No.: 6 of 11

Depth : (59.13) m to (61.76) m

Date of Photograph : 22-02-2017

GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO 惠保(香港)有限公司
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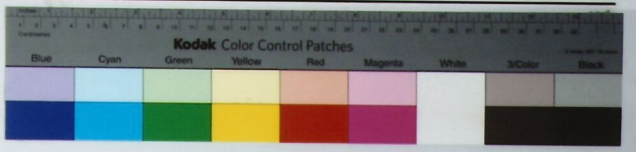
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH05

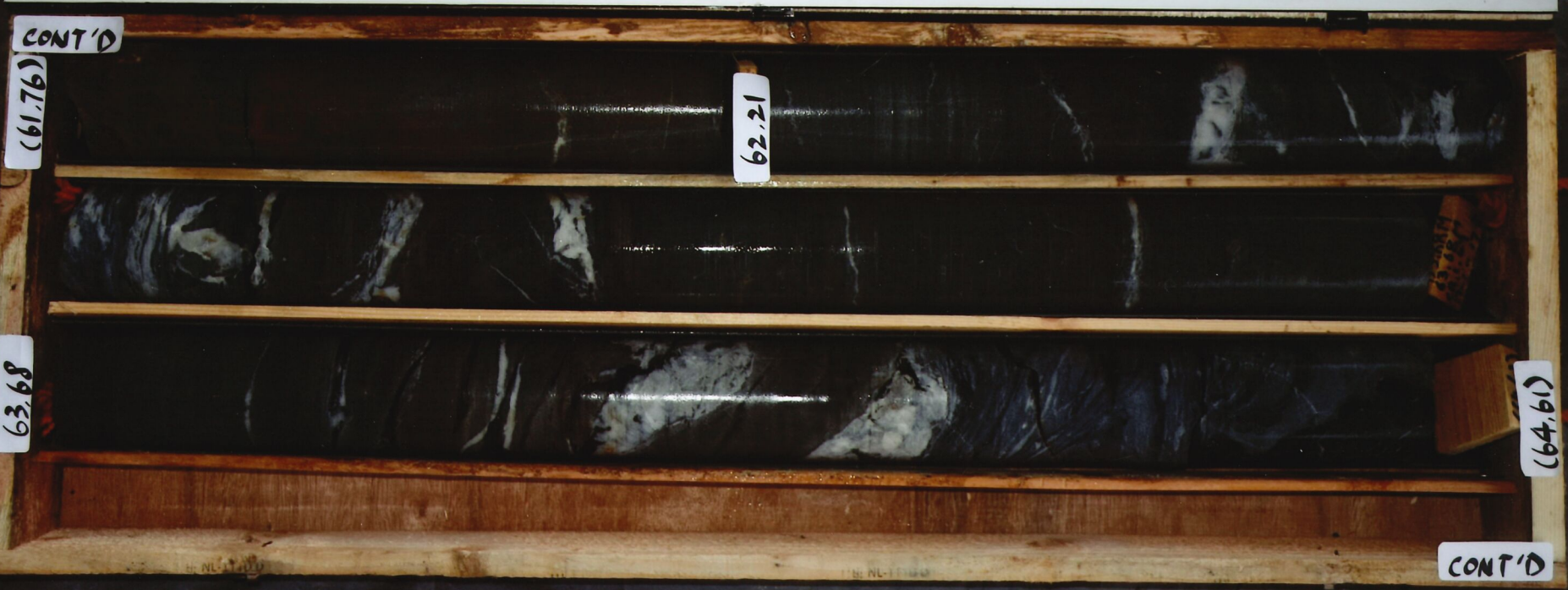
Box No.: 7 of 11

Depth : (61.76) m to (64.61) m

Date of Photograph : 22-02-2017



0.00m 1.00m



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VIBRO 惠保(香港)有限公司
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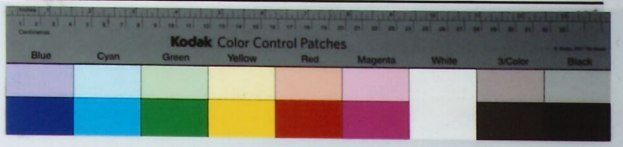
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH05

Box No.: 8 of 11

Depth : (64.61) m to (67.30) m

Date of Photograph : 22-02-2017

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VIBRO
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Contract No.: GE/2015/29
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Task Order No : GE/2015/29.8
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC
Hole No.: ADH05
Box No.: 9 of 11
Depth : (67.30) m to (69.99) m
Date of Photograph : 22-02-2017
Kodak Color Control Patches
Blue Cyan Green Yellow Red Magenta White 3/Color Black
0.00m
1.00m
CONT'D
(67.30)
68.13
69.62
(69.99)
CONT'D

GEOTECHNICAL ENGINEERING OFFICE
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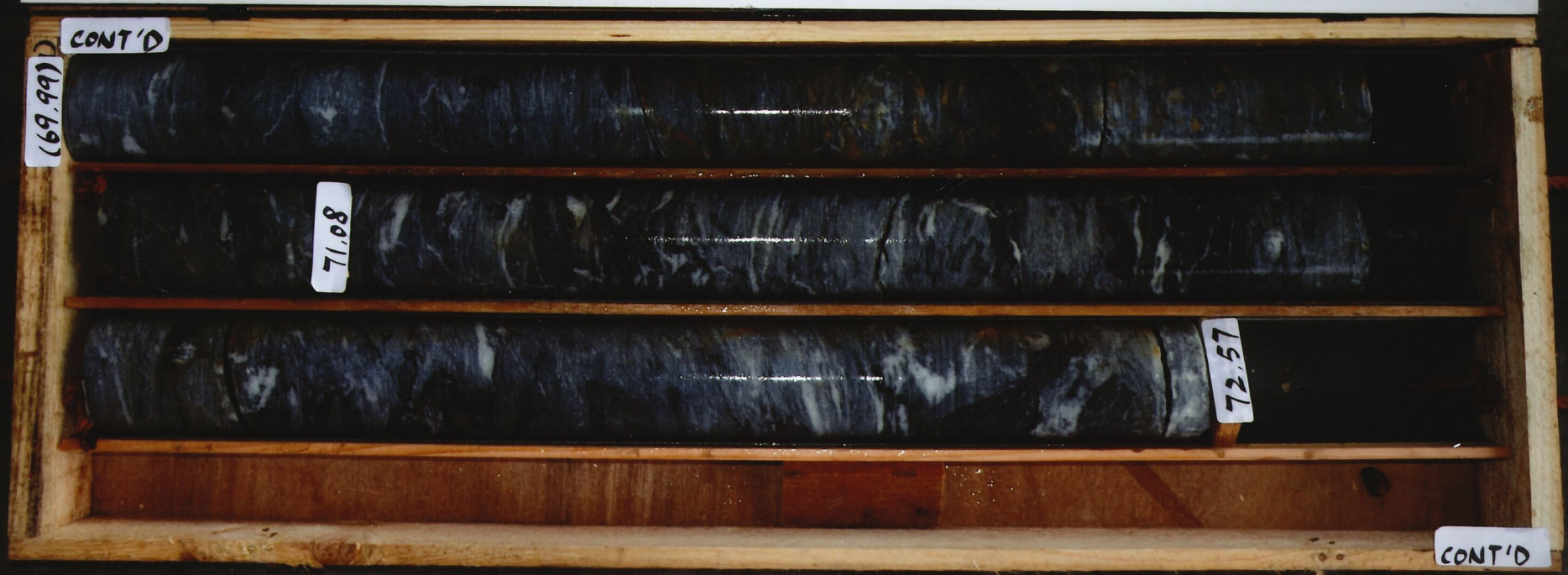
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH05

Box No.: 10 of 11

Depth : (69.99) m to 72.57 m

Date of Photograph : 22-02-2017



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Task Order No : GE/2015/29.8

**Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC**

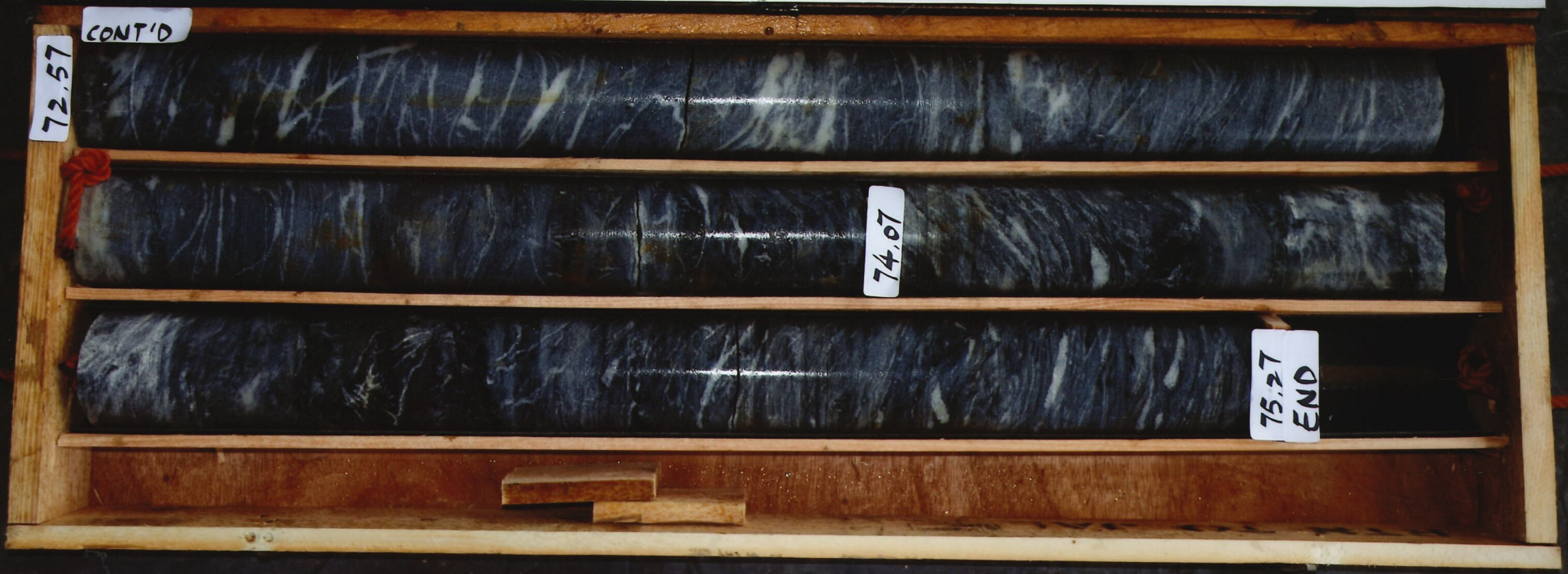
Hole No.: ADH05

Box No.: 11 of 11

Depth : 72.57 m to 75.27 m

Date of Photograph : 22-02-2017

0.00m 1.00m



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Task Order No.: GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH06

Box No.: 1 of 12

Depth : 0.00 m to 10.90 m

Date of Photograph : 22-02-2017

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Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH06

Box No.: 2 of 12

Depth : 10.90 m to 25.60 m

Date of Photograph : 22-02-2017

0.00m

1.00m

GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO (H.K.) LIMITED
惠保(香港)有限公司
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Task Order No. GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH06

Box No.: 3 of 12

Depth : 25.60 m to 41.95 m

Date of Photograph : 22-02-2017

0.00m 1.00m

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Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH06

Box No.: 4 of 12

Depth : 41.95 m to 58.60 m

Date of Photograph : 22-02-2017

0.00m 1.00m

GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO (H.K.) LIMITED
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Contract Title : Ground Investigation - New Territories West

Task Order No : GE/2015/29.8

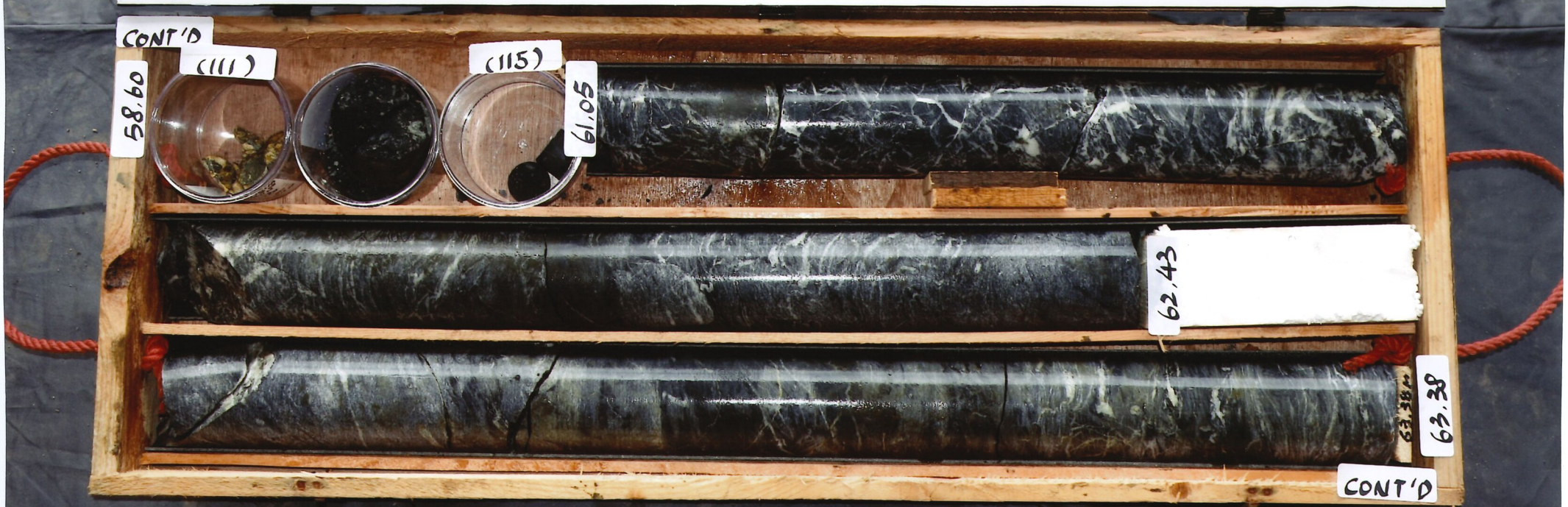
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH06

Box No.: 5 of 12

Depth : 58.60 m to 63.38 m

Date of Photograph : 22-02-2017



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VIBRO (H.K.) LIMITED
惠保(香港)有限公司
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Task Order No. : GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

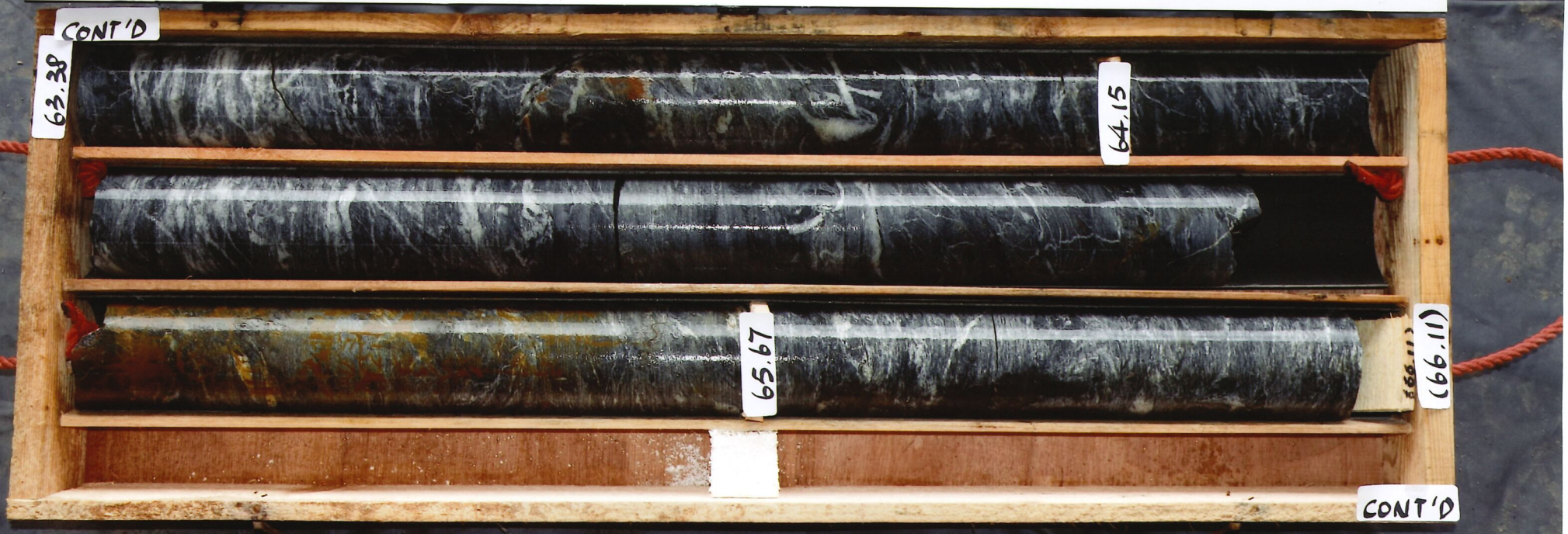
Hole No.: ADH06

Box No.: 6 of 12

Depth : 63.38 m to (66.11) m

Date of Photograph : 22-02-2017

0.00m 1.00m



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Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

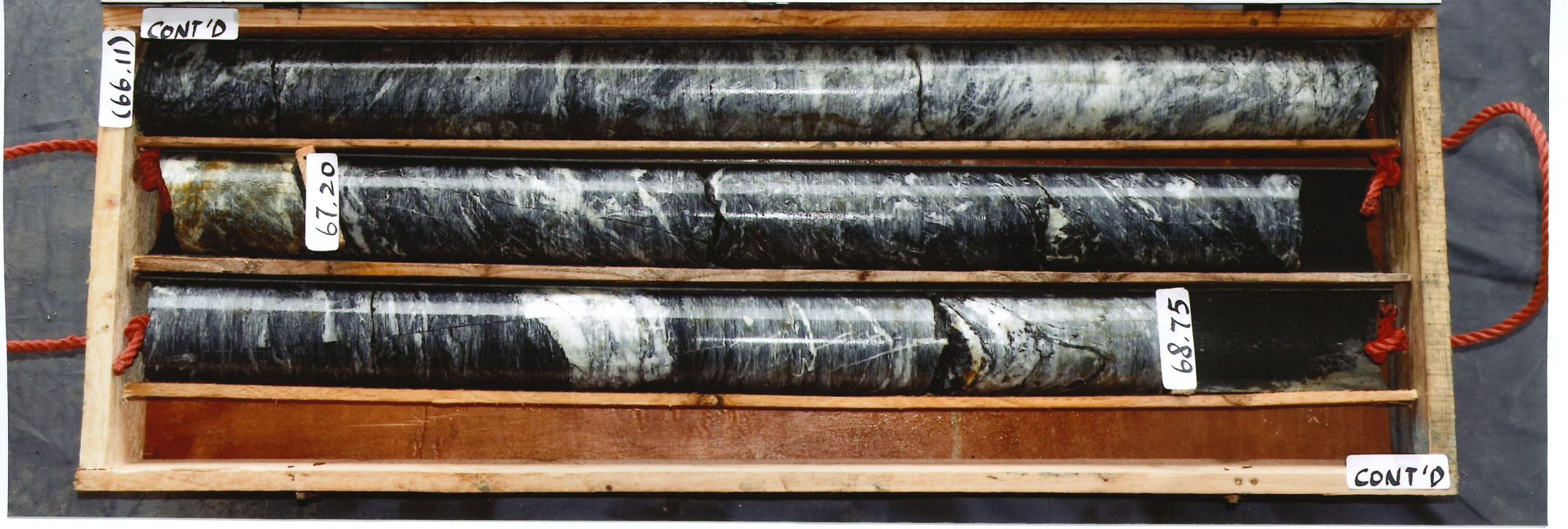
Hole No.: ADH06

Box No.: 7 of 12

Depth : (66.11) m to 68.75 m

Date of Photograph : 22-02-2017

0.00m 1.00m



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VIBRO (H.K.) LIMITED
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Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

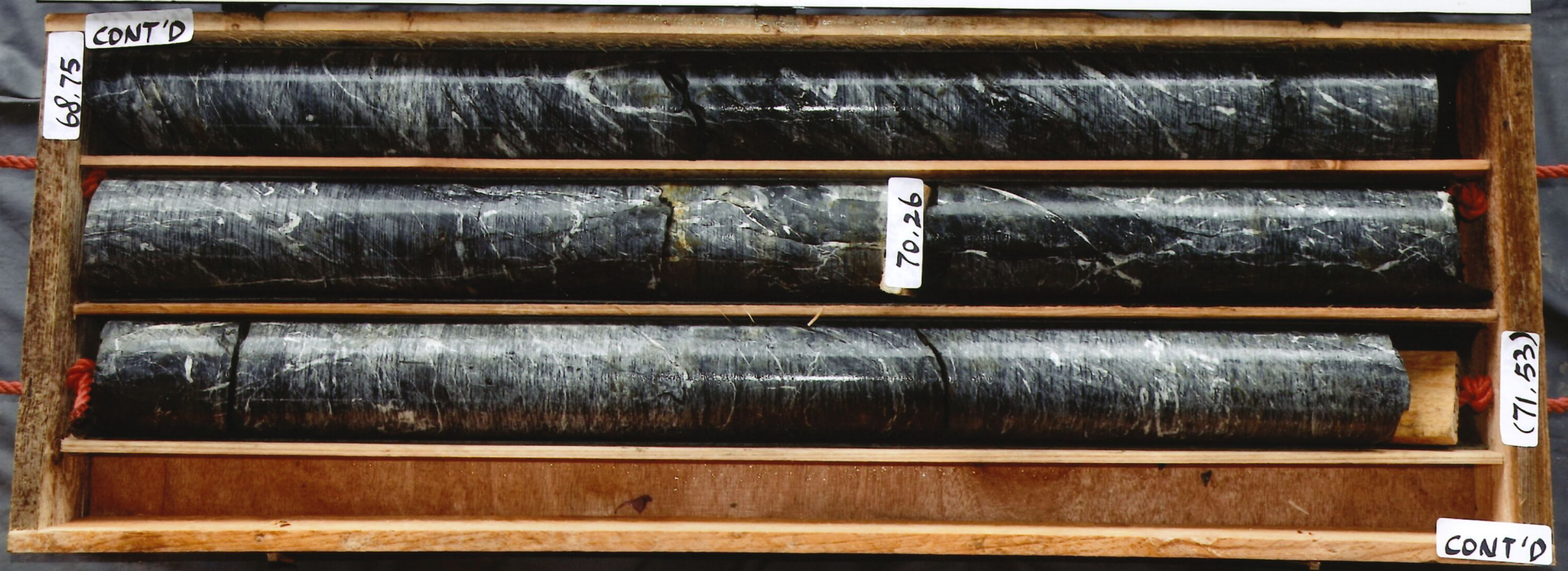
Hole No.: ADH06

Box No.: 8 of 12

Depth : 68.75 m to (71.53) m

Date of Photograph : 22-02-2017

0.00m 1.00m



GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO 惠保(香港)有限公司
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新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No.: GE/2015/29.8

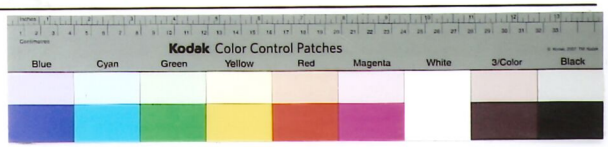
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long
Town connecting with Long Ping Station - IDC

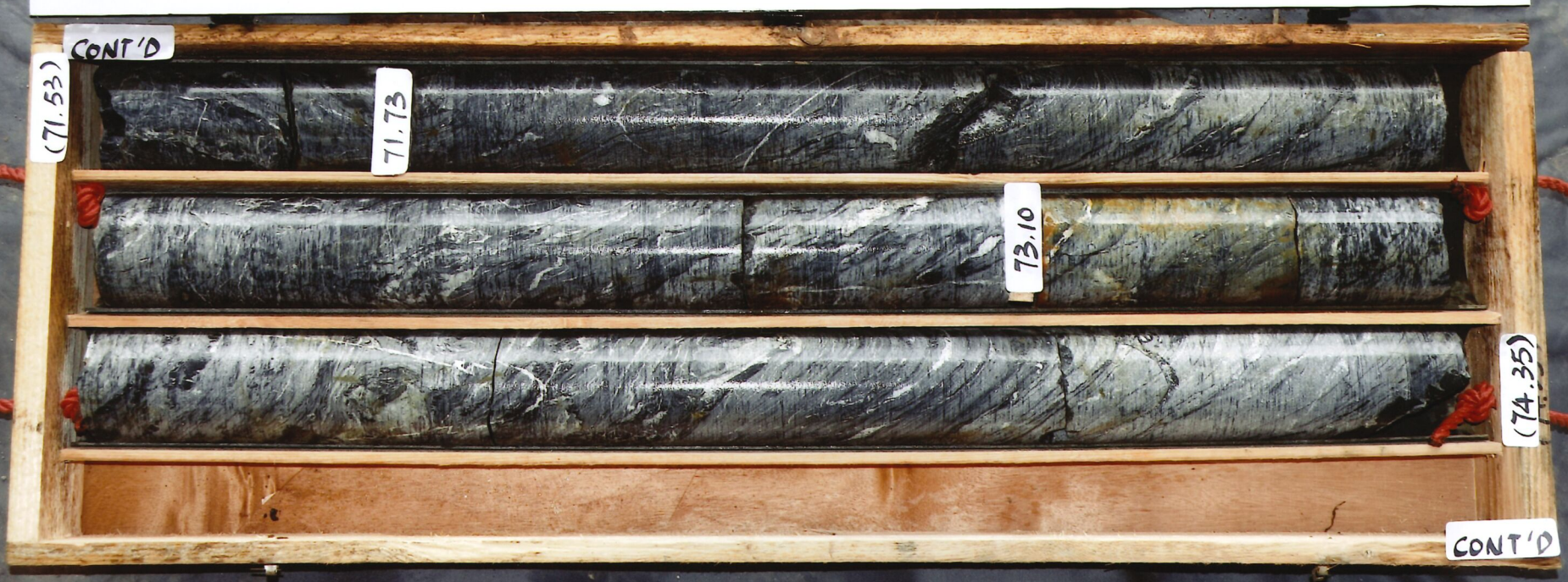
Hole No.: ADH06

Box No.: 9 of 12

Depth : (71.53) m to (74.35) m

Date of Photograph : 22-02-2017





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CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO 惠保(香港)有限公司
VIBRO (H.K.) LIMITED
新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No.: GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH06

Box No.: 10 of 12

Depth : (74.35) m to (77.05) m

Date of Photograph : 22-02-2017

GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO 惠保(香港)有限公司
VIBRO (H.K.) LIMITED
新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No : GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

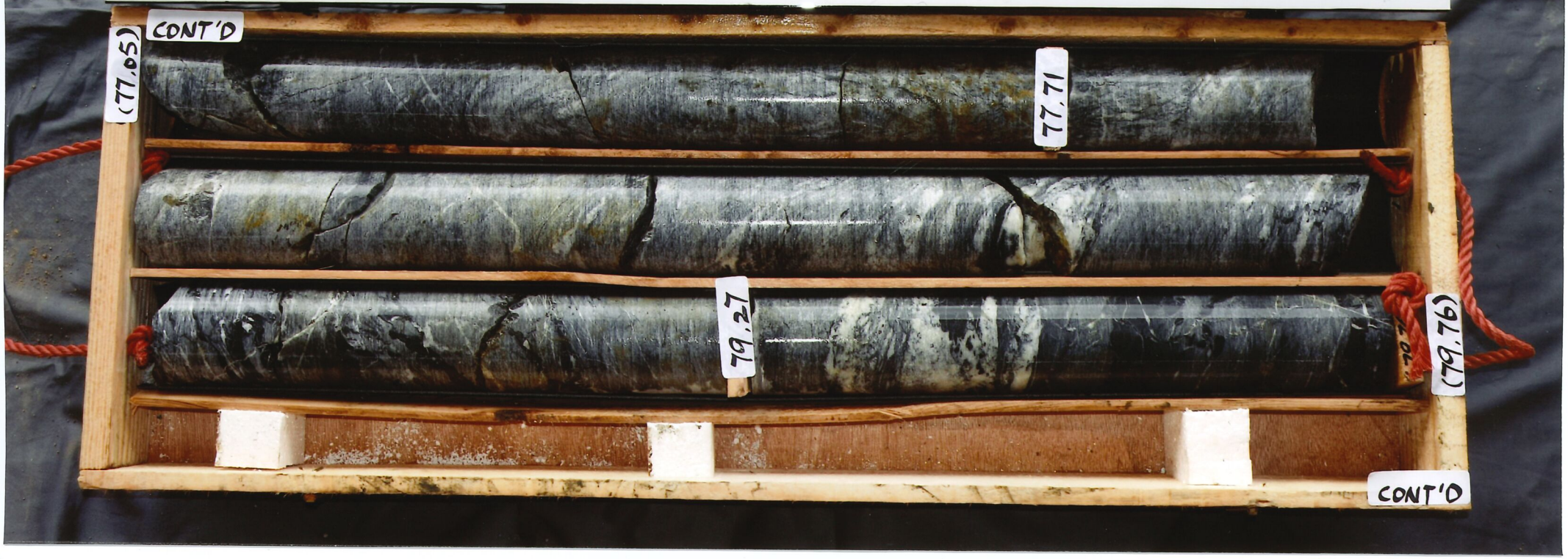
Hole No.: ADH06

Box No.: 11 of 12

Depth : (77.05) m to (79.76) m

Date of Photograph : 22-02-2017

0.00m 1.00m



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Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

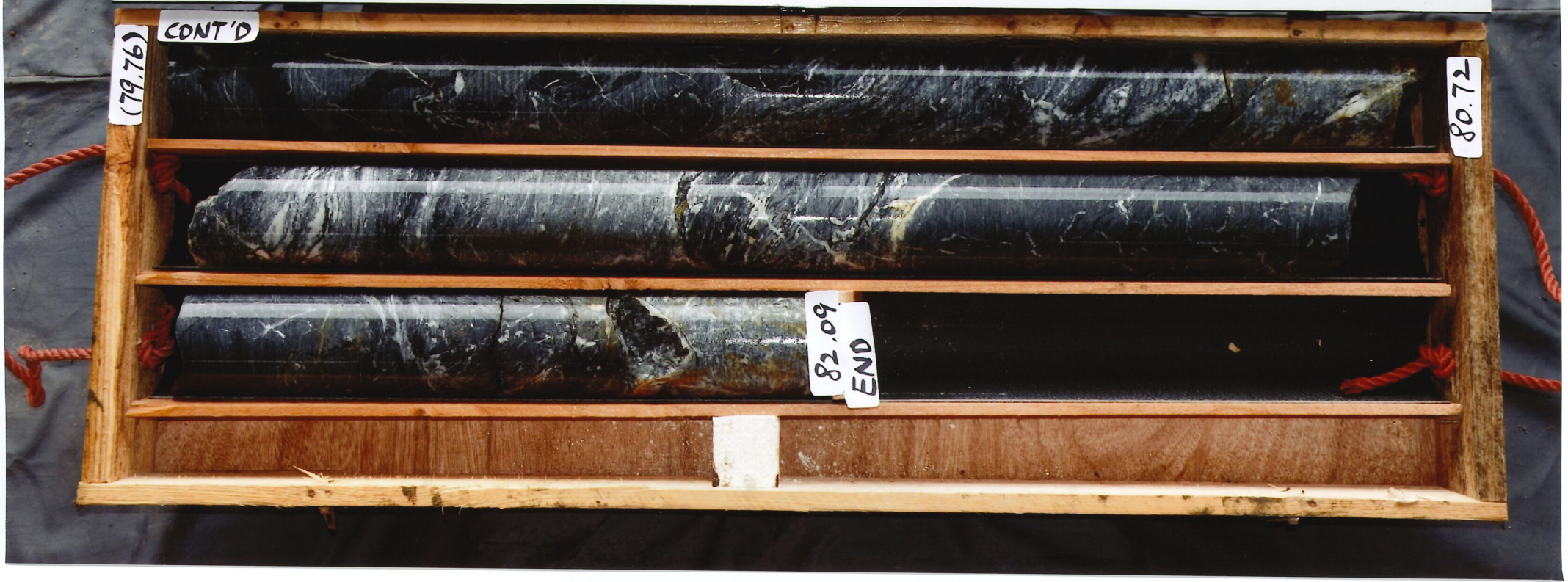
Hole No.: ADH06

Box No.: 12 of 12

Depth : (79.76) m to 82.09 m

Date of Photograph : 22-02-2017

0.00m 1.00m

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CEDD
VIBRO
惠保(香港)有限公司
VIBRO (H.K.) LIMITED
新創建集團成員 Member of NWS Holdings
Contract No.: GE/2015/29
Contract Title : Ground Investigation - New Territories West
Task Order No.: GE/2015/29.8
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long
Town connecting with Long Ping Station - IDC
Hole No.: ADH07
Box No.: 1 of 10
Depth : 0.00 m to 10.60 m
Date of Photograph : 22-02-2017
Kodak Color Control Patches
Blue Cyan Green Yellow Red Magenta White 3/Color Black
0.00m
1.00m
(A)
(1)
(21)
0.00
0.10
10.60
CONT'D

GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO 惠保(香港)有限公司
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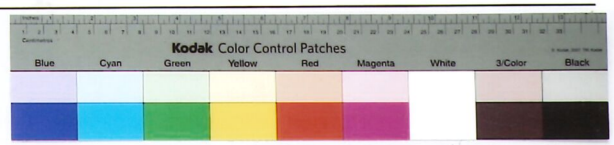
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH07

Box No.: 2 of 10

Depth : 10.60 m to 25.75 m

Date of Photograph : 22-02-2017



0.00m 1.00m

GEOTECHNICAL ENGINEERING OFFICE
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VIBRO 惠保(香港)有限公司
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Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH07

Box No.: 3 of 10

Depth : 25.75 m to 41.75 m

Date of Photograph : 22-02-2017

0.00m 1.00m

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Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH07

Box No.: 4 of 10

Depth : 41.75 m to 57.75 m

Date of Photograph : 22-02-2017

0.00m 1.00m

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Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH07

Box No.: 5 of 10

Depth : 57.75 m to 67.60 m

Date of Photograph : 22/02/2017

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Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH07

Box No.: 6 of 10

Depth : 67.60 m to (71.60) m

Date of Photograph : 22-02-2017

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Elevated Pedestrian Corridor in Yuen Long
Town connecting with Long Ping Station - IDC

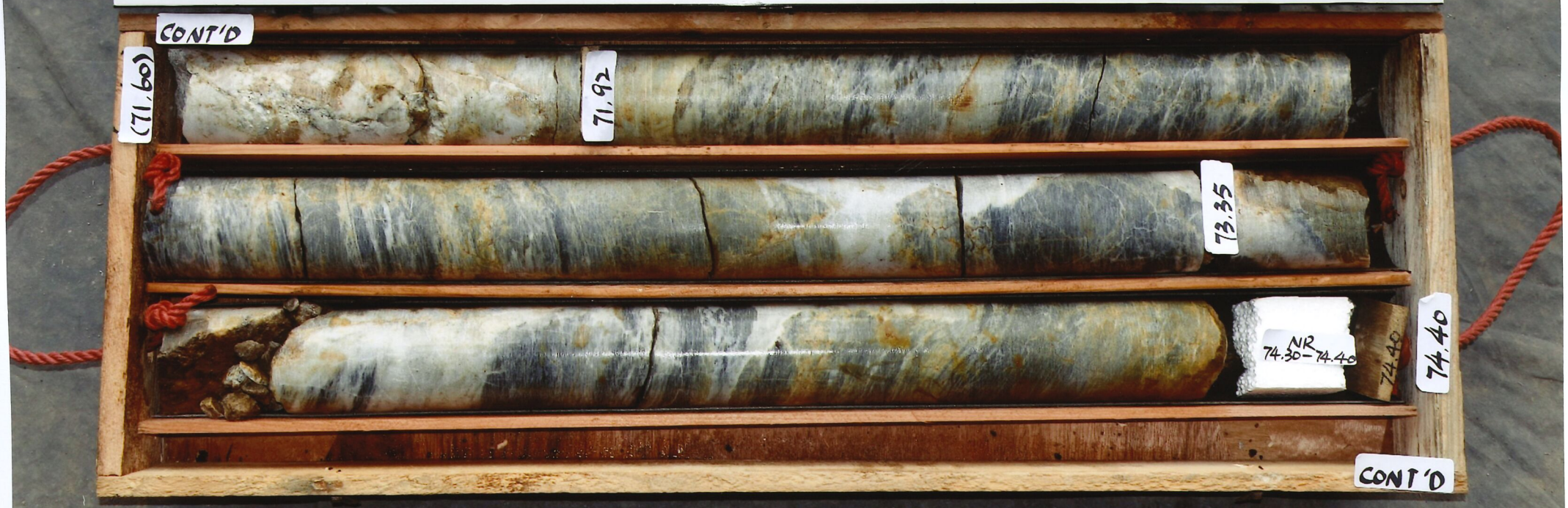
Hole No.: ADH07

Box No.: 7 of 10

Depth : (71.60) m to 74.40 m

Date of Photograph : 22/02/2017

0.00m 1.00m



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Task Order No.: GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH07

Box No.: 8 of 10

Depth : 74.40 m to (81.98) m

Date of Photograph : 22/02/2017

0.00m 1.00m

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VIBRO 惠保(香港)有限公司
VIBRO (H.K.) LIMITED
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Task Order No.: GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH07

Box No.: 9 of 10

Depth : (81.98) m to (84.56) m

Date of Photograph : 22/02/2017

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VIBRO 惠保(香港)有限公司
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Task Order No.: GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH07

Box No.: 10 of 10

Depth : (84.56) m to 86.82 m

Date of Photograph : 22-02-2017

0.00m 1.00m

GEOTECHNICAL ENGINEERING OFFICE
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Task Order No : GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH08

Box No.: 1 of 11

Depth : 0.00 m to 12.25 m

Date of Photograph : 22-02-2017

0.00m 1.00m

GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

VIBRO 惠保(香港)有限公司
VIBRO (H.K.) LIMITED
新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No : GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH08

Box No.: 2 of 11

Depth : 12.25 m to 28.40 m

Date of Photograph : 22-02-2017

0.00m 1.00m

GEOTECHNICAL ENGINEERING OFFICE
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Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH08

Box No.: 3 of 11

Depth : 28.40 m to 44.40 m

Date of Photograph : 22-02-2017

0.00m 1.00m

GEOTECHNICAL ENGINEERING OFFICE
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Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

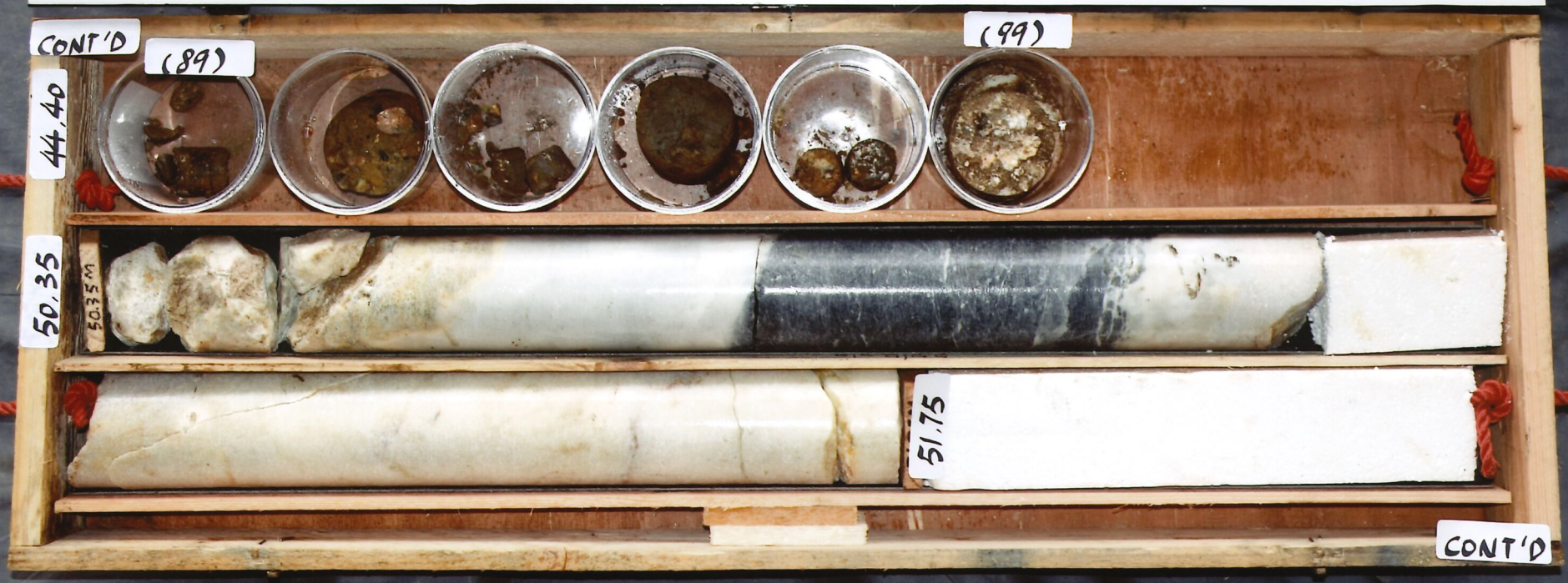
Hole No.: ADH08

Box No.: 4 of 11

Depth : 44.40 m to 51.75 m

Date of Photograph : 22-02-2017

0.00m 1.00m



GEOTECHNICAL ENGINEERING OFFICE
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Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

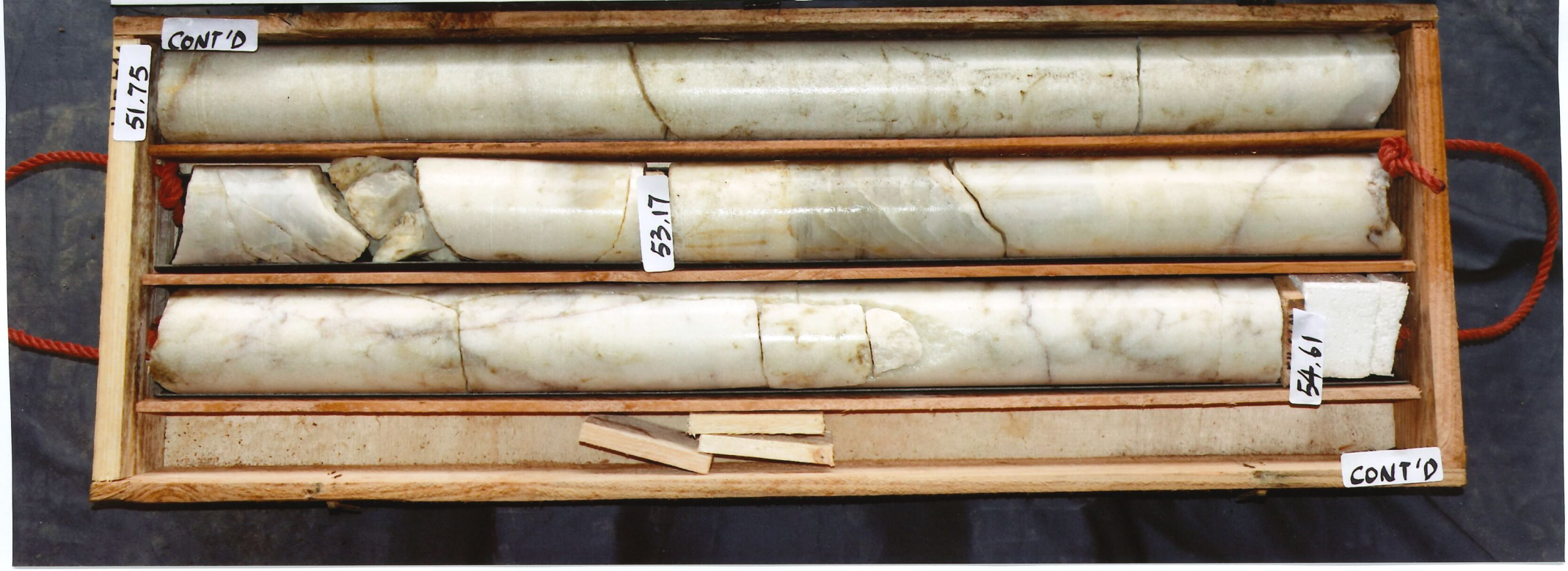
Hole No.: ADH08

Box No.: 5 of 11

Depth : 51.75 m to 54.61 m

Date of Photograph : 22-02-2017

0.00m 1.00m



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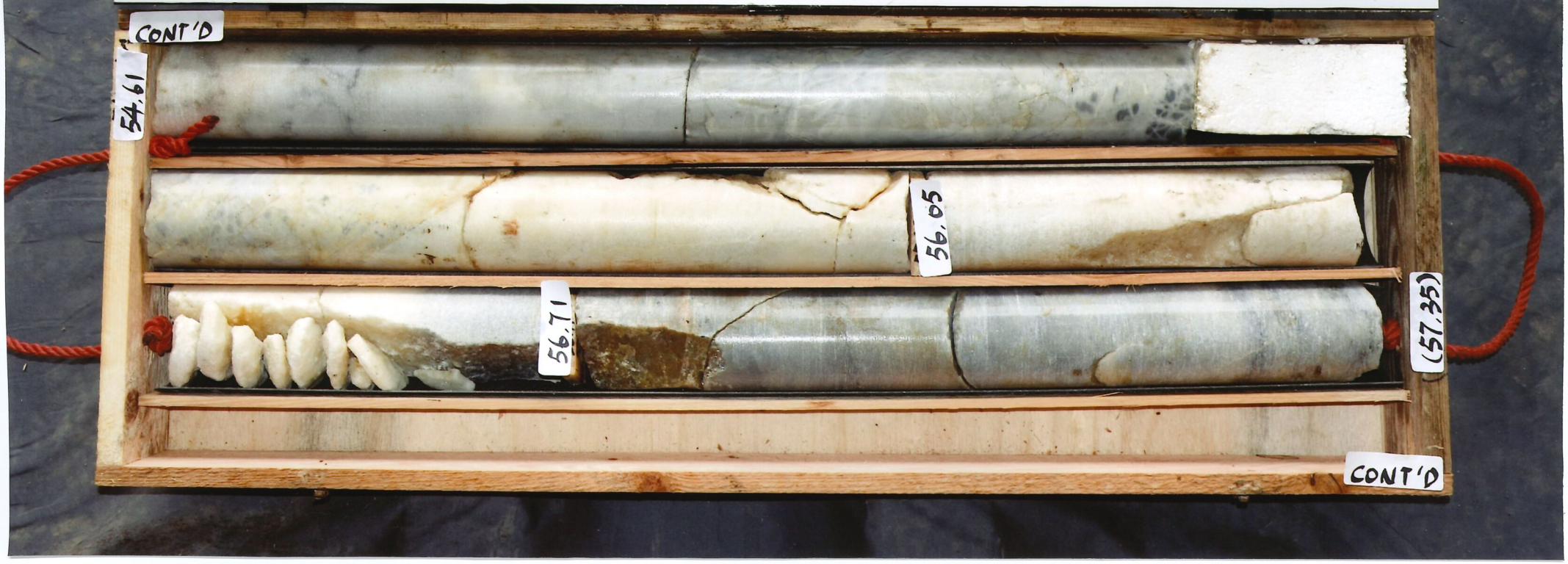
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH08

Box No.: 6 of 11

Depth : 54.61 m to (57.35) m

Date of Photograph : 22-02-2017



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Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH08

Box No.: 7 of 11

Depth : (57.35) m to (60.07) m

Date of Photograph : 22-02-2017

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Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH08

Box No.: 8 of 11

Depth : (60.07) m to 62.51 m

Date of Photograph : 22-02-2017

0.00m 1.00m


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Task Order No.: GE/2015/29.8
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long
Town connecting with Long Ping Station - IDC
Hole No.: ADH08
Box No.: 9 of 11
Depth : 62.51 m to 65.38 m
Date of Photograph : 22-02-2017
Kodak Color Control Patches
Blue Cyan Green Yellow Red Magenta White 3/Color Black
0.00m
1.00m
CONT'D
62.51
63.92
65.38
CONT'D

GEOTECHNICAL ENGINEERING OFFICE
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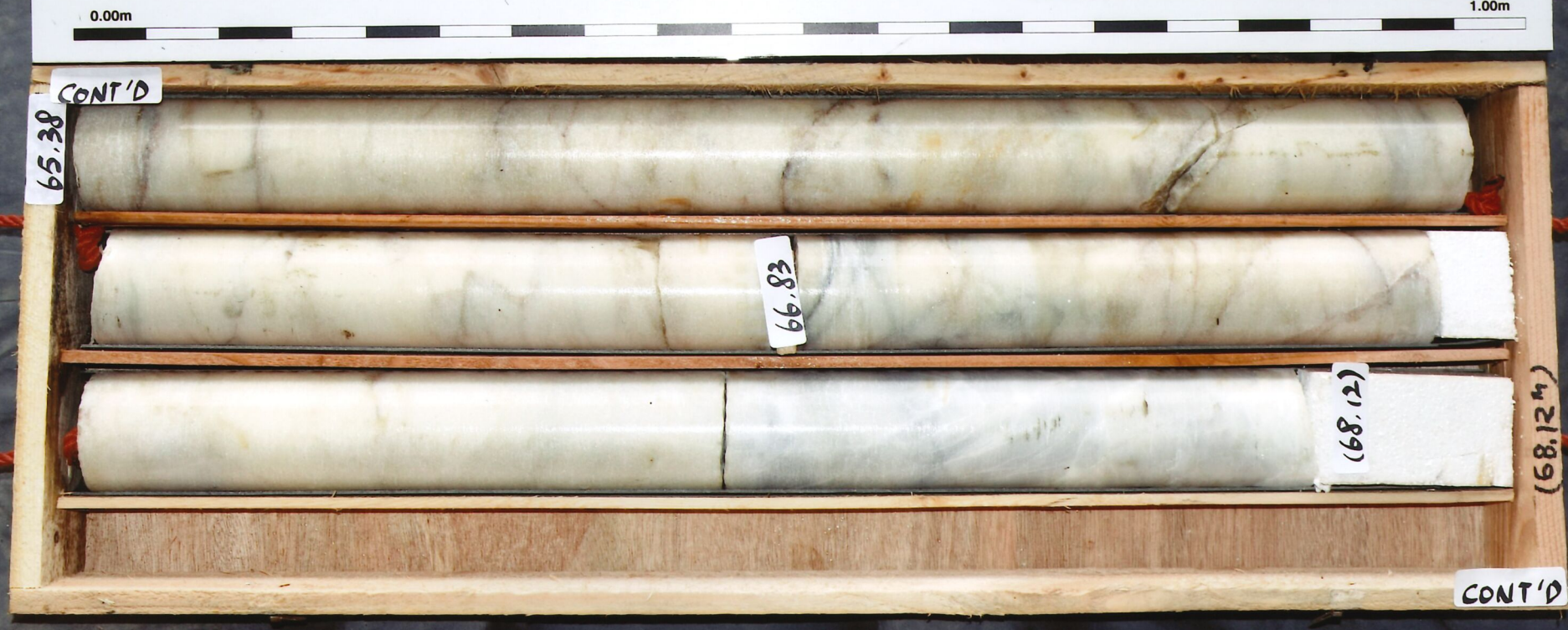
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH08

Box No.: 10 of 11

Depth : 65.38 m to (68.12) m

Date of Photograph : 22-02-2017



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Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

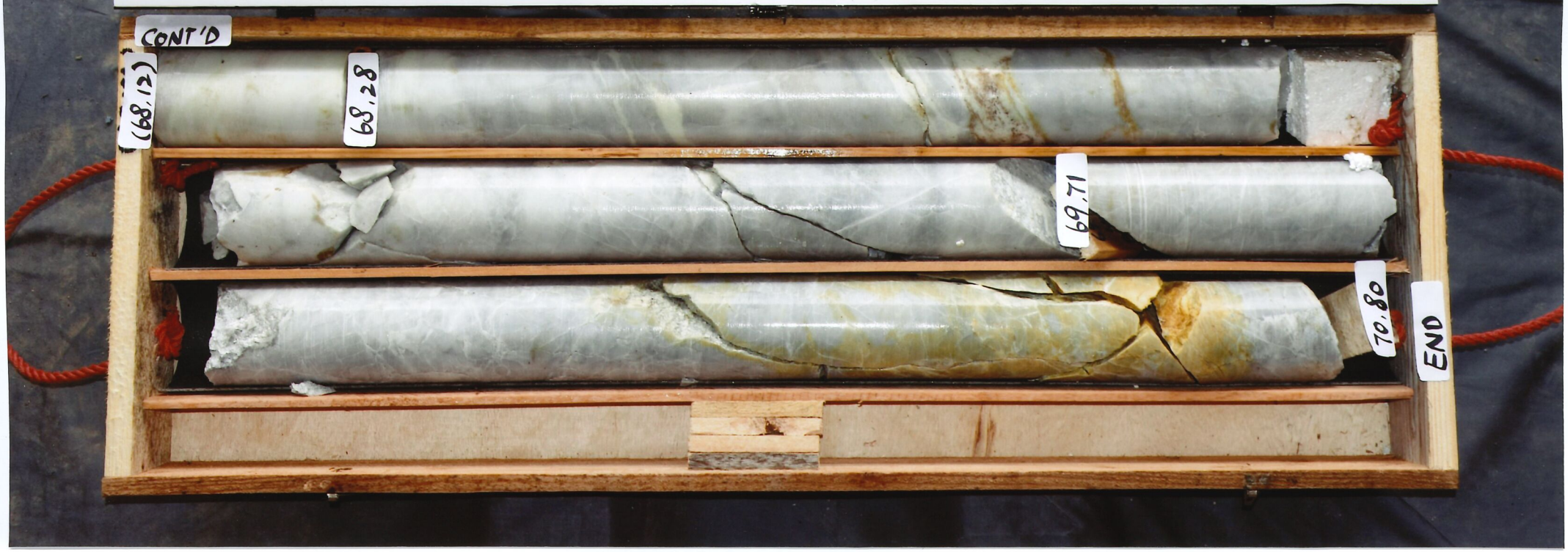
Hole No.: ADH08

Box No.: 11 of 11

Depth : (68.12) m to 70.80 m

Date of Photograph : 22-02-2017

0.00m 1.00m



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Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH09

Box No.: 1 of 20

Depth : 0.00 m to 12.25 m

Date of Photograph : 22-02-2017

0.00m 1.00m

GEOTECHNICAL ENGINEERING OFFICE
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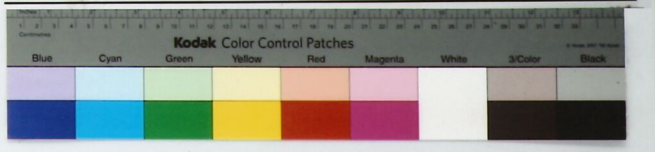
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH09

Box No.: 2 of 20

Depth : 12.25 m to 26.10 m

Date of Photograph : 22-02-2017



0.00m 1.00m

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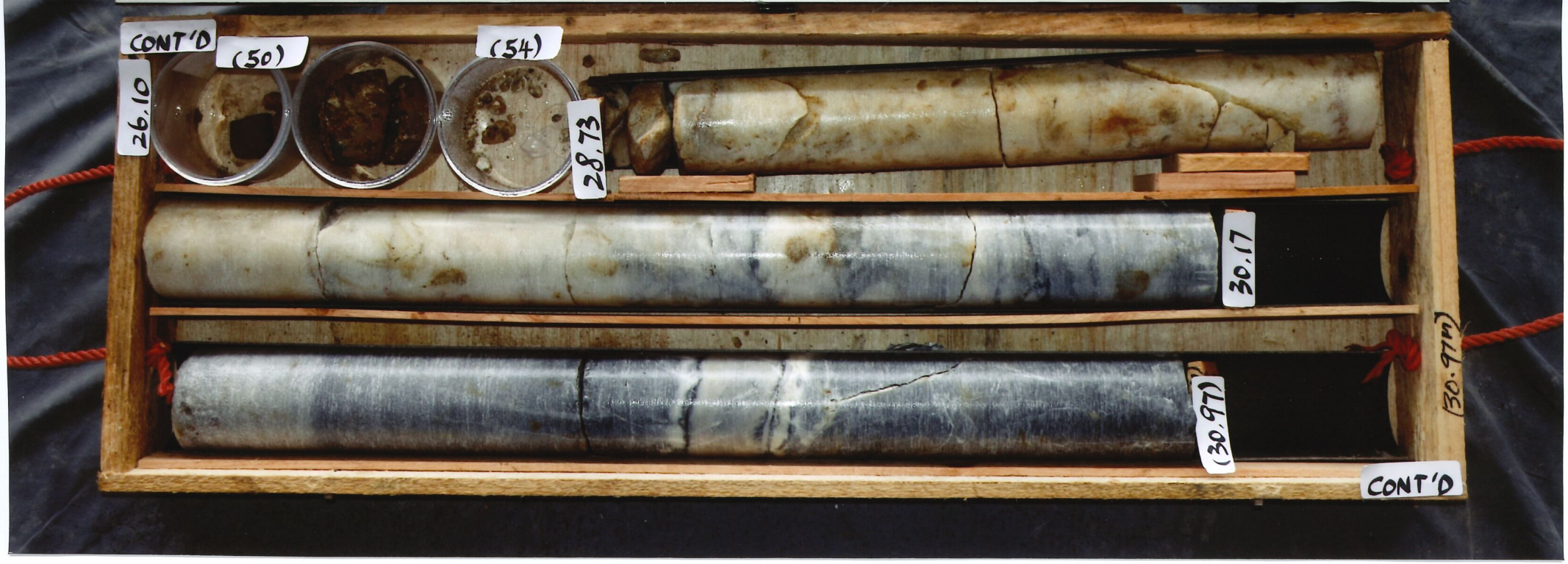
**Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC**

Hole No.: ADH09

Box No.: 3 of 20

Depth : 26.10 m to (30.97) m

Date of Photograph : 22-02-2017



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Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC**

Hole No.: ADH09

Box No.: 4 of 20

Depth : (30.97) m to 33.73 m

Date of Photograph : 22-02-2017

0.00m 1.00m

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Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

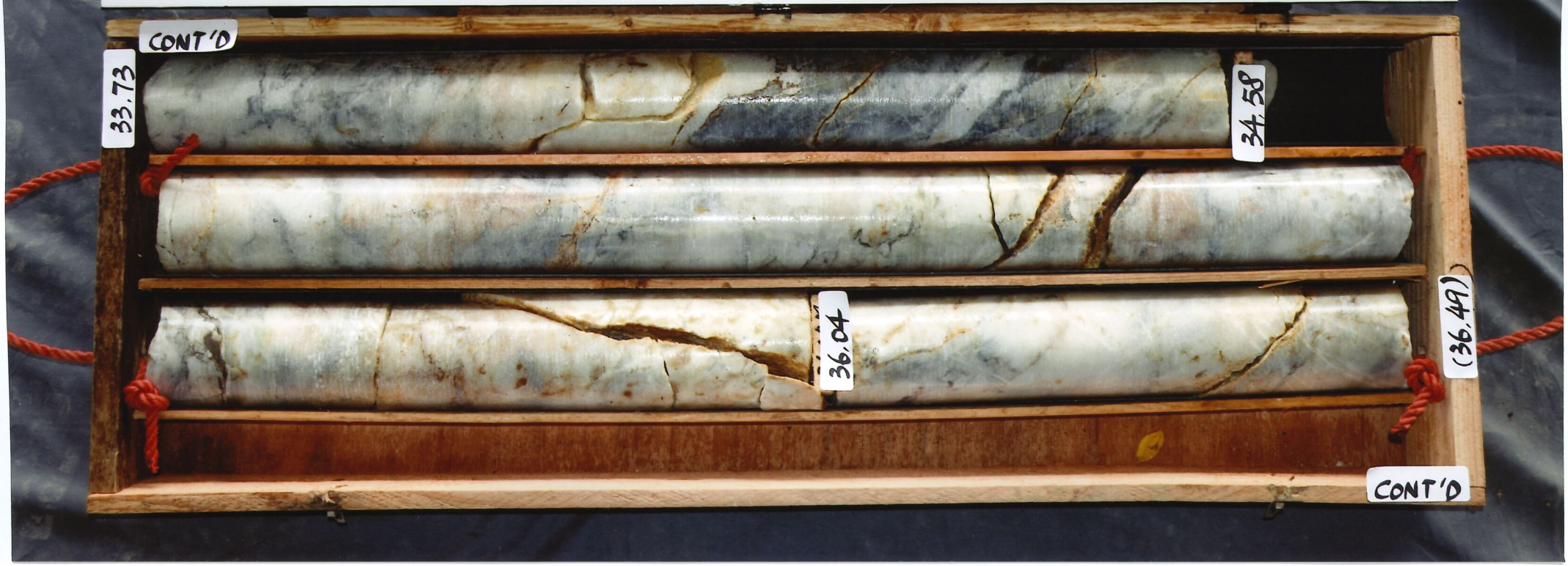
Hole No.: ADH09

Box No.: 5 of 20

Depth : 33.73 m to (36.49) m

Date of Photograph : 22-02-2017

0.00m 1.00m



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Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

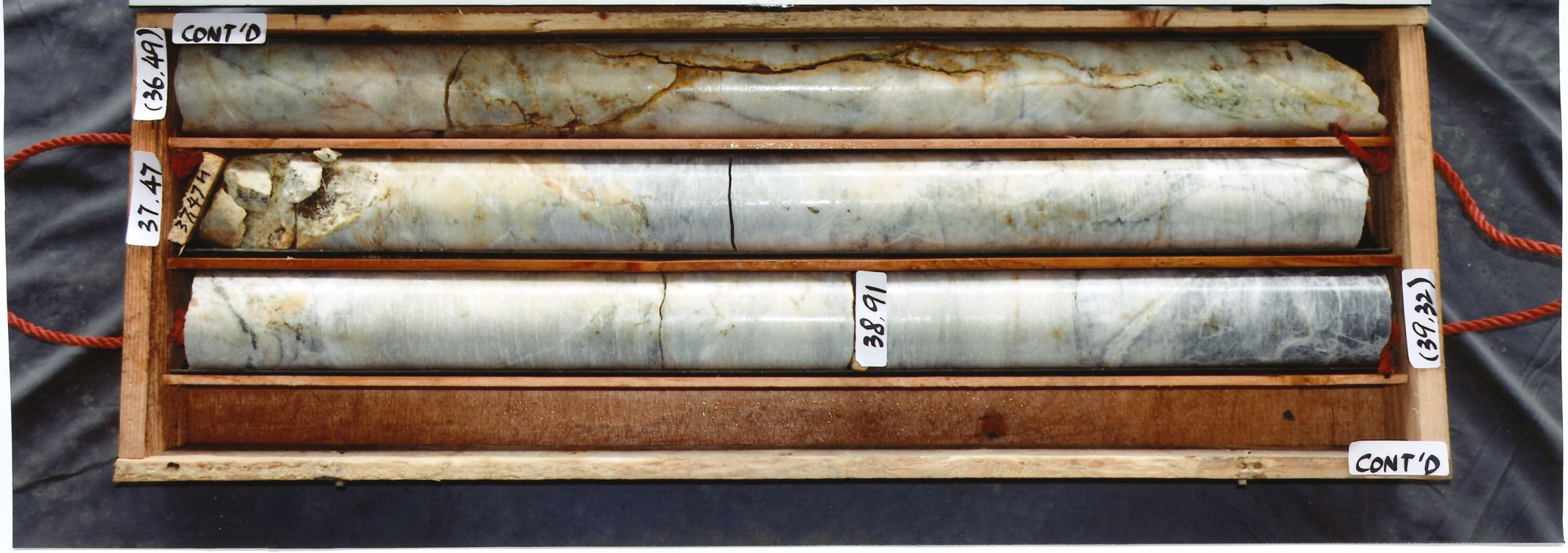
Hole No.: ADH09

Box No.: 6 of 20

Depth : (36.49) m to (39.32) m

Date of Photograph : 22-02-2017

0.00m 1.00m



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VIBRO 惠保(香港)有限公司
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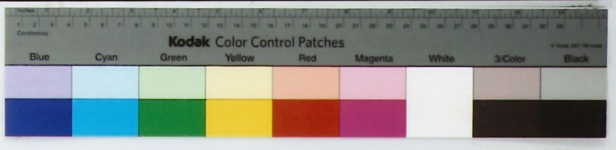
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH09

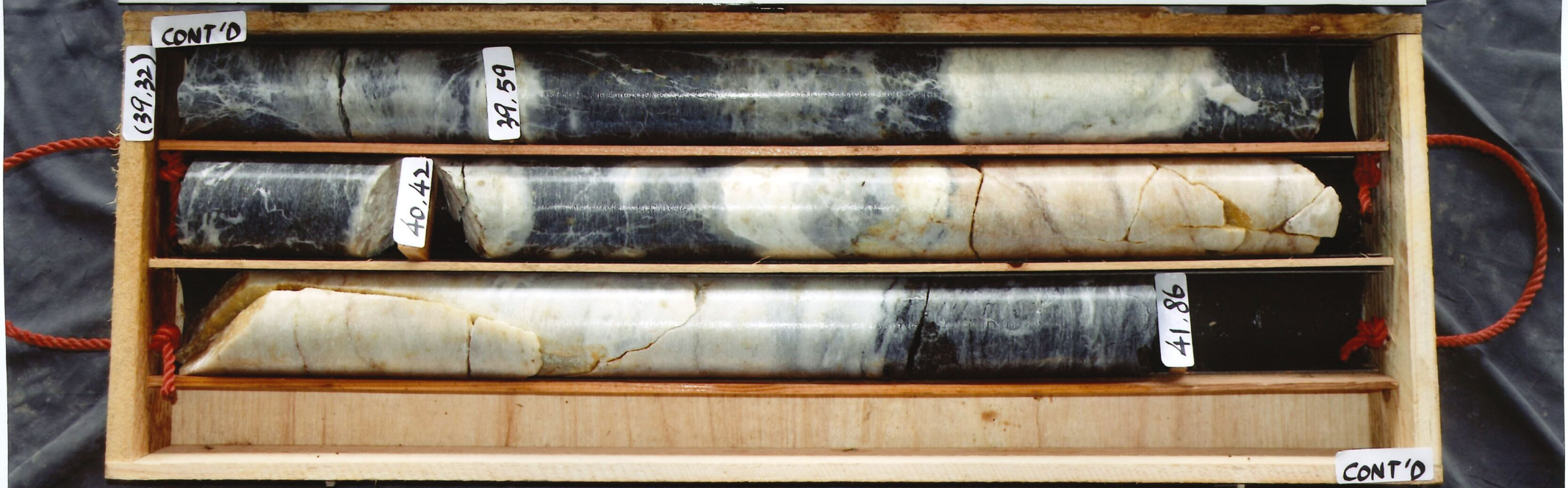
Box No.: 7 of 20

Depth : (39.32) m to 41.86 m

Date of Photograph : 22-02-2017



0.00m 1.00m



GEOTECHNICAL ENGINEERING OFFICE
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VIBRO (H.K.) LIMITED
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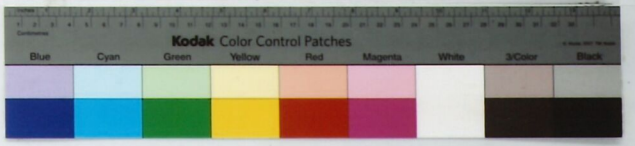
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long
Town connecting with Long Ping Station - IDC

Hole No.: ADH09

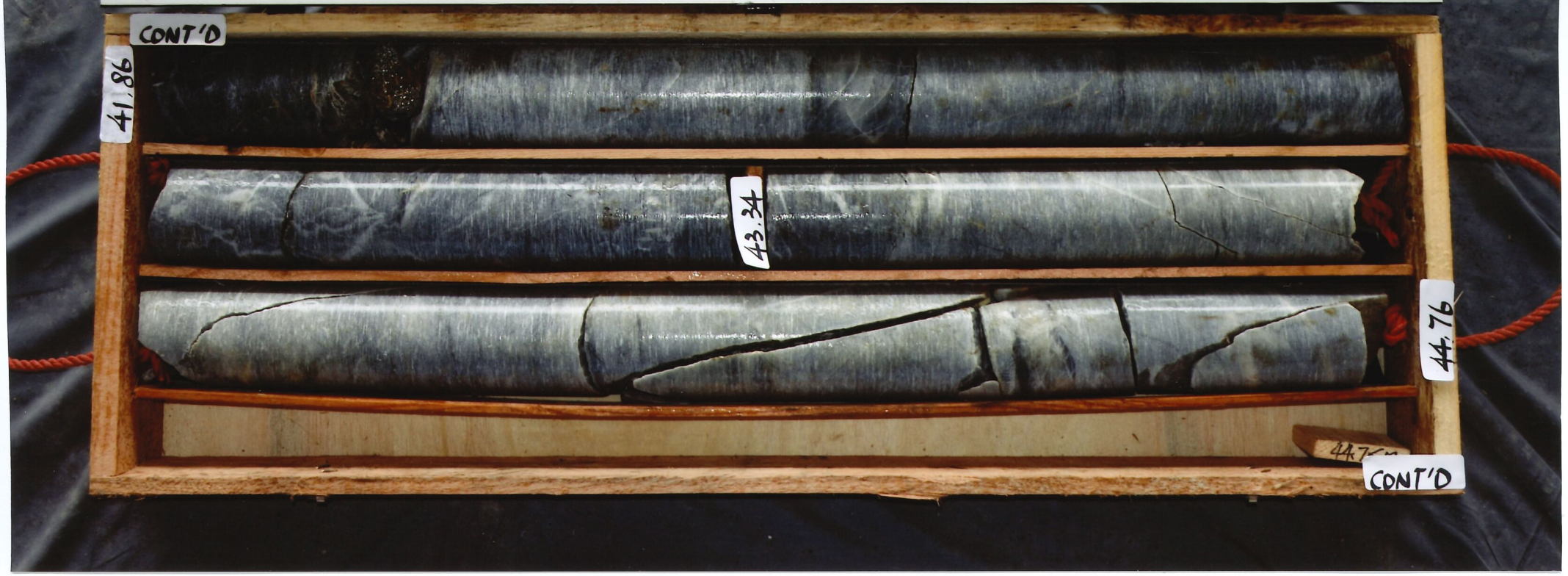
Box No.: 8 of 20

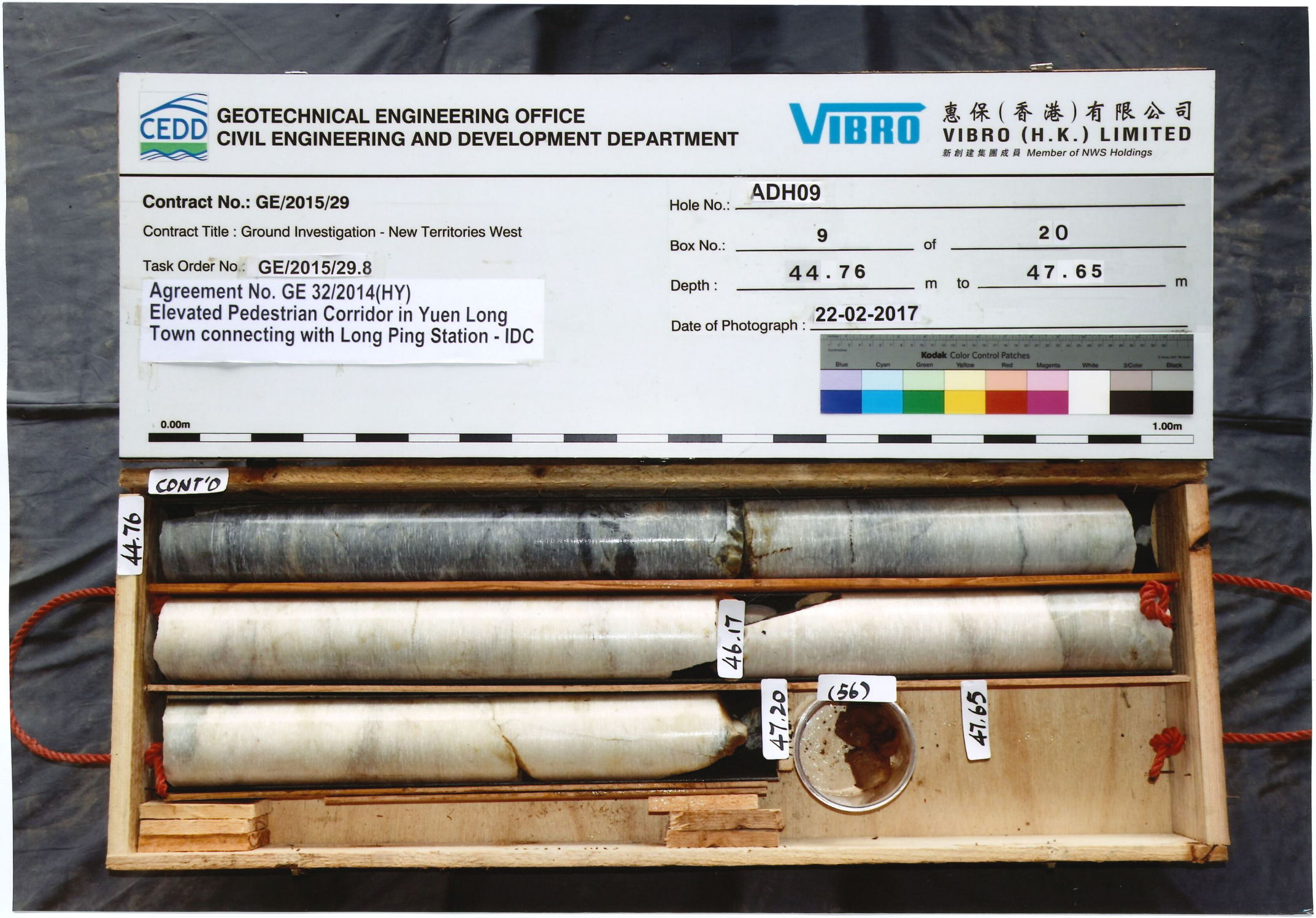
Depth : 41.86 m to 44.76 m

Date of Photograph : 22-02-2017



0.00m 1.00m




GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
CEDD
VIBRO
惠保(香港)有限公司
VIBRO (H.K.) LIMITED
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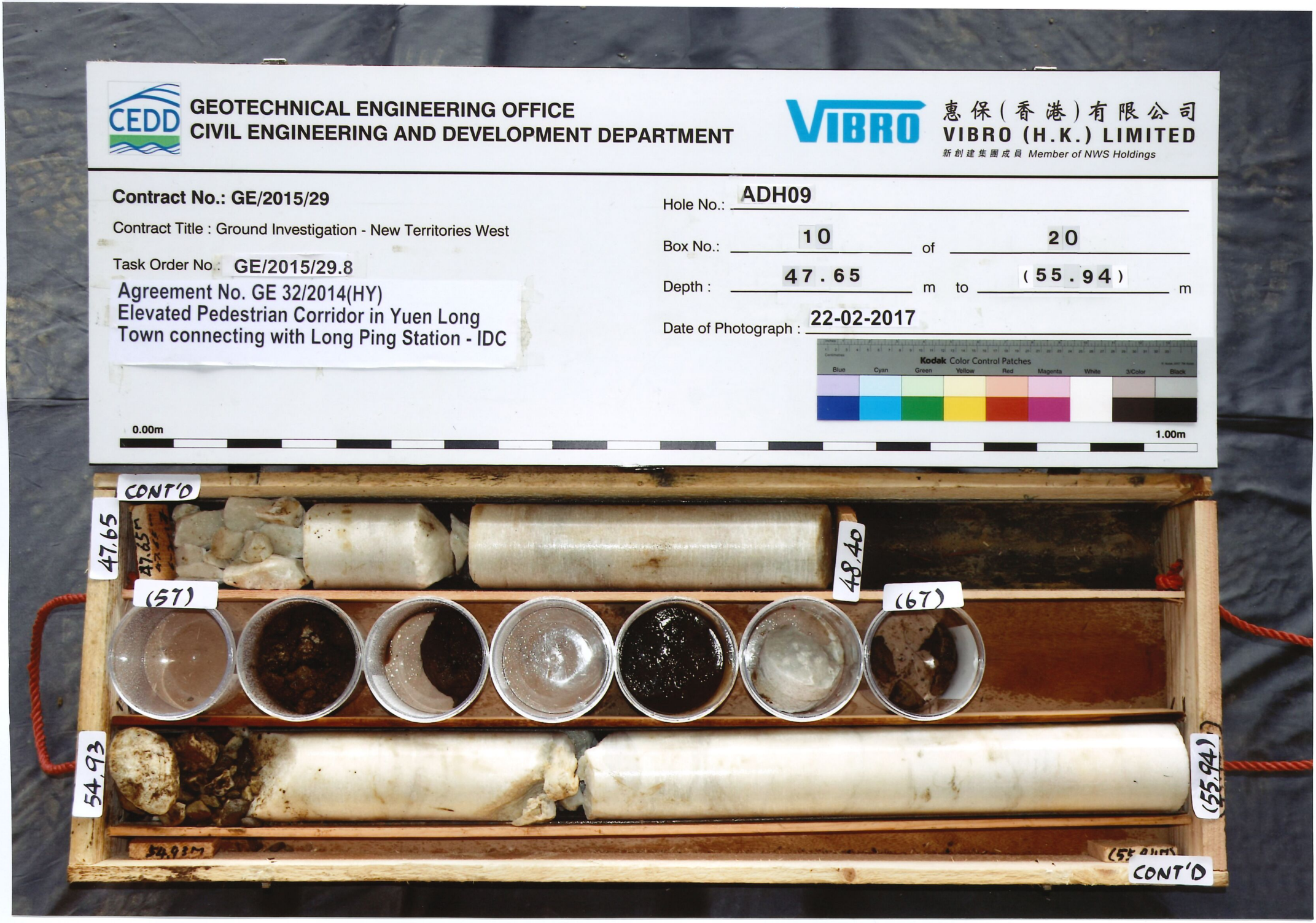
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long
Town connecting with Long Ping Station - IDC
Hole No.: ADH09
Box No.: 9 of 20
Depth : 44.76 m to 47.65 m
Date of Photograph : 22-02-2017
Kodak Color Control Patches
Blue Cyan Green Yellow Red Magenta White 3/Color Black
0.00m
1.00m
CONT'D
44.76
46.17
47.20
(56)
47.65


GEOTECHNICAL ENGINEERING OFFICE
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VIBRO
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Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC
Hole No.: ADH09
Box No.: 10 of 20
Depth : 47.65 m to (55.94) m
Date of Photograph : 22-02-2017
Kodak Color Control Patches
Blue Cyan Green Yellow Red Magenta White 3/Color Black
0.00m
1.00m
CONT'D
47.65
48.40
(57)
(67)
54.93
(55.94)
CONT'D


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Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long
Town connecting with Long Ping Station - IDC
Hole No.: ADH09
Box No.: 11 of 20
Depth : (55.94) m to (58.85) m
Date of Photograph : 22-02-2017
Kodak Color Control Patches
Blue Cyan Green Yellow Red Magenta White 3/Color Black
0.00m
1.00m
CONT'D
(55.94)
56.33
56.57
58.02
(58.85)
CONT'D

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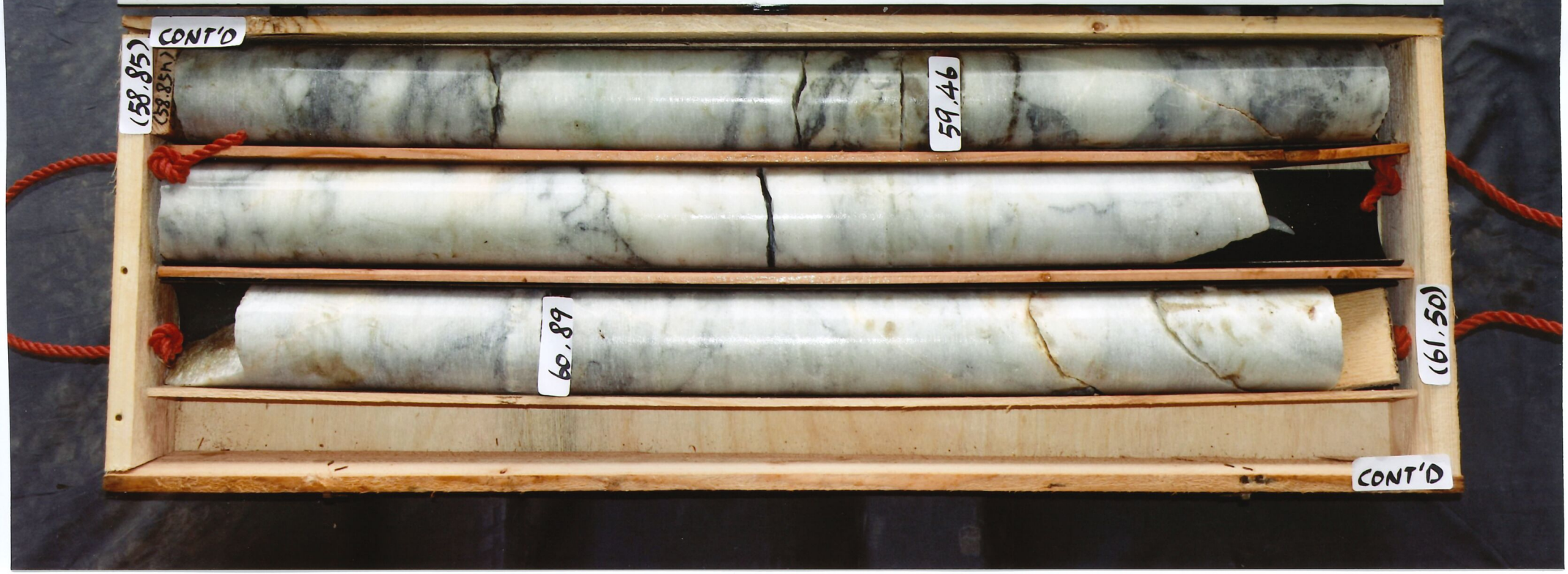
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH09

Box No.: 12 of 20

Depth : (58.85) m to (61.50) m

Date of Photograph : 22-02-2017



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VIBRO (H.K.) LIMITED
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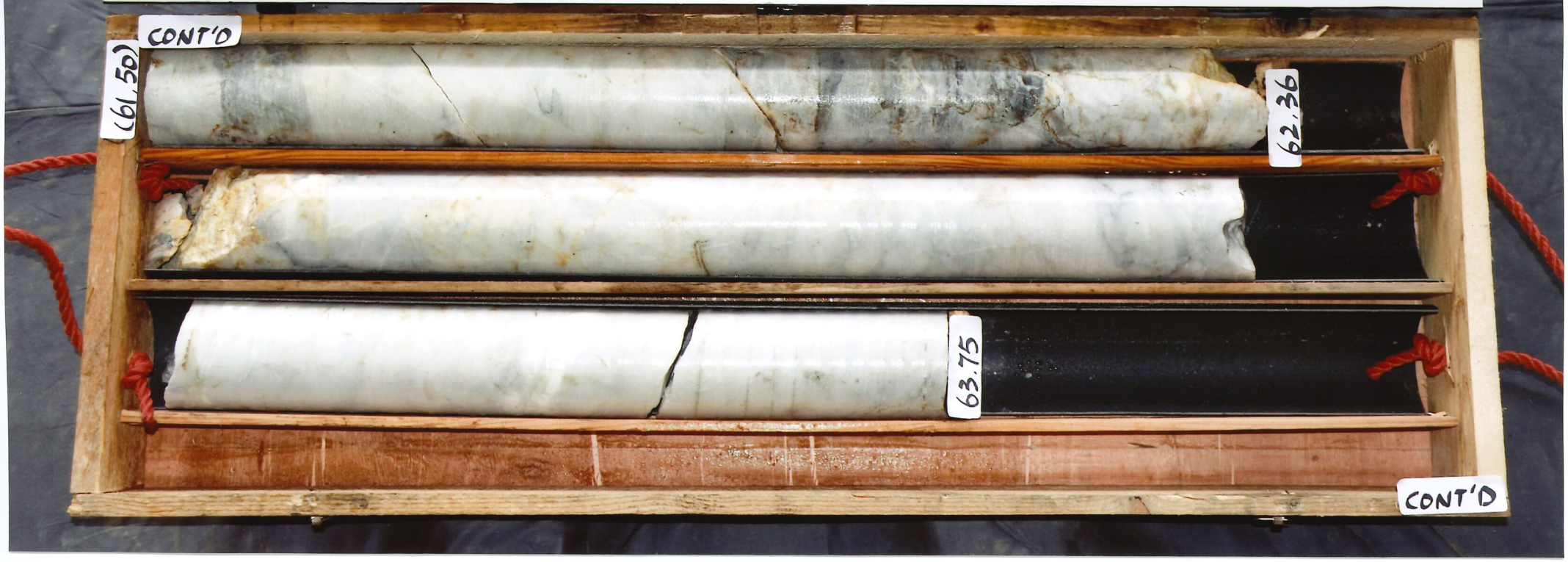
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH09

Box No.: 13 of 20

Depth : (61.50) m to 63.75 m

Date of Photograph : 22-02-2017



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Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH09

Box No.: 14 of 20

Depth : 63.75 m to (66.50) m

Date of Photograph : 22-02-2017

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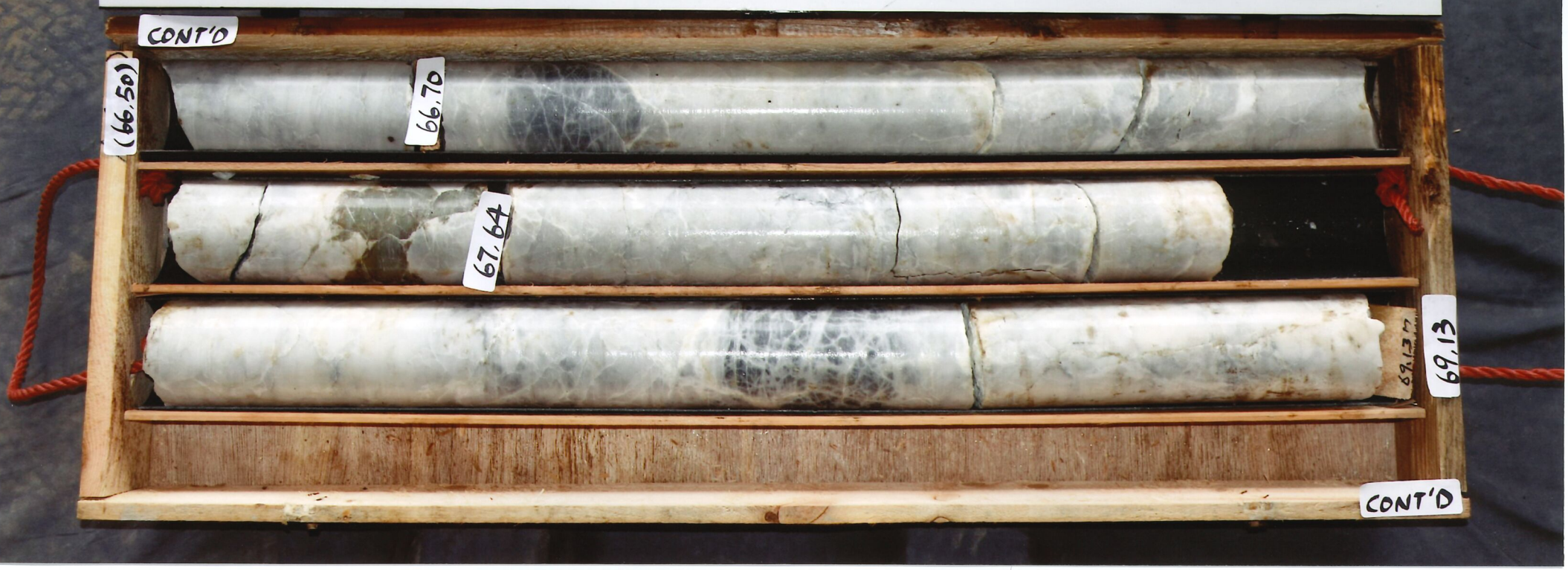
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH09

Box No.: 15 of 20

Depth : (66.50) m to 69.13 m

Date of Photograph : 22-02-2017

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CEDD
VIBRO
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Contract No.: GE/2015/29
Contract Title : Ground Investigation - New Territories West
Task Order No.: GE/2015/29.8
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC
Hole No.: ADH09
Box No.: 16 of 20
Depth : 69.13 m to (71.79) m
Date of Photograph : 22-02-2017
Kodak Color Control Patches
Blue Cyan Green Yellow Red Magenta White 3/Color Black
0.00m
1.00m
CONT'D
69.13
69.65
71.09
(71.79)
CONT'D

GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

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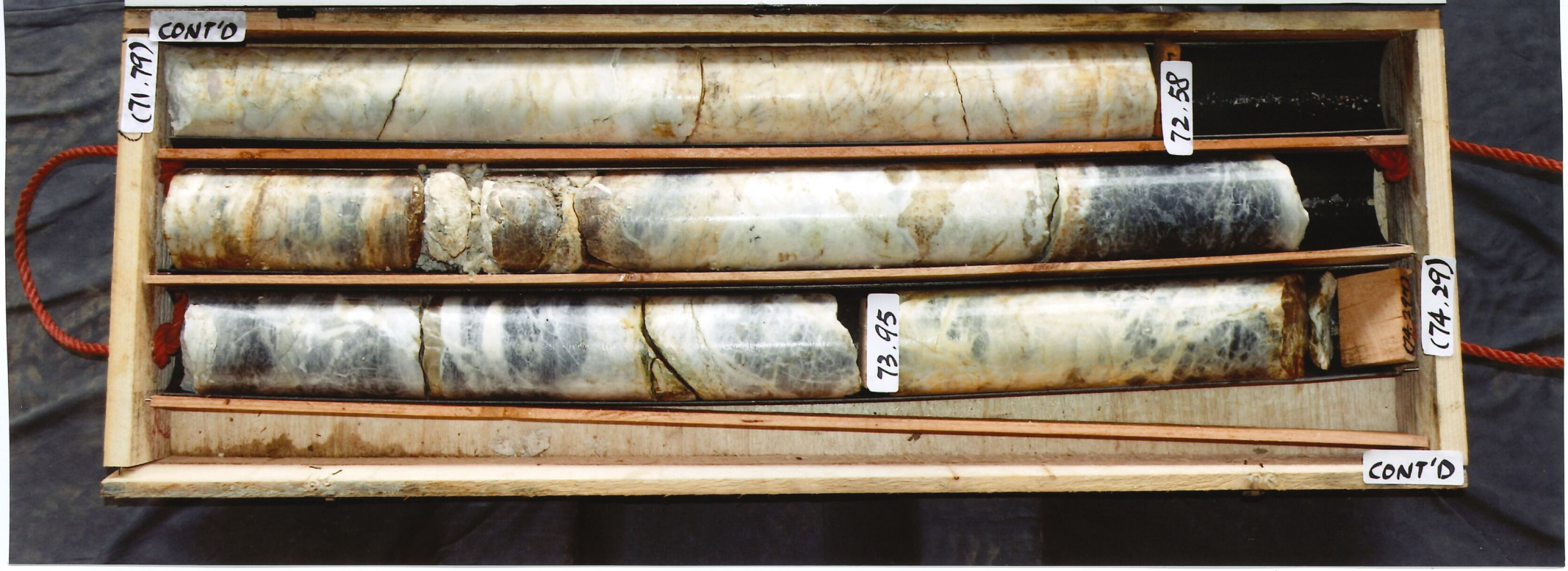
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH09

Box No.: 17 of 20

Depth : (71.79) m to (74.29) m

Date of Photograph : 22-02-2017



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VIBRO 惠保(香港)有限公司
VIBRO (H.K.) LIMITED
新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No. : GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH09

Box No.: 18 of 20

Depth : (74.29) m to 76.58 m

Date of Photograph : 22-02-2017

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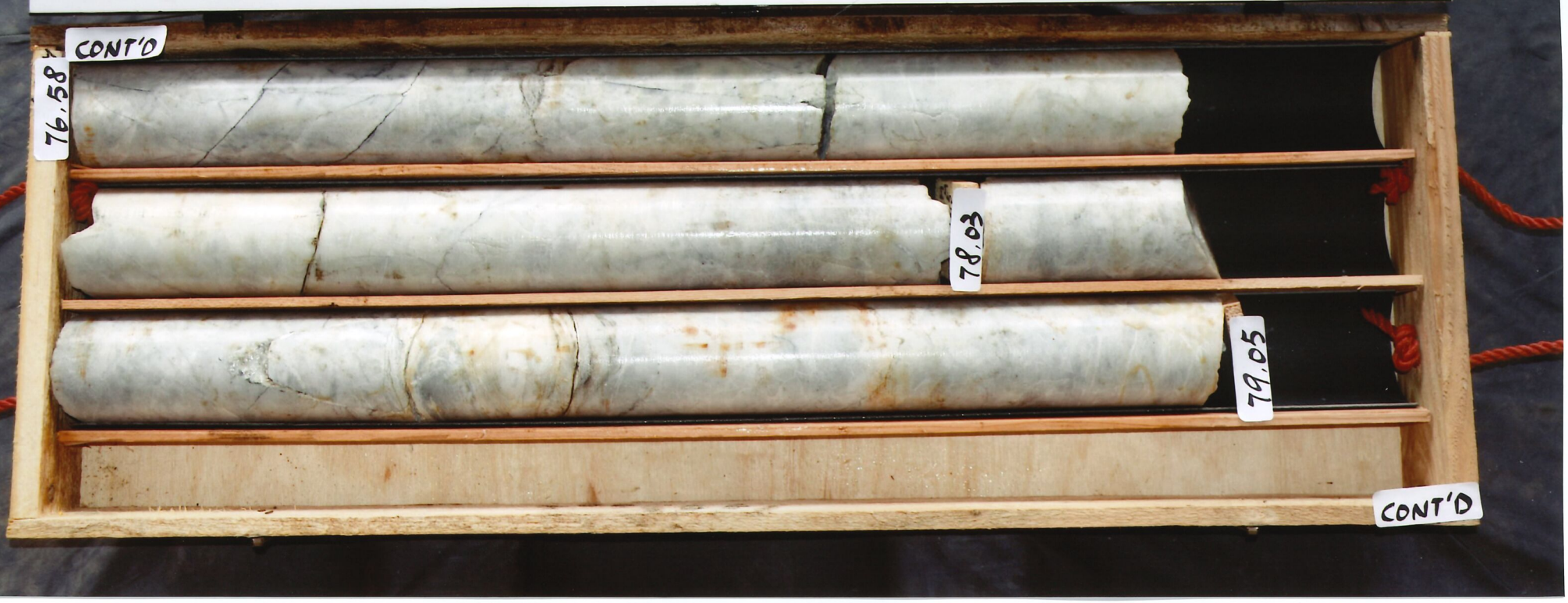
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH09

Box No.: 19 of 20

Depth : 76.58 m to 79.05 m

Date of Photograph : 22-02-2017



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Task Order No. : GE/2015/29.8

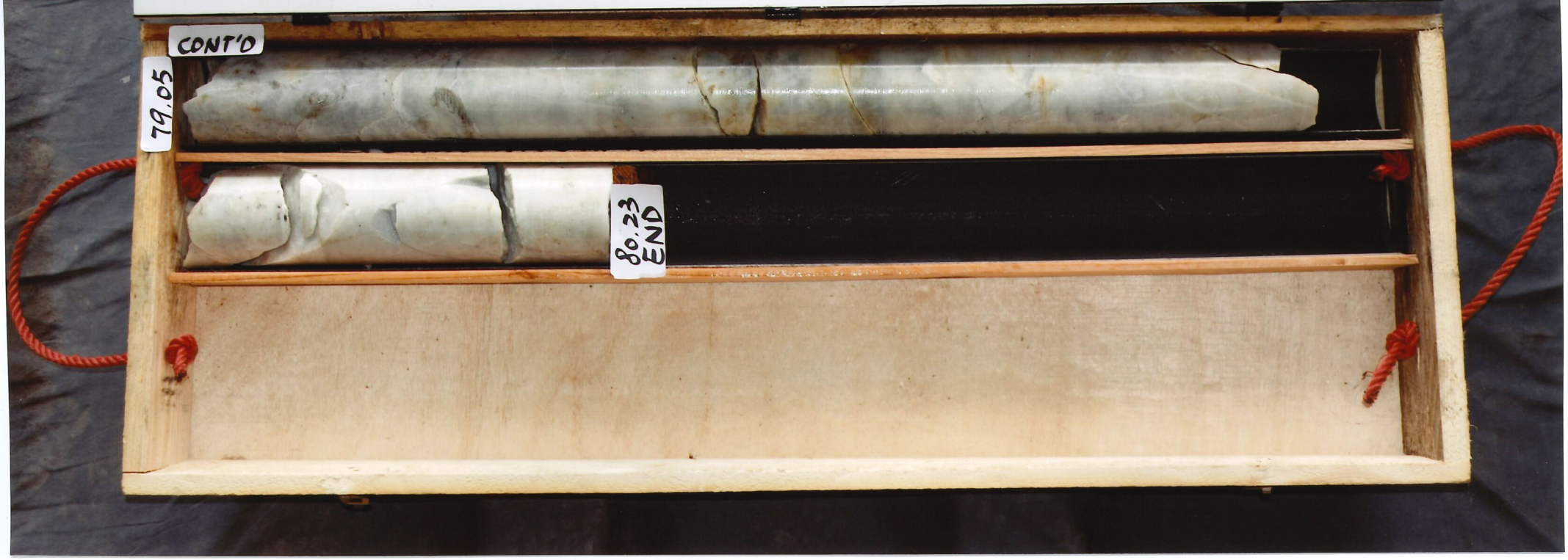
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH09

Box No.: 20 of 20

Depth : 79.05 m to 80.23 m

Date of Photograph : 22-02-2017

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VIBRO
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Contract Title : Ground Investigation - New Territories West
Task Order No.: GE/2015/29.8
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC
Hole No.: ADH10
Box No.: 1 of 10
Depth : 0.00 m to 12.20 m
Date of Photograph : 18-01-2017
Kodak Color Control Patches
Blue Cyan Green Yellow Red Magenta White 3/Color Black
0.00m
1.00m
(A)
(1)
(21)
0,00
0,20
12,20
CONT'D

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Task Order No.: GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH10

Box No.: 2 of 10

Depth : 12.20 m to 27.30 m

Date of Photograph : 18-01-2017

Kodak Color Control Patches
Blue Cyan Green Yellow Red Magenta White 3/Color Black

0.00m 1.00m

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Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH10

Box No.: 3 of 10

Depth : 27.30 m to (38.17) m

Date of Photograph : 18-01-2017

0.00m 1.00m

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Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH10

Box No.: 4 of 10

Depth : (38.17) m to 41.10 m

Date of Photograph : 18-01-2017

0.00m 1.00m

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Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

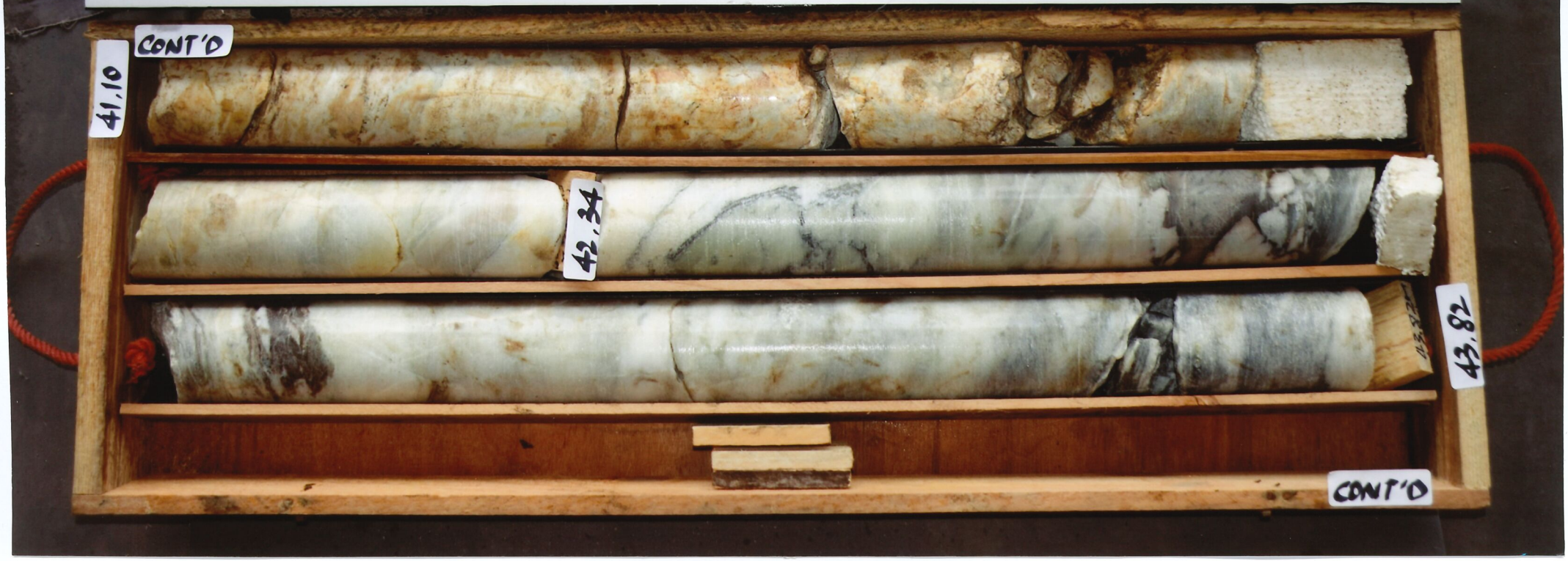
Hole No.: ADH10

Box No.: 5 of 10

Depth : 41.10 m to 43.82 m

Date of Photograph : 18-01-2017

0.00m 1.00m

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VIBRO
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VIBRO (H.K.) LIMITED
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Contract No.: GE/2015/29
Contract Title : Ground Investigation - New Territories West
Task Order No.: GE/2015/29.8
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC
Hole No.: ADH10
Box No.: 6 of 10
Depth : 43.82 m to (46.71) m
Date of Photograph : 18-01-2017
Kodak Color Control Patches
Blue Cyan Green Yellow Red Magenta White 3/Color Black
0.00m
1.00m
CONT'D
43.82
44.44
45.89
(46.71)
CONT'D

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Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

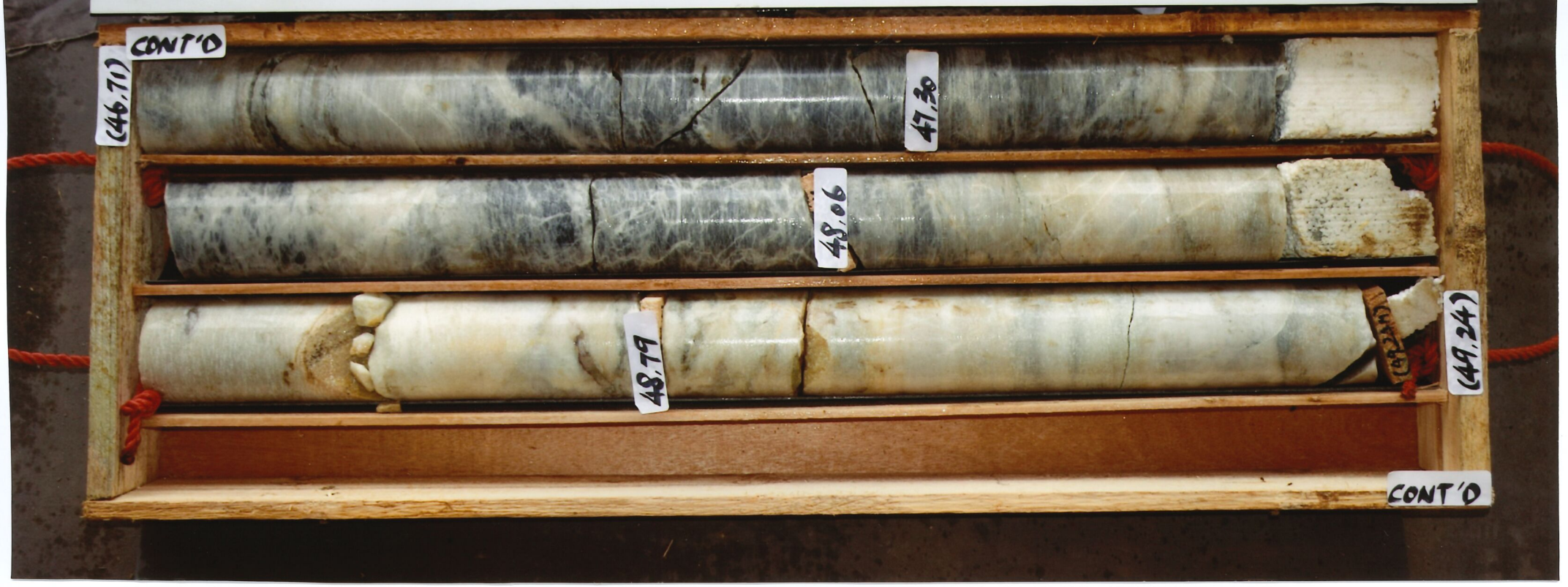
Hole No.: ADH10

Box No.: 7 of 10

Depth : (46.71) m to (49.24) m

Date of Photograph : 18-01-2017

0.00m 1.00m

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Contract No.: GE/2015/29
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Task Order No.: GE/2015/29.8
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC
Hole No.: ADH10
Box No.: 8 of 10
Depth : (49.24) m to (52.06) m
Date of Photograph : 18-01-2017
Kodak Color Control Patches
0.00m
1.00m
CONT'D
(49.24)
50.27
51.76
(52.06)
CONT'D


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Contract No.: GE/2015/29
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Task Order No.: GE/2015/29.8
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC
Hole No.: ADH10
Box No.: 9 of 10
Depth : (52.06) m to 54.64 m
Date of Photograph : 18-01-2017
Kodak Color Control Patches
Blue Cyan Green Yellow Red Magenta White 3/Color Black
0.00m
1.00m
CONT'D
(52.06)
53.21
54.64
CONT'D


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Contract Title : Ground Investigation - New Territories West
Task Order No.: GE/2015/29.8
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC
Hole No.: ADH10
Box No.: 10 of 10
Depth : 54.64 m to 57.29 m
Date of Photograph : 18-01-2017
Kodak Color Control Patches
Blue Cyan Green Yellow Red Magenta White 3/Color Black
0.00m
1.00m
CONT'D
54.64
56.09
57.29
END

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Task Order No. GE/2015/29.8

**Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC**

Hole No.: ADH11

Box No.: 1 of 18

Depth : 0.00 m to 13.95 m

Date of Photograph : 22-02-2017

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Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH11

Box No.: 2 of 18

Depth : 13.95 m to 24.22 m

Date of Photograph : 22-02-2017

0.00m 1.00m

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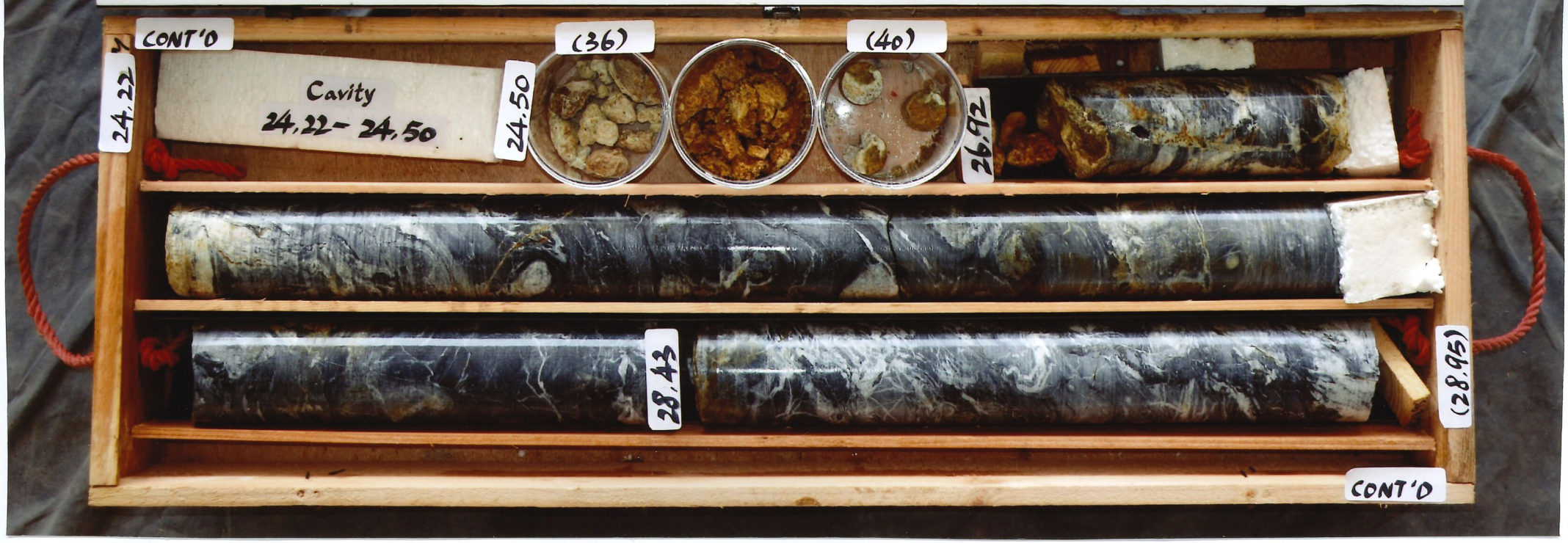
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH11

Box No.: 3 of 18

Depth : 24.22 m to (28.95) m

Date of Photograph : 22-02-2017



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Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long
Town connecting with Long Ping Station - IDC

Hole No.: ADH11

Box No.: 4 of 18

Depth : (28.95) m to 33.00 m

Date of Photograph : 22/02/2017

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Contract Title : Ground Investigation - New Territories West

Task Order No. GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH11

Box No.: 5 of 18

Depth : 33.00 m to 42.45 m

Date of Photograph : 22-02-2017

GEOTECHNICAL ENGINEERING OFFICE
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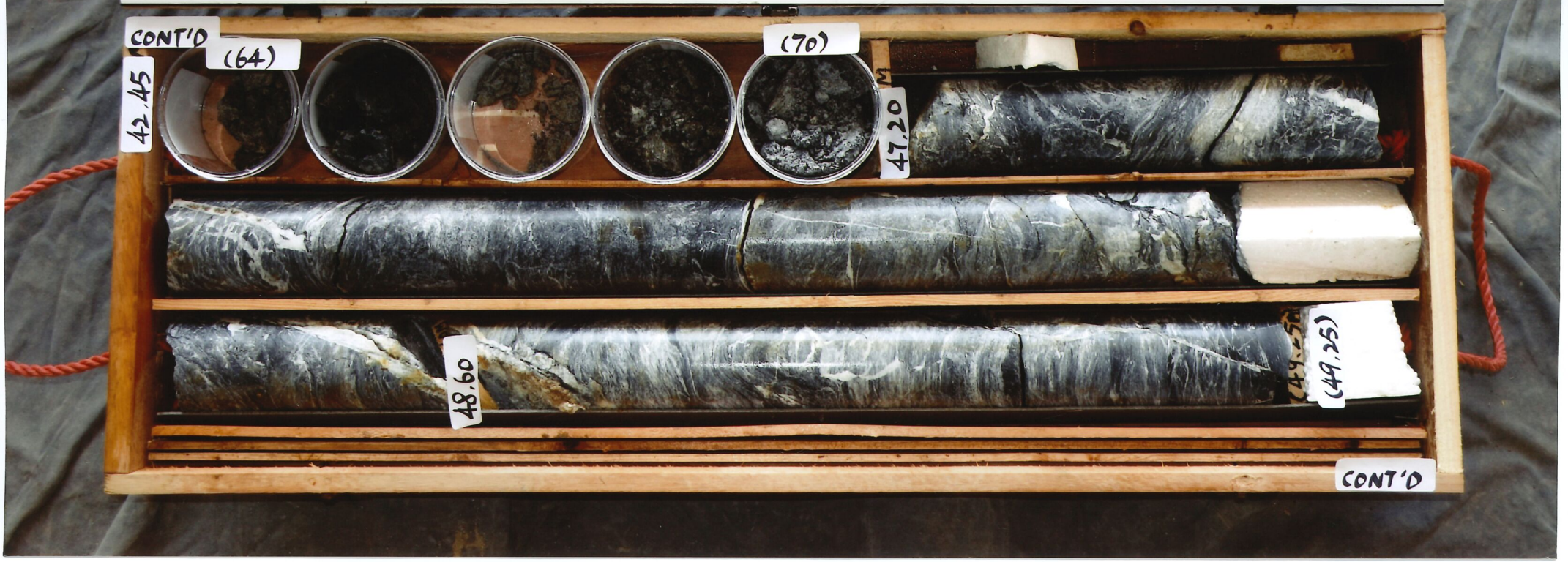
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH11

Box No.: 6 of 18

Depth : 42.45 m to (49.25) m

Date of Photograph : 22-02-2017



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Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

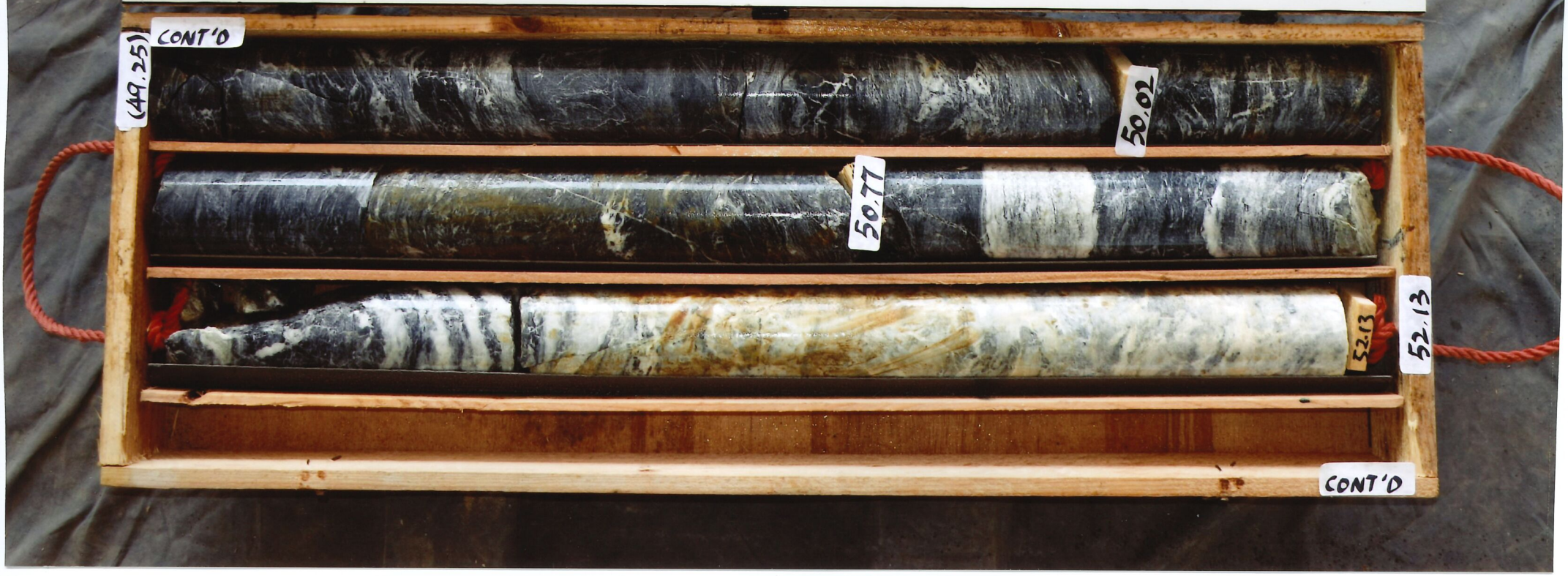
Hole No.: ADH11

Box No.: 7 of 18

Depth : (49.25) m to 52.13 m

Date of Photograph : 22-02-2017

0.00m 1.00m



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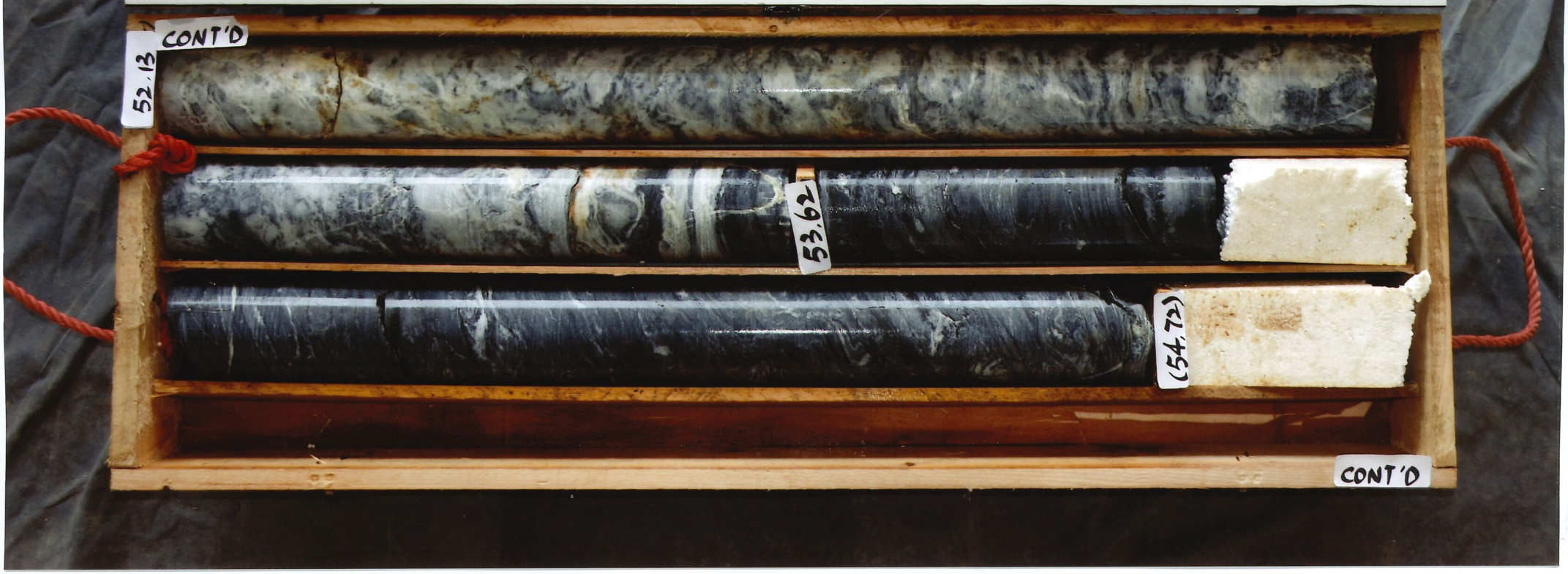
**Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC**

Hole No.: ADH11

Box No.: 8 of 18

Depth : 52.13 m to (54.72) m

Date of Photograph : 22-02-2017



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**Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC**

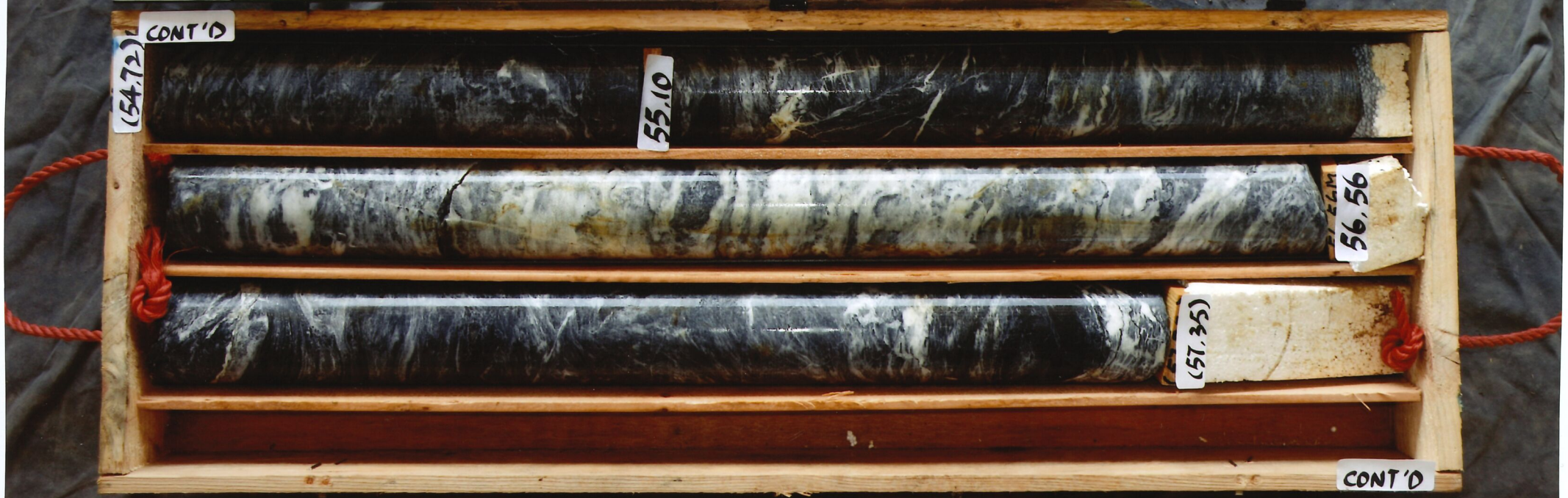
Hole No.: ADH11

Box No.: 9 of 18

Depth : (54.72) m to (57.35) m

Date of Photograph : 22-02-2017

0.00m 1.00m



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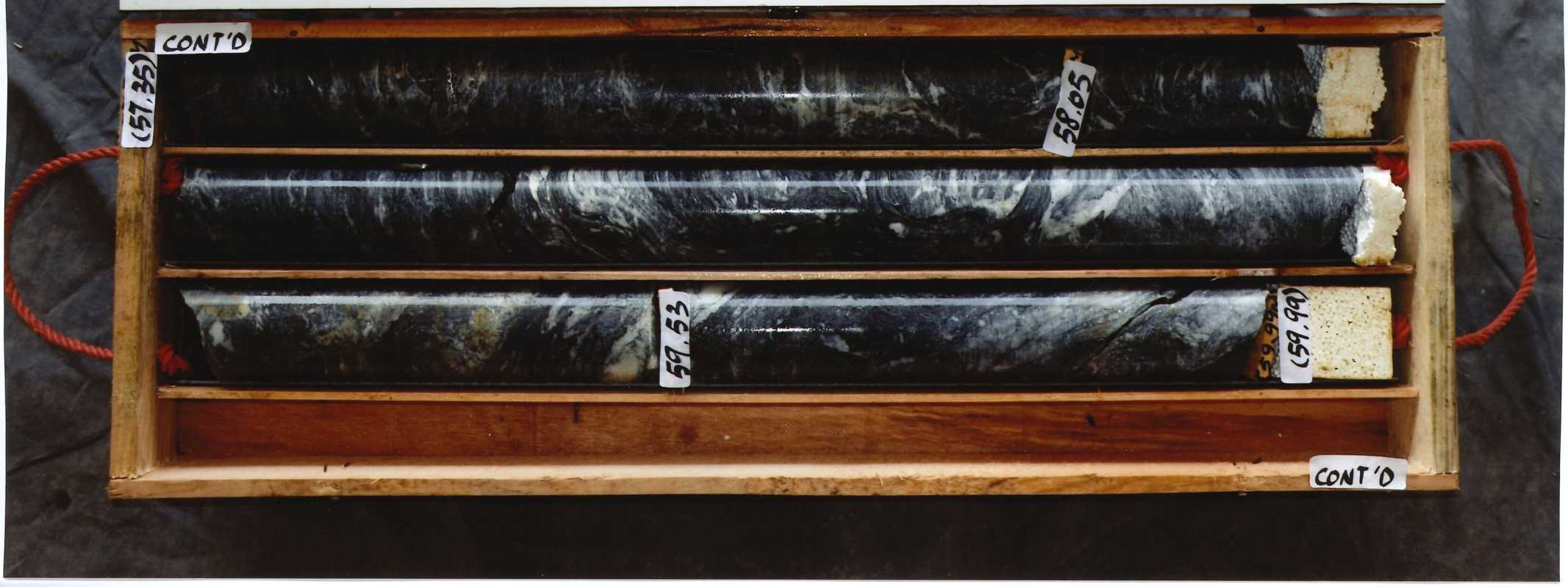
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH11

Box No.: 10 of 18

Depth : (57.35) m to (59.99) m

Date of Photograph : 22-02-2017



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Task Order No. GE/2015/29.8

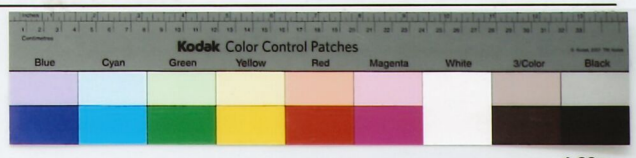
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH11

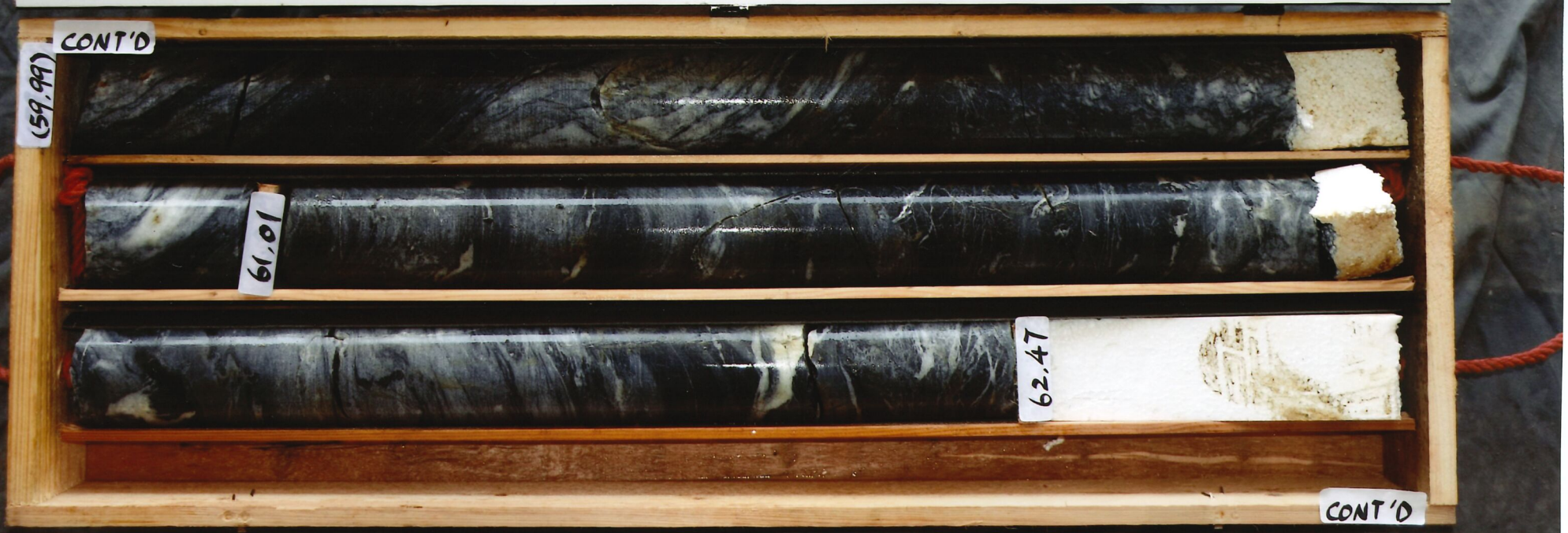
Box No.: 11 of 18

Depth : (59.99) m to 62.47 m

Date of Photograph : 22-02-2017



0.00m 1.00m



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Task Order No. GE/2015/29.8

Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

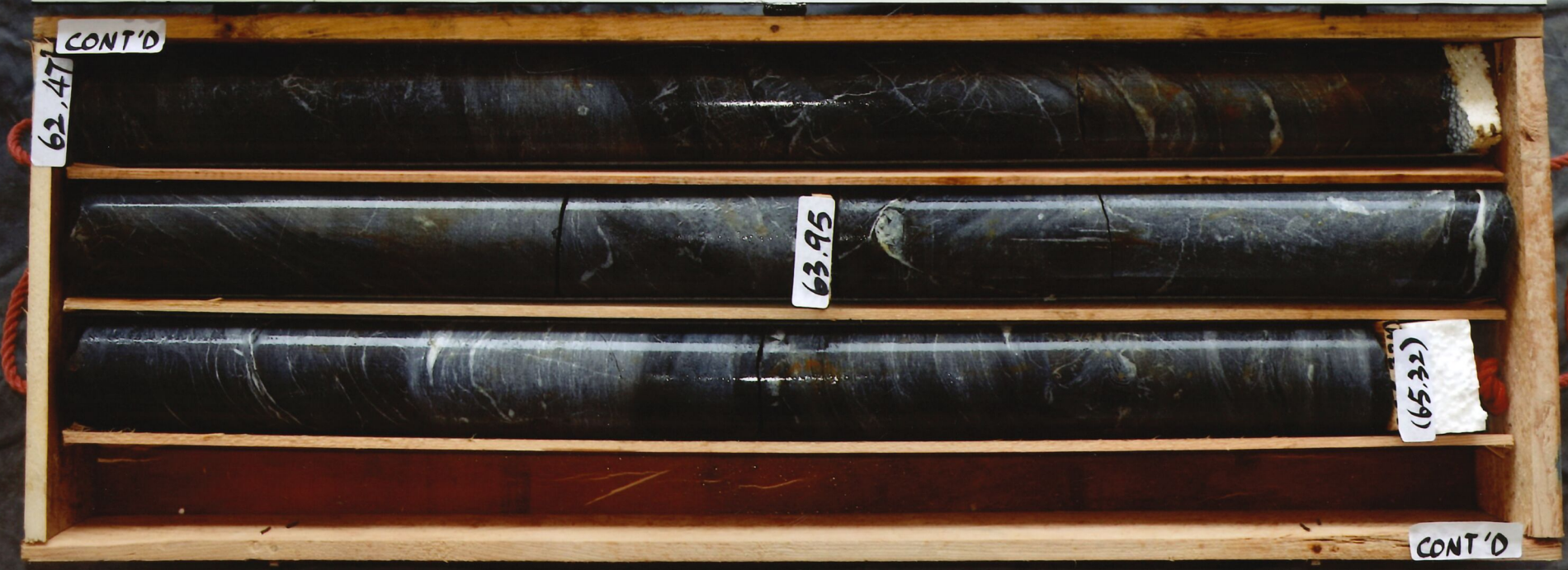
Hole No.: ADH11

Box No.: 12 of 18

Depth : 62.47 m to (65.32) m

Date of Photograph : 22-02-2017

0.00m 1.00m



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Task Order No.: GE/2015/29.8

**Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long
Town connecting with Long Ping Station - IDC**

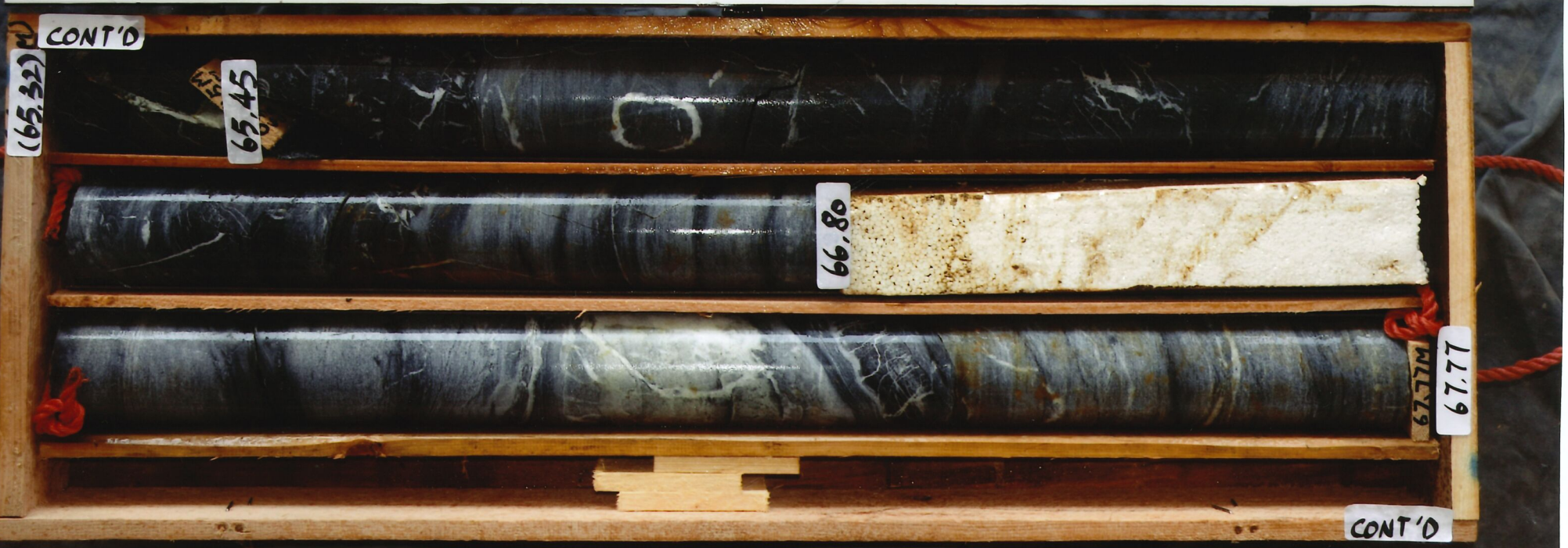
Hole No.: ADH11

Box No.: 13 of 18

Depth : (65.32) m to 67.77 m

Date of Photograph : 22-02-2017

0.00m 1.00m



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Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

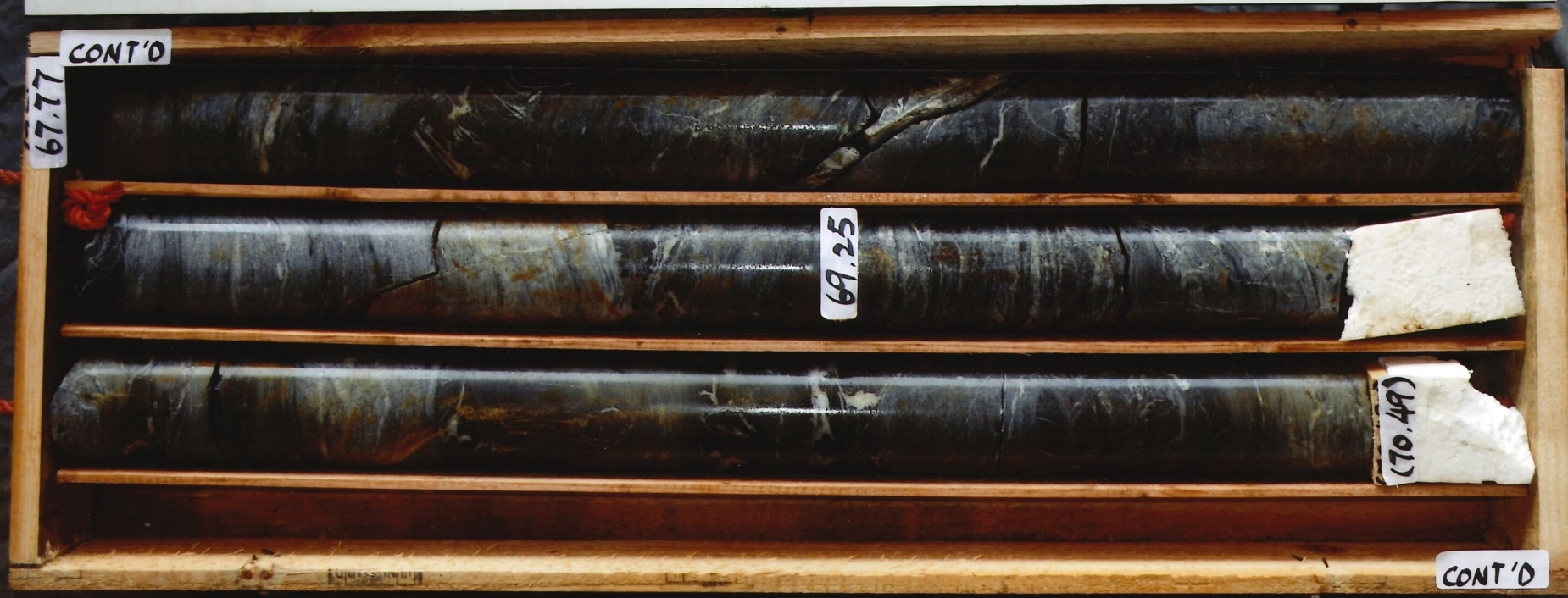
Hole No.: ADH11

Box No.: 14 of 18

Depth : 67.77 m to (70.49) m

Date of Photograph : 22-02-2017

0.00m 1.00m



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Task Order No. GE/2015/29.8

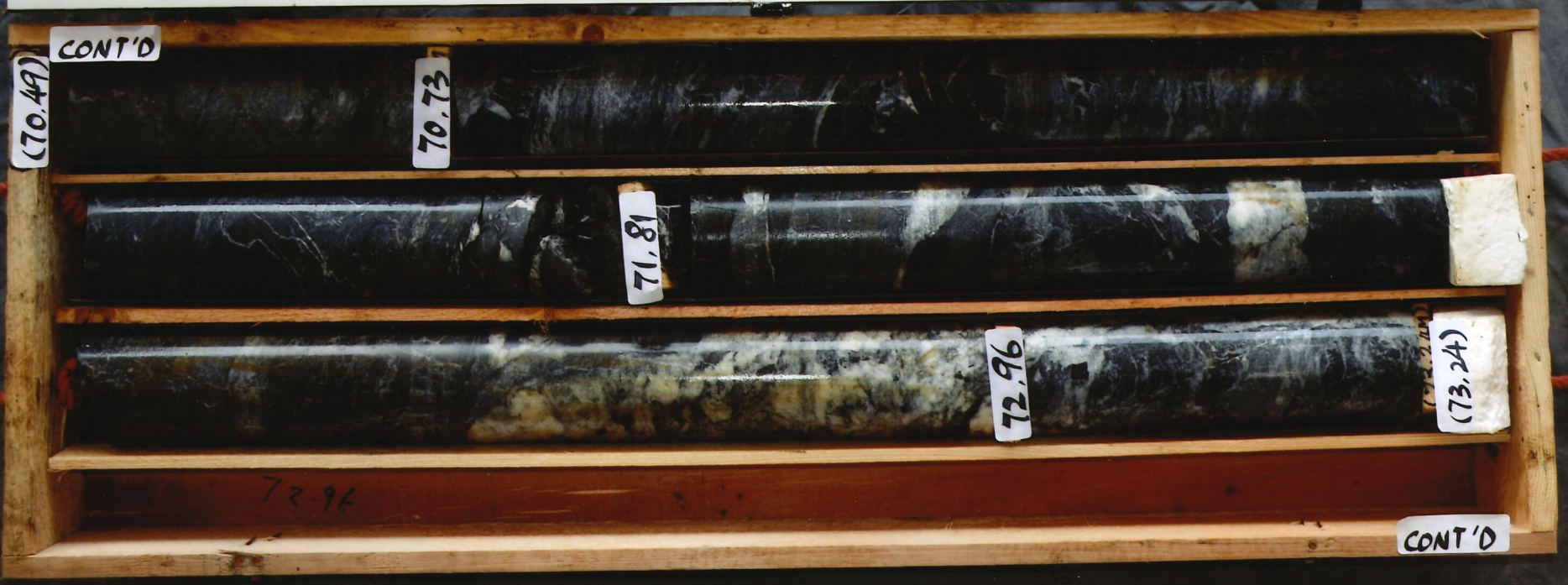
Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

Hole No.: ADH11

Box No.: 15 of 18

Depth : (70.49) m to (73.24) m

Date of Photograph : 22-02-2017



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Contract No.: GE/2015/29

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Task Order No.: GE/2015/29.8

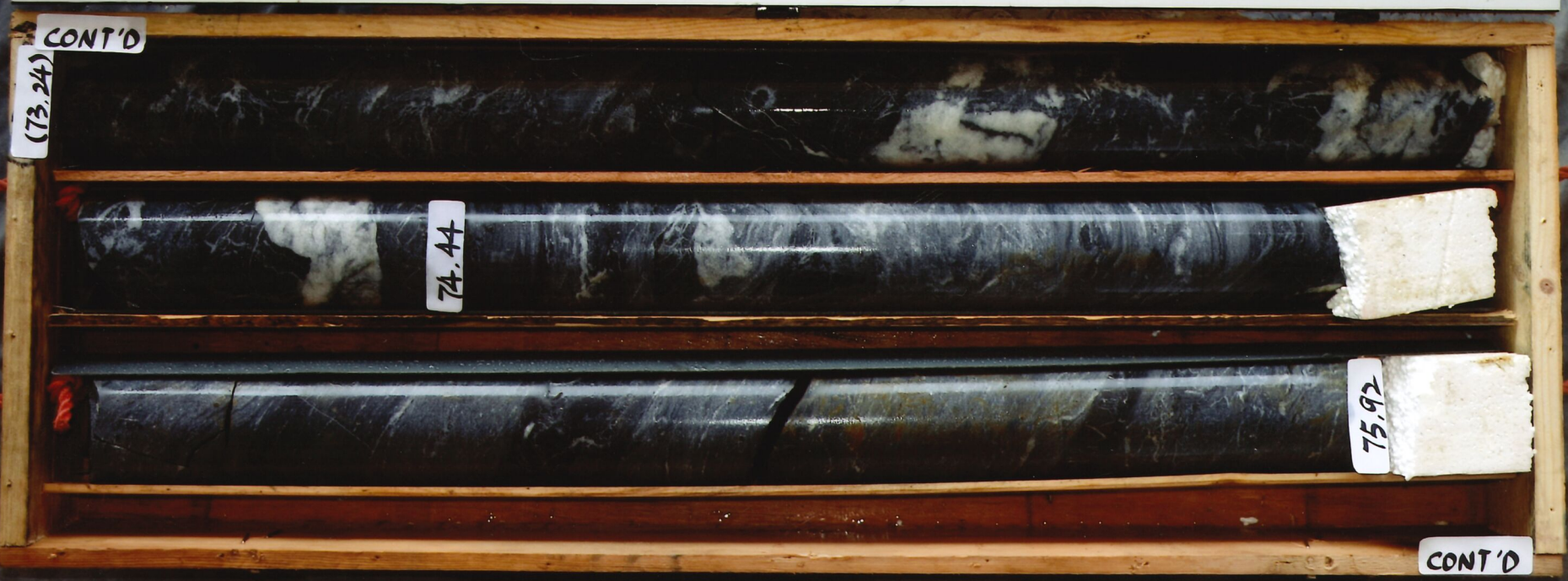
**Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC**

Hole No.: ADH11

Box No.: 16 of 18

Depth : (73.24) m to 75.92 m

Date of Photograph : 22-02-2017



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CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

惠保(香港)有限公司
VIBRO (H.K.) LIMITED
新創建集團成員 Member of NWS Holdings

Contract No.: GE/2015/29

Contract Title : Ground Investigation - New Territories West

Task Order No. GE/2015/29.8

**Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC**

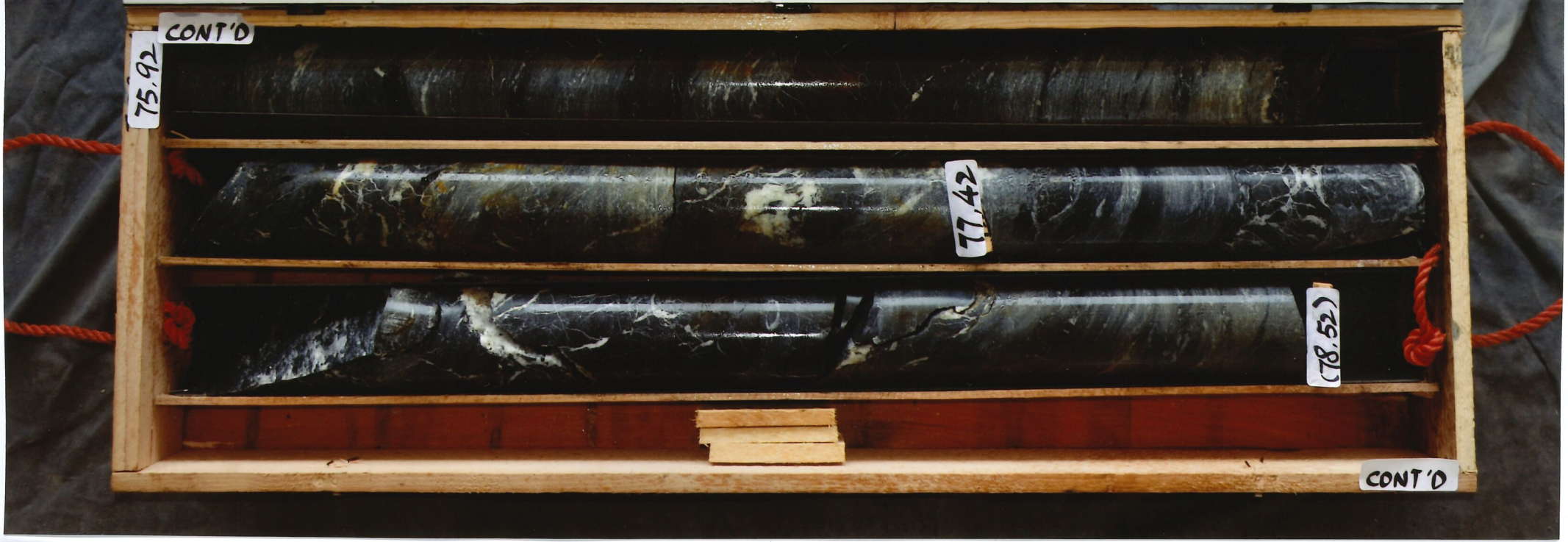
Hole No.: ADH11

Box No.: 17 of 18

Depth : 75.92 m to (78.52) m

Date of Photograph : 22-02-2017

0.00m 1.00m



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Agreement No. GE 32/2014(HY)
Elevated Pedestrian Corridor in Yuen Long Town connecting with Long Ping Station - IDC

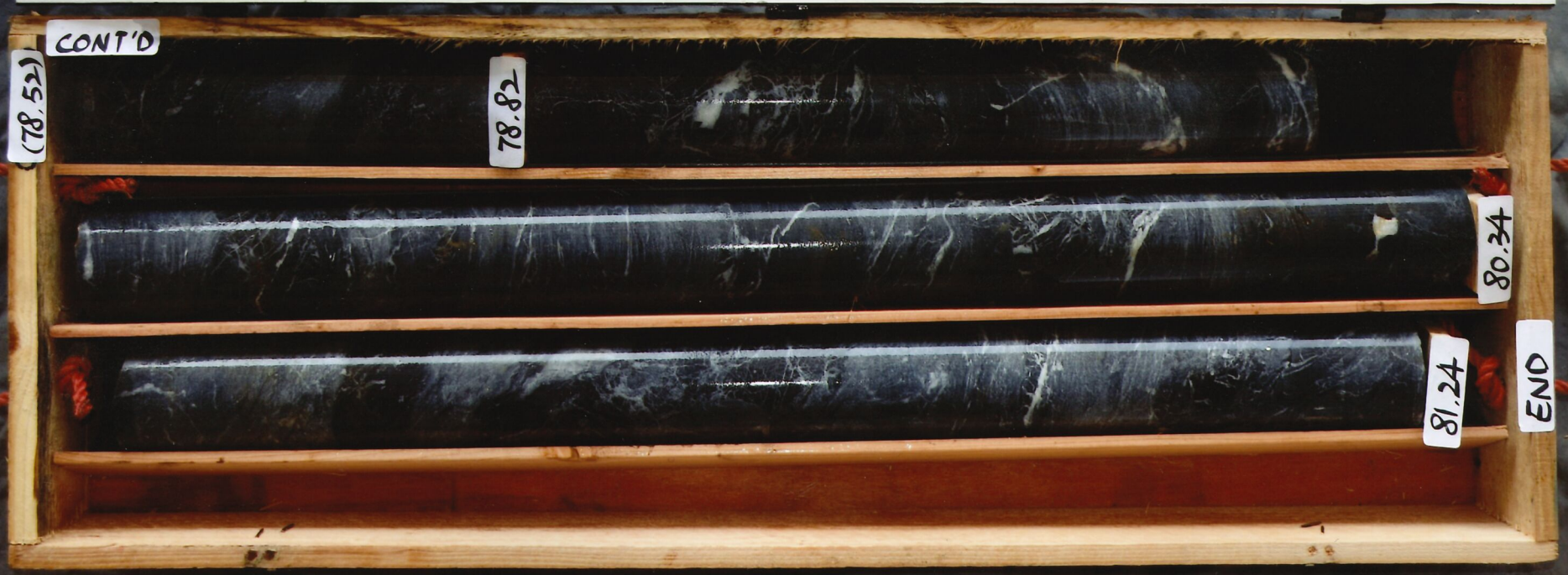
Hole No.: ADH11

Box No.: 18 of 18

Depth : (78.52) m to 81.24 m

Date of Photograph : 22-02-2017

0.00m 1.00m



APPENDIX E

AGS DIGITAL DATA & DIGITAL IMAGE OF FINAL FIELDWORK REPORT, INDIVIDUAL STATION RECORD & PHOTOGRAPHS