The Sizewell C Project

6.14 Environmental Statement Addendum
Volume 3: Environmental Statement Addendum Appendices
Chapter 2 Main Development Site Appendix 2.13.A
Phase 2 Geo-Environmental Interpretative Report Part 21 of 25

Revision: 2.0

Applicable Regulation: Regulation 5(2)(a)

PINS Reference Number: EN010012

January 2021

Planning Act 2008
Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

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EDF CGN

UNIAXIAL COMPRESSIVE STRENGTH

Preparation in accordance with ASTM D4543-08
Testing in accordance with ISRM 1974-2006

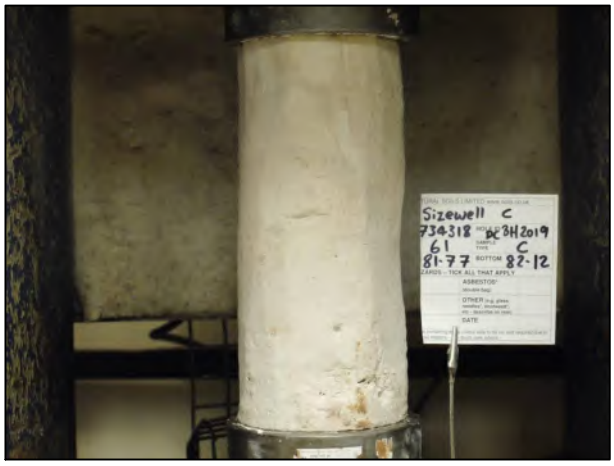
Borehole: **DCBH2019_2** Sample Ref: **61** Sample Type: **C** Depth (m): **81.77**

Bulk Density (Mg/m^3): **1.89** Dry Density (Mg/m^3): **1.44** Moisture Content (%): **31**
Length (mm): **211.08** Diameter (mm): **92.31** Length/Diameter Ratio: **2.29**
Test Duration (mins:secs): **4:46** Stress Rate (kN/min): **6.0** Load at Failure (kN): **11.4**
UCS (MPa): **1.7** Failure Type: **Axial cleavage**

Note: **Axis of loading parallel to core axis**
Description: **White CHALK**
Specimen Preparation: **Specimen was not recored.**
Sample tolerance checks: Straightness: **FAIL**. Flatness: **FAIL**. Perpendicularity: **FAIL**.
Remarks: **Too soft to perform tolerance checks**

Front view (pre-test)

Rear view (pre-test)



Front view (post-test)

Rear view (post-test)

Samples delivered from site to storage facility. Samples are stored in a frost free environment, at temperatures >4°C
Compression machine: Impact CT340 2000kN Auto Compression Machine Serial No. CT340-22. SSL No. 011076

STRUCTURAL SOILS 1a Princess Street Bedminster Bristol BS3 4AG	Compiled By [redacted] **DAISY RICHARDS**	Date **07/03/20**
	Cor **Sizewell C Onshore GI Phase 2 2019**	Job No **734318**

GINT_LIBRARY_V8_07.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | GrfcText L - UCS STRESS CONTROL - A4P | 734318_SIZEWELL C ONSHORE GI 2019.GPJ - v8_07
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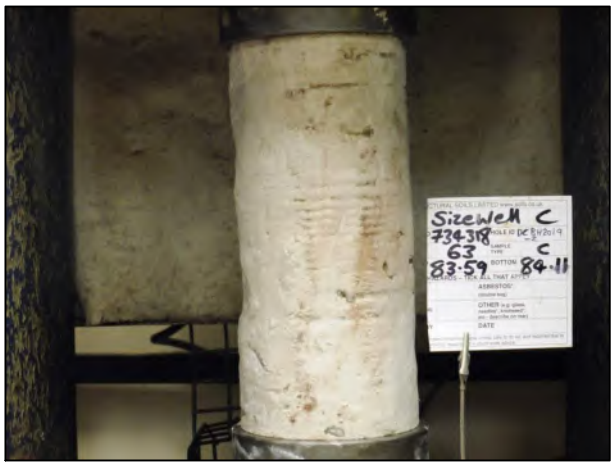
UNIAXIAL COMPRESSIVE STRENGTH

Preparation in accordance with ASTM D4543-08
Testing in accordance with ISRM 1974-2006

Borehole: **DCBH2019_2** Sample Ref: **63** Sample Type: **C** Depth (m): **83.59**

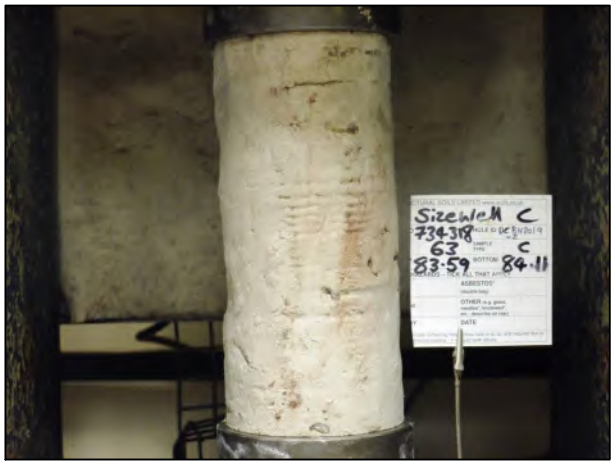
Bulk Density (Mg/m^3): **1.96** Dry Density (Mg/m^3): **1.53** Moisture Content (%): **28**
Length (mm): **213.19** Diameter (mm): **98.37** Length/Diameter Ratio: **2.17**
Test Duration (mins:secs): **4:49** Stress Rate (kN/min): **6.0** Load at Failure (kN): **11.7**
UCS (MPa): **1.5** Failure Type: **Axial cleavage**

Note: **Axis of loading parallel to core axis**
Description: **White CHALK**
Specimen Preparation: **Specimen was not recored.**
Sample tolerance checks: Straightness: **FAIL**. Flatness: **FAIL**. Perpendicularity: **FAIL**.
Remarks: **Too soft to perform tolerance checks**



Front view (pre-test)

Rear view (pre-test)



Front view (post-test)

Rear view (post-test)

Samples delivered from site to storage facility. Samples are stored in a frost free environment, at temperatures >4°C
Compression machine: Impact CT340 2000kN Auto Compression Machine Serial No. CT340-22. SSL No. 011076

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1a Princess Street
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BS3 4AG

Compiled By		Date
[redacted]	FRANCESCA BENNETT	07/03/20

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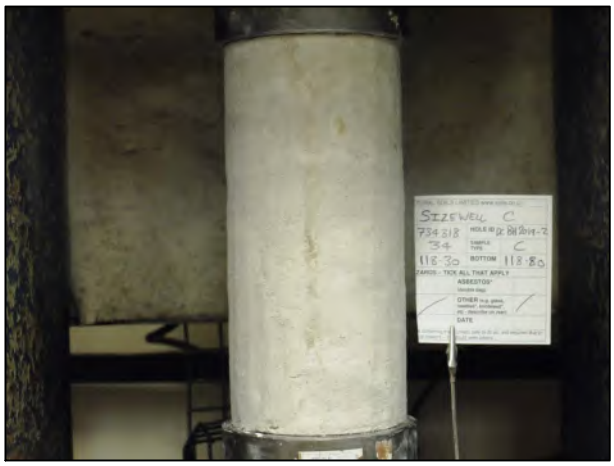
UNIAXIAL COMPRESSIVE STRENGTH

Preparation in accordance with ASTM D4543-08
Testing in accordance with ISRM 1974-2006

Borehole: **DCBH2019_2** Sample Ref: **74** Sample Type: **C** Depth (m): **118.30**

Bulk Density (Mg/m^3): **1.98** Dry Density (Mg/m^3): **1.56** Moisture Content (%): **27**
Length (mm): **211.96** Diameter (mm): **99.26** Length/Diameter Ratio: **2.14**
Test Duration (mins:secs): **5:49** Stress Rate (kN/min): **6.0** Load at Failure (kN): **13.5**
UCS (MPa): **1.7** Failure Type: **Axial cleavage**

Note: **Axis of loading parallel to core axis**
Description: **White CHALK**
Specimen Preparation: **Specimen was not recored.**
Sample tolerance checks: Straightness: **FAIL**. Flatness: **FAIL**. Perpendicularity: **FAIL**.
Remarks: **Too soft to perform tolerance checks**



Front view (pre-test)

Rear view (pre-test)

Front view (post-test)

Rear view (post-test)

Samples delivered from site to storage facility. Samples are stored in a frost free environment, at temperatures >4°C
Compression machine: Impact CT340 2000kN Auto Compression Machine Serial No. CT340-22. SSL No. 011076

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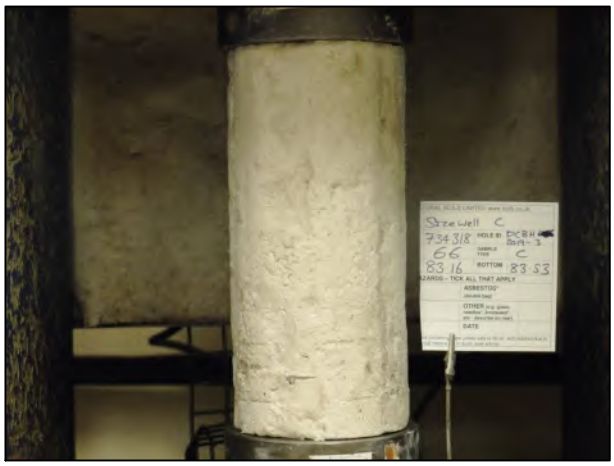
UNIAXIAL COMPRESSIVE STRENGTH

Preparation in accordance with ASTM D4543-08
Testing in accordance with ISRM 1974-2006

Borehole: **DCBH2019_3** Sample Ref: **66** Sample Type: **C** Depth (m): **83.16**

Bulk Density (Mg/m^3): **1.92** Dry Density (Mg/m^3): **1.47** Moisture Content (%): **30**
Length (mm): **211.21** Diameter (mm): **99.06** Length/Diameter Ratio: **2.13**
Test Duration (mins:secs): **5:16** Stress Rate (kN/min): **6.0** Load at Failure (kN): **7.4**
UCS (MPa): **1.0** Failure Type: **Axial cleavage**

Note: **Axis of loading parallel to core axis**
Description: **White CHALK**
Specimen Preparation: **Specimen was not recored.**
Sample tolerance checks: Straightness: **FAIL**. Flatness: **FAIL**. Perpendicularity: **FAIL**.
Remarks: **Too soft to perform tolerance checks**



Front view (pre-test)

Rear view (pre-test)

Front view (post-test)

Rear view (post-test)

Samples delivered from site to storage facility. Samples are stored in a frost free environment, at temperatures >4°C
Compression machine: Impact CT340 2000kN Auto Compression Machine Serial No. CT340-22. SSL No. 011076

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	Co: Sizewell C Onshore GI Phase 2 2019	Job No: 734318

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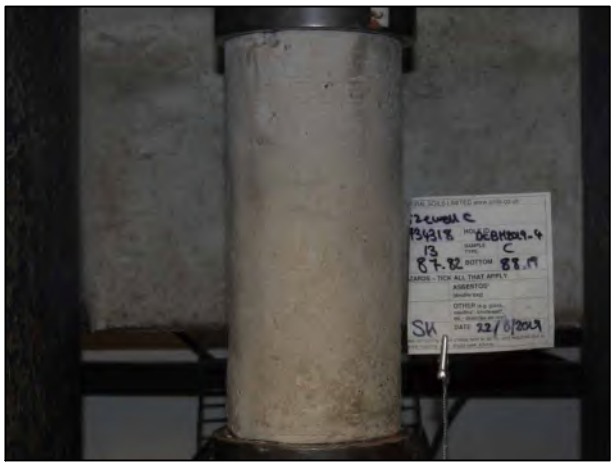
UNIAXIAL COMPRESSIVE STRENGTH

Preparation in accordance with ASTM D4543-08
Testing in accordance with ISRM 1974-2006

Borehole: **DCBH2019_4** Sample Ref: **13** Sample Type: **C** Depth (m): **87.82**

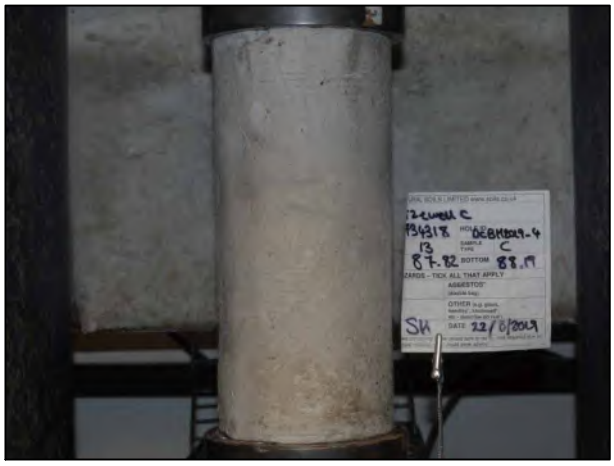
Bulk Density (Mg/m^3): **1.92** Dry Density (Mg/m^3): **1.47** Moisture Content (%): **31**
Length (mm): **210.60** Diameter (mm): **95.29** Length/Diameter Ratio: **2.21**
Test Duration (mins:secs): **4:49** Stress Rate (kN/min): **6.0** Load at Failure (kN): **11.9**
UCS (MPa): **1.7** Failure Type: **Axial cleavage**

Note: **Axis of loading parallel to core axis**
Description: **White CHALK**
Specimen Preparation: **Specimen was not recored.**
Sample tolerance checks: Straightness: **FAIL**. Flatness: **FAIL**. Perpendicularity: **FAIL**.
Remarks: **Too soft to perform tolerance checks**



Front view (pre-test)

Rear view (pre-test)



Front view (post-test)

Rear view (post-test)

Samples delivered from site to storage facility. Samples are stored in a frost free environment, at temperatures >4°C
Compression machine: Impact CT340 2000kN Auto Compression Machine Serial No. CT340-22. SSL No. 011076

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Bristol
BS3 4AG

Compiled By	Date
[redacted] CONNEL MCLAUGHLIN	23/04/20

Contract	Job No
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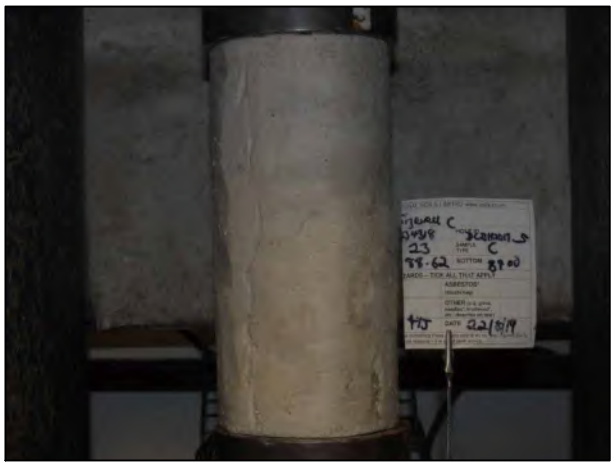
UNIAXIAL COMPRESSIVE STRENGTH

Preparation in accordance with ASTM D4543-08
Testing in accordance with ISRM 1974-2006

Borehole: **DCBH2019_5** Sample Ref: **23** Sample Type: **C** Depth (m): **88.62**

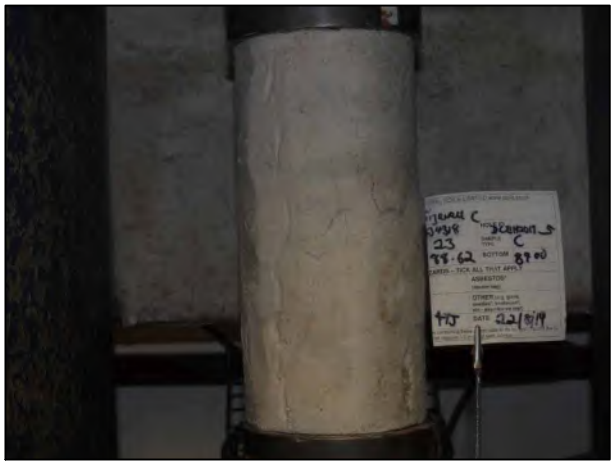
Bulk Density (Mg/m^3): **1.95** Dry Density (Mg/m^3): **1.51** Moisture Content (%): **29**
Length (mm): **210.94** Diameter (mm): **99.39** Length/Diameter Ratio: **2.12**
Test Duration (mins:secs): **5:36** Stress Rate (kN/min): **6.0** Load at Failure (kN): **10.3**
UCS (MPa): **1.3** Failure Type: **Axial cleavage**

Note: **Axis of loading parallel to core axis**
Description: **White CHALK**
Specimen Preparation: **Specimen was not recored.**
Sample tolerance checks: Straightness: **FAIL**. Flatness: **FAIL**. Perpendicularity: **FAIL**.
Remarks: **Too soft to perform tolerance checks**



Front view (pre-test)

Rear view (pre-test)



Front view (post-test)

Rear view (post-test)

Samples delivered from site to storage facility. Samples are stored in a frost free environment, at temperatures >4°C
Compression machine: Impact CT340 2000kN Auto Compression Machine Serial No. CT340-22. SSL No. 011076

STRUCTURAL SOILS
1a Princess Street
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Bristol
BS3 4AG

Compiled By	Date
[redacted] CONNEL MCLAUGHLIN	23/04/20

Contract: **Sizewell C Onshore GI Phase 2 2019**
Job No: **734318**

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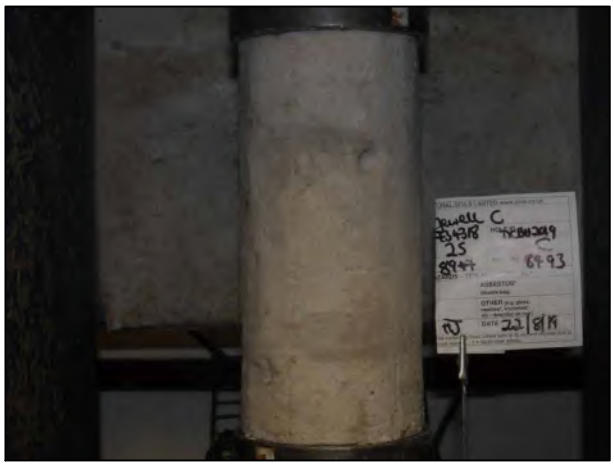
UNIAXIAL COMPRESSIVE STRENGTH

Preparation in accordance with ASTM D4543-08
Testing in accordance with ISRM 1974-2006

Borehole: **DCBH2019_5** Sample Ref: **25** Sample Type: **C** Depth (m): **89.47**

Bulk Density (Mg/m^3): **1.94** Dry Density (Mg/m^3): **1.49** Moisture Content (%): **30**
Length (mm): **211.60** Diameter (mm): **99.24** Length/Diameter Ratio: **2.13**
Test Duration (mins:secs): **5:37** Stress Rate (kN/min): **6.0** Load at Failure (kN): **13.2**
UCS (MPa): **1.7** Failure Type: **Axial cleavage**

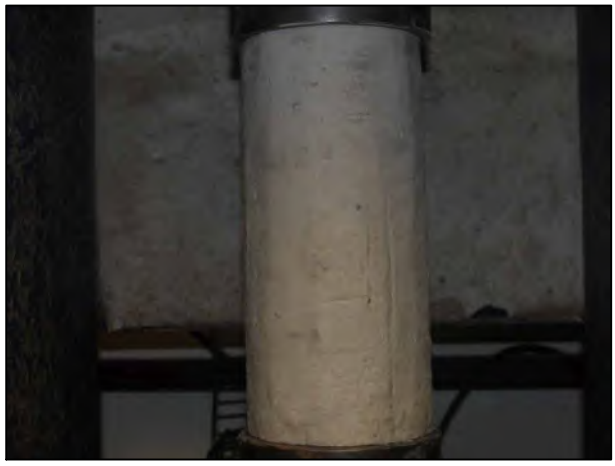
Note: **Axis of loading parallel to core axis**
Description: **White CHALK**
Specimen Preparation: **Specimen was not recored.**
Sample tolerance checks: Straightness: **FAIL**. Flatness: **FAIL**. Perpendicularity: **FAIL**.
Remarks: **Too soft to perform tolerance checks**



Front view (pre-test)

Rear view (pre-test)

Front view (post-test)



Rear view (post-test)

Samples delivered from site to storage facility. Samples are stored in a frost free environment, at temperatures >4°C
Compression machine: Impact CT340 2000kN Auto Compression Machine Serial No. CT340-22. SSL No. 011076

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1a Princess Street
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Bristol
BS3 4AG

Compiled By		Date
[redacted]	CONNEL MCLAUGHLIN	23/04/20

Contract	Job No
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UNIAXIAL COMPRESSIVE STRENGTH

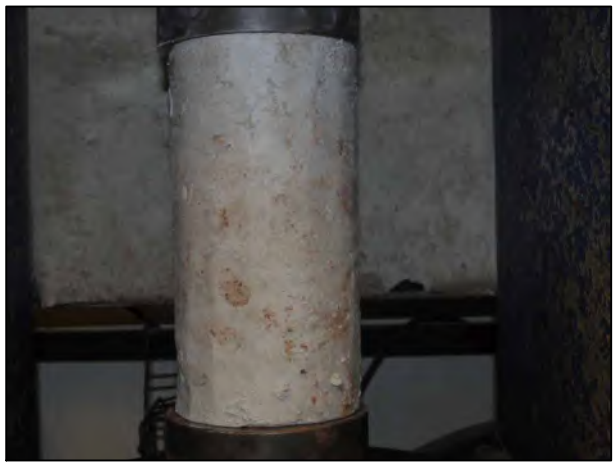
Preparation in accordance with ASTM D4543-08
Testing in accordance with ISRM 1974-2006

Borehole: **DCBH2019_5** Sample Ref: **26** Sample Type: **C** Depth (m): **94.59**

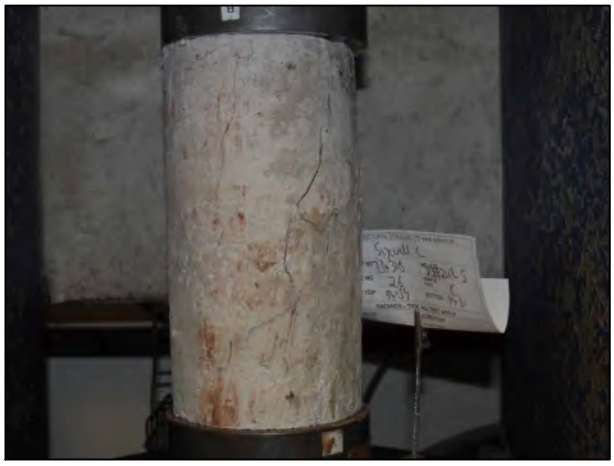
Bulk Density (Mg/m^3): **2.00** Dry Density (Mg/m^3): **1.55** Moisture Content (%): **29**
Length (mm): **193.64** Diameter (mm): **98.92** Length/Diameter Ratio: **1.96**
Test Duration (mins:secs): **1:57** Stress Rate (kN/min): **6.0** Load at Failure (kN): **11.4**
UCS (MPa): **1.5** Failure Type: **Axial cleavage**

Note: **Axis of loading parallel to core axis**
Description: **White CHALK**
Specimen Preparation: **Specimen was not recored.**
Sample tolerance checks: Straightness: **FAIL**. Flatness: **FAIL**. Perpendicularity: **FAIL**.
Remarks: **Too soft to perform tolerance checks. Non-standard length/diameter ratio**

Front view (pre-test)



Rear view (pre-test)



Front view (post-test)

Rear view (post-test)

Samples delivered from site to storage facility. Samples are stored in a frost free environment, at temperatures >4°C
Compression machine: Impact CT340 2000kN Auto Compression Machine Serial No. CT340-22. SSL No. 011076

STRUCTURAL SOILS
1a Princess Street
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Compiled By	Date
CONNEL MCLAUGHLIN	23/04/20

Contract [redacted]
Sizewell C Onshore GI Phase 2 2019

Job No
734318

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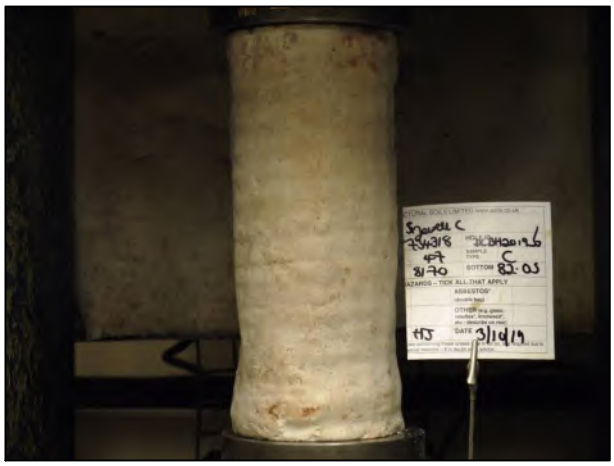
UNIAXIAL COMPRESSIVE STRENGTH

Preparation in accordance with ASTM D4543-08
Testing in accordance with ISRM 1974-2006

Borehole: **DCBH2019_6** Sample Ref: **47** Sample Type: **C** Depth (m): **81.70**

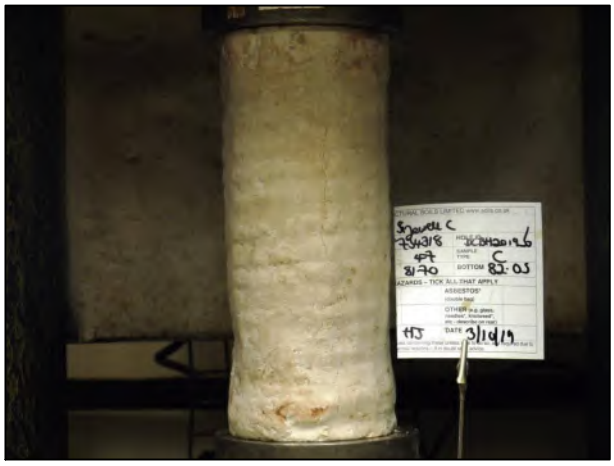
Bulk Density (Mg/m^3): **1.88** Dry Density (Mg/m^3): **1.43** Moisture Content (%): **32**
Length (mm): **214.48** Diameter (mm): **89.86** Length/Diameter Ratio: **2.39**
Test Duration (mins:secs): **5:08** Stress Rate (kN/min): **6.0** Load at Failure (kN): **12.0**
UCS (MPa): **1.9** Failure Type: **Axial cleavage**

Note: **Axis of loading parallel to core axis**
Description: **White CHALK**
Specimen Preparation: **Specimen was not recored.**
Sample tolerance checks: Straightness: **FAIL**. Flatness: **FAIL**. Perpendicularity: **FAIL**.
Remarks: **Too soft to perform tolerance checks**



Front view (pre-test)

Rear view (pre-test)



Front view (post-test)

Rear view (post-test)

Samples delivered from site to storage facility. Samples are stored in a frost free environment, at temperatures >4°C
Compression machine: Impact CT340 2000kN Auto Compression Machine Serial No. CT340-22. SSL No. 011076

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1a Princess Street
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Compiled By	Date
[redacted] FRANCESCA BENNETT	07/03/20

Contract	Job No
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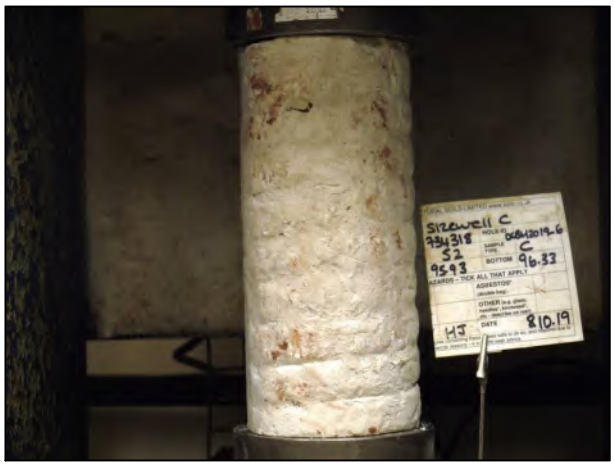
UNIAXIAL COMPRESSIVE STRENGTH

Preparation in accordance with ASTM D4543-08
Testing in accordance with ISRM 1974-2006

Borehole: **DCBH2019_6** Sample Ref: **52** Sample Type: **C** Depth (m): **95.93**

Bulk Density (Mg/m^3): **1.97** Dry Density (Mg/m^3): **1.53** Moisture Content (%): **29**
Length (mm): **208.84** Diameter (mm): **95.77** Length/Diameter Ratio: **2.18**
Test Duration (mins:secs): **5:30** Stress Rate (kN/min): **6.0** Load at Failure (kN): **10.2**
UCS (MPa): **1.4** Failure Type: **Axial cleavage**

Note: **Axis of loading parallel to core axis**
Description: **White CHALK**
Specimen Preparation: **Specimen was not recored.**
Sample tolerance checks: Straightness: **FAIL**. Flatness: **FAIL**. Perpendicularity: **FAIL**.
Remarks: **Too soft to perform tolerance checks**



Front view (pre-test)

Rear view (pre-test)

Front view (post-test)

Rear view (post-test)

Samples delivered from site to storage facility. Samples are stored in a frost free environment, at temperatures >4°C
Compression machine: Impact CT340 2000kN Auto Compression Machine Serial No. CT340-22. SSL No. 011076

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Compiled By	Date
[redacted] FRANCESCA BENNETT	07/03/20

Contract	Job No
Sizewell C Onshore GI Phase 2 2019	734318

GINT_LIBRARY_V8_07.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | GrfcText L - UCS STRESS CONTROL - A4P | 734318_SIZEWELL C ONSHORE GI 2019.GPJ - v8_07
Structural Soils Ltd, Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 07/03/20 - 08:25 | AF3 |

SUMMARY OF MEASUREMENT OF SWELLING PRESSURE TESTS

In accordance with clause 4.3 of BS1377:Part 5:1990

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Moisture Content %	Bulk Density Mg/m^3	Dry Density Mg/m^3	Voids Ratio	Particle Density (assumed or measured) Mg/m^3	Diameter mm	Height mm	Swelling Pressure kPa	Description of Sample	Lab location
DCBH2019_5	16	C	51.58	31	1.93	1.47	0.7992	2.65_a	74.91	19.01	56	Greyish brown slightly sandy CLAY	**B**

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)

Note: X_a = assumed particle density, X_m = measured particle density.

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Compiled By	Date	Contract Ref:
[redacted] **CONNEL MCLAUGHLIN**	**07.03.20**	**734318**

Contract: **Sizewell C Onshore GI Phase 2 2019**

SUMMARY OF WATER CONTENT TESTS

In accordance with BS EN ISO 17892-1 : 2014

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Water Content (%)	Drying Temperature (degC)	Description	Lab location
CH2019_R2	33	C	61.00	20.1	105	Yellowish brown silty/clayey SAND	B
CH2019_R2	34	C	62.90	20.1	105	Yellowish brown mottled grey slightly gravelly silty/clayey SAND	B
CH2019_R2	45	C	71.50	42.9	105	Dark grey silty CLAY	B
DCBH2019_2	1	C	10.05	16.5	105	Brown slightly gravelly slightly silty/clayey SAND	B
DCBH2019_2	3	C	11.55	12.6	105	Brown slightly silty SAND	B
DCBH2019_2	8	C	15.30	16.4	105	Light brown slightly gravelly slightly silty/clayey SAND	B
DCBH2019_2	10	C	16.80	22.1	105	Grey silty/clayey SAND	B
DCBH2019_2	14	C	20.55	16.3	105	Brown slightly gravelly slightly silty SAND	B
DCBH2019_2	51	C	65.16	17.6	105	Greyish brown mottled grey silty/clayey SAND	B
DCBH2019_2	52	C	66.30	25.8	105	Grey mottled brown clayey SAND	B
DCBH2019_2	53	C	68.55	20.9	105	Brown mottled grey slightly silty/clayey SAND	B
DCBH2019_2	55	C	71.30	22.6	105	Greyish brown slightly silty/clayey SAND	B
DCBH2019_3	1	C	9.50	21.5	105	Orangish brown mottled grey slightly gravelly silty/clayey SAND	B
DCBH2019_3	2	C	11.00	15.4	105	Yellowish brown mottled grey silty SAND	B
DCBH2019_3	4	C	13.25	20.2	105	Yellowish brown mottled grey slightly silty/clayey SAND	B
DCBH2019_3	5	C	14.00	27.6	105	Brown slightly silty SAND	B
DCBH2019_3	7	C	16.25	20.2	105	Grey mottled brown slightly gravelly silty/clayey SAND	B
DCBH2019_3	9	C	19.25	15.1	105	Brown slightly gravelly slightly silty SAND	B

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)

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Compiled By: [redacted] **FRANCESCA BENNETT**

Date: **29.05.20**

Contract: **Sizewell C Onshore GI Phase 2 2019**

Contract Ref: **734318**

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SUMMARY OF WATER CONTENT TESTS

In accordance with BS EN ISO 17892-1 : 2014

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Water Content (%)	Drying Temperature (degC)	Description	Lab location
DCBH2019_3	10	C	20.00	14.7	105	Brown mottled grey slightly gravelly slightly silty/clayey SAND	B
DCBH2019_3	13	C	23.00	10.4	105	Greenish grey slightly gravelly slightly silty/clayey SAND	B
DCBH2019_3	16	C	29.00	17.2	105	Brown mottled grey gravelly silty/clayey SAND	B
DCBH2019_3	19	C	31.25	20.8	105	Grey mottled brown slightly gravelly very silty/clayey SAND	B
DCBH2019_3	25	C	40.25	16.5	105	Grey mottled brown gravelly silty/clayey SAND	B
DCBH2019_3	27	C	41.75	20.8	105	Brown mottled grey silty SAND	B
DCBH2019_3	6	D	42.50	20.8	105	Grey slightly gravelly silty/clayey SAND	B
DCBH2019_3	29	C	44.00	18.7	105	Dark grey mottled brown gravelly silty/clayey SAND	B
DCBH2019_3	7	D	46.95	34.9	105	Dark brownish grey slightly sandy CLAY	B
DCBH2019_3	11	D	51.50	59.2	105	Dark brownish grey slightly sandy CLAY	B
DCBH2019_3	32	C	53.69	39.3	105	Brown silty CLAY	B
DCBH2019_3	35A	C	56.83	28.9	105	Brown slightly sandy silty CLAY	B
DCBH2019_3	41	C	62.82	22.4	105	Brown mottled grey slightly sandy silty CLAY	B
DCBH2019_3	43	C	65.96	25.3	105	Dark brown very clayey SAND	B
DCBH2019_3	47	C	68.72	26.8	105	Brown slightly gravelly slightly sandy CLAY	B
DCBH2019_4	1	C	14.40	22.0	105	Brown mottled grey silty/clayey SAND	B
DCBH2019_4	2	C	15.20	11.5	105	Dark yellowish brown slightly gravelly clayey SAND	B
DCBH2019_4	3	C	21.90	9.3	105	Yellowish brown slightly gravelly slightly silty/clayey SAND	B

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)

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Compiled By: [redacted] **FRANCESCA BENNETT**

Date: **29.05.20**

Contract Ref: **734318**

Contract: **Sizewell C Onshore GI Phase 2 2019**

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SUMMARY OF WATER CONTENT TESTS

In accordance with BS EN ISO 17892-1 : 2014

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Water Content (%)	Drying Temperature (degC)	Description	Lab location
DCBH2019_4	4	C	35.20	18.7	105	Brown mottled grey gravelly slightly silty SAND	B
DCBH2019_4	8	C	60.70	18.0	105	Brownish grey silty SAND	B
DCBH2019_4	9	C	68.95	23.5	105	Dark grey mottled brown silty/clayey SAND	B
DCBH2019_5	1	C	15.60	21.6	105	Grey mottled brown slightly gravelly silty/clayey SAND	B
DCBH2019_5	2	C	16.30	17.8	105	Brown mottled grey slightly gravelly slightly silty/clayey SAND	B
DCBH2019_5	3	C	17.00	17.8	105	Grey mottled brown silty SAND with occasional shell fragments	B
DCBH2019_5	5	C	20.50	14.8	105	Greyish brown slightly gravelly slightly silty SAND	B
DCBH2019_5	6	C	21.10	18.0	105	Brown mottled grey slightly gravelly slightly silty SAND	B
DCBH2019_5	8	C	26.00	22.4	105	Dark grey slightly silty SAND	B
DCBH2019_5	9	C	29.95	19.9	105	Grey silty SAND	B
DCBH2019_5	10	C	34.45	20.7	105	Dark grey silty SAND	B
DCBH2019_5	11	C	38.95	19.6	105	Grey slightly gravelly slightly silty/clayey SAND	B
DCBH2019_5	13	C	43.45	10.8	105	Grey silty SAND with occasional shell fragments	B
DCBH2019_5	19	C	64.90	25.2	105	Brownish grey silty/clayey SAND	B
DCBH2019_6	1	C	14.20	11.8	105	Brown slightly gravelly slightly silty/clayey SAND	B
DCBH2019_6	2	C	15.70	20.9	105	Grey slightly silty SAND	B
DCBH2019_6	3	C	16.45	14.7	105	Greyish brown slightly gravelly slightly silty SAND	B
DCBH2019_6	4	C	17.20	15.6	105	Dark grey slightly gravelly slightly silty/clayey SAND	B

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)

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Sizewell C Onshore GI Phase 2 2019

Contract Ref: **734318**

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SUMMARY OF WATER CONTENT TESTS

In accordance with BS EN ISO 17892-1 : 2014

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Water Content (%)	Drying Temperature (degC)	Description	Lab location
DCBH2019_6	6	C	20.20	18.9	105	Greyish brown slightly gravelly slightly silty SAND	B
DCBH2019_6	8	C	21.70	13.8	105	Brown silty SAND	B
DCBH2019_6	9	C	22.45	13.3	105	Dark brown gravelly silty/clayey SAND	B
DCBH2019_6	10	C	28.45	19.5	105	Dark grey silty/clayey SAND	B
DCBH2019_6	11	C	29.20	16.5	105	Brown silty SAND	B
DCBH2019_6	14	C	34.45	15.4	105	Dark grey gravelly slightly silty/clayey SAND	B
DCBH2019_6	15	C	35.20	12.8	105	Brown slightly silty SAND	B
DCBH2019_6	16	C	37.45	18.4	105	Dark grey slightly gravelly slightly silty/clayey SAND	B
DCBH2019_6	17	C	46.70	44.7	105	Greyish brown slightly sandy silty CLAY	B
DCBH2019_6	20	C	50.20	49.6	105	Dark grey silty CLAY	B
DCBH2019_6	22	C	53.51	34.5	105	Brown slightly sandy CLAY	B
DCBH2019_6	26	C	55.70	31.1	105	Brown slightly sandy silty CLAY	B
DCBH2019_6	16	D	58.45	22.3	105	Brownish grey clayey SAND	B
DCBH2019_6	18	D	69.60	34.2	105	Bluish grey sandy silty CLAY	B
DCBH2019_6	41	C	73.79	41.2	105	Dark grey silty CLAY	B
DCBH2019_6	43	C	76.37	13.8	105	Dark grey slightly sandy silty CLAY	B
DCBH2019_7	1	C	16.75	25.1	105	Grey slightly silty SAND	B
DCBH2019_7	2	C	18.25	14.5	105	Brown SAND	B

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)

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Sizewell C Onshore GI Phase 2 2019

Contract Ref: **734318**

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SUMMARY OF WATER CONTENT TESTS

In accordance with BS EN ISO 17892-1 : 2014

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Water Content (%)	Drying Temperature (degC)	Description	Lab location
DCBH2019_7	3	C	19.00	11.7	105	Brown mottled grey slightly silty SAND	B
DCBH2019_7	7	C	23.50	15.0	105	Grey mottled yellowish brown slightly gravelly slightly silty/clayey SAND	B
DCBH2019_7	5	D	28.75	18.4	105	Grey slightly gravelly silty/clayey SAND	B
DCBH2019_7	14	C	33.75	18.3	105	Grey slightly gravelly silty/clayey SAND	B
DCBH2019_7	13	D	40.75	21.6	105	Dark grey slightly gravelly slightly silty SAND	B
DCBH2019_7	20	C	42.75	18.2	105	Dark grey gravelly silty/clayey SAND	B
DCBH2019_7	32	C	59.86	23.4	105	Brown slightly sandy silty CLAY	B
DCBH2019_7	34	C	60.80	24.4	105	Light brown sandy SILT	B
DCBH2019_7	35	C	62.60	24.2	105	Greyish brown mottled grey clayey SAND	B
DCBH2019_8	3	C	17.00	21.4	105	Brown mottled grey slightly gravelly slightly silty/clayey SAND	B
DCBH2019_8	8	C	22.25	14.8	105	Orangish brown slightly gravelly slightly silty/clayey SAND	B
DCBH2019_8	12	C	26.75	14.8	105	Brown mottled grey gravelly slightly silty/clayey SAND	B
DCBH2019_8	17	C	31.25	13.1	105	Brown mottled grey gravelly slightly silty SAND	B
DCBH2019_8	22	C	39.50	16.4	105	Greyish brown gravelly slightly silty/clayey SAND	B
Group 1	1	B	-	11.7	105	Brown gravelly slightly silty/clayey SAND	C
Group 2	1	B	-	16.3	105	Brown gravelly silty/clayey SAND	C
Group 3	1	B	-	15.2	105	Brown gravelly silty/clayey SAND	C
Group 4	1	B	-	14.5	105	Brown slightly gravelly silty/clayey SAND	C

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)

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Compiled By: [redacted] **FRANCESCA BENNETT**

Date: **29.05.20**

Contract Ref: **734318**

Contract: **Sizewell C Onshore GI Phase 2 2019**

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SUMMARY OF WATER CONTENT TESTS

In accordance with BS EN ISO 17892-1 : 2014

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Water Content (%)	Drying Temperature (degC)	Description	Lab location
Group 5	1	B	-	18.6	105	Brown slightly gravelly silty/clayey SAND	C
Group 6	1	B	-	17.2	105	Brown gravelly silty/clayey SAND	C
MGS2019_A	3	B	0.40	18.3	105	Orangish brown gravelly silty/clayey SAND	C
MGS2019_A	4	B	0.80	18.9	105	Orangish brown gravelly silty/clayey SAND	C
MGS2019_A	5	B	2.80	18.4	105	Orangish brown very gravelly silty/clayey SAND	C
MGS2019_C	5	B	0.30	20.4	105	Orangish brown gravelly silty/clayey SAND	C
MGS2019_C	7	B	1.50	17.6	105	Orangish brown gravelly silty/clayey SAND	C
MGS2019_C	9	LB	2.50	19.6	105	Orangish brown gravelly silty/clayey SAND	C
MGS2019_D	4	B	0.40	4.4	105	Light orangish brown slightly gravelly slightly silty/clayey SAND	C
MGS2019_D	5	B	0.80	7.6	105	Brown very gravelly slightly silty SAND	C
MGS2019_D	6	B	1.80	11.1	105	Dark brown very gravelly SAND	C
MGS2019_D	7	B	2.90	13.2	105	Dark grey very gravelly slightly silty SAND	C
MGS2019_E	1	B	0.00	4.8	105	Orangish brown gravelly slightly silty/clayey SAND with high cobble content	C
MGS2019_E1	3	B	2.00	21.4	105	Dark brown gravelly silty/clayey SAND	C
MGS2019_F	4	B	0.30	15.8	105	Orangish brown gravelly silty/clayey SAND	C
MGS2019_F	6	B	0.90	19.1	105	Brown slightly gravelly silty/clayey SAND	C
MGS2019_F	8	B	1.20	18.6	105	Dark brown slightly gravelly silty/clayey SAND	C
MGS2019_F	10	B	2.00	21.0	105	Dark brown slightly gravelly silty/clayey SAND	C

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)

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[redacted] FRANCESCA BENNETT	29.05.20

Sizewell C Onshore GI Phase 2 2019

Contract Ref: **734318**

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SUMMARY OF WATER CONTENT TESTS

In accordance with BS EN ISO 17892-1 : 2014

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Water Content (%)	Drying Temperature (degC)	Description	Lab location
MGS2019_H	3	B	0.30	15.8	105	Orangish brown slightly gravelly silty/clayey SAND	C
MGS2019_H	5	LB	1.40	17.9	105	Orangish brown gravelly silty/clayey SAND	C
MGS2019_I	3	B	0.05	21.3	105	Dark yellowish brown slightly gravelly silty/clayey SAND	C
MGS2019_I	5	B	0.30	6.5	105	Dark yellowish brown slightly gravelly slightly silty/clayey SAND	C
MGS2019_I	7	B	1.10	10.3	105	Dark yellowish brown slightly gravelly silty/clayey SAND	C
MGS2019_I	9	B	2.00	17.9	105	Dark yellowish brown slightly gravelly slightly silty/clayey SAND	C
MGS2019_J	3	B	0.10	7.7	105	Orangish brown slightly gravelly silty/clayey SAND	C
MGS2019_J	8	D	1.10	19.9	105	Dark orangish brown silty/clayey SAND	C
MGS2019_J	11	B	2.00	19.8	105	Dark orangish brown slightly gravelly silty/clayey SAND	C
MGS2019_J	13	B	3.50	17.7	105	Dark orangish brown slightly gravelly silty/clayey SAND	C
MGS2019_J	16	B	5.00	17.6	105	Dark orangish brown gravelly silty/clayey SAND	C
MGS2019_K	3	B	0.10	4.7	105	Orangish brown very gravelly slightly silty/clayey SAND	C
MGS2019_K	5	B	0.50	7.1	105	Orangish brown gravelly silty/clayey SAND	C
MGS2019_K	7	B	1.20	14.3	105	Orangish brown gravelly silty/clayey SAND	C
MGS2019_K	9	B	2.50	17.0	105	Orangish brown gravelly silty/clayey SAND	C
MGS2019_K	13	B	4.00	8.8	105	Orangish brown gravelly slightly silty/clayey SAND	C
MGS2019_K	15	B	6.00	16.2	105	Orangish brown slightly gravelly silty/clayey SAND	C
MGS2019_K	16	B	6.00	11.9	105	Orangish brown gravelly slightly silty/clayey SAND	C

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)

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Date: **29.05.20**

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Sizewell C Onshore GI Phase 2 2019

Contract Ref: **734318**

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SUMMARY OF WATER CONTENT TESTS

RT08 Water Content of Rock (in accordance with ISRM 2007)

Exploratory Position ID	Sample Ref	Depth (m)	Sample Type	Water Content (%)	Lab	
DCBH2019_2	**62**	**82.23**	**C**	**27.9**	**B**	
DCBH2019_2	**66**	**86.65**	**C**	**29.4**	**B**	
DCBH2019_2	**74**	**118.30**	**C**	**28.7**	**B**	
DCBH2019_3	**67**	**83.53**	**C**	**28.7**	**B**	
DCBH2019_3	**70**	**93.05**	**C**	**29.5**	**B**	
DCBH2019_4	**7**	**59.58**	**C**	**1.7**	**B**	
DCBH2019_4	**10**	**86.79**	**C**	**29.5**	**B**	
DCBH2019_4	**11**	**91.86**	**C**	**29.7**	**B**	
DCBH2019_4	**12**	**101.58**	**C**	**29.2**	**B**	
DCBH2019_5	**24**	**89.02**	**C**	**29.3**	**B**	
DCBH2019_5	**26**	**94.59**	**C**	**28.8**	**B**	
DCBH2019_6	**48**	**82.24**	**C**	**30.5**	**B**	
DCBH2019_6	**53**	**96.33**	**C**	**28.7**	**B**	

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)

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FRANCESCA BENNETT	**23/04/20**

Contract:	Contract Ref:
Sizewell C Onshore GI Phase 2 2019	**734318**

GINT_LIBRARY_V8_07.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | GrfcTbl L - SUMMARY OF ROCK STANDALONE WC - A4P | 734318_SIZEWELL C ONSHORE GI 2019.GPJ - v8_07.
Structural Soils Ltd, Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 23/04/20 - 11:53 | AF3 |

SUMMARY OF CHEMICAL ANALYSES

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Aqueous Extract Sulphate (mg/l SO_4)	pH	Organic Matter Content (%)	Description
DCBH2019_2	4	C	12.30	75	8.21		Greenish grey mottled brown gravelly slightly silty/clayey SAND
DCBH2019_3	1	C	9.50			0.2	Orangish brown mottled grey slightly gravelly silty/clayey SAND
DCBH2019_3	4	C	13.25	54	8.52		Yellowish brown mottled grey slightly silty/clayey SAND
DCBH2019_3	5	C	14.00			1.0	Brown slightly silty SAND
DCBH2019_6	1	C	14.20			0.2	Brown slightly gravelly slightly silty/clayey SAND
DCBH2019_6	2	C	15.70			0.2	Grey slightly silty SAND
DCBH2019_7	1	C	16.75	46	8.74	2.7	Grey slightly silty SAND

NOTES:- Chemical tests were undertaken by Envirolab

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'Exploratory position ID	Sample depth	Sample ref	Sample type	Sample ID	Specimen depth	Specimen ref	Test
CH2019_R2	44.93	21	C		44.930	B1	4-Point
CH2019_R2	44.93	21	C		44.930	B1	Linear Density
CH2019_R2	47.60	22	D		47.600	B1	4-Point
CH2019_R2	48.10	23	D		48.100	B1	4-Point
CH2019_R2	49.80	24	D		49.800	B1	4-Point
CH2019_R2	51.38	22	C		51.380	B1	4-Point
CH2019_R2	51.38	22	C		51.380	B1	Linear Density
CH2019_R2	53.27	23	C		53.270	B1	4-Point
CH2019_R2	53.27	23	C		53.270	B1	Linear Density
CH2019_R2	53.95	25	C		53.950	B1	4-Point
CH2019_R2	53.95	25	C		53.950	B1	Linear Density
CH2019_R2	55.00	27	C		55.000	B1	4-Point
CH2019_R2	55.00	27	C		55.000	B1	Linear Density
CH2019_R2	56.30	29	D		56.300	B1	4-Point
CH2019_R2	57.00	31	C		57.000	B1	4-Point
CH2019_R2	57.00	31	C		57.000	B1	Linear Density
CH2019_R2	61.00	33	C		61.000	B1	Water Content
CH2019_R2	61.00	33	C		61.000	B1	PSD-Sieve
CH2019_R2	61.00	33	C		61.000	B1	Linear Density
CH2019_R2	61.00	33	C		61.000	C1	Methylene Blue
CH2019_R2	62.90	34	C		62.900	B1	Water Content
CH2019_R2	62.90	34	C		62.900	B1	PSD-Sieve
CH2019_R2	62.90	34	C		62.900	B1	Linear Density
CH2019_R2	62.90	34	C		62.900	C1	Methylene Blue
CH2019_R2	65.50	36	C		65.500	B1	4-Point
CH2019_R2	65.50	36	C		65.500	B1	Linear Density
CH2019_R2	67.56	39	C		67.560	B1	4-Point
CH2019_R2	67.56	39	C		67.560	B1	Linear Density
CH2019_R2	69.48	41	C		69.480	B1	4-Point
CH2019_R2	69.48	41	C		69.480	B1	Linear Density
CH2019_R2	70.00	42	C		70.000	B1	4-Point
CH2019_R2	70.00	42	C		70.000	B1	Linear Density
CH2019_R2	71.50	45	C		71.500	B1	Water Content
CH2019_R2	71.50	45	C		71.500	B1	4-Point
CH2019_R2	71.50	45	C		71.500	B1	Linear Density
CH2019_R2	73.00	48	C		73.000	B1	4-Point
CH2019_R2	73.00	48	C		73.000	B1	Linear Density
CH2019_R2	73.81	50	C		73.810	B1	4-Point
CH2019_R2	73.81	50	C		73.810	B1	Linear Density
CH2019_R2	74.77	52	C		74.790	B1	Effective Stress 1
CH2019_R2	74.77	52	C		74.790	B1	Effective Stress 2
CH2019_R2	74.77	52	C		74.790	B1	Effective Stress 3
CH2019_R2	76.19	54	C		76.190	B1	4-Point
CH2019_R2	76.19	54	C		76.190	B1	Linear Density
CH2019_R2	78.24	58	C		78.240	B1	4-Point
CH2019_R2	78.24	58	C		78.240	B1	Linear Density
CH2019_R2	81.13	61	C		81.130	B1	4-Point
CH2019_R2	81.13	61	C		81.130	B1	Linear Density
DCBH2019_2	10.05	1	C		10.050	B1	Water Content
DCBH2019_2	10.05	1	C		10.050	B1	PSD-Sieve

Test	Count
Water Content	122 (+ WC from Atterberg = 232)
1-Point	8
4-Point	102
PSD-Sieve	138
PSD-sed	31
Particle Density	42
Linear Density	97
Suction	2
Max Min Vibrocore	8
Max Min Sand	4
Methylene Blue	81
Consol	19
Swelling Pressure	1
Effective Stress 1	16
Effective Stress 2	16
Effective Stress 3	16
UCS	10
Porosity	13
MC Rock	13
Brazilian Tensile Strength	3

DCBH2019_2	10.05	1	C	10.050 B1	Particle Density
DCBH2019_2	10.05	1	C	10.050 B1	Max Min Vibrocore
DCBH2019_2	10.05	1	C	10.050 C1	Methylene Blue
DCBH2019_2	10.80	2	C	10.800 C1	Methylene Blue
DCBH2019_2	10.80	2	C	10.800 B1	Effective Stress 1
DCBH2019_2	10.80	2	C	10.800 B1	Effective Stress 2
DCBH2019_2	10.80	2	C	10.800 B1	Effective Stress 3
DCBH2019_2	11.55	3	C	11.550 B1	Water Content
DCBH2019_2	11.55	3	C	11.550 C1	Methylene Blue
DCBH2019_2	12.30	4	C	12.300 B1	PSD-Sieve
DCBH2019_2	15.30	8	C	15.300 B1	Water Content
DCBH2019_2	15.30	8	C	15.300 B1	PSD-Sieve
DCBH2019_2	15.30	8	C	15.300 B1	Max Min Vibrocore
DCBH2019_2	15.30	8	C	15.300 C1	Methylene Blue
DCBH2019_2	16.05	9	C	16.050 B1	Effective Stress 1
DCBH2019_2	16.05	9	C	16.050 B1	Effective Stress 2
DCBH2019_2	16.05	9	C	16.050 B1	Effective Stress 3
DCBH2019_2	16.80	10	C	16.800 B2	Water Content
DCBH2019_2	16.80	10	C	16.800 B2	PSD-Sieve
DCBH2019_2	16.80	10	C	16.900 B1	Linear Density
DCBH2019_2	20.55	14	C	20.550 B1	Water Content
DCBH2019_2	20.55	14	C	20.550 B1	PSD-Sieve
DCBH2019_2	20.55	14	C	20.550 B1	Particle Density
DCBH2019_2	20.55	14	C	20.550 B1	Max Min Vibrocore
DCBH2019_2	20.55	14	C	20.550 C1	Methylene Blue
DCBH2019_2	31.05	21	C	31.050 B1	4-Point
DCBH2019_2	31.05	21	C	31.050 B1	PSD-Sieve
DCBH2019_2	33.30	23	C	33.300 B2	4-Point
DCBH2019_2	33.30	23	C	33.300 B2	PSD-Sieve
DCBH2019_2	33.30	23	C	33.520 B1	Linear Density
DCBH2019_2	33.30	23	C	33.300 C1	Methylene Blue
DCBH2019_2	57.02	45	C	57.020 B3	4-Point
DCBH2019_2	57.02	45	C	57.020 B3	PSD-Sieve
DCBH2019_2	57.02	45	C	57.020 B3	PSD-sed
DCBH2019_2	57.02	45	C	57.050 B1	Linear Density
DCBH2019_2	57.02	45	C	57.040 B2	Consol
DCBH2019_2	59.02	46	C	59.020 B3	4-Point
DCBH2019_2	59.02	46	C	59.020 B3	PSD-Sieve
DCBH2019_2	59.02	46	C	59.020 B3	PSD-sed
DCBH2019_2	59.02	46	C	59.020 B3	Particle Density
DCBH2019_2	59.02	46	C	59.130 B2	Linear Density
DCBH2019_2	59.02	46	C	59.150 B1	Consol
DCBH2019_2	65.16	51	C	65.160 B2	Water Content
DCBH2019_2	65.16	51	C	65.160 B2	PSD-Sieve
DCBH2019_2	65.16	51	C	66.060 B1	Linear Density
DCBH2019_2	66.30	52	C	66.300 B2	Water Content
DCBH2019_2	66.30	52	C	66.300 B2	PSD-Sieve
DCBH2019_2	66.30	52	C	66.300 B2	PSD-sed
DCBH2019_2	66.30	52	C	66.300 B2	Particle Density
DCBH2019_2	66.30	52	C	66.770 B1	Linear Density
DCBH2019_2	66.30	52	C	66.300 C1	Methylene Blue

DCBH2019_2	68.55	53	C	68.550	B2	Water Content
DCBH2019_2	68.55	53	C	68.550	B2	PSD-Sieve
DCBH2019_2	68.55	53	C	69.200	B1	Linear Density
DCBH2019_2	68.55	53	C	68.550	C1	Methylene Blue
DCBH2019_2	71.30	55	C	71.300	B2	Water Content
DCBH2019_2	71.30	55	C	71.300	B2	PSD-Sieve
DCBH2019_2	71.30	55	C	71.300	B2	Particle Density
DCBH2019_2	71.30	55	C	72.200	B1	Linear Density
DCBH2019_2	81.77	61	C	81.770	B1	UCS
DCBH2019_2	82.23	62	C	82.230	B1	Porosity
DCBH2019_2	82.23	62	C	82.230	B1	MC Rock
DCBH2019_2	83.59	63	C	83.590	B1	UCS
DCBH2019_2	83.59	63	C	83.590	B1	Brazilian Tensile Strength
DCBH2019_2	86.65	66	C	86.650	B1	Porosity
DCBH2019_2	86.65	66	C	86.650	B1	MC Rock
DCBH2019_2	118.30	74	C	118.300	B1	UCS
DCBH2019_2	118.30	74	C	118.300	B1	Porosity
DCBH2019_2	118.30	74	C	118.300	B1	MC Rock
DCBH2019_2	118.80	75	C	118.800	B1	Brazilian Tensile Strength
DCBH2019_3	9.50	1	C	9.500	B2	Water Content
DCBH2019_3	9.50	1	C	9.500	B2	PSD-Sieve
DCBH2019_3	9.50	1	C	9.500	B2	Particle Density
DCBH2019_3	9.50	1	C	10.400	B1	Linear Density
DCBH2019_3	9.50	1	C	9.500	C1	Methylene Blue
DCBH2019_3	11.00	2	C	11.000	C1	Methylene Blue
DCBH2019_3	12.50	3	C	12.500	C1	Max Min Sand
DCBH2019_3	13.25	4	C	13.250	B1	Water Content
DCBH2019_3	13.25	4	C	13.250	B1	PSD-Sieve
DCBH2019_3	13.25	4	C	13.250	B1	Linear Density
DCBH2019_3	13.25	4	C	13.250	C1	Methylene Blue
DCBH2019_3	14.00	5	C	14.000	B1	Water Content
DCBH2019_3	16.25	7	C	16.250	B2	Water Content
DCBH2019_3	16.25	7	C	16.250	B2	PSD-Sieve
DCBH2019_3	16.25	7	C	16.950	B1	Linear Density
DCBH2019_3	16.25	7	C	16.250	C1	Methylene Blue
DCBH2019_3	18.50	8	C	18.500	C1	Max Min Sand
DCBH2019_3	19.25	9	C	19.250	B1	Water Content
DCBH2019_3	19.25	9	C	19.250	B1	Effective Stress 1
DCBH2019_3	19.25	9	C	19.250	B1	Effective Stress 2
DCBH2019_3	19.25	9	C	19.250	B1	Effective Stress 3
DCBH2019_3	20.00	10	C	20.000	B1	Water Content
DCBH2019_3	20.00	10	C	20.000	B1	PSD-Sieve
DCBH2019_3	20.00	10	C	20.000	C1	Methylene Blue
DCBH2019_3	23.00	13	C	23.000	B1	Water Content
DCBH2019_3	23.00	13	C	23.000	B1	PSD-Sieve
DCBH2019_3	23.00	13	C	23.000	B1	Particle Density
DCBH2019_3	23.00	13	C	23.000	C1	Methylene Blue
DCBH2019_3	29.00	16	C	29.000	B2	Water Content
DCBH2019_3	29.00	16	C	29.000	B2	PSD-Sieve
DCBH2019_3	29.00	16	C	29.210	B1	Linear Density
DCBH2019_3	31.25	19	C	31.250	B1	Water Content

DCBH2019_3	31.25	19	C	31.250	B1	PSD-Sieve
DCBH2019_3	31.25	19	C	31.250	B1	Linear Density
DCBH2019_3	31.25	19	C	31.250	C1	Methylene Blue
DCBH2019_3	36.50	23	C	36.500	B1	1-Point
DCBH2019_3	36.50	23	C	36.500	B1	PSD-Sieve
DCBH2019_3	36.50	23	C	36.500	B1	Particle Density
DCBH2019_3	40.25	25	C	40.250	B2	Water Content
DCBH2019_3	40.25	25	C	40.250	B2	PSD-Sieve
DCBH2019_3	40.25	25	C	40.840	B1	Linear Density
DCBH2019_3	40.25	25	C	40.250	C1	Methylene Blue
DCBH2019_3	41.00	26	C	41.000	C1	Max Min Sand
DCBH2019_3	41.75	27	C	41.750	B1	Water Content
DCBH2019_3	41.75	27	C	41.750	B1	Effective Stress 1
DCBH2019_3	41.75	27	C	41.750	B1	Effective Stress 2
DCBH2019_3	41.75	27	C	41.750	B1	Effective Stress 3
DCBH2019_3	42.50	6	D	42.500	B1	Water Content
DCBH2019_3	42.50	6	D	42.500	B1	PSD-Sieve
DCBH2019_3	42.50	6	D	42.500	B1	Particle Density
DCBH2019_3	42.50	6	D	42.500	C1	Methylene Blue
DCBH2019_3	44.00	29	C	44.000	B2	Water Content
DCBH2019_3	44.00	29	C	44.000	B2	PSD-Sieve
DCBH2019_3	44.00	29	C	44.220	B1	Linear Density
DCBH2019_3	46.95	7	D	46.950	B1	Water Content
DCBH2019_3	48.35	9	D	48.350	B1	4-Point
DCBH2019_3	48.35	9	D	48.350	B1	Particle Density
DCBH2019_3	48.36	8	D	48.360	B1	PSD-Sieve
DCBH2019_3	48.36	8	D	48.360	B1	PSD-sed
DCBH2019_3	49.51	10	D	49.510	B1	4-Point
DCBH2019_3	51.50	11	D	51.500	B1	Water Content
DCBH2019_3	52.00	12	D	52.000	B1	4-Point
DCBH2019_3	53.09	31	C	53.090	B2	4-Point
DCBH2019_3	53.09	31	C	53.090	B2	PSD-Sieve
DCBH2019_3	53.09	31	C	53.090	B2	PSD-sed
DCBH2019_3	53.09	31	C	53.090	B2	Particle Density
DCBH2019_3	53.09	31	C	53.150	B1	Consol
DCBH2019_3	53.69	32	C	53.690	B2	Water Content
DCBH2019_3	53.69	32	C	53.720	B1	Effective Stress 1
DCBH2019_3	53.69	32	C	53.720	B1	Effective Stress 2
DCBH2019_3	53.69	32	C	53.720	B1	Effective Stress 3
DCBH2019_3	54.10	13	D	54.100	B1	4-Point
DCBH2019_3	54.90	14	D	54.900	B1	PSD-Sieve
DCBH2019_3	54.90	14	D	54.900	B1	PSD-sed
DCBH2019_3	56.49	35	C	56.490	B3	4-Point
DCBH2019_3	56.49	35	C	56.520	B2	Linear Density
DCBH2019_3	56.49	35	C	56.780	B1	Consol
DCBH2019_3	56.83	35A	C	56.830	B1	Water Content
DCBH2019_3	59.72	38	C	59.720	B1	4-Point
DCBH2019_3	59.72	38	C	59.720	B1	PSD-Sieve
DCBH2019_3	59.72	38	C	59.720	B1	PSD-sed
DCBH2019_3	59.72	38	C	59.720	B1	Linear Density
DCBH2019_3	61.39	39	C	61.390	B2	4-Point

DCBH2019_3	61.39	39 C	61.670	B1	Linear Density
DCBH2019_3	61.39	39 C	61.390	B2	Effective Stress 1
DCBH2019_3	61.39	39 C	61.390	B2	Effective Stress 2
DCBH2019_3	61.39	39 C	61.390	B2	Effective Stress 3
DCBH2019_3	62.23	40 C	62.230	B3	4-Point
DCBH2019_3	62.23	40 C	62.230	B3	PSD-Sieve
DCBH2019_3	62.23	40 C	62.230	B3	PSD-sed
DCBH2019_3	62.23	40 C	62.230	B3	Particle Density
DCBH2019_3	62.23	40 C	62.580	B2	Linear Density
DCBH2019_3	62.23	40 C	62.660	B1	Consol
DCBH2019_3	62.82	41 C	62.820	B2	Water Content
DCBH2019_3	62.82	41 C	62.820	B2	PSD-Sieve
DCBH2019_3	62.82	41 C	62.820	B2	PSD-sed
DCBH2019_3	62.82	41 C	62.850	B1	Linear Density
DCBH2019_3	62.82	41 C	62.820	C1	Methylene Blue
DCBH2019_3	64.00	15 D	64.000	C1	1-Point
DCBH2019_3	64.00	15 D	64.000	B1	PSD-Sieve
DCBH2019_3	65.18	42 C	65.180	C1	1-Point
DCBH2019_3	65.18	42 C	65.240	B2	Particle Density
DCBH2019_3	65.18	42 C	65.200	B1	Linear Density
DCBH2019_3	65.18	42 C	65.400	B3	Consol
DCBH2019_3	65.96	43 C	65.960	B1	Water Content
DCBH2019_3	65.96	43 C	65.960	B1	PSD-Sieve
DCBH2019_3	65.96	43 C	65.960	B1	PSD-sed
DCBH2019_3	67.44	45 C	67.440	B1	4-Point
DCBH2019_3	67.44	45 C	67.440	B1	PSD-Sieve
DCBH2019_3	68.72	47 C	68.720	B3	Water Content
DCBH2019_3	68.72	47 C	68.720	B3	PSD-Sieve
DCBH2019_3	68.72	47 C	68.720	B3	PSD-sed
DCBH2019_3	68.72	47 C	68.720	B3	Particle Density
DCBH2019_3	68.72	47 C	68.750	B2	Linear Density
DCBH2019_3	68.72	47 C	68.860	B1	Consol
DCBH2019_3	69.50	48 C	69.500	B1	4-Point
DCBH2019_3	71.00	50 C	71.000	B1	4-Point
DCBH2019_3	71.00	50 C	71.080	B2	Consol
DCBH2019_3	71.81	51 C	71.810	B1	PSD-Sieve
DCBH2019_3	71.81	51 C	71.810	B1	PSD-sed
DCBH2019_3	71.81	51 C	71.810	B1	Particle Density
DCBH2019_3	72.14	52 C	72.140	B2	4-Point
DCBH2019_3	72.14	52 C	72.200	B1	Linear Density
DCBH2019_3	80.20	63 C	80.200	B2	4-Point
DCBH2019_3	80.20	63 C	80.200	B2	PSD-Sieve
DCBH2019_3	80.20	63 C	80.200	B2	PSD-sed
DCBH2019_3	80.20	63 C	80.200	B2	Particle Density
DCBH2019_3	80.20	63 C	80.220	B1	Linear Density
DCBH2019_3	81.50	65 C	81.500	B3	4-Point
DCBH2019_3	81.50	65 C	81.550	B2	Linear Density
DCBH2019_3	81.50	65 C	81.740	B1	Consol
DCBH2019_3	83.16	66 C	83.160	B1	UCS
DCBH2019_3	83.53	67 C	83.530	B1	Porosity
DCBH2019_3	83.53	67 C	83.530	B1	MC Rock

DCBH2019_3	93.05	70 C	93.050 B1		Porosity
DCBH2019_3	93.05	70 C	93.050 B1		MC Rock
DCBH2019_3	93.50	71 C	93.500 B1		Brazilian Tensile Strength
DCBH2019_4	14.40	1 C	14.400 B2		Water Content
DCBH2019_4	14.40	1 C	14.400 B2		PSD-Sieve
DCBH2019_4	14.40	1 C	14.400 B2		Particle Density
DCBH2019_4	14.40	1 C	14.750 B1		Linear Density
DCBH2019_4	14.40	1 C	14.400 C1		Methylene Blue
DCBH2019_4	15.20	2 C	15.200 B1		Water Content
DCBH2019_4	21.90	3 C	21.900 B1		Water Content
DCBH2019_4	21.90	3 C	21.900 B1		PSD-Sieve
DCBH2019_4	21.90	3 C	21.900 B1		Linear Density
DCBH2019_4	35.20	4 C	35.200 B1		Water Content
DCBH2019_4	35.20	4 C	35.200 B1		PSD-Sieve
DCBH2019_4	35.20	4 C	35.200 B1		Particle Density
DCBH2019_4	52.64	5 C	52.640 B1		4-Point
DCBH2019_4	52.64	5 C	52.640 B1		PSD-Sieve
DCBH2019_4	52.64	5 C	52.640 B1		PSD-sed
DCBH2019_4	52.64	5 C	52.640 B1		Linear Density
DCBH2019_4	55.54	6 C	55.540 B3		4-Point
DCBH2019_4	55.54	6 C	55.550 B2		Linear Density
DCBH2019_4	55.54	6 C	55.750 B1		Consol
DCBH2019_4	59.58	7 C	59.580 B1		Porosity
DCBH2019_4	59.58	7 C	59.580 B1		MC Rock
DCBH2019_4	60.70	8 C	60.700 B2		Water Content
DCBH2019_4	60.70	8 C	61.030 B1		Linear Density
DCBH2019_4	60.70	8 C	60.700 C1		Methylene Blue
DCBH2019_4	68.95	9 C	68.950 B2		Water Content
DCBH2019_4	68.95	9 C	68.950 B2		PSD-Sieve
DCBH2019_4	68.95	9 C	69.200 B1		Linear Density
DCBH2019_4	68.95	9 C	68.950 C1		Methylene Blue
DCBH2019_4	86.79	10 C	86.790 B1		Porosity
DCBH2019_4	86.79	10 C	86.790 B1		MC Rock
DCBH2019_4	87.82	13 C	87.820 B1		UCS
DCBH2019_4	91.86	11 C	91.860 B1		Porosity
DCBH2019_4	91.86	11 C	91.860 B1		MC Rock
DCBH2019_4	101.58	12 C	101.580 B1		Porosity
DCBH2019_4	101.58	12 C	101.580 B1		MC Rock
DCBH2019_5	15.60	1 C	15.600 B2		Water Content
DCBH2019_5	15.60	1 C	15.600 B2		PSD-Sieve
DCBH2019_5	15.60	1 C	15.600 B2		Particle Density
DCBH2019_5	15.60	1 C	15.900 B1		Linear Density
DCBH2019_5	15.60	1 C	15.600 C1		Methylene Blue
DCBH2019_5	16.30	2 C	16.300 B1		Water Content
DCBH2019_5	16.30	2 C	16.300 B1		PSD-Sieve
DCBH2019_5	16.30	2 C	16.300 C1		Methylene Blue
DCBH2019_5	17.00	3 C	17.000 B2		Water Content
DCBH2019_5	17.00	3 C	17.400 B1		Linear Density
DCBH2019_5	17.00	3 C	17.000 C1		Methylene Blue
DCBH2019_5	18.03	4 C	18.030 B2		Water Content
DCBH2019_5	18.03	4 C	18.460 B1		Linear Density

DCBH2019_5	20.50	5	C	20.500	B1	Water Content
DCBH2019_5	20.50	5	C	20.500	C1	Methylene Blue
DCBH2019_5	20.50	5	C	20.500	B1	Effective Stress 1
DCBH2019_5	20.50	5	C	20.500	B1	Effective Stress 2
DCBH2019_5	20.50	5	C	20.500	B1	Effective Stress 3
DCBH2019_5	21.10	6	C	21.100	B2	Water Content
DCBH2019_5	21.10	6	C	21.100	B2	PSD-Sieve
DCBH2019_5	21.10	6	C	21.100	B2	Particle Density
DCBH2019_5	21.10	6	C	21.450	B1	Linear Density
DCBH2019_5	22.95	7	C	22.950	B1	PSD-Sieve
DCBH2019_5	22.95	7	C	22.950	C1	Methylene Blue
DCBH2019_5	26.00	8	C	26.000	B2	Water Content
DCBH2019_5	26.00	8	C	26.000	B2	Particle Density
DCBH2019_5	26.00	8	C	26.250	B1	Linear Density
DCBH2019_5	29.95	9	C	29.950	B1	Water Content
DCBH2019_5	29.95	9	C	29.950	B1	Effective Stress 1
DCBH2019_5	29.95	9	C	29.950	B1	Effective Stress 2
DCBH2019_5	29.95	9	C	29.950	B1	Effective Stress 3
DCBH2019_5	34.45	10	C	34.450	B2	Water Content
DCBH2019_5	34.45	10	C	34.900	B1	Linear Density
DCBH2019_5	34.45	10	C	34.450	C1	Methylene Blue
DCBH2019_5	38.95	11	C	38.950	B2	Water Content
DCBH2019_5	38.95	11	C	38.950	B2	PSD-Sieve
DCBH2019_5	38.95	11	C	38.950	B2	Particle Density
DCBH2019_5	38.95	11	C	39.400	B1	Linear Density
DCBH2019_5	43.45	13	C	43.450	B1	Water Content
DCBH2019_5	43.45	13	C	43.450	B1	Linear Density
DCBH2019_5	43.45	13	C	43.450	C1	Methylene Blue
DCBH2019_5	46.70	14	C	46.700	B2	4-Point
DCBH2019_5	46.70	14	C	46.700	B2	Particle Density
DCBH2019_5	46.70	14	C	46.850	B1	Linear Density
DCBH2019_5	49.17	15	C	49.170	B2	4-Point
DCBH2019_5	49.17	15	C	49.170	B2	PSD-Sieve
DCBH2019_5	49.17	15	C	49.170	B2	PSD-sed
DCBH2019_5	49.17	15	C	49.180	B1	Linear Density
DCBH2019_5	49.17	15	C	49.170	B1	Effective Stress 1
DCBH2019_5	49.17	15	C	49.170	B1	Effective Stress 2
DCBH2019_5	49.17	15	C	49.170	B1	Effective Stress 3
DCBH2019_5	51.52	16	C	51.600	B3	4-Point
DCBH2019_5	51.52	16	C	51.730	B1	PSD-Sieve
DCBH2019_5	51.52	16	C	51.550	B5	Linear Density
DCBH2019_5	51.52	16	C	51.550	B5	Consol
DCBH2019_5	51.52	16	C	51.580	B4	Swelling Pressure
DCBH2019_5	51.52	16	C	51.670	B2	Consol
DCBH2019_5	54.47	17	C	54.470	B1	4-Point
DCBH2019_5	54.47	17	C	54.470	B1	Linear Density
DCBH2019_5	59.50	18	C	59.500	C1	1-Point
DCBH2019_5	59.50	18	C	59.500	B2	PSD-Sieve
DCBH2019_5	59.50	18	C	59.550	B1	Linear Density
DCBH2019_5	64.90	19	C	64.900	B2	Water Content
DCBH2019_5	64.90	19	C	64.900	B2	PSD-Sieve

DCBH2019_5	64.90	19	C	64.900 B2	Particle Density
DCBH2019_5	64.90	19	C	65.240 B1	Linear Density
DCBH2019_5	68.00	20	C	68.000 B3	4-Point
DCBH2019_5	68.00	20	C	68.100 B2	Linear Density
DCBH2019_5	68.00	20	C	68.240 B1	Consol
DCBH2019_5	72.42	21	C	72.420 B3	4-Point
DCBH2019_5	72.42	21	C	72.440 B2	Linear Density
DCBH2019_5	72.42	21	C	72.580 B1	Consol
DCBH2019_5	81.00	22	C	81.000 B2	4-Point
DCBH2019_5	81.00	22	C	81.040 B1	Linear Density
DCBH2019_5	88.62	23	C	88.620 B1	UCS
DCBH2019_5	89.02	24	C	89.020 B1	Porosity
DCBH2019_5	89.02	24	C	89.020 B1	MC Rock
DCBH2019_5	89.47	25	C	89.470 B1	UCS
DCBH2019_5	94.59	26	C	94.590 B1	UCS
DCBH2019_5	94.59	26	C	94.590 B1	Porosity
DCBH2019_5	94.59	26	C	94.590 B1	MC Rock
DCBH2019_6	14.20	1	C	14.200 B1	Water Content
DCBH2019_6	14.20	1	C	14.200 B1	PSD-Sieve
DCBH2019_6	14.20	1	C	14.200 B1	Particle Density
DCBH2019_6	14.20	1	C	14.200 B1	Linear Density
DCBH2019_6	14.20	1	C	14.200 C1	Methylene Blue
DCBH2019_6	15.70	2	C	15.700 B1	Water Content
DCBH2019_6	16.45	3	C	16.450 C1	Methylene Blue
DCBH2019_6	17.20	4	C	17.200 B2	Water Content
DCBH2019_6	17.20	4	C	17.200 B2	PSD-Sieve
DCBH2019_6	17.20	4	C	18.100 B1	Linear Density
DCBH2019_6	20.20	6	C	20.200 B2	Water Content
DCBH2019_6	20.20	6	C	20.200 B2	PSD-Sieve
DCBH2019_6	20.20	6	C	20.700 B1	Linear Density
DCBH2019_6	20.20	6	C	20.200 C1	Methylene Blue
DCBH2019_6	21.70	8	C	21.700 B1	Water Content
DCBH2019_6	21.70	8	C	21.700 B1	Effective Stress 1
DCBH2019_6	21.70	8	C	21.700 B1	Effective Stress 2
DCBH2019_6	21.70	8	C	21.700 B1	Effective Stress 3
DCBH2019_6	22.45	9	C	22.450 B2	Water Content
DCBH2019_6	22.45	9	C	22.450 B2	PSD-Sieve
DCBH2019_6	22.45	9	C	22.450 B2	Particle Density
DCBH2019_6	22.45	9	C	23.100 B1	Linear Density
DCBH2019_6	28.45	10	C	28.450 B2	Water Content
DCBH2019_6	28.45	10	C	28.450 B2	PSD-Sieve
DCBH2019_6	28.45	10	C	29.100 B1	Linear Density
DCBH2019_6	28.45	10	C	28.450 C1	Methylene Blue
DCBH2019_6	34.45	14	C	34.450 B2	Water Content
DCBH2019_6	34.45	14	C	34.450 B2	PSD-Sieve
DCBH2019_6	34.45	14	C	34.450 B2	Particle Density
DCBH2019_6	34.45	14	C	35.100 B1	Linear Density
DCBH2019_6	34.45	14	C	34.450 C1	Methylene Blue
DCBH2019_6	37.45	16	C	37.450 B2	Water Content
DCBH2019_6	37.45	16	C	37.450 B2	PSD-Sieve
DCBH2019_6	37.45	16	C	37.870 B1	Linear Density

DCBH2019_6	45.50	13 D	45.500	B1	4-Point
DCBH2019_6	46.61	17 C	46.700	B1	Water Content
DCBH2019_6	46.61	17 C	46.700	B1	PSD-Sieve
DCBH2019_6	46.61	17 C	46.700	B1	PSD-sed
DCBH2019_6	46.61	17 C	46.700	B1	Particle Density
DCBH2019_6	46.61	17 C	46.680	B2	Consol
DCBH2019_6	47.42	18 C	47.420	B3	4-Point
DCBH2019_6	47.42	18 C	47.440	B2	Linear Density
DCBH2019_6	47.42	18 C	47.460	B1	Suction
DCBH2019_6	47.42	18 C	47.440	B2	Effective Stress 1
DCBH2019_6	47.42	18 C	47.440	B2	Effective Stress 2
DCBH2019_6	47.42	18 C	47.440	B2	Effective Stress 3
DCBH2019_6	48.70	19 C	48.820	B2	4-Point
DCBH2019_6	48.70	19 C	48.800	B1	Consol
DCBH2019_6	50.20	20 C	50.200	B2	Water Content
DCBH2019_6	50.20	20 C	50.210	B1	Effective Stress 1
DCBH2019_6	50.20	20 C	50.210	B1	Effective Stress 2
DCBH2019_6	50.20	20 C	50.210	B1	Effective Stress 3
DCBH2019_6	51.70	14 D	51.700	B1	4-Point
DCBH2019_6	53.51	22 C	53.510	B2	Water Content
DCBH2019_6	53.51	22 C	53.510	B2	PSD-Sieve
DCBH2019_6	53.51	22 C	53.510	B2	PSD-sed
DCBH2019_6	53.51	22 C	53.510	B2	Particle Density
DCBH2019_6	53.51	22 C	53.530	B1	Linear Density
DCBH2019_6	54.32	24 C	54.520	B1	4-Point
DCBH2019_6	54.32	24 C	54.480	B2	Consol
DCBH2019_6	55.20	25 C	55.200	B2	4-Point
DCBH2019_6	55.20	25 C	55.480	B1	Suction
DCBH2019_6	55.70	26 C	55.700	B2	Water Content
DCBH2019_6	55.70	26 C	55.700	B2	PSD-Sieve
DCBH2019_6	55.70	26 C	55.700	B2	PSD-sed
DCBH2019_6	55.70	26 C	55.850	B1	Linear Density
DCBH2019_6	56.60	15 D	56.600	C1	1-Point
DCBH2019_6	56.60	15 D	56.600	B1	PSD-Sieve
DCBH2019_6	58.45	16 D	58.450	C1	Water Content
DCBH2019_6	58.45	16 D	58.450	B1	PSD-Sieve
DCBH2019_6	58.45	16 D	58.450	B1	PSD-sed
DCBH2019_6	58.45	16 D	58.450	C1	Methylene Blue
DCBH2019_6	61.45	28 C	61.450	B2	4-Point
DCBH2019_6	61.45	28 C	61.450	B2	PSD-Sieve
DCBH2019_6	61.45	28 C	62.070	B1	Linear Density
DCBH2019_6	62.20	29 C	62.200	B1	4-Point
DCBH2019_6	62.95	30 C	62.950	B2	4-Point
DCBH2019_6	62.95	30 C	62.950	B2	PSD-Sieve
DCBH2019_6	62.95	30 C	63.600	B1	Linear Density
DCBH2019_6	65.95	31 C	65.950	B2	4-Point
DCBH2019_6	65.95	31 C	65.950	B2	PSD-Sieve
DCBH2019_6	65.95	31 C	66.210	B1	Linear Density
DCBH2019_6	65.95	31 C	66.210	B1	Effective Stress 1
DCBH2019_6	65.95	31 C	66.210	B1	Effective Stress 2
DCBH2019_6	65.95	31 C	66.210	B1	Effective Stress 3

DCBH2019_6	67.08	32	C	67.080	C1	4-Point
DCBH2019_6	67.08	32	C	67.080	B2	PSD-Sieve
DCBH2019_6	67.08	32	C	67.080	B2	PSD-sed
DCBH2019_6	67.08	32	C	67.080	B2	Particle Density
DCBH2019_6	67.08	32	C	67.130	B1	Linear Density
DCBH2019_6	67.76	17	D	67.760	B1	4-Point
DCBH2019_6	69.60	18	D	69.600	B1	Water Content
DCBH2019_6	69.70	35	C	69.700	B2	PSD-Sieve
DCBH2019_6	69.70	35	C	69.700	B2	PSD-sed
DCBH2019_6	69.70	35	C	69.740	B1	Linear Density
DCBH2019_6	69.70	35	C	69.700	C1	Methylene Blue
DCBH2019_6	71.05	19	D	71.050	B1	4-Point
DCBH2019_6	71.05	19	D	71.050	B1	PSD-Sieve
DCBH2019_6	71.05	19	D	71.050	B1	PSD-sed
DCBH2019_6	71.20	37	C	71.450	B1	Effective Stress 1
DCBH2019_6	71.20	37	C	71.450	B1	Effective Stress 2
DCBH2019_6	71.20	37	C	71.450	B1	Effective Stress 3
DCBH2019_6	71.62	38	C	71.620	B2	4-Point
DCBH2019_6	71.62	38	C	71.620	B2	Particle Density
DCBH2019_6	71.62	38	C	71.680	B1	Linear Density
DCBH2019_6	74.20	42	C	74.200	B1	4-Point
DCBH2019_6	76.16	43	C	76.370	B1	Water Content
DCBH2019_6	76.16	43	C	76.160	B2	4-Point
DCBH2019_6	76.16	43	C	76.160	B2	PSD-Sieve
DCBH2019_6	76.16	43	C	76.160	B2	PSD-sed
DCBH2019_6	76.16	43	C	76.160	B2	Particle Density
DCBH2019_6	76.16	43	C	76.370	B1	Linear Density
DCBH2019_6	77.78	45	C	77.780	B1	4-Point
DCBH2019_6	80.50	21	D	80.500	B1	4-Point
DCBH2019_6	80.50	21	D	80.500	B1	PSD-Sieve
DCBH2019_6	80.50	21	D	80.500	B1	PSD-sed
DCBH2019_6	81.70	47	C	81.700	B1	UCS
DCBH2019_6	82.24	48	C	82.240	B1	Porosity
DCBH2019_6	82.24	48	C	82.240	B1	MC Rock
DCBH2019_6	95.93	52	C	95.930	B1	UCS
DCBH2019_6	96.33	53	C	96.330	B1	Porosity
DCBH2019_6	96.33	53	C	96.330	B1	MC Rock
DCBH2019_7	16.75	1	C	16.750	B1	Water Content
DCBH2019_7	18.25	2	C	18.250	B2	Water Content
DCBH2019_7	18.25	2	C	18.250	B2	PSD-Sieve
DCBH2019_7	18.25	2	C	18.640	B1	Linear Density
DCBH2019_7	18.25	2	C	18.250	C1	Methylene Blue
DCBH2019_7	19.00	3	C	19.000	B1	Water Content
DCBH2019_7	23.50	7	C	23.500	B2	Water Content
DCBH2019_7	23.50	7	C	23.500	B2	PSD-Sieve
DCBH2019_7	23.50	7	C	24.150	B1	Linear Density
DCBH2019_7	23.50	7	C	23.500	C1	Methylene Blue
DCBH2019_7	27.75	10	C	27.750	B1	Effective Stress 1
DCBH2019_7	27.75	10	C	27.750	B1	Effective Stress 2
DCBH2019_7	27.75	10	C	27.750	B1	Effective Stress 3
DCBH2019_7	28.75	5	D	28.750	B1	Water Content

DCBH2019_7	28.75	5	D	28.750	B1	PSD-Sieve
DCBH2019_7	28.75	5	D	28.750	C1	Methylene Blue
DCBH2019_7	33.75	14	C	33.750	B2	Water Content
DCBH2019_7	33.75	14	C	33.750	B2	PSD-Sieve
DCBH2019_7	33.75	14	C	34.650	B1	Linear Density
DCBH2019_7	36.75	16	C	36.750	B2	4-Point
DCBH2019_7	36.75	16	C	36.750	B2	PSD-Sieve
DCBH2019_7	36.75	16	C	37.650	B1	Linear Density
DCBH2019_7	39.25	12	D	39.250	C1	1-Point
DCBH2019_7	40.75	13	D	40.750	B1	Water Content
DCBH2019_7	42.75	20	C	42.750	B2	Water Content
DCBH2019_7	42.75	20	C	42.750	B2	PSD-Sieve
DCBH2019_7	42.75	20	C	42.750	B2	Particle Density
DCBH2019_7	42.75	20	C	43.650	B1	Linear Density
DCBH2019_7	47.00	22	C	47.000	B1	4-Point
DCBH2019_7	47.00	22	C	47.000	B1	PSD-Sieve
DCBH2019_7	47.00	22	C	47.000	B1	PSD-sed
DCBH2019_7	47.00	22	C	47.000	B1	Particle Density
DCBH2019_7	48.45	19	D	48.450	B1	4-Point
DCBH2019_7	50.30	20	D	50.300	B1	4-Point
DCBH2019_7	51.30	21	D	51.300	B1	4-Point
DCBH2019_7	51.30	21	D	51.300	B1	PSD-Sieve
DCBH2019_7	51.30	21	D	51.300	B1	PSD-sed
DCBH2019_7	51.30	21	D	51.300	B1	Particle Density
DCBH2019_7	53.40	23	D	53.400	B1	4-Point
DCBH2019_7	54.40	24	D	54.400	B1	4-Point
DCBH2019_7	55.81	25	C	55.810	B1	4-Point
DCBH2019_7	55.81	25	C	55.810	B1	PSD-Sieve
DCBH2019_7	55.81	25	C	55.810	B1	PSD-sed
DCBH2019_7	55.81	25	C	55.810	B1	Particle Density
DCBH2019_7	56.86	27	C	57.060	B1	4-Point
DCBH2019_7	57.44	28	C	57.440	B2	4-Point
DCBH2019_7	57.44	28	C	57.500	B1	PSD-Sieve
DCBH2019_7	57.44	28	C	57.500	B1	PSD-sed
DCBH2019_7	57.44	28	C	57.440	B2	Particle Density
DCBH2019_7	57.44	28	C	57.500	B1	Linear Density
DCBH2019_7	57.70	26	D	57.700	C1	1-Point
DCBH2019_7	58.70	27	D	58.700	B1	4-Point
DCBH2019_7	58.70	27	D	58.700	B1	PSD-Sieve
DCBH2019_7	58.70	27	D	58.700	B1	PSD-sed
DCBH2019_7	59.70	28	D	59.700	B1	4-Point
DCBH2019_7	59.86	32	C	59.860	B1	Water Content
DCBH2019_7	59.86	32	C	59.860	B1	PSD-Sieve
DCBH2019_7	59.86	32	C	59.860	B1	PSD-sed
DCBH2019_7	60.70	29	D	60.700	B1	4-Point
DCBH2019_7	60.70	29	D	60.700	B1	PSD-Sieve
DCBH2019_7	60.80	34	C	60.800	B2	Water Content
DCBH2019_7	60.80	34	C	60.800	B2	Particle Density
DCBH2019_7	60.80	34	C	60.900	B1	Linear Density
DCBH2019_7	62.10	31	D	62.100	B1	4-Point
DCBH2019_7	62.10	31	D	62.100	B1	PSD-Sieve

DCBH2019_7	62.60	35	C	62.600 B2	Water Content
DCBH2019_7	62.60	35	C	62.600 B2	Particle Density
DCBH2019_7	62.60	35	C	62.800 B1	Linear Density
DCBH2019_7	64.20	36	C	64.200 B1	1-Point
DCBH2019_7	64.20	36	C	64.200 B1	PSD-Sieve
DCBH2019_7	64.20	36	C	64.200 C1	Methylene Blue
DCBH2019_7	66.00	33	D	66.000 B1	4-Point
DCBH2019_7	66.00	33	D	66.000 B1	PSD-Sieve
DCBH2019_7	66.70	37	C	66.700 B2	4-Point
DCBH2019_7	66.70	37	C	66.700 B2	PSD-Sieve
DCBH2019_7	66.70	37	C	66.700 B2	Particle Density
DCBH2019_7	66.70	37	C	66.840 B1	Linear Density
DCBH2019_7	67.21	38	C	67.560 B1	4-Point
DCBH2019_7	67.71	34	D	67.710 B1	4-Point
DCBH2019_7	68.65	39	C	69.000 B1	4-Point
DCBH2019_7	68.65	39	C	68.760 B2	Linear Density
DCBH2019_7	69.30	36	D	69.300 B1	4-Point
DCBH2019_7	69.30	36	D	69.300 B1	PSD-Sieve
DCBH2019_7	70.30	37	D	70.300 B1	4-Point
DCBH2019_7	70.30	37	D	70.300 B1	PSD-Sieve
DCBH2019_7	71.30	38	D	71.300 B1	4-Point
DCBH2019_7	71.30	38	D	71.300 B1	PSD-Sieve
DCBH2019_7	71.41	40	C	71.410 B2	4-Point
DCBH2019_7	71.41	40	C	71.470 B1	Linear Density
DCBH2019_7	71.41	40	C	71.470 B1	Consol
DCBH2019_7	72.30	39	D	72.300 B1	4-Point
DCBH2019_7	72.96	42	C	72.960 B1	4-Point
DCBH2019_7	73.94	43	C	73.940 B1	4-Point
DCBH2019_7	74.50	44	C	74.500 B1	4-Point
DCBH2019_7	75.00	41	D	75.000 B1	4-Point
DCBH2019_7	75.00	41	D	75.000 B1	PSD-Sieve
DCBH2019_7	75.00	41	D	75.000 B1	PSD-sed
DCBH2019_7	76.29	47	C	76.290 B3	4-Point
DCBH2019_7	76.29	47	C	76.290 B3	Particle Density
DCBH2019_7	76.29	47	C	76.360 B2	Linear Density
DCBH2019_7	76.29	47	C	76.500 B1	Consol
DCBH2019_7	77.20	43	D	77.200 B1	4-Point
DCBH2019_7	78.20	44	D	78.200 B1	4-Point
DCBH2019_7	78.51	50	C	78.510 B2	4-Point
DCBH2019_7	78.51	50	C	78.510 B2	Particle Density
DCBH2019_7	78.51	50	C	78.550 B1	Linear Density
DCBH2019_7	79.27	52	C	79.270 B2	4-Point
DCBH2019_7	79.27	52	C	79.350 B1	Linear Density
DCBH2019_7	79.60	45	D	79.600 B1	4-Point
DCBH2019_7	80.71	46	D	80.710 B1	4-Point
DCBH2019_7	81.30	47	D	81.300 B1	4-Point
DCBH2019_8	15.50	1	C	15.500 B1	Max Min Vibrocore
DCBH2019_8	17.00	3	C	17.000 B1	Water Content
DCBH2019_8	17.00	3	C	17.000 B1	PSD-Sieve
DCBH2019_8	20.00	6	C	20.000 B1	Max Min Vibrocore
DCBH2019_8	22.25	8	C	22.250 B1	Water Content

DCBH2019_8	22.25	8	C	22.250	B1	PSD-Sieve
DCBH2019_8	25.25	10	C	25.250	B1	Max Min Vibrocore
DCBH2019_8	26.75	12	C	26.750	B1	Water Content
DCBH2019_8	26.75	12	C	26.750	B1	PSD-Sieve
DCBH2019_8	29.00	15	C	29.000	B1	Max Min Vibrocore
DCBH2019_8	31.25	17	C	31.250	B1	Water Content
DCBH2019_8	31.25	17	C	31.250	B1	PSD-Sieve
DCBH2019_8	38.00	20	C	38.000	B1	Max Min Sand
DCBH2019_8	38.00	20	C	38.000	B1	Max Min Vibrocore
DCBH2019_8	39.50	22	C	39.500	B1	Water Content
DCBH2019_8	39.50	22	C	39.500	B1	PSD-Sieve
Group 1	0.00	1	B	0.000	C1	Water Content
Group 1	0.00	1	B	0.000	C1	PSD-Sieve
Group 1	0.00	1	B	0.000	C1	Methylene Blue
Group 2	0.00	1	B	0.000	C1	Water Content
Group 2	0.00	1	B	0.000	C1	PSD-Sieve
Group 2	0.00	1	B	0.000	C1	Methylene Blue
Group 3	0.00	1	B	0.000	C1	Water Content
Group 3	0.00	1	B	0.000	C1	PSD-Sieve
Group 3	0.00	1	B	0.000	C1	Methylene Blue
Group 4	0.00	1	B	0.000	C1	Water Content
Group 4	0.00	1	B	0.000	C1	PSD-Sieve
Group 4	0.00	1	B	0.000	C1	Methylene Blue
Group 5	0.00	1	B	0.000	C1	Water Content
Group 5	0.00	1	B	0.000	C1	PSD-Sieve
Group 5	0.00	1	B	0.000	C1	Methylene Blue
Group 6	0.00	1	B	0.000	C1	Water Content
Group 6	0.00	1	B	0.000	C1	PSD-Sieve
Group 6	0.00	1	B	0.000	C1	Methylene Blue
MGS2019_A	0.40	3	B	0.400	C1	Water Content
MGS2019_A	0.40	3	B	0.400	C1	PSD-Sieve
MGS2019_A	0.40	3	B	0.400	C2	Methylene Blue
MGS2019_A	0.80	4	B	0.800	C1	Water Content
MGS2019_A	0.80	4	B	0.800	C1	PSD-Sieve
MGS2019_A	0.80	4	B	0.800	C2	Methylene Blue
MGS2019_A	2.80	5	B	2.800	C1	Water Content
MGS2019_A	2.80	5	B	2.800	C1	PSD-Sieve
MGS2019_A	2.80	5	B	2.800	C2	Methylene Blue
MGS2019_C	0.30	5	B	0.300	C1	Water Content
MGS2019_C	0.30	5	B	0.300	C1	PSD-Sieve
MGS2019_C	0.30	5	B	0.300	C2	Methylene Blue
MGS2019_C	1.50	7	B	1.500	C1	Water Content
MGS2019_C	1.50	7	B	1.500	C1	PSD-Sieve
MGS2019_C	1.50	7	B	1.500	C2	Methylene Blue
MGS2019_C	2.50	9	LB	2.500	C1	Water Content
MGS2019_C	2.50	9	LB	2.500	C1	PSD-Sieve
MGS2019_C	2.50	9	LB	2.500	C2	Methylene Blue
MGS2019_D	0.40	4	B	0.400	C1	Water Content
MGS2019_D	0.40	4	B	0.400	C1	PSD-Sieve
MGS2019_D	0.40	4	B	0.400	C2	Methylene Blue
MGS2019_D	0.80	5	B	0.800	C1	Water Content

MGS2019_D	0.80	5	B	0.800 C1	PSD-Sieve
MGS2019_D	0.80	5	B	0.800 C2	Methylene Blue
MGS2019_D	1.80	6	B	1.800 C1	Water Content
MGS2019_D	1.80	6	B	1.800 C1	PSD-Sieve
MGS2019_D	1.80	6	B	1.800 C2	Methylene Blue
MGS2019_D	2.90	7	B	2.900 C1	Water Content
MGS2019_D	2.90	7	B	2.900 C1	PSD-Sieve
MGS2019_D	2.90	7	B	2.900 C2	Methylene Blue
MGS2019_E	0.00	1	B	0.000 C1	Water Content
MGS2019_E	0.00	1	B	0.000 C1	PSD-Sieve
MGS2019_E	0.00	1	B	0.000 C2	Methylene Blue
MGS2019_E1	2.00	3	B	2.000 C1	Water Content
MGS2019_E1	2.00	3	B	2.000 C1	PSD-Sieve
MGS2019_E1	2.00	3	B	2.000 C2	Methylene Blue
MGS2019_F	0.30	4	B	0.300 C1	Water Content
MGS2019_F	0.30	4	B	0.300 C1	PSD-Sieve
MGS2019_F	0.30	4	B	0.300 C1	Methylene Blue
MGS2019_F	0.90	6	B	0.900 C1	Water Content
MGS2019_F	0.90	6	B	0.900 C1	PSD-Sieve
MGS2019_F	0.90	6	B	0.900 C2	Methylene Blue
MGS2019_F	1.20	8	B	1.200 C1	Water Content
MGS2019_F	1.20	8	B	1.200 C1	PSD-Sieve
MGS2019_F	1.20	8	B	1.200 C2	Methylene Blue
MGS2019_F	2.00	10	B	2.000 C1	Water Content
MGS2019_F	2.00	10	B	2.000 C1	PSD-Sieve
MGS2019_F	2.00	10	B	2.000 C2	Methylene Blue
MGS2019_H	0.30	3	B	0.300 C1	Water Content
MGS2019_H	0.30	3	B	0.300 C1	PSD-Sieve
MGS2019_H	0.30	3	B	0.300 C2	Methylene Blue
MGS2019_H	1.40	5	LB	1.400 C1	Water Content
MGS2019_H	1.40	5	LB	1.400 C1	PSD-Sieve
MGS2019_H	1.40	5	LB	1.400 C1	Methylene Blue
MGS2019_I	0.05	3	B	0.050 C1	Water Content
MGS2019_I	0.05	3	B	0.050 C1	PSD-Sieve
MGS2019_I	0.05	3	B	0.050 C2	Methylene Blue
MGS2019_I	0.30	5	B	0.300 C1	Water Content
MGS2019_I	0.30	5	B	0.300 C1	PSD-Sieve
MGS2019_I	0.30	5	B	0.300 C2	Methylene Blue
MGS2019_I	1.10	7	B	1.100 C1	Water Content
MGS2019_I	1.10	7	B	1.100 C1	PSD-Sieve
MGS2019_I	1.10	7	B	1.100 C2	Methylene Blue
MGS2019_I	2.00	9	B	2.000 C1	Water Content
MGS2019_I	2.00	9	B	2.000 C1	PSD-Sieve
MGS2019_I	2.00	9	B	2.000 C1	Methylene Blue
MGS2019_J	0.10	3	B	0.100 C1	Water Content
MGS2019_J	0.10	3	B	0.100 C1	PSD-Sieve
MGS2019_J	0.10	3	B	0.100 C2	Methylene Blue
MGS2019_J	1.10	8	D	1.100 C1	Water Content
MGS2019_J	1.10	8	D	1.100 C1	PSD-Sieve
MGS2019_J	1.10	9	B	1.100 C2	Methylene Blue
MGS2019_J	2.00	11	B	2.000 C1	Water Content

MGS2019_J	2.00	11	B	2.000 C1	PSD-Sieve
MGS2019_J	2.00	11	B	2.000 C1	Methylene Blue
MGS2019_J	3.50	13	B	3.500 C1	Water Content
MGS2019_J	3.50	13	B	3.500 C1	PSD-Sieve
MGS2019_J	3.50	13	B	3.500 C1	Methylene Blue
MGS2019_J	5.00	16	B	5.000 C1	Water Content
MGS2019_J	5.00	16	B	5.000 C1	PSD-Sieve
MGS2019_J	5.00	16	B	5.000 C1	Methylene Blue
MGS2019_K	0.10	3	B	0.100 C1	Water Content
MGS2019_K	0.10	3	B	0.100 C1	PSD-Sieve
MGS2019_K	0.10	3	B	0.100 C2	Methylene Blue
MGS2019_K	0.50	5	B	0.500 C1	Water Content
MGS2019_K	0.50	5	B	0.500 C2	PSD-Sieve
MGS2019_K	0.50	5	B	0.500 C2	Methylene Blue
MGS2019_K	1.20	7	B	1.200 C1	Water Content
MGS2019_K	1.20	7	B	1.200 C1	PSD-Sieve
MGS2019_K	1.20	7	B	1.200 C1	Methylene Blue
MGS2019_K	2.50	9	B	2.500 C1	Water Content
MGS2019_K	2.50	9	B	2.500 C1	PSD-Sieve
MGS2019_K	2.50	9	B	2.500 C2	Methylene Blue
MGS2019_K	4.00	13	B	4.000 C1	Water Content
MGS2019_K	4.00	13	B	4.000 C1	PSD-Sieve
MGS2019_K	4.00	13	B	4.000 C1	Methylene Blue
MGS2019_K	6.00	15	B	6.000 C1	Water Content
MGS2019_K	6.00	16	B	6.000 C2	Water Content
MGS2019_K	6.00	15	B	6.000 C1	PSD-Sieve
MGS2019_K	6.00	16	B	6.000 C2	PSD-Sieve
MGS2019_K	6.00	15	B	6.000 C1	Methylene Blue
MGS2019_K	6.00	16	B	6.000 C2	Methylene Blue

ATN Number	Exploratory Position	Top Depth (m)	Base Depth (m)	Sample Ref.	Sample Type (Recovery %)	Planned tests	ATN date	Reasons for Abortive tests	TEGG instructions	SSL Comments
B19/882	DCBH2019_4	35.2	35.95	4	C	PSD, Bulk density, 3x100 TX (CU)	27/11/2019	Low recovery + Hydrocarbon contamination	Dismiss Triaxial. Perform PSD tests even with low quantity (Non standard test) Do Density on suitable undisturbed section. If not possible, dismiss	#NAME?
B19/880	DCBH2019_5	20.5	21.1	5	C	WC, Methylene, Bulk density, 3x100 TX (CU)	27/11/2019	Disturbed sample. Potential Hydrocarbon	Dismiss Density on n°5 Check for sample n°4: if intact material available, try to get 3x50mm diam. specimens for triaxial. Otherwise, do density on n°4, and do Triaxial on 50mm diameter remoulded specimens from sample n°5	
B19/881	DCBH2019_5	29.95	30.5	9	C	WC, Bulk density, 3x100 TX (CU)	27/11/2019	Low recovery + Hydrocarbon contamination	Dismiss Density Is Triaxial test feasible on 50mm diameter after trimming and keep intact specimens ? If not, do 50mm test on remoulded specimens Last action if nothing is achievable: check for sample n°12, if this can provide 3x50mm intact specimens.	
SZC B20/004	DCBH2019_2	10.05	10.61	1	C	Bulk Density	05/12/2019	Sample is loose unconsolidated sand. Un suitable for bulk density measurement	Dismiss Density	
SZC B20/005	DCBH2019_2	15.3	16.05	8	C	Bulk Density	05/12/2019	Sample is loose unconsolidated sand. Un suitable for bulk density measurement	Dismiss Density - On sample 1, 8, and/or 14, try to perform at least one Minimum-Maximum Dry Density test (BS 1377 Part 4). In case of lack of materials, grouping samples is authorized after mixing them.	Follow the ASTM Max-min D4254 (vibrating table.
SZC B20/006	DCBH2019_2	20.55	21.33	14	C	Bulk Density	05/12/2019	Sample is loose unconsolidated sand. Un suitable for bulk density measurement	Dismiss Density	
SZC B20/007	DCBH2019_2	66.3	66.87	52	C	Bulk Density	09/12/2019	Edges of the sample uneven for linear measurements. The sample is OK for other tests.	Do Density measurement as Non-Standard. Try the method described for SZC B20/008.	
SZC B20/008	DCBH2019_2	16.8	17.1	10	C	Bulk Density, PSD, MC	10/12/2019	Sample is disturbed within the tube and not cylindrical. Not suitable for linear density measurements. OK for other tests	Do Density measurement as Non-Standard: 1-tube can be cut at reduced length (10 cm ?), 2-weight the tube the soil inside, 3-remove the weight of the tube itself. And/or do different measurements of the sample diameter, to get the average volume of the sample. This is an approximation, but better than nothing. Clearly note on the test report this non-standard approach.	
SZC B20/009	DCBH2019_3	23	24	13	C	Bulk Density, PSD, WC,Particle density, Chemical	10/12/2019	Sample is loose unconsolidated sand. Not suitable for linear density measurements. OK for other tests	Dismiss Density	
SZC B20/010	DCBH2019_3	20	20.75	10	C	Bulk Density, PSD, WC,Methylene blue, Chemical	10/12/2019	Sample is loose unconsolidated sand. Not suitable for linear density measurements. OK for other tests	Dismiss Density	
SZC B20/011	DCBH2019_3	13.25	14	4	C	Bulk Density, PSD, WC,Methylene blue, Chemical	10/12/2019	Sample is disturbed within the tube and unconsolidated sand. Not suitable for linear density measurements. OK for other tests	Do Density measurement as Non-Standard. Try the method described for SZC B20/008.	
SZC B20/012	DCBH2019_3	9.5	10.5	1	C	Bulk Density, PSD, WC,Particle density, Chemical, methylene blue	10/12/2019	Sample is disturbed within the tube and unconsolidated. Not suitable for linear density measurements. OK for other tests	Do Density measurement as Non-Standard. Try the method described for SZC B20/008.	
SZC B20/013	DCBH2019_3	16.25	17	7	C	Bulk Density, PSD, WC,Methylene blue	10/12/2019	Sample is disturbed within the tube and not cylindrical. Not suitable for linear density measurements. OK for other tests	Do Density measurement as Non-Standard. Try the method described for SZC B20/008.	
SZC B20/014	DCBH2019_2	31.05	31.6	21	C	Bulk Density, PSD, WC, LL, Methylene blue	10/12/2019	Sample is loose sand. Not suitable for linear density measurements. OK for other tests	Dismiss Density	
SZC B20/015	DCBH2019_2	33.3	33.62	23	C	Bulk Density, PSD, WC, LL, Methylene blue, Chemical	10/12/2019	Sample is disturbed within the tube and noncylindrical unconsolidated. Not suitable for linear density measurements. OK for other tests	Do Density measurement as Non-Standard. Try the method described for SZC B20/008.	
SZC B20/016	DCBH2019_2	11.55	12.23	3	C	2.5 Compaction	12/12/2019	8 kg available, 12.5kg required. Not enough for no-standard	Can you take the missing 4,5 kg from the Sample #4 ? If not, dismiss.	
SZC B20/024	DCCBH2019_3	46.95	47	7	D	Bulk density	12/12/2019	Not suitable for linear density. Sample disturbed and in chunks. Possibly immersion density? OK for other tests.	Do immersion density if possible	
SZC B20/025	DCCBH2019_3	48.35	48.5	9	D	Bulk density, Particle density, LL, WC	12/12/2019	Not suitable for linear density Sample is completely disturbed and fragmented for linear density. Ok for other tests	Dismiss Density	

SZC B20/026	DCCBH2019_3	51.5	51.65	11	D	Bulk density	12/12/2019	Not suitable for linear density. Sample disturbed and in chunks. Possibly immersion density? OK for other tests.	Do immersion density if possible	
SZC B20/027	DCCBH2019_3	54.1	54.2	13	D	Bulk density, LL/WC	12/12/2019	Not suitable for linear density. Sample Is completely disturbed. OK for other tests.	Dismiss Density	
SZC B20/028	DCCBH2019_3	36.5	36.97	23	C	Bulk density, PSD, WC, LL/WC, Particle density	12/12/2019	Not suitable for linear density. Sample Is disturbed within the tube and unconsolidated. OK for other tests.	Dismiss Density	
SZC B20/029	DCCBH2019_6	45.5	45.6	13	D	Bulk density, LL/WC	12/12/2019	Not suitable for linear density. Sample is completely disturbed. Ok for other tests	Dismiss Density	
SZC B20/030	DCCBH2019_7	58.7	58.8	27	D	Bulk density, PSD, WC, LL/WC,	12/12/2019	Not suitable for linear density. Sample is loose and unconsolidated. Ok for other tests	Dismiss Density	
SZC B20/031	DCBH2019_6	62.2	62.52	2A	C	Cosol, Atterberg, WC	18/12/2019	Sample is mainly sand. Only WC and gravel content can be done	ok	
SZC B20/032	dcbh2019_2	11.55	12.23	3	C	2.5 Comp	20/12/2019	8 kg available, 12.5kg required. Sample 4 was exhausted after PSD test. Please see ATN SZC B20/016	Dismiss test	
C20-93	DCBH2019_3	59.72	60.09	38	C	Methylene Blue	24/12/2019	Sample is cohesive, unsuitable for testing	Switch to Atteberg's limits	
C20-014	DCBH2019_3	64	64.15	15	C	Methylene Blue	02/01/2020	Sample is cohesive, unsuitable for testing	Switch to Atteberg's limits	
C20-015	DCBH2019_3	65.18	65.45	42	C	Methylene Blue	23/12/2019	Sample is cohesive, unsuitable for testing	Switch to Atteberg's limits	
C20-016	DCBH2019_3	71	71.28	50	C	Methylene Blue	23/12/2019	Sample is cohesive, unsuitable for testing	Switch to Atteberg's limits	
C20-017	DCBH2019_6	56.6	56.7	15	D	Methylene Blue	23/12/2019	Sample is cohesive, unsuitable for testing	Switch to Atteberg's limits	
C20-018	DCBH2019_6	67.08	67.76	32	C	Methylene Blue	23/12/2019	Sample is cohesive, unsuitable for testing	Switch to Atteberg's limits	
C20-0019	DCBH2019_7	39.25	39.35	12	D	Methylene Blue	23/12/2019	Sample is cohesive, unsuitable for testing	Switch to Atteberg's limits	
C20-020	DCBH2019_7	57.7	57.8	26	D	Methylene Blue	23/12/2019	Sample is cohesive, unsuitable for testing	Switch to Atteberg's limits	
C20-021	DCBH2019_7	62.1	62.2	31	D	Methylene Blue	23/12/2019	Sample is cohesive, unsuitable for testing	Switch to Atteberg's limits	
C20-022	DCBH2019_7	67.71	67.81	34	D	Methylene Blue	23/12/2019	Sample is cohesive, unsuitable for testing	Switch to Atteberg's limits	
B20/033	DCBH2019_7	58.7	58.8	27	D	Seive, Sed, Atterberg, Wc	03/01/2010	Not enough material required for all testing. See ATN B20/030	Prioritize as following : 1-Atterberg, 2-Wc, 3-Sieve (stop when material unavailable)	
B20/017	DCBH2019_6	58.45	58.65	16	D	Bulk density, Sed, Sieve, MC, Chemicals	12/12/2019	Sample loose, Unsuitable for linear density, unsuitable for non-standard method or immersion density, ok for other tests	Abandon density	
B20/18	DCBH2019_7	28.75	28.85	5	D	Bulk density, Sieve, MC, Chemicals	12/12/2019	Sample loose, Unsuitable for linear density, unsuitable for non-standard method or immersion density, ok for other tests	Abandon density	
B20/20	DCBH2019_3	42.5	42.6	6	D	Bulk density, Sieve, MC, Chemicals	12/12/2019	Sample loose, Unsuitable for linear density, unsuitable for non-standard method or immersion density, ok for other tests	Abandon density	
C19/695	MGS2019_C	0.05	0.3	3	B	Water content, PSD, methylen blue	23/01/2019	Unsuitable for all tests, mainly rootlets	Abandon all tests .email 27/1/20	
B20/034	DCBH2019_3	67.14	67.44	44	C	CU X3 (50mm), methylene blue	05/02/2020	There is insufficient material. Only 270mm available. At least 350mm needed. 38mm cores are possible to be extruded from the sample. OK for methylene blue	Change for 38mm specimens	
B20/056	DCBH2019_2	10.8		2	C	CU100	10/02/2020	9.5kg of Materia. Sample is sand, 11.0kg is needed to remould 3X100mm. Can do 50mm CU test instead	Change for 50mm specimens	
B20/055	DCBH2019_7	58.03	58.029	29	C	CU triaxial	10/02/2020	Only 260mm available 330mm is required. Can do 38mm.	Change for 38mm specimens	
B20/054	DCBH2019_6	68.2	68.48	33	C	CU triaxial	10/02/2020	0nly 250mm available. 330mm is required. Can do 38mm instead	Change for 38mm specimens	
B20/057	DCBH2019_2	65.16		51	C	CU50, Filter paper, Bulk density, PSD, MC	12/02/2020	Sample is not cohesive ie sand. Unsuitable for filter paper and density. Can remould for CU test.	"Reading beds" sand => these ones were feasible as undisturbed samples in TEGG lab. If this is not possible, please proceed with remoulded specimens, but give us details on how determine the compaction density.	Please note that the filter paper test can not be done while the bulk density will be done as per the method suggested previously

B20/058	DCBH2019_3	12.5	13.25	C3	C	WC	13/02/2020	Insufficient material for testing	Please confirm that core is empty (lenght seems ok, but I assume there is nothing in there)	Confirmed by the lab
B20/059	DCBH2019_3	18.5	19.07	C8	C	WC	13/02/2020	Insufficient material for testing	Please confirm that core is empty (lenght seems ok, but I assume there is nothing in there)	Confirmed by the lab
B20/060	DCBH2019_3	41	41.75	26	C	WC	13/02/2020	Insufficient material for testing	Please confirm that core is empty (lenght seems ok, but I assume there is nothing in there)	Confirmed by the lab
B20/001	DCBH2019_4	59.88	60.9	7A	C	Bulk density, Methylene blue, Particle density, PSD, MC	14/02/2020	Sample is a rock	Abandon all tests	
B20/002	DCBH2019_7	73.94	74.42	43	C	Filter paper	17/02/2010	Sample highly fractures, fell apart during preperation	Abandoned filter paper test (email 26/2)	
B20/003	DCBH2019_5	72.48	72.58	21	C	Filter paper	17/02/2010	Sample highly fractures, fell apart during preperation	Abandoned filter paper test (email 26/2)	
B20/064	DCBH2019_6	71.2	71.61	37	C	Filter paper	17/02/2010	Sample highly fractures, fell apart during preperation	Abandoned filter paper test (email 26/2)	
B20/065	DCBH2019_5	49.34	49.45	15	C	Filter paper	17/02/2010	Sample highly fractures, fell apart during preperation	Abandoned filter paper test (email 26/2)	
C20/102	DCBH2019_3	67.14	67.44	44	C	Methylene blue	20/02/2020	Sample is silt and has all been used	Test to be done on Sample Ref.45. If clay, then do PL/LL limits. Otherwise, do Methylen Blue value anyway.	
C20/101	DCBH2019_6	69.7	70.01	35	C	Methylene blue	20/02/2020	Sample is silt possibly non plastic	Do Methylen Blue value anyway.	MB is not possible. We can do PL/LL
B20/068	DCBH2019_5	15.6	16	1	C	Methylene blue	20/02/2020	Sample is silt/clay possibly non plastic	If clay, then do PL/LL limits. Otherwise, do Methylen Blue value anyway.	
B20/067	DCBH2019_3	62.82	63.06	41	C	Methylene blue	20/02/2020	Sample is silt /claypossibly non plastic	If clay, then do PL/LL limits. Otherwise, do Methylen Blue value anyway.	
B20/071	DCBH2019_6	61.45	62.17	28	C	Sedimentation	28/02/2020	Less than 10% passing 63µm sieve, unsuitable for sed under 17892 standard	Abandon Sedimentation	
B20/072	DCBN2019_6	62.95	63.7	30	C	Sedimentation	28/02/2020	Less than 10% passing 63µm sieve, unsuitable for sed under 17892 standard	Abandon Sedimentation	
B20/073	DCBH2019_7	18.25	18.74	2	C	Sedimentation	28/02/2020	Less than 10% passing 63µm sieve, unsuitable for sed under 17892 standard	Abandon Sedimentation	
B20/074	DCBH2019_2	71.3	72.3	55	C	Sedimentation	05/03/2020	Less than 10% passing 63µm sieve, unsuitable for sed under 17892 standard	Abandon Sedimentation.	
B20/075	DCBH2019_4	59.58	59.88	7	C	Bulk density and Water content	11/03/2020	Sample not suitable for testing. It's a rock	Switch to Density/Porosity and Natural water content for rock (ISRM2007)	
B20/076	DCBH2019_3	53.09		31	C	Bulk density	12/03/2020	Not suitable for linear density or non standard method. Its loose and unconsolidated. Other tests were completed	Abandon density test	
B20/077	DCBH2019_5	81	81.34	22	C	Filter paper suction	20/03/2010	Too silty, unable to obtain suitable surface durng preparartion.	Abandon Test	
B20/078	DCBH2019_5	59.5	59.8	18	c	Methylene Blue	24/03/2020	Sample is clay could do one point L/P	Change for Plastic limits	
B20/079	DCBH2019_5	81	81.34	22	c	Methylene Blue	24/03/2020	Sample is clay could do one point L/P	Change for Plastic limits	
B20/080	DCBH2019_7	67.71	67.81	34	C	PSD,SED	16/04/2020	Insufficient material for testing. 350gm available, PSD needs 500gm	Abandon Test	

Appendix F – Ground Investigation Factual Reports

Off-shore Phase 2 Ground Investigation for Sizewell 2019/2020

Report on Ground Investigation without Geotechnical Evaluation

SZC 2019 Offshore Ground Investigation

Factual | Sizewell, East Suffolk

G190016U-GIR | 01 | 29 January 2020

Draft

NNB Generation Company (SZC) Limited

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Client Information

Client	NNB Generation Company (SZC) Limited
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Client Contact	Kyriaki Semertzidou

Revision History

Issue	Date	Status	Comments on Content	Prepared By	Checked By	Approved By
01	29 January 2019	Draft	-	CAY	ROR	

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BR	Balazs Rigler	Geophysics Manager (Wireline)
TN	Tim Nixon	Geophysics Manager (Check Shot)
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29 January 2020

Dear Ms Kyriaki Semertzidou,

This report presents draft factual data on the ground investigation for the project SZC 2019 Offshore Ground Investigation at Sizewell, East Suffolk.

This report was prepared by Chelsea Au-Yeung under the supervision of Ruth O'Regan.

We thank you for the opportunity to be of service to you during this project. If you require any additional information or clarification, please contact those listed below.

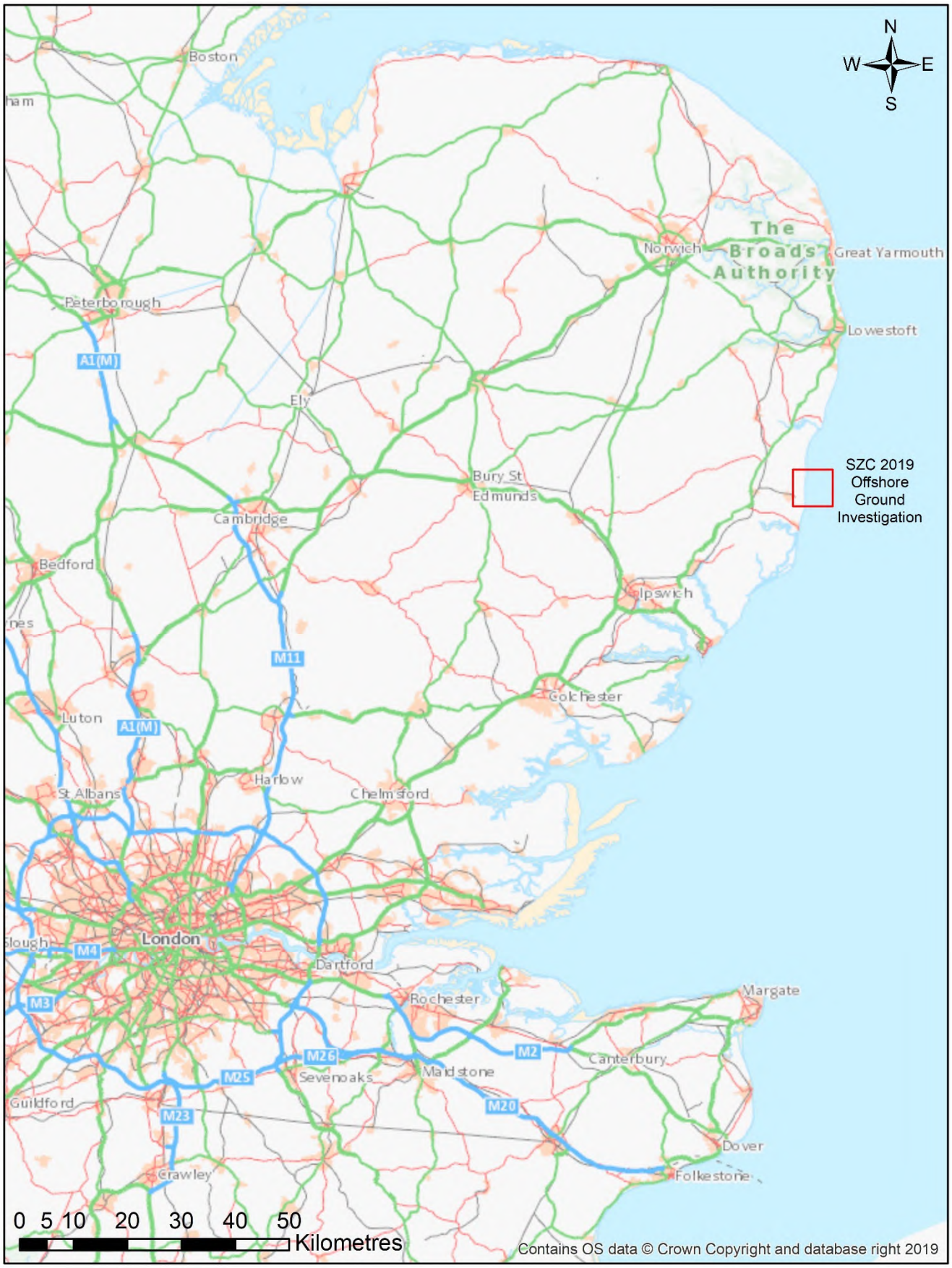
Yours faithfully,

Chelsea Au-Yeung
Project Engineer

Ruth O'Regan
Principal Engineer

Distribution: One electronic copy to Ms Kyriaki Semertzidou
and various persons via Fugro Gaia Books / Secure File Transfer

Frontispiece



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Abbreviations

ABI	Acoustic borehole imager
AGS	Association of Geotechnical Specialists
API	American Petroleum Institute
ASCII	American Standard Code for Information Interchange
ASTM	American Society for Testing and Materials
BS	British Standard
BSL	Below seabed level
CAL3	Three-arm caliper
CIRIA	Construction Industry Research and Information Association
CSV	Comma-separated values
EN	European Standard
EPSG	European Petroleum Survey Group
GNSS	Global Navigation Satellite Systems
HOC	Hazard observation card
ISO	Organisation for International Standardisation
LAS	Log ASCII Standard
NGR	Natural gamma
OD	Ordnance Datum (Newlyn)
OSGB	Ordnance Survey Great Britain
PSL	P and S-wave suspension logger
RQD	Rock Quality Designation
SCR	Solid Core Recovery
SPT	Standard penetration test
TCR	Total Core Recovery
TWT	Two way travel times
UHR	Ultra High Resolution
UKAS	United Kingdom Accreditation Service

1. Introduction

On the instructions and under the supervision of NNB Generation Company (SZC) Limited (NNB) (the Employer), a site investigation has been carried out by Fugro at Sizewell, East Suffolk.

It is proposed to construct a new power plant, adjacent to the existing one, with intake and outfall tunnels and shafts. The objective of the investigation was to determine the ground and ground contamination conditions at the site and to provide information that would assist NNB in the geotechnical and geoenvironmental appraisal of the site. The scope of the investigation was determined by NNB.

A factual report on ground investigation, without geotechnical evaluation, was requested, including the site plan, exploratory hole records, photographs, field test results, geophysical records, and laboratory test results. The report has been provided as electronic copy in PDF. Digital data have also been provided as appropriate: AGS 4.0 format (the exploratory hole records including field test and laboratory test data); JPEG files (photographs); LAS, SG2 and Excel formats (geophysics data); Excel files (effective stress, geotechnical chemical and geoenvironmental laboratory test results).

The site work was undertaken overwater from the Fugro jack-up barge, Excalibur, from 21 May to 31 July 2019 and comprised borehole investigation with wireline geophysical logging, check-shot survey and position survey.

2. The Site and Geology

2.1 Site Location and Description

The site is located at Sizewell in East Suffolk.

The proposed power plant is envisaged adjacent to the existing Sizewell Power Station, north of the Sizewell village, off Leiston. The site generally extends eastward to about 4.5 km off the shore along the alignments of the proposed intake and outfall tunnels (Intake 1, Intake 2 and Outfall).

Intake 1 extends approximately between the National Grid references 648 135 E, 263 833 N and 650 722 E, 263 308 N.

Intake 2 extends approximately between the National Grid references 648 128 E, 264 199 N and 650 926 E, 264 253 N.

Outfall extends approximately between the National Grid references 648 731 E, 264 096 N and 651 923 E, 264 128 N.

2.2 Geology

The records of the British Geological Survey (BGS, 1996) indicate that the area is generally underlain by Marine Deposits (tidal flat mud deposits, sand bank deposits, sand and gravel shoreface and beach deposits), undifferentiated Crag Group and Coralline Crag over London Clay Formation, Harwich Formation, Lambeth Group, Ormesby Clay Formation and Chalk Group.

This generally concurs with the information provided with the contract documentation.

3. Marine Geotechnical Investigation

3.1 Scope of Work

The original scope of the ground investigation comprised interpretative reporting on 18 twin boreholes, with sampling and field testing, wireline geophysical logging and check-shot survey, position survey, core logging and photographing, and geotechnical and geoenvironmental laboratory testing:

- Fifteen twin boreholes of:
  - Sonic core drilling to approximately 55 m BSL;
  - Destructive drilling along with standard penetration tests (SPTs) to approximately 55 m BSL.
- Two twin boreholes of:
  - Sonic core drilling to approximately 55 m BSL;
  - Destructive drilling along with SPTs to top of London Clay Formation, then rotary core drilling to approximately 110 m BSL.
- One twin borehole of:
  - Sonic core drilling to approximately 55 m BSL;
  - Destructive drilling to top of London Clay Formation, then rotary core drilling to approximately 110 m BSL.

The scope was reviewed and revised prior to and during the fieldwork stage. Factual reporting was requested, instead of interpretative reporting; rotary cored sections were added to ten boreholes.

The scope of the ground investigation was determined by NNB.

An exploratory hole location plan (Figure LP1) showing the approximate as-built positions of the boreholes is given in Appendix B.

Table C.17 in Appendix C summarises the scope of site work undertaken, giving a list of the boreholes with the construction method, borehole positions (coordinates and levels), hole depths and the associated field tests.

3.2 Vessels, Plant and Equipment

The site work was conducted using the Fugro jack-up barge, Excalibur, which was specifically developed for performing nearshore, high quality geotechnical site investigations and construction works. The barge includes an eight-leg jack-up system allowing offshore works in water depths up to 40 m.

Drilling, testing and sampling equipment on the Excalibur comprised:

- GeoSonic LS600 hydraulic drill rig capable of sonic drilling operations;

- CR2 marine drill mast incorporating a hydraulic power swivel for both rotary and percussive drilling operations;
- Comacchio MC1200 hydraulic drill rig capable of both rotary and percussive drilling operations;
- Geobor-S wireline triple barrel rotary coring system, with semi-rigid core liner and flushing medium, which produces a hole diameter of 146 mm and recovers cores of nominal 102 mm diameter;
- Mud mixing system – used to mix and hold the drill flush used during drilling operations to stabilise the borehole;
- Trip hammer used to carry out standard penetration tests (SPTs).

TSM KERMOR tugboat was used as both a safety boat and a crew change boat for the barge.

Vessel and plant datasheets are presented in Appendix K. Trip hammer calibration certificate is given in Appendix E along with the SPT results.

3.3 Field Activities

3.3.1 Site Activities

The overwater field operations were carried out 24 hours a day, generally in two 12 hour shifts.

Daily Progress Records (DPR) were completed for each 24 hour period during the overwater fieldwork, defined from midnight to midnight, and include information on the field operations and activities together with summary information relating to progress. The DPRs are presented in Appendix J.

Table 3.1 shows a breakdown of the overwater site activities.

Table 3.1: Summary of Activities

Activity	Duration [hr]
Mobilisation	120
Demobilisation	54.17
Drilling/Geophysical/General Operations	2715
Weather Standby	190.67
Fugro Standby	77.17
Standby (Other)	34.66

Core logging, photographing and subsampling were carried out onshore at the logging facility provided by NNB during and after the field operation.

3.3.2 Health, Safety and Environment

A Hazard Observation Card (HOC) system was operated on the site allowing operatives to report Unsafe Acts, Unsafe Conditions, Safe Acts, or make HSE suggestions. HOCs are uploaded to the Fugro IMPACT system which allows them to be tracked, monitored and responsibilities relating to their close-out to be assigned with an automated follow-up system in place.

In addition to the HOC system, Fugro IMPACT is also used to report more serious incidents. An incident includes any accident, near miss or dangerous occurrence and any accidents in which any employee was injured or any damage to equipment was suffered.

Table 3.2 summarises the health, safety and environment statistics for the site work period.

Table 3.2: Health and Safety Statistics

Activity	Duration [hr]	Number
Contractors total exposure (hours)	23784	-
HOCs	-	52
Safety Drills	-	4
Tool Box Talks	-	122
Incidents/Near Misses	-	6*
HSE Meetings / Inspections / Audits	-	7

Notes
* = This number of incidents/near misses includes one incident occurred at the onshore logging facility after the overwater field operation.

Five incidents and one near miss occurred during and after the field operation. These were recorded and the reports are given in Appendix J.

3.3.3 Grouting Operations

All boreholes were generally grouted from the base to the top of the borehole with a 2:1 bentonite/cement grout, mixed at a solid to water ratio of 5:2 by weight. The grout was pumped bottom up in the borehole via a tremie pipe. This was process was conducted in 10 m increments and the borehole was dipped immediately afterwards before proceeding with the next interval.

A number of borehole sections were filled with their arisings for these sections collapsed before or during grouting operations.

3.3.4 Navigation and Positioning Survey

During primary positioning of the jack-up barge, Excalibur, Fugro Starfix systems were used. The heading was determined using a Meridian Gyrocompass with a ProTrack GNSS system providing a backup. Antenna position data was combined with the gyrocompass data in StarFix.NG navigation software to compute the vessel position.

The jack-up barge positioning systems were configured to record all navigation data which enables replay of the barge movements and review offline. A mean position report was configured to the project specification to provide the positional information for each borehole position. The mean position reports are reproduced in Appendix I.

A survey systems calibration report is also provided in Appendix I.

3.3.5 Geodetic and Projection Parameters and Vertical Datum

3.3.5.1 Project Coordinate Reference System

Table 3.3 provides details of the geodetic datum and map projection adopted for the project.

Table 3.3: Project Geodectic and Projection Parameters

Parameters	
Project Geodetic Datum	
Geodetic Datum	OSGB 1936; EPSG 6277
Ellipsoid	Airy 1830
Semi major axis [m]	6,377,563.396
Inverse Flattening	299.3249646
Project Projection Parameters	
Projection	Transverse Mercator
Grid	British National Grid; EPSG 19916
Latitude Origin	49°00'00.000"N
Central Meridian	002°00'00.000"W
Scale Factor on Central Meridian	0.999601272
False Easting [m]	400,000
False Northing [m]	−100,000
Vertical Datum	
Datum	Ordnance Datum (Newlyn)

3.3.5.2 Vertical Datum

The vertical datum for this project is Ordnance Datum (Newlyn) (OD).

3.3.5.3 Depth Measurement

The depth to seabed level was measured by a sounding lead within the drill string prior to testing at the location. The depths stated on the borehole records are referenced as metres below seabed level (m BSL). The elevation of the seabed is also stated on the exploratory hole records, referenced as metres Ordnance Datum (m OD).

3.4 Geotechnical Activities

3.4.1 General

The investigation was carried out in accordance with BS 5930:2015, BS EN ISO 14688–1:2018, BS EN ISO 14688–2:2018, BS EN ISO 14689:2018 and BS 10175:2011+A2:2017, as appropriate.

The borehole positions are illustrated on the exploratory hole location plan (Figure LP1) in Appendix B.

A borehole summary (Table C.17) listing the borehole positions (coordinates and levels) with the construction method, hole depths and the associated field tests is given Appendix C.4, preceding the borehole records. The scope of the investigation is detailed in Section 3.1.

3.4.2 Soil and Rock Description and Identification

3.4.2.1 Scope

On Excalibur, cores were examined from the ends of core liners to give a brief descriptions where requested by NNB; initial estimates of the core recovery through the core liners were also recorded. The brief descriptions and the initial estimates should be treated with cautions.

On Excalibur, samples that are associated with the standard penetration tests (SPT samples) were also examined; geoenvironmental samples were taken from the cores or from the combined SPT samples as instructed and sent directly to the geoenvironmental laboratory for testing.

Cores were retained for 31 boreholes (18 sonic cored boreholes and 13 of the rotary boreholes). Core logging, photographing and subsampling were requested on selective boreholes as listed in Table 3.4.

Core logging, photographing and subsampling were carried out onshore at the logging facility provided by NNB during and after the field operation.

For boreholes that core logging was carried out, the brief core end descriptions and initial estimates of the core recovery were superseded by the core logging records.

Table 3.4: Core Logging, Photographing and Subsampling Summary

	Borehole Reference	Core Photographing	Core Subsampling	Core Logging
Intake 1				
1	IT1_SB_01	✓	✓	✓
2	IT1_SB_02	✓	✓	✓
3	IT1_SB_03	✓	✓	✓
4	IT1_SB_04	✓	✓	✓
5	IT1_SB_05	✓	✓	✓
6	IT1_SB_06	✓	✓	✓
7	IT1_SB_07	✓	✓	✓
8	IT1_SPT_01	(not required)	✓	(not required)
9	IT1_SPT_02	(not required)	✓	(not required)
10	IT1_SPT_04	✓	✓	✓
11	IT1_SPT_05	(not required)	✓	(not required)
Intake 2				
12	IT2_SB_01	✓	✓	✓
13	IT2_SB_02	✓	✓	✓
14	IT2_SB_03	✓	✓	✓
15	IT2_SB_04	✓	✓	✓
16	IT2_SPT_02	✓	✓	✓
17	IT2_SPT_03	(not required)	✓	(not required)
18	IT2_SPT_04	(not required)	✓	(not required)
Outfall				
19	OT_SB_01	✓	✓	✓
20	OT_SB_02	✓	✓	✓
21	OT_SB_03	✓	✓	✓
22	OT_SB_04	✓	✓	✓
23	OT_SB_05	✓	✓	✓
24	OT_SB_06	✓	✓	✓
25	OT_SB_07	✓	✓	✓
26	OT_SPT_02	(not required)	✓	(not required)
27	OT_SPT_03	✓	✓	✓
28	OT_SPT_04	(not required)	✓	(not required)
29	OT_SPT_05	(not required)	✓	(not required)
30	OT_SPT_06	(not required)	✓	(not required)
31	OT_RB_07	✓	✓	✓

3.4.2.2 General

Details of the borehole sampling and testing carried out, together with the descriptions of the strata encountered, are given on the borehole records in Appendix C.4.

An explanation of the symbols and abbreviations used on the borehole records, together with the method of strata description utilised, is given in the Notes on Exploratory Hole Records in Appendix C.1.

The strata descriptions given on the borehole records, unless otherwise noted, are compiled from an examination of the disturbed samples or core samples, together with the results of any field and laboratory testing. Density index descriptions are based on the results of the standard penetration tests (SPTs) and have not been amended to consider any overburden effects. The consistency of cohesive strata is based on manual assessment only. Where there is a degree of uncertainty regarding the density index or consistency of the soil, the terms 'probably' or 'possibly' have been used and the descriptions given should be treated with caution.

In the rotary open hole borehole sections, where SPTs were undertaken, the SPT sample descriptions reported on the borehole records in Appendix C.4, are based on the disturbed material recorded from the SPT liners. These descriptions alone cannot provide representative information to infer strata descriptions or boundaries. The strata descriptions and boundaries given are based on driller's records only.

3.4.2.3 Core Related

Total Core Recovery (TCR) has been determined for all core runs. For rotary boreholes that cores were recovered but core logging was not required, as specified by NNB, TCR was estimated through the core liners, without proper core examination. These estimated TCR values should be treated with caution.

In rock strata only, the Solid Core Recovery (SCR) and Rock Quality Designation (RQD) have been determined using the modified proposal, as given in Norbury et al. (1986) that a 'solid cylinder' should be defined as having a full diameter (but not necessarily a full circumference) without discontinuities and should be measured axially along the core. In several instances, the logging engineers assessed that some core from one run was recovered with the core from the next run. In these cases, the TCR, SCR and RQD have been determined assuming that the core had been recovered from the core run in which it had first been drilled, and details are given in the remarks section of the borehole record.

Assumed zones of core loss have been identified only where the Total Core Recovery (TCR) is less than or equal to 90 %. Generally, assumed zones of core loss, defined as 0.2 m thick or greater, have been assigned strata boundaries and are reflected in both the strata legend and the fracture spacing column on the borehole records; assumed zones of core loss, defined as less than 0.2 m thick, are entered as depth-related remarks within the strata descriptions and are reflected in the fracture spacing column only on the borehole records.

Where rock strata were penetrated in the rotary boreholes, discontinuity descriptions are provided. The discontinuity records are given in Appendix C.4 following each of the relevant borehole records. An explanation of symbols and abbreviations used is given on the Notes on Discontinuity Records in Appendix C.3.

Drilling induced fractures are not reported on the borehole and discontinuity records and are not taken into consideration for the core measurements and fracture spacing records, as presented in Appendix C.4. Incipient fractures are reported but are not taken into consideration for the core measurements and fracture spacing records.

In general, fractures which dip approximately between 0° and 5° have been described as subhorizontal and fractures which dip approximately between 85° and 90° have been described as subvertical.

Fracture spacings have been estimated using the approximate distance along the core axis between mid-points of the fractures, regardless of the fracture dip angles. Subvertical and vertical fractures were not included in fracture spacing records as spacing could not be reliably determined. A set of fracture spacing values per zone with similar fracturing characteristics was given as the estimated minimum, average and maximum, as appropriate. The average value was estimated based on the modal spacings over the zone; or where the mode value cannot be determined, an arithmetic mean value is given.

Descriptions have been given to non intact zones, both identified as natural and drilling induced. However, only those 'natural' non intact zones of more than 100 mm length are taken into consideration for fracture spacing records.

The assumed zone of core loss and the 'natural' non intact zones are reflected in the fracture spacing column on the borehole records, using the abbreviations NR and NI, respectively.

3.4.2.4 Chalk Descriptions

An explanation of the method of logging adopted in this project for the Chalk is given in Appendix C.2, together with an outline of the various schemes commonly in use.

With the exception of the field rock strength estimation, for which BS EN ISO 14689:2018 was to follow, the Chalk was described and classified according to CIRIA scheme (CIRIA, 2002).

CIRIA grades were given for the Chalk strata if possible. Subvertical and vertical fractures were not included in CIRIA grading as spacing could not be reliably determined.

CIRIA grades were also assigned tentatively to the 'natural' and possibly 'natural' non intact zones whenever possible; otherwise 'CIRIA Grade undetermined' was given on the descriptions. When structureless grades D_m or D_c were given, the grading may have been solely based on the fragment size and the proportion of comminuted material recovered, and may not take into account:

- The loss of any fines material during drilling;
- That the original structure may have been obscured, altered or even destroyed by drilling.

The terms 'probably' or 'possibly' have been used to denote a considerable degrees of uncertainty and CIRIA grading should be treated with caution.

3.4.2.5 Stratigraphic Nomenclature

The stratigraphic nomenclature adopted for the investigation was provided by NNB. Stratigraphic names were assigned by the logging engineers where possible and reviewed with any available adjacent exploratory hole records.

Uncertainty in the stratigraphic name assigned to each stratum is denoted by the terms 'probable' or 'possible'.

3.4.3 Borehole Sampling and Core Subsampling

The sample categories and achievable quality classes are defined in EN ISO 22475-1:2006 for each sample/sampler system.

In boreholes advanced by rotary open hole drilling, disturbed samples were taken at regular vertical intervals during boring, along with SPTs, in granular soils and top of the cohesive soils. Disturbed samples of soil were placed in a plastic tub or double sealed in plastic bags.

Cores recovered from sonic core drilling and rotary core drilling were transported to the onshore logging facility provided by NNB, where core subsampling was carried out.

Disturbed samples were taken from the cores and were placed in plastic tubs (D samples) or sealed in plastic bags (B samples). Intact samples from the recovered cores were preserved (C samples).

Selective core runs and core subsample were preserved for specialist laboratory testing at Laboratorie CEMETE-EDF-TEGG. The samples were sealed within the unopened core liners on Excalibur; or resealed in the replaced core liners with bubble wrap, as appropriate, at the onshore logging facility. The samples were stored and transported in core boxes.

Samples were transported to the laboratories for examination and testing as scheduled by NNB:

- Samples that were designated for the specialist laboratory testing were transported directly to Laboratorie CEMETE-EDF-TEGG;
- Geotechnical samples that were designated for chemical testing were transported directly to the subcontracted chemical laboratory;
- All other geotechnical samples were transported to Fugro's in-house laboratory in Consett, County Durham;
- Geoenvironmental samples were transported directly to the subcontracted environmental laboratory. The sample volumes and container types used are dictated by

the requirements of the designated testing. Containers are provided by the selected environmental laboratory and filled as instructed by the laboratory guidelines, ensuring minimisation of sample headspace.

Laboratory details are given in Section 4 (Geotechnical Laboratory Testing) and Section 5 (Geoenvironmental Laboratory Testing).

3.4.4 Photographic Records

Core photographs are presented in Appendix D. The photographs have also been provided as digital data in JPEG format.

3.4.5 Sonic (Resonance) Drilling

Eighteen boreholes were advanced by sonic drilling techniques to depths of between 28.00 m BSL and 60.00 m BSL.

The sonic cored boreholes are named 'SB', with letter prefix indicating which proposed tunnel alignment the boreholes are located ('IT1' for Intake 1, 'IT2' for Intake 2, and 'OT' for Outfall) and with a number suffix.

Sonic (resonance) drilling techniques, using high frequency sinusoidal vibrations, were carried out within granular and cohesive soils, and in some minor rock layers. GeoSonic LS600 sonic drill rig was utilised on site. The sonic coring was carried out using double-tube core barrels with a fabric sock.

The borehole records are presented in Appendix C.4.

3.4.6 Rotary Drilling

A rotary borehole was drilled adjacent to each sonic cored borehole to achieve the associated SPT data and/or to further extend the borehole by rotary coring. The corresponding twin boreholes are indicated by the borehole names with the same letter prefix ('IT1' for Intake 1, 'IT2' for Intake 2, and 'OT' for Outfall) and with the same number suffix.

Seventeen of the rotary boreholes had SPTs undertaken, as instructed; these boreholes are named with letter infix 'SPT'. SPTs were not required for one of the rotary boreholes; the borehole is named with letter infix 'RB'.

Fifteen of the boreholes were advanced by rotary drilling to depths of between 55.00 m BSL and 57.25 m BSL. Three of the boreholes were advanced by rotary drilling to depths of 110.00 m BSL (OT_SPT_03), 111.20 m BSL (OT_RB_07) and 110.40 m BSL (IT1_SPT_04).

Generally prior to drilling, casing was installed by wash boring method to a sufficient depth to achieve borehole stability. The boreholes were then advanced by rotary open hole within granular strata, then rotary core drilling techniques within cohesive and rock strata using Comacchio MC1200 drill rig.

The open hole drilling was carried out using a Geobor S size wireline rotary coring system with a non coring device using tricone bits.

The coring was carried out using a Geobor S size wireline triple core barrel and semi-rigid coreliner with polycrystalline diamonds (PCD) bits.

Water or polymer was used as the flush medium.

The borehole records, together with the discontinuity records where continuous rock strata were encountered in the deeper boreholes (IT1_SPT_04, OT_SPT_03 and OT_RB_07), are presented in Appendix C.4.

3.4.7 Standard Penetration Tests

Standard penetration tests (SPTs) using a split spoon (S) were carried out in accordance with BS EN ISO 22476–3:2005+A1:2011 at regular vertical intervals in granular soils and top of the cohesive soils.

The results are shown as S(N) values on the borehole records at the relevant depths in Appendix C.4 and tabulated and in Appendix E.1. Relevant SPT equipment calibration report is provided in Appendix E.2.

The SPT data have been provided digitally in AGS 4.0 and Excel formats, as appropriate.

3.4.8 Wireline Geophysical Logging

3.4.8.1 Scope

Wireline geophysical logging was undertaken in the 18 rotary boreholes.

Natural gamma (NGR), three-arm caliper (CAL3) and P&S-wave suspension logging (PSL) methods were applied to all the 18 boreholes.

Acoustic borehole Imager (ABI) method was applied to three of the boreholes.

Wireline geophysical logging information, including logging dates, logging types and intervals, is summarised in Table F.5 in Appendix F.1, preceding the wireline geophysical records.

3.4.8.2 Methodology

Acoustic borehole Imager (ABI), natural gamma (NGR), three-arm caliper (CAL3) and P&S-wave suspension logging (PSL) methods were used in this site investigation.

Datasheets of the equipment and tools are provided in Appendix F.1, followed by summary descriptions of the logging methods (Table F.1) and summary list of the logging parameters (Table F.2).

The general logging sequence was:

1. Upon completion of borehole, NGR tool was run first while the Geobor system was still in the borehole;
2. A section of casing was pulled (casing pull 1);
3. Caliper logging of the uncased section;
4. ABI logging (if applicable) of the same uncased section;
5. PSL logging of the same uncased section;
6. Repeat the logging per sections of casing pull. Number of casing pulls was determined according to the borehole stability.
7. Upon completion, field PSL data gathered from all the six channels were provided to NNB.

3.4.8.3 Data Processing and Presentation

General data processing procedures of the acoustic borehole Imager (ABI), natural gamma (NGR), three-arm caliper (CAL3) and the P&S-wave suspension logging (PSL) data are listed in Table F.3 given in Appendix F.1. The table also state how the processed data are usually presented.

For ABI data processing, manual discontinuity picking and classification follow Table F.4 given in Appendix F.1.

The PSL data were processed using PS Logger Application v 1.2/10/08/08, PS Log Analysis and WellCAD 5.2 software.

The ABI records are presented as acoustic televiewer logs, discontinuity tables, polar plots and rose plots. The NGR, CAL3 and PSL records are presented as composite plots (natural gamma, caliper and P&S-wave suspension logs) and velocity tables.

The natural gamma and caliper logs are presented together with compressional and shear velocities and derived Poisson's Ratio determined based on the PSL data.

The records are given in in Appendix F.1. Wireline geophysical logging information, including logging dates, logging types and intervals, is summarised in Table F.5, preceding the records.

Digital data have also been provided in LAS and Excel formats, as appropriate.

3.4.8.4 Data Commentary

Using the ABI, azimuth data of discontinuities within 1.50 m casing should be handled with caution due to steel affecting the magnetometers of the tool.

On the composite plots, velocity data are missing in some sections where borehole was not possible to be kept open. Shear wave velocity was not determinable in sections of high borehole wall rugosity (no tube – no tube wave).

3.4.9 Check-Shot Survey

3.4.9.1 Scope

The main objective of the check-shot survey was to derive a time-depth relationships to calibrate a UHR seismic data set collected previously by a third party.

Table 3.5 summarises the check-shot survey undertaken in the seven rotary boreholes.

Table 3.5: Check-Shot Survey Summary

	Borehole Reference	Maximum Depth Logged [m BSL]
Intake 1		
1	IT1_SPT_02	49.00
2	IT1_SPT_04	108.00
3	IT1_SPT_05	50.50
Intake 2		
4	IT2_SPT_02	22.50
5	IT2_SPT_03	52.00
Outfall		
6	OT_SPT_03	108.00*
7	OT_SPT_04	53.50

Notes
* = In borehole OT_SPT_03, logging from 86.00m BSL, data interval is 1 m (instead of 0.5 m).

3.4.9.2 Methodology

Datasheets of the seismic equipment are provided in Appendix F.2.

Descriptions of the survey methodology and data handling is also included in Appendix F.2.

The check-shot records are presented graphically at the end of Appendix F.2, which include complete borehole gathers, inverted two way travel times (TWT) versus depth plots and inversion parameter plots (raypath models, velocity models and dromochronics).

Tabulated vertical TWT data, borehole gathers and raw P-wave first arrival pick times have been provided digitally in Excel and SG2 formats, as appropriate.

4. Geotechnical Laboratory Testing

The geotechnical soil and rock laboratory tests were scheduled by NNB.

The tests were undertaken at the following laboratories:

- Fugro GeoServices Limited (FGSL), Consett, County Durham;
- Derwentside Environmental Testing Services Limited (DETS), Consett, County Durham.

The laboratories' UKAS accreditation certificates are presented before the test results in Appendix G. The test results are given in tabular and graphical form as appropriate.

Specialist laboratory tests are arranged by NNB. with Laboratorie CEMETE-EDF-TEGG. The testing is out of scope of this report and the results are not included.

Table 4.1 summarises the types and methods of geotechnical laboratory tests for the investigation, the numbers of tests reported, and the laboratories of which the tests were undertaken.

Table 4.1: Summary of Geotechnical Testing Undertaken

Laboratory Test Type	Laboratory Test Method	Number of Tests Reported	Laboratory
Soil Classification			
Water Content	BS EN ISO 17892-1:2014	64	FGSL
Atterberg Limits	BS 1377-2:1990	38	
Bulk Density	BS EN ISO 17892-2:2014	26	
Particle Size Distribution (PSD)			
PSD (sieving) by Wet Sieving	BS EN ISO 17892-4:2016 Clause 5.2	57*	FGSL
PSD (sedimentation) by Pipette	BS EN ISO 17892-4:2016 Clause 5.4		
Fines Content (<75µm)	ASTM D1140-00 Method A	229	
Compaction Related			
Maximum and Minimum Dry Densities for Granular Soils	BS 1377-4:1990	29	FGSL
Shear Strength (Effective Stress)			
CDT	BS 1377-8:1990, modified to NNB's requirements	0	
CUT	BS 1377-8:1990, modified to NNB's requirements	7	FGSL
Shear Strength (Total Stress)			
Shear Strength by Direct Shear	BS 1377-7:1990, modified to NNB's requirements	10	FGSL
Other Soil Testing			
Methylene Blue	(as specified on results)	0	FGSL
Rock Testing			

Laboratory Test Type	Laboratory Test Method	Number of Tests Reported	Laboratory
Intact Dry Density of Irregular Chalk Lumps	Lamont-Black et al (1996)	13	FGSL
Saturation Moisture Content	BS1377-2:1990	9	FGSL
Point Load Strength Index[†]	XP P 94-429	63[†]	FGSL
Uniaxial Compression Test on Rock (Chalk)	ISRM (2007)	10	FGSL
Chemical Tests			
pH, carbonate, water soluble sulphate and total soluble sulphate	BS1377-3:1990 and in-house methods (as specified on results)	29	DETS

Notes
CDT = Isotropically consolidated undrained triaxial compression tests (with measurement of pore water pressure)
CUT = Isotropically consolidated drained triaxial compression (with measurement of pore water pressure)
DETS = Derwentside Environmental Testing Services Limited
FGSL = Fugro GeoServices Limited, Consett
PSD = Particle size distribution
* = PSD analyses were undertaken on 57 samples by sieving and continued by sedimentation.
[†] = Point load strength index was determined for 63 specimens taken from 44 samples. The tests were carried out at the onshore logging facility where core liners were removed and core subsampling was undertaken.

Attention is drawn to the comments on interpretation of the results of the investigation on the Notes on Exploratory Hole Records (Appendix C.1) and the Notes on Geotechnical Laboratory Test Results (Appendix G.1).

Digital data have also been provided in AGS 4.0 and Excel formats, as appropriate.

5. Geoenvironmental Laboratory Testing

The geoenvironmental laboratory tests were scheduled by NNB. A total of 39 soil samples were tested.

The tests were undertaken at the laboratories of SOCOTEC UK Limited (SOCOTEC), Burton-on-Trent.

The laboratories' UKAS accreditation certificate is presented in Appendix H.2.

Table H.1 summarises the number of tests reported per test suites. Table H.2 lists the analytical determinands per test suites. Both tables are given in Appendix H.3, preceding the test results as given on SOCOTEC certificates of analysis in Appendix H.4. The test results include details of any deviating samples and the reasons for any deviations.

General information on sample collection, preservation, and deviating samples is given on the Notes on Geoenvironmental Laboratory Testing (Appendix H.1).

Digital data have also been provided in AGS 4.0 and Excel formats, as appropriate.

6. Digital Data Deliverables

Table 6.1 summarises the types and formats of the digital data provided

Table 6.1: Digital Data Deliverables

Content		Data Format	File Reference	Remarks
Exploratory Hole Records, and Field Test and Laboratory Test Data		AGS 4.0	G190016U_AGS.ags	Accompanying this report.
Core Photographs		JPEG	(various)	Provided separately via Fugro Gaia Books† (pre-draft report stage).
SPT Data*		Excel	G190016U_SPT_calculation.zip	Accompanying this report.
Geophysics Data	Wireline Geophysics	LAS and Excel	G190016U_GeophyBH.zip	Accompanying this report.
	Check Shot	SG2 and Excel	G190016U_GeophyCheckShot.zip	Accompanying this report.
Geotechnical Laboratory Test Data	Fines Content (<75µm)	Excel	G190019U_PSDFines(ASTM).xlsm	Accompanying this report.
	Shear Strength (Effective Stress) ‡	Excel	G190016U_CUT_raw.zip	Accompanying this report.
	Chemical Analysis‡	Excel	(various)	Provided separately via Fugro Gaia Books† along with draft test results (pre-draft report stage).
Geoenvironmental Laboratory Test Data‡		Excel	(various)	Provided separately via Fugro Gaia Books† along with draft test results (pre-draft report stage).

Notes
AGS = Association of Geotechnical Specialists
ASCII = American Standard Code for Information Interchange
LAS = Log ASCII Standard
SPT = Standard penetration test
* = SPT data are provided in both AGS and Excel formats, as appropriate.
‡ = The laboratory test data are provided in both AGS and Excel formats, as appropriate.
† = Fugro Gaia Books = SharePoint platform set up for the project; user access provided by Fugro upon request via NNB. (https://fugro.sharepoint.com/sites/GBLand/GaiaBooks/StdPjcts/G190016U/ClientDelivery/SitePages/Home.aspx).

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Appendix A

Limitations on Use of Data

Appendix A Contents

A.1 Limitations of Use of Data

A.1 Limitations of Use of Data

The scope of the investigation was determined by NNB Generation Company (SZC) Limited for the particular project requirements set out in the Specification for the Contract. A factual report only was required, without interpretation of the data from the present investigation or consideration of data from other sources, except where noted. The data presented in this report reflects the site conditions encountered at the time the investigation was performed. The investigation has disclosed evidence of conditions at point locations across the site which provides information about discrete volumes of soil or rock. Accordingly, there may be ground conditions at the site which may not have been revealed by the investigation, and the passage of time may give rise to changes in the conditions encountered. Any interpolation or extrapolation of strata from the exploratory holes is subject to the interpretation of the reader. Any cross sections or plots are generalised by necessity and have been based on information found at the exploratory holes and depths sampled and tested. The records should be read in conjunction with the Notes on Exploratory Hole Records in Appendix C.1. Particular attention is drawn to the comments made on groundwater and interpretation which are given in these notes.

The investigation has been carried out by Fugro GeoServices Limited and the report has been prepared for the sole internal use of NNB Generation Company (SZC) Limited. This report shall not be relied upon or transferred to any other parties without the express written authorisation of Fugro GeoServices Limited. If an unauthorised third party comes into possession of this report they rely upon it at their peril and the authors owe them no duty of care and skill.

It is Fugro GeoServices Limited's understanding that this report is to be used for the purposes as described in the Specification for the investigation and as summarised in the text of the report. Should the purpose for which the report is used or the proposed use of the site change, this report may no longer be valid. Any further use or reliance upon the report in these circumstances by NNB Generation Company (SZC) Limited without further review by and advice from Fugro GeoServices Limited shall be at their sole and own risk.

Appendix B

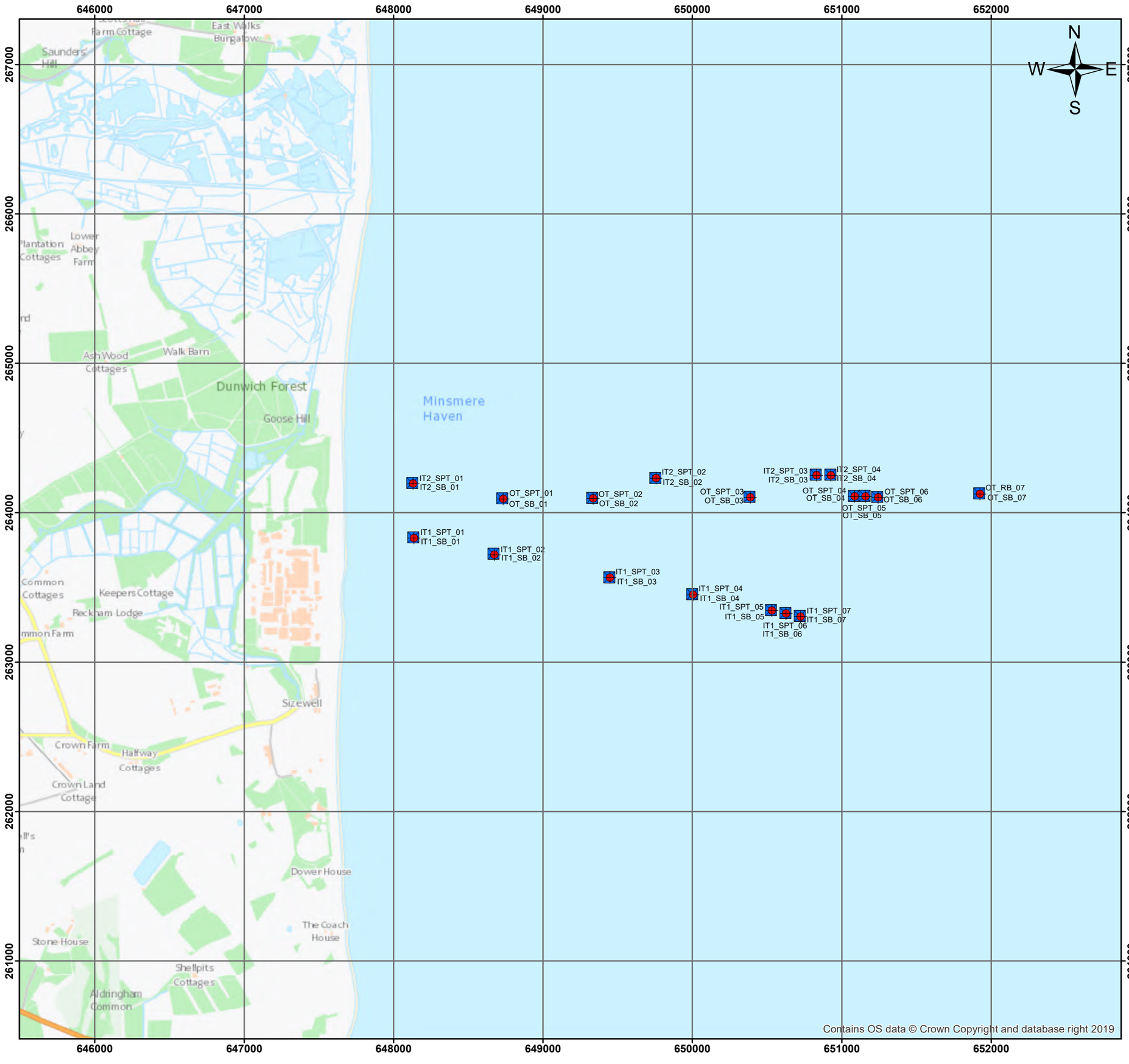
Drawings

Appendix B Contents

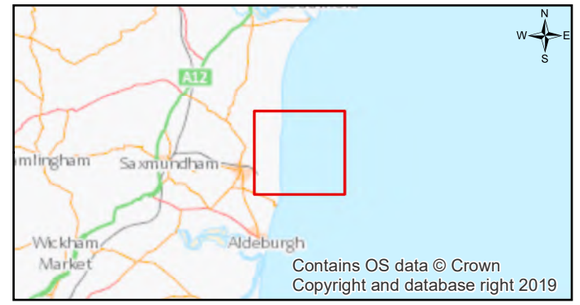
B.1 Exploratory Hole Location Plan

B.1 Exploratory Hole Location Plan

Exploratory Hole Location Plan (Figure LP1)



Location



Scale: 1:500,000
0 5 10 20 30 40 Kilometres

Legend

- Rotary Boreholes
- Sonic Cored Boreholes

Notes

- A rotary borehole (rotary open hole and coring) was drilled adjacent to each sonic cored borehole to achieve the associated SPT data and/or to further extend the borehole by rotary coring.

Rev.	Date	Description	Initials
1	14/01/2020	Draft Issue	LCB

Scale: 1:25,000
0 0.25 0.5 1 1.5 2 Kilometres

Coordinate System

British National Grid

Client

NNB Generation Company (SZC) Limited
90 Whitfield Styreet,
London,
W1T 4EZ
Tel: 020 321 98311
Website: www.edfenergy.com

Principle Contractor

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Oxfordshire, OX10 9RB, United Kingdom
Registered in England No. 1284352
VAT No. GB 133 1704 09
www.fugro.com

Project Title

SZC 2019 Offshore Ground Investigation

Figure Title

Exploratory Hole Location Plan

Figure Number

LP1

Drawn By	Checked By	Approved By	Issued On	Project No.	Sheet Size	Rev.
LCB	CAY	ROR	14/01/2020	G190016U	A3	1

Appendix C

Exploratory Hole Records

Appendix C Contents

C.1 Notes on Exploratory Hole Records
- C.1.1 General Notes
- C.1.2 In Situ Testing and Sampling
- C.1.3 Key to Exploratory Hole Records
- C.1.4 Description of Rock Cores
- C.1.5 Identification and Description of Soils

C.2 Chalk Description and Classification

C.3 Discontinuity Records (Abbreviations, etc)

C.4 Borehole Records
- C.4.1 Borehole Summary
- C.4.2 Borehole Records

C.1 Notes on Exploratory Hole Records

C.1.1 General Notes

C.1.1.1 Operating Procedures

The procedure used for rotary drilling, trial pitting, sampling, in situ and laboratory testing and sample descriptions are generally in accordance with BS5930:2015 'Code of practice for site investigations', BS EN ISO 14688-1:2018 'Geotechnical investigation and testing – Identification and classification of soil – Part 1 Identification and description', BS EN ISO 14689-1:2018 'Geotechnical investigation and testing – Identification and classification of rock – Part 1 Identification and description' as appropriate, and BS1377:1990 'Methods of test for soils for civil engineering purposes', unless stated otherwise. Sampling is carried out in general accordance with EN ISO 22475-1:2006 and Standard Penetration Testing (SPT) is carried out to EN ISO 22476-3:2005+A1:2011.

C.1.1.2 Groundwater

Exploratory hole water levels are recorded together with the depths at which seepages or inflows of water are detected. These observations are noted on the Records, but may be misleading for the following reasons:

- The exploratory hole is rarely left open at the relevant depth for a sufficient time for the water level to reach equilibrium.
- A permeable stratum may have been sealed off by the borehole casing.
- Water may have been added to the borehole to facilitate progress.
- The permeability may have been altered by the excavation/boring/drilling process.

Standpipes or piezometers should be installed when an accurate record of groundwater level is required, however, it should be noted that groundwater levels may vary significantly due to seasonal, climatic or man-made effects. Water levels recorded during the investigation and any advice or comment made accordingly may, therefore, not be appropriate to particular foundation, geotechnical design, or temporary works solutions. Long term monitoring of standpipes or piezometers is always recommended when water levels are likely to have a significant effect on design.

C.1.1.3 Chiselling

The remarks in the Borehole Records contain information on the time spent advancing the borehole by 'Chiselling Techniques', and the depth of borehole over which it was required. Such information may be affected by a wide range of variable factors, unrelated to the geotechnical properties of the strata. Such factors include, but are not restricted to: plant, equipment and operator. The data should, therefore, only be used subjectively and with extreme caution.

C.1.1.4 Identification and Description Of Soils

The identification system follows the Company's Engineering: Geotechnical Procedures Manual which is based on BS EN ISO 14688-1:2018 and appropriate clarifications in the National Foreword, BS 5930:2015 and BS EN ISO 14689-1:2018

Relative density terms are given where supported by SPT N values, with the exception of Made Ground. The field assessment of compactness or relative density for coarse grained soils is only given on trial pit records where appropriate assessment of the soils has been undertaken.

Where the terms 'soft to firm', 'firm to stiff' etc. are used they indicate a strength which is close to the borderline between the two terms and cannot be precisely defined by inspection only, and/or which is indicated as borderline or ranging between the two terms after consideration also of in situ and laboratory test results. Consistencies may have been amended in the light of test results.

Where 'to' links two terms, as in 'slightly sandy to sandy' this again represents a borderline case or a range, where the precise proportions cannot be determined as outlined previously.

The name of the geological formation is only given where this has been requested and can be determined with confidence (see Clause 33.5 of BS 5930:2015).

This is displayed in Tables C.6 to C.8.

C.1.1.5 Interpretation of The Results Of The Investigation

The description of ground conditions encountered and any engineering interpretation included in the report are based on the results of the boreholes and trial pits and the field and laboratory testing carried out. There may be ground conditions at the site which have not been revealed by the investigation and consequently have not been taken into account.

Any interpolation or extrapolation of strata between exploratory holes shown on any cross sections or site plans is an estimate only of the likely stratification based on general experience of the ground conditions and is subject to the interpretation of the reader.

The term "TOPSOIL" is used in this report to describe the surface, usually organic rich, layer including turf, subsoil and weathered material with roots. The use of this term may not imply that the soil satisfies the requirements of Clause 3 of BS 3882:2015, 'Specification for topsoil', or is suitable for general horticultural and agricultural purposes.

Laboratory test results in this report give the soil properties of individual specimens tested under specified conditions. Individual results or groups of results may not be appropriate for use as design parameters for some geotechnical analyses. The samples may be non-representative, disturbed internally, or prepared and tested under conditions suited for different geotechnical applications. Unless the selection of design parameters is discussed in this report, it is recommended that the advice of a Geotechnical Specialist is sought.

C.1.2 In Situ Testing and Sampling

C.1.2.1 Standard Penetration Tests

S( )&C( ) Standard Penetration Test (SPT). S( ) denotes a 50mm diameter split barrel sampler, normally undertaken in cohesive and mixed soils and C( ) indicates the test was carried out using a 50mm diameter, 60 degree apex, solid cone normally used in coarse granular soils and weak rock. The tests are carried out in accordance with EN ISO 22476-3:2005+A1:2011.

The distance that the SPT assembly sinks into the ground prior to the start of the test is measured and reported as Static Weight Penetration (SWP). The sampler or cone is driven up to 450mm into the soil using a 63.6kg hammer with a 760mm drop. An initial seating drive of 150mm (or 25 blows whichever is less) is undertaken to penetrate through any ground which may be disturbed at the base of the borehole. For the test drive, the number of blows required to obtain an additional 300mm penetration (or penetration for 50 / 100 blows) is recorded as the penetration resistance (also known as the 'N' value). The test is usually completed when the test drive attains the 300mm penetration or the number of blows recorded during the 'test drive' only reaches 50 in soils or 100 in weak rock.

If the sampler advances below the bottom of the borehole under the static weight of the drive rods with the hammer assembly on top, the corresponding penetration is not included as seating drive but the information is reported separately as SWP. The test is terminated in all cases before the non-return valve reaches the level of the material at the base of the borehole, in effect about 600mm total penetration. If SWP (Static Weight Penetration) is greater than 150mm then test increments of 75mm are undertaken with the final increment being completed at less than 600mm total penetration including SWP.

If a sample is not recovered in the sampler, or the cone is used, a disturbed sample of appropriate size for the material is taken on completion of the test over the depth of the test zone. The sample is given the same depth as the top of the Standard Penetration Test drive.

The depth on the Borehole Record at the left hand side of the 'Depth' column is that at the start of the test. Where full penetration of the test drive is obtained, the penetration resistance ('N' value) is reported in the 'SPT Blows/N' column. If full penetration in the test drive is not obtained, then the length of drive (test length in mm) and the penetration resistance (number of blows) are both reported. Full results, including the cone or barrel type, static weight penetration, blows and penetration of each of the Seating Drive and Test Drive increments, the calibration reference number for the SPT hammer assembly, the energy ratio and the 'N' value, as well as start and end depths and water and casing levels are given on the separate Standard Penetration Test Summary

* in the 'Test Length' column denotes that the blows and penetration include the initial Seating Drive blows.

C.1.2.2 Other In Situ Tests

The following in situ tests are reported on the Exploratory Hole Records, in the 'Test' or 'Type' and 'Results' columns where appropriate.

k In situ Permeability Test - refer to detailed test results for permeability values

PMT Pressuremeter Test - refer to detailed test results for modulus values, etc.

FV/FVR Borehole Shear Vane Test (undrained shear strength - cu - in kPa) - refer also to detailed test results, N - 'Natural' or peak shear strength, R - Remoulded shear strength

HV/HVR Hand Shear Vane Test (Direct reading of undrained shear strength in kPa). 'N' and 'R' as above. The values are indicative and should not be taken as being equivalent to laboratory test results. The Pilcon vane results have a factor varying from about a sixth for the 33mm vane to a third for the 19mm vane which reduces the BS1377 shear vane value. The values presented are therefore approximate and should be treated with great caution if used for design purposes

PP Pocket Penetrometer. Unconfined Strength (UCS) reported in kg/cm2 to the nearest 0.25 kg/cm2 or kPa with the same accuracy. Equivalent cu in kPa is very approximately UCS x 50. Pocket Penetrometers are an aid to logging of cohesive soils, the results are indicative and should not be relied upon. The equipment used is not calibrated

CBR California Bearing Ratio Test (CBR%) - refer also to detailed test results

PID Photo-Ionisation Detector Readings in headspace of small disturbed chemical samples. Result given in ppm by volume

C.1.2.3 Sample Notification

Table C.1: Sample Notification

■ U/UT	General purpose open tube sample. Sample normally taken with open tube sampler approximately 0.1m diameter and 0.45m long and driven with an 80kg sinker bar and 56kg sliding hammer, unless noted otherwise. "XX" in U100 blows column denotes the number of hammer blows. The height of hammer drop can be variable depending on operator technique. Depths are given of the top of the sample if full penetration and recovery are achieved, otherwise actual lengths of penetration and recovery are given in the appropriate columns.
■ 'U'	denotes steel or plastic liner sample in general use up to year 2010 designated OS/TKW in accordance with BS EN ISO 22475-1:2006 with an area ratio greater than 25%. 'UT' denotes thin wall open tube sampler designated OS/TW with an area ratio less than 15%, available from 2010.
■ U/UT(X)	General purpose open tube sample (X) mm diameter
■ TW(X)	Thin wall (push) sample (X) mm diameter
■ P(X)	Piston sample (X) mm diameter
■ DISTURBED AND CORE SAMPLES	
■ CBR	Sample taken in CBR Mould
■ D	Small disturbed sample (plastic tub or jar with air tight lid)
■ B	Bulk disturbed sample (polythene bag, tied at neck - size dependent on purpose)
■ LB	Large Bulk disturbed sample (normally several bulk samples of the same material - size dependent on purpose)
■ W	Water sample
■ C	Core sample
■ CS	Short core, generally about 100mm
■ CL	Long core, generally 250mm to 300mm
■ #	Sample not recovered
■ ENVIRONMENTAL SAMPLES	
■ CD	Sample for chemical analysis in a plastic tub
■ K	Sample for chemical analysis in an amber glass jar
■ V	Sample for chemical analysis in a glass vial
■ CDKV	Set of samples for chemical analysis as above
■ WAC	Sample for Waste Acceptance Criteria
■ ES	Environmental Soil Sample
■ EW	Environmental Water Sample
Note. All samples recovered are recorded and handled in accordance with EN ISO 22475-1:2006.	

C.1.3 Key to Exploratory Hole Records

Table C.2: Key to Exploratory Hole Records

Soil Legend

Coarse grained, Non cohesive		Fine grained, Cohesive		Other Soil Types	
	Boulders		Silt		Topsoil
	Cobbles		Clay		Peat
	Gravel				Tarmacadam
	Sand				Made Ground

Rock Legend

Sedimentary

	Sandstone		Chalk		Coal
	Siltstone		Limestone		Mudstone/ Claystone/Shale
	Conglomerate		Beccia		

Metamorphic

	Fine Grained		Medium Grained		Coarse Grained

Igneous

	Fine Grained		Medium Grained		Coarse Grained

Notes: Composite Soil Types may be signified by combined symbols

C.1.4 Description of Rock Cores

C.1.4.1 Descriptive Order

Strength, Structure, Colour, Texture, Grain Size, ROCK NAME. Minor constituents and additional information. (Geological formation - see comments under identification and description of soils). Mass characteristics - factual description of weathering state (if appropriate) and description of discontinuities and fracture state (if appropriate).

Strength, structure, weathering state and discontinuity description are presented in Tables C.3 and C.4 below.

Table C.3: Strength Descriptors of Rock Cores

Term	Field Identification	Strength (MPa)
Extremely weak	Scratched by thumbnail. Gravel sized lumps crush between finger and thumb.	0.6 to 1
Very weak	Scratched by thumbnail, lumps can be broken by heavy hand pressure, can be peeled easily by a pocket knife, crumbles under firm blows with point of geological hammer.	1 to 5
Weak	Thin slabs, corners or edges can be broken off with hand pressure, can be peeled by a pocket knife with difficulty, easily scratched by pocket knife, shallow indentations made by firm blow with point of geological hammer.	5 to 12.5
Moderately weak	Thin slabs, corners or edges can be broken off with heavy hand pressure, can be scratched with difficulty by pocket knife, hand-held specimen can be broken with single firm blow of geological hammer	12.5 to 25
Medium strong	Cannot be scraped or peeled with a pocket knife, specimen on a solid surface can be fractured with single firm blow of geological hammer.	25 to 50
Strong	Specimen requires more than one blow of geological hammer to fracture it.	50 to 100
Very strong	Specimen requires many blows of geological hammer to fracture it.	100 to 250
Extremely strong	Specimen can only be chipped with geological hammer.	Greater than 250

Note: Modified from BS EN ISO 14689:2018

Table C.4: Discontinuity Records

■ Bedding Spacing & Planar Structures *	■ Spacing (mm)	■ Discontinuity Spacing	■ Discontinuity Shape
	>6000	Extremely widely spaced	**Small Scale [mm]**
Very thickly bedded	>2000	2000-6000	Rough
Thickly bedded	600 - 2000	Widely spaced	Smooth
Medium bedded	200 - 600	Medium spaced	**Medium Scale [cm]**
Thinly bedded	60 - 200	Closely spaced	Planar
Very thinly bedded	20 - 60	Very closely spaced	Stepped
Thickly laminated (Sedimentary) narrow (Metamorphic & Igneous)	6 – 20	<20	Undulating
			Large Scale [m]
			Wavy
			Curved
			Straight
Thinly laminated (Sedimentary) Very narrow (Metamorphic & Igneous)	<6		

Note: Modified from BS EN ISO 14689:2018
For igneous and metamorphic rocks the appropriate descriptive term for planar structure should be used
e.g. medium foliated gneiss, very narrowly cleaved slate, very thickly flow banded diorite.
Types of Discontinuities: Bedding Fracture – B [m OD]; Rock joint – J [m]; Cleavage – C [mm]; Fault shear – FS; D - Discontinuity
Surface texture is defined as Rough [R], Smooth [Sm] and Polished [Po]
Spacing terms may also be used for distance between partings, isolated beds or laminae, desiccation cracks, rootlets etc.
Terms such as partings or dustings may be used for laminae less than 2mm and less than 0.6mm respectively

C.1.4.2 Weathering

Standard descriptions of weathered rocks for engineering purposes should always include comments on the degree, extent and nature of any weathering effects at material or mass scales. This may allow subsequent classification and provide information for separating rock into zones of like character. Indications of weathering include

8. changes in colour
9. changes in fracture state
10. reduction in strength
11. presence, character and extent of weathering products

If a systematic classification following the guidelines given in the Standard can be applied unambiguously, this is described in the text of the report. Otherwise, the rocks are not classified in terms of weathering beyond the approach described above.

Weathering terms that may be used for description of rock material and these terms may be qualified or combined.

Discoloured - The degree and type of colour change from original is described, and if for mass or particular mineral constituents

Disintegrated - Fragmentation by physical weathering, bonding lost but material fabric intact. Material friable, not decomposed

Decomposed - Chemical alteration of mineral grains so material fabric is intact but some or all grains are decomposed

For rock mass weathering the following terms may be used

Slightly - Discolouration on surfaces and / or of material

Moderately - Less than half of mass decomposed/disintegrated. Fresh/discoloured rock as continuous material or corestones

Highly - More than half decomposed/disintegrated. Fresh/discoloured rock as discontinuous framework or corestones

Completely - All rock material decomposed and/or disintegrated. Original mass structure largely intact

Residual Soil - All material converted to soil, structure and fabric destroyed, may be volume change but material not moved

The term 'Fresh' is used to indicate that there is no visible weathering or alteration, except possibly slight discolouration on major surfaces

Table C.5: Rock core sizes

■ Core Barrel Type	□□r□□□□□□□ D□□□ □□□r□ [ ] □]]	□□□□d□rd□□□r□□ □□□□□ □mm □□	□□r□□□ □□□□□□□□□□□ R□□□d□□ l □stic □□□□□r □□ □ □□	■ Casing Size or Type	□ □□□□□□□□ □D□ □mm □□	□ □□□□□□□□D□ [ ] □ □□
□□□□d□rd□□□□□□□						
□□ M□	75.7	57.7	51	NX	88.9	76.2
HW □□	98.8	76.2	72	HX	114.3	100.0
□□ A□□	99.5	70.9	-	HX	114.3	100.0
□□ □□	120.0	92.1	87	PX	139.7	122.3
□□ □□	145.4	112.8	107	SX	168.3	147.7
UW □□	173.7	139.8	132	UX	193.7	176.2
■ Wireline Sizes						
□□ □	59.9	36.4	35	-	-	-
□□ □	75.7	47.6	45	-	-	-
□□ □	96.1	63.5	61	-	-	-
□□ □	122.7	85.0	82	-	-	-
□□rr□□□r□□□- □ □□□□r	146.0	102.0	102	SX	168.3	147.7
■ Thinwall Sizes						
□□□□	75.7	60.8	-	NX	88.9	76.2
□□□□6 □	66.1	51.9	-	74	74.3	67.3
□□□□6 □	76.1	61.9	-	84	84.3	77.3
□□□□6 □	86.1	71.9	68	98	98.0	89.0
T □□□□□□	101.1	83.9	80	113	113.0	104.0
T □□□□□□	116.1	92.9	89	128	128.0	118.0
□□□□3 □□	131.1	107.9	104	143	143.0	133.3
■ Non Standard Barrels						
□.1 □□□	105.2	74.7	72	PX	139.7	122.3
□R□□□□□	-	-	-	-	-	-
□. □x4C □	139.7	101.6	-	SX	168.3	147.7
■ SINGLE TUBE	-	-	-	-	-	-
■ B116	116	102	-	PX	139.7	122.3
■ B146	146	132	-	SX	168.3	147.7
Note: Core diameters may vary when different lining systems are in use						

C.1.4.3 Rock Core Characteristics

TCR Total Core Recovery. The length of the total amount of core sample recovered, expressed as a percentage of the length of the core run.

SCR Solid Core Recovery. The length of solid core recovered, expressed as a percentage of the length of the core run. Solid core is defined as that length of core which has a full diameter, but not necessarily a full circumference. Only natural fractures are considered. Drilling or handling induced fractures are ignored.

RQD Rock Quality Designation. The length of solid core recovered in pieces each more than 100mm long as a percentage of the core run length.

FI Fracture Index. The number of discontinuities expressed as 'fractures per metre', measured over any convenient length of consistent fracture characteristics. Fracture index is normally measured axial along the core.

If Fracture Spacing. The minimum, average and maximum spacing of discontinuities in mm, measured over any convenient length of consistent fracture characteristics. Fracture spacing is normally measured perpendicular to the discontinuity plane unless indicated otherwise.

Is Corrected Point Load Strength Index Is(50) which is given in MPa

Zones of atypical fracturing of restricted extent which occur within a rock unit of uniform fracture characteristics are identified within the Description of Strata, but not given a separate If / FI.

AZCL Assumed Zone of Core Loss

NI Not Intact

NR No Recovery

NA Not Applicable

DI Drilling Induced

C.1.5 Identification and Description of Soils

Identification and descriptive method, and descriptions, generally in accordance with BS5930:2015 Section 6 clauses 41 and 43 and BS EN ISO 14688-1:2018

Additional notes relating to BS EN ISO 14688-2:2004+A1:2013– modified terms for content of secondary fraction given in Annex B Table B1 are not comparable to BS5930:2015 and are not be used.

Organic Content: - Low – 2 to 6%; Medium - 6 to 20%; High - >20%. Terms not used on borehole records

Carbonate content :- Only noted if field test with dilute HCl undertaken – Carbonate free if no effervescence; Calcareous if slight effervescence; Highly calcareous if strong reaction

Undrained shear strength: - terms from laboratory or in situ tests not given on borehole records.

Very Coarse Soils – described by initially removing very coarse materials and describing residue before adding back the very coarse soils. If residue is cohesive then described as '.....(COBBLES / BOULDERS) with low (cobble / boulder) content with (some / much etc) matrix of .....' If residue is granular then described as ' with matrix of ' or as a coarse soil.

Cobbles :- <10% - low cobble content; 10 to 20% - medium content; >20% - high content; Boulders <5% - low boulder content; 5 to 20% - medium content; >20% - high content

Particle shape and form:

Very angular
(Sub)angular
(Sub)rounded
Well rounded
Low sphericity: Flat or Elongate
High sphericity: Cubic

Table C.6: Identification and Description of Soils

■ Basic Soil Category	■ Basic ■ Soil Type	■ Particle Size [mm]	■ Visual Identification
VERY COARSE SOILS For very coarse soils qualitative description by inspection of voids and particle packaging	BOULDERS	>630 – 200	Large Boulders >630mm. These soils only seen complete in pits or exposures. Often difficult to recover from boreholes.
	COBBLES	200 -63	
COARSE SOILS (Typically over 65% Sand and Gravel Sizes)	GRAVEL	63 – 20 (Coarse) 20 – 6.3 (Medium) 6.3 -2 (Fine)	Easily visible to naked eye; particle shape can be described, grading can be described. Well graded: wide range of grain sizes, well distributed. Poorly graded: not well graded. (May be uniform: size of most particles lies between narrow limits; or gap graded; an intermediate size of particle is markedly under represented).
FINE SOILS (Typically over 35% Silt and Clay Sizes)	SAND	2 -0.63 (Coarse) 0.63 -0.2 (Medium) 0.2 – 0.063 (Fine)	Visible to naked eye; no cohesion when dry; grading can be described. Well graded and poorly graded: as above
	SILT	0.063 – 0.02 (Coarse) 0.02 -0.0063 (Medium) 0.0063 – 0.0002 (Fine)	Only coarse silt visible with hand lens; exhibits little plasticity and marked dilatancy; slightly granular or silky to touch. Disintegrates in water; lumps dry quickly; possesses cohesion but powders easily between fingers.
	CLAY		Term “SILT” or “CLAY” must be used, “SILT/CLAY” not allowed. Silty CLAY or clayey SILT – use prefix only when secondary constituent has significant effect on material characteristics. Terms 'slightly' or 'very' not applicable. Dry lumps can be broken but not powdered between the fingers; they also disintegrate under water but 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. Intermediate and high plasticity clays show these properties to a moderate and high degree, respectively.
ORGANIC SOILS	ORGANIC CLAY, SILT or SAND	Various	Contains varying amounts of organic vegetable matter - defined by colour: grey - slightly organic; dark grey – organic; black – very organic.

Note. Slightly cemented. Visual Examination: remove soil in lumps which can be abraded.

Table C.7: Identification and Description of Composite Soils

- **Composite Soil Types**
- **(Mixtures of basic soil types)**

Scale of secondary constituents for soils. Term before, description after principal constituent

Term before **(term in ' [ ] ' may be used for secondary parts, matrix etc)**	**Principal Soil Type**	**Description after**	**Approx. percentage secondary soil type**
Slightly (sandy*) [occasional / little]	SAND, GRAVEL; (COBBLES or BOULDERS See Notes)	Used to describe components of secondary constituents. e.g. Gravel is fine and medium subangular fine sandstone and mudstone.	<5
--(sandy*)[some]			5 – 20
Very (sandy*) [much / many]			20 – 40
		And (sand*) or and (cobbles+)	50†
Slightly (sandy*)	CLAY or SILT	Used to describe components of secondary constituents e.g. sandy gravelly CLAY. Gravel is coarse rounded quartzite	<35
(sandy*)			35 - 65††
Very (sandy*)			>65††

Notes.

* Fine or coarse soil type as appropriate
\+ Very coarse soil type – see Notes
† described as fine soil depending on behaviour
†† or described as coarse soil depending on mass behaviour

EXAMPLES OF COMPOSITE TYPES
(indicating preferred order for description)
Loose brown very sandy subangular coarse GRAVEL with many pockets (<5mm across) of soft grey clay.
Firm thinly interlaminated brown SILT and CLAY.
Dense light brown clayey fine and medium SAND.

Table C.8: Density, Consistency and Peat Condition

■ Consistency		■ Relative Density Standard Penetration Test in Boreholes for Coarse Soils		■ Peat Condition	
Term	**Field Test**	**No. of blows**	**Relative Density**	**Term**	**Descriptor**
Very soft	Finger easily pushed in up to 25mm. Exudes between fingers	<4	Very Loose	Firm Peat	Fibres compressed together
Soft	Finger pushed in up to 10mm. Moulded by fingers	4-10	Loose	Spongy Peat	Very compressible, open
Firm	Thumb makes impression easily. Rolls to thread	10-30	Medium Dense	Plastic Peat	Moulded in hand, smears
Stiff	Can be indented slightly by thumb. Crumbles if rolled	30-50	Dense	Fibrous Peat	Plant remains recognisable and retain some strength. When squeezed only water, no solids
Very Stiff	Indented by thumbnail. Cannot be moulded	>50	Very Dense	Pseudo-fibrous Peat	Plant remains recognisable, strength lost. Partial decomposition. Turbid water when squeezed, <50% solids
Hard	Can be scratched by thumb nail			Amorphous Peat	Recognisable plant remains absent, full decomposition. When squeezed only paste with >50% solids
				Gyttja	Decomposed plant & animal remains, maybe inorganic constituents
				Humus	Plant remains, living organisms & inorganic constituents in topsoil

C.2 Explanatory Notes on Chalk Description and Classification

C.2.1 Method of Middle and Upper Chalk Description

The cable percussion boring technique, particularly in Chalk, destroys much of the texture and structure of the material. "Disturbed" samples tend to be of use only to indicate the occurrence of non-Chalk materials, such as clays and flint, within the Chalk mass and occasionally to show staining and hard grounds. Higher quality samples tend to be recovered from rotary coring. Actual description of the Chalk in situ, such as afforded by trial pits or exposures, is the most satisfactory method.

A Chalk "Grade" system for describing Chalk in situ was devised by Ward, Burland and Gallois for a site at Mundford in Norfolk, in 1968 (generally known as the "Mundford" scheme). Wakeling (1969) has subsequently slightly extended the scheme and published a tentative correlation between SPT 'N' values and "Grade" for Middle and Upper Chalk at the Mundford site. This tentative correlation of Chalk "Grade" to SPT 'N' value is based on a single specific site and must be used with extreme caution at any other location. Nonetheless, SPT 'N' values may be used to give a relative indication of the variations in Chalk quality within a site, and SPT 'N' values are used for many empirical or semi-empirical methods of foundation design in Chalk. A discussion on the applicability and use of the SPT 'N' value to determine "Grade" of Chalk is given in the Proceedings of the 1989 International Chalk Symposium, pages 1 to 4, 109 to 132 and 137 to 152.

A more recent system for the engineering description of Chalk and the allocation of Chalk "Grades" was proposed by Spink and Norbury (1989), an outline of which is given in the Notes. The Mundford and the Spink and Norbury "Grades" (I to VI) are broadly equivalent when based on material description. The most recent grading system for Chalk to be widely used, which can be taken from Spink and Norbury type descriptions, has been given in CIRIA Project Report 11 in 1994 and further revised in CIRIA Report C5745. The CIRIA system is summarised in the accompanying notes together with a correlation between the CIRIA system and the Mundford / Spink and Norbury systems.

Chalk descriptions in the report have been made generally to the method outlined by Spink and Norbury and revised by the CIRIA recommendations. Rotary core and trial pit strata descriptions given in the report also have an assessment of the CIRIA Chalk grade. Chalk descriptions included on the cable percussion borehole records are generally for the materials as recovered, and Chalk grade is not normally given due to the difficulties outlined in the first two paragraphs of this note. However, SPT 'N' values are given so that the reader may make their own assessment of the Chalk grade as necessary.

The CIRIA grading scheme has been used for any engineering assessment in this report as this is current best practice; and the CIRIA recommendations have been used for foundation design. The Mundford SPT 'N' grading scheme has not been used in this report.

Table C.9: Field Definition of Rock Strength

Term	Field Definition
Very weak	Lumps crumble easily in hand
Weak	Thin slabs broken easily by hand
Moderately Weak	Thin slabs broken by heavy hand pressure
Moderately Strong	Core broken by light hammer blows
Strong	Core broken with heavy hammer blows
Very Strong	Chipped with heavy hammer blows

Table C.10:

Grade	Term	Percentage of Secondary Constituents	
		Matrix	Clasts
VI	with a little		< about 35
VI	with some		about 35 to 65
V or VI	with much	about 35	about 65
V	with much	about 20 to 35	
V	with some	about 5 to 20	
V	with a little	< about 5	

Table C.11: Geological Description and Grading of Middle & Upper Chalk for Engineering Purposes after Spink and Norbury (1990)

Grade	Definitions of Grade		Typical Features of Grade	
Structureless (Or Reworked) Chalk				
Grade	**% Comminuted Chalk Matrix**	**% Clasts * (> 0.06 mm)**	**Weathering of Clasts**	**Strength of Clasts †**
VI	> about 35	< about 65	Moderately to completely	Very weak or weak
V	< about 35	> about 65	Moderately or highly	Very weak or weak
Word order for description Structureless CHALK composed of: matrix (soil strength, colour, nature e.g. "firm white silt and sand sized comminuted Chalk") and clasts (angularity, size, colour, weathering, strength e.g. "subangular 5 to 15 mm fragments of white highly weathered very weak chalk"). Matrix first in cohesive matrix-dominated (Grade VI) Chalk, clasts first in granular clast-dominated (Grade V) Chalk. Give proportion of matrix to clasts. Presence type and size of flints, clay pockets, etc				
Structured Chalk				
Grade	**Fracture Spacing [mm]**	**Fracture Width [mm]**	**Material Weathering**	**Material Strength**
IV	Extremely to very closely <60	Open or infilled 5	Moderately or highly	Very weak or weak
III	Closely 60–200	Open or infilled up to 3	Slightly or moderately	Weak or Moderately weak
II	At least medium >200	Tight and clean	Fresh or slightly	Moderately weak
I				Moderately weak or mod. Strong
Word order for description Colour, rock material weathering, CHALK, rock material strength.				

Grade	Definitions of Grade	Typical Features of Grade
Discontinuity – type, spacing (minimum/mean/maximum), orientation: dip direction [in situ observation only] / dip, openness / width, nature of infill, staining. Presence and nature (size, shape) of flints. Other features (marl layers, fossils, etc)		
Notes * – "Clasts" are coarse fragments generally gravel size or greater (>2mm), also termed lithorelicts. They may also be sand sized if the material as a whole behaves as a granular soil. † – Material strengths those of BS 5930 prior to issue of BS 5930:1999 Amendment 1		

C.2.2 Weathering

Table C.12: Weathering Terms for Rock Mass (from Geological Society Engineering Group Working Party Report on Engineering Geological Maps and Plans 1972)

Term	Description
Fresh	No visible sign of weathering, no discolouration or loss of strength
Slightly	Discolouration along discontinuities, which may be open. Intact rock not weaker than fresh rock.
Moderately	Discolouration through mass, intact rock weaker, alteration on discontinuities
Highly	As moderately; but deeper alteration, fabric altered/disturbed near discontinuities, many lithorelicts
Completely	Mass entirely discoloured and changed to soil, structure still visible, occasional lithorelicts
Residual	Entirely decomposed, no original structure visible

Table C.13: Weathering Terms for Fragments

Term	Description
Slightly	Slight discolouration/speckling. No apparent weakness
Moderately	Discolouration/speckling throughout with slight weakening
Highly	Discolouration/speckling throughout with obvious weakening

C.2.3 CIRIA Chalk Grading Scheme

From CIRIA Report C574, Engineering in Chalk, CIRIA, London 2002

The method of grading is based principally on the definition of material behaviour as follows:

- Is the material structureless (Grade D) or structured (Grade A to C)?
- If structureless – is it a cohesive type material (cohesive-matrix dominated – Dm) or is it a granular type material (granular clast-dominated or rarely granular clast-matrix dominated – Dc). In most materials the matrix will be up to sand sized and cohesive and the clasts generally gravel size or greater and granular. The material's engineering behaviour is the most important defining factor.

Example description: Structureless CHALK: firm off white slightly gravelly sandy SILT. Gravel is very weak low density off white chalk locally stained brown, speckled black. Occasional nodular flint <40mm. Rare trace of brown clay (Grade Dm)

Alternative: Structureless CHALK: firm off white comminuted sandy SILT chalk with about 25% angular fragments <25mm of weak...

- If structured - then first assess intact dry density (low, medium, high or very high). Then define discontinuity aperture/infill (prefix A to C) and then discontinuity spacing (suffix 1 to 5). Each discontinuity set should be described separately.

Example description: Very weak medium density fractured off white unstained CHALK. Fractures/ discontinuities typically subhorizontal and subvertical very closely spaced (10/40/70) planar closed or open locally infilled (0/2/4) with comminuted chalk rarely with brown clay veneer with local brown staining and black speckling on surfaces. Rare nodular flint up to 60mm. (Grade Medium Density B4).

Table C.14: Structureless chalk

CIRIA Grade	Mundford Grade	Comminuted (Cohesive) Chalk Matrix [%]	Coarser Fragments (> 2 mm) [%]
Dm	VI	Greater than about 35	Less than about 65
Dc	V	Less than about 35	Greater than about 65
Notes: Dm = Matrix Dominated Dc = Clast Dominated			

Table C.15: Structured chalk

Typical discontinuity spacing [mm]	Typical discontinuity aperture / infill			Grade
	Open or infill (> 3 mm)	Open or infill (< 3 mm)	Closed / Clean	
< 20 Extremely close	IV C5	– (B5)	– (A5)	Mundford CIRIA
20 to 60 Very close	IV C4	III/IV * B4	– (A4)	Mundford CIRIA
60 to 200 Close	III/IV * C3	III B3	II/III * A3	Mundford CIRIA
200 to 600 Medium	– C2	II/III * B2	II or I † A2	Mundford CIRIA
> 600 Wide or greater	– C1	– B1	II or I † A1	Mundford CIRIA
Notes * = undefined † = for very high density chalk CIRIA grades in parenthesis are uncommon				

Table C.16: Assessment of Dry Density

Field Identification	Field Test Penetration [mm]			Laboratory Test [Mg/m3]	Density Description	Equivalent Strength *
	150 mm Nail	Used Pick	New Pick			
30 to 40 mm thick clasts crushed by finger pressure and remoulded to form "putty"	> 25	> 30	> 35	< 1.55	Low	To Very Weak (< 3 MN/m2)
30 to 40 mm thick clasts will not crush with finger pressure but broken with both hands. Part fractured, and part crushed when struck with hammer.	15 – 25	11 – 30	18 – 35	1.55–1.70	Medium	Upper end Very Weak (3 to 5 MN/m2)
Small clasts broken with great difficulty by hand cannot break 30 to 40 mm clasts. Lumps fracture as a whole after several heavy hammer blows.	6–15	2–11	6–18	1.70 to 1.95	High	Lower end Weak (5 to 12.5 MN/m2)
Will not break by hand. 100 mm diameter clasts held in hand broken by single hammer blow.	<6	<2	<6	>1.95	Very High	Upper end weak to Medium Strong (> 12.5 MN/m2)

Notes
* = BS5930:1999 Amendment 1

C.3 Discontinuity Records (Abbreviations, etc)

C.3.1 Abbreviations

C.3.1.1 Types of Discontinuities

BF Bedding Fracture

J Joint

C.3.1.2 Units and Others

mOD Metres Ordnance Datum

m Metres

mm Millimetres

C.3.2 General notes

1. Graphical representations of fractures are given in the Legend column for indicative purposes only. They are not to scale and without resemblance to the core appearance.
2. See borehole log for further details on non intact zones (both fracture related or not fracture related).
3. For inclined boreholes, depths provided are along length of the core and have not been adjusted for inclination.
4. Dip angles of discontinuities were measured from the horizontal plane of the core.

C.4 Borehole Records

C.4.1 Borehole Summary

Table C.17: Borehole Summary

Borehole Reference*	Method of Construction	Grid Coordinates		Seabed Elevation	Borehole Depth	Field Testing	Remarks
		Easting	Northing				
		[m]	[m]	[m OD]	[m BSL]		
Intake 1							
IT1_SB_01	SD	648131.96	263834.77	-7.51	55.50	-	-
IT1_SB_02	SD	648669.49	263725.52	-10.04	60.00	-	-
IT1_SB_03	SD	649444.56	263569.09	-7.64	55.00	-	-
IT1_SB_04	SD	649999.80	263456.45	-5.89	28.00	-	Selective core runs preserved and sent for testing at Laboratorie CEMETE-EDF-TEGG.
IT1_SB_05	SD	650526.80	263349.48	-13.61	54.50	-	-
IT1_SB_06	SD	650622.76	263329.05	-14.01	54.00	-	-
IT1_SB_07	SD	650719.14	263309.54	-13.96	55.00	-	-
IT1_SPT_01	RO+RC	648137.28	263831.71	-7.54	57.25	SPT, Geophysics	Core logging was not required.
IT1_SPT_02	RO+RC	648674.53	263721.98	-10.02	55.20	SPT, Geophysics, Check Shot	Core logging was not required.
IT1_SPT_03	RO+RC	649449.91	263566.06	-7.64	55.00	SPT, Geophysics	-
IT1_SPT_04	RO+RC	650005.10	263453.25	-6.05	110.40	SPT, Geophysics, Check Shot	Selective core runs preserved and sent for testing at Laboratorie CEMETE-EDF-TEGG.
IT1_SPT_05	RO+RC	650532.44	263347.03	-13.69	56.00	SPT, Geophysics, Check Shot	Core logging was not required.
IT1_SPT_06	RO+RC	650628.28	263326.30	-14.05	55.00	SPT, Geophysics	-
IT1_SPT_07	RO+RC	650724.41	263306.39	-13.96	55.00	SPT, Geophysics	-

Borehole Reference*	Method of Construction	Grid Coordinates		Seabed Elevation	Borehole Depth	Field Testing	Remarks
		Easting [m]	Northing [m]	[m OD]	[m BSL]		
Intake 2							
IT2_SB_01	SD	648125.64	264200.43	-6.60	54.00	-	-
IT2_SB_02	SD	649751.37	264233.15	-7.48	34.00	-	-
IT2_SB_03	SD	650826.31	264254.26	-14.48	55.00	-	-
IT2_SB_04	SD	650923.81	264254.98	-14.51	55.00	-	-
IT2_SPT_01	RO+RC	648131.21	264197.55	-7.28	55.00	SPT, Geophysics	-
IT2_SPT_02	RO+RC	649757.46	264232.72	-7.42	55.00	SPT, Geophysics, Check Shot	-
IT2_SPT_03	RO+RC	650832.02	264252.10	-14.27	55.50	SPT, Geophysics, Check Shot	Core logging was not required.
IT2_SPT_04	RO+RC	650928.01	264250.48	-14.30	55.00	SPT, Geophysics	Core logging was not required.
Outfall							
OT_SB_01	SD	648727.88	264096.81	-10.18	55.50	-	Selective core runs preserved and sent for testing at Laboratorie CEMETE-EDF-TEGG.
OT_SB_02	SD	649330.30	264100.51	-7.93	55.50	-	-
OT_SB_03	SD	650382.79	264107.33	-8.00	30.00	-	Selective core runs preserved and sent for testing at Laboratorie CEMETE-EDF-TEGG.
OT_SB_04	SD	651081.19	264112.23	-16.60	55.50	-	-
OT_SB_05	SD	651153.93	264113.56	-16.32	55.00	-	-
OT_SB_06	SD	651238.39	264106.14	-17.39	54.50	-	-
OT_SB_07	SD	651920.43	264129.90	-16.22	28.50	-	-

Borehole Reference*	Method of Construction	Grid Coordinates		Seabed Elevation	Borehole Depth	Field Testing	Remarks
		Easting [m]	Northing [m]	[m OD]	[m BSL]		
OT_SPT_01	RO+RC	648733.79	264095.08	-10.14	55.00	SPT, Geophysics	-
OT_SPT_02	RO+RC	649335.80	264098.13	-7.93	55.00	SPT, Geophysics	Core logging was not required.
OT_SPT_03	RO+RC	650388.42	264104.87	-7.90	110.00	SPT, Geophysics, Check Shot	Selective core runs preserved and sent for testing at Laboratorie CEMETE-EDF-TEGG.
OT_SPT_04	RO+RC	651086.69	264109.59	-16.19	55.30	SPT, Geophysics, Check Shot	Core logging was not required.
OT_SPT_05	RO+RC	651158.86	264109.83	-16.32	55.50	SPT, Geophysics	Core logging was not required.
OT_SPT_06	RO+RC	651244.40	264105.07	-17.26	55.50	SPT, Geophysics	Core logging was not required.
OT_RB_07	RO+RC	651925.35	264126.19	-16.25	111.20	Geophysics	-

Notes
RC = Rotary core drilling
RO = Rotary open hole drilling
SD = Sonic core drilling
SPT = Standard penetrative testing
Geophysics = Wireline Geophysical logging
Check Shot = Check-shot survey
* = All boreholes were carried out overwater from the jack-up barge Excalibur. A rotary borehole was drilled adjacent to each sonic cored borehole to achieve the associated SPT data and/or to further extend the borehole by rotary coring; corresponding twin boreholes are indicated by the borehole names with the same letter prefix and the same number suffix (e.g. IT1_SB_01 and IT1_SPT_01).

C.4.2 Borehole Records

C.4.2.1 Borehole Records – Intake 1

Sonic Cored Boreholes;
Rotary Boreholes
(referenced by position ID)

C.4.2.2 Borehole Records – Intake 2

Sonic Cored Boreholes;
Rotary Boreholes
(referenced by position ID)

C.4.2.3 Borehole Records – Outfall

Sonic Cored Boreholes;
Rotary Boreholes
(referenced by position ID)

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SB_01**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648131.96 N263834.77	Ground Elevation (m Datum)	-7.51	Sheet 1 of 1
Hole Type	Sonic Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	55.50	SD	24/07/2019	25/07/2019	LS600 : Excalibur	Sonic	118mm	TM/LM	JB/SDB/ GDF	

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
24/07/2019	00:00:00	0.00	0.00	
24/07/2019	11:45:00	13.50	13.50	
24/07/2019	12:00:00	13.50	13.50	
24/07/2019	23:45:00	34.50	34.50	
25/07/2019	00:00:00	34.50	34.50	
25/07/2019	11:45:00	49.50	49.50	
25/07/2019	12:00:00	49.50	49.50	
25/07/2019	16:00:00	55.50	55.50	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
55.50	118	1.50	250
		55.50	150

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
0.00	1.50	100
1.50	3.00	100
3.00	4.50	100
4.50	6.00	100
6.00	7.50	100
7.50	9.00	100
9.00	10.50	100
10.50	12.00	100
12.00	13.50	100
13.50	15.00	100
15.00	16.50	100
16.50	18.00	100
18.00	19.50	100
19.50	21.00	100
21.00	22.50	100
22.50	24.00	100
24.00	25.50	100
25.50	27.00	100
27.00	28.50	100
28.50	30.00	100
30.00	31.50	100
31.50	33.00	100
33.00	34.50	100
34.50	36.00	100
36.00	37.50	100
37.50	39.00	100
39.00	40.50	100
40.50	42.00	100
42.00	43.50	100
43.50	45.00	100
45.00	46.50	100
46.50	48.00	100
48.00	49.50	100
49.50	51.00	100
51.00	52.50	100
52.50	54.00	100
54.00	55.50	100

General Remarks

1. Deck to mud was 18.00m; deck level was 10.49m above OD. 2. Driller noted blowing sand between 13.50m and 34.50m. 3. Driller noted jaw plates, core bit and barrel damaged and replaced on 24/07/2019; logging engineer noted core catcher at top of liner for core runs between 12.00m and 13.50m and between 13.50m and 15.50m. 4. Samples ES1 (0.00m-19.50m) and ES2 (19.50m-39.00m) were composite of material taken from ends of runs before liners were removed for core logging.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	CAY	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 24/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648131.96 N263834.77	Ground Elevation (m Datum)	-7.51	Sheet 1 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 19.50	ES	1							Grey (oxidising to yellowish brown) slightly gravelly and gravelly silty SAND with abundant shell fragments (mainly bivalves) (<8mm x 10mm x 15mm) and occasional bivalve shells (<2mm x 30mm x 30mm). Slightly calcareous and calcareous. Sand is mainly fine and medium. Gravel is rounded and well rounded fine to coarse of mudstone, medium grained sandstone of chert/flint and quartz. Possible Marine Deposits, Bank Deposits.	(0.56)		
									[MARINE DEPOSITS, BANK DEPOSITS]	0.56	-8.07	
0.00 - 1.50				100	N/A	N/A		1	Grey (oxidising to dark yellowish brown and brown) silty SAND with frequent shell fragments (mainly bivalves) (<1mm x 10mm x 10mm). Slightly calcareous. Sand is fine and medium. Possible Norwich Crag Formation.			
									[NORWICH CRAG FORMATION (UNDIFFERENTIATED)]	(1.20)		
									0.56m to 1.30m; with extremely closely to closely spaced thin and thick laminae of dark yellowish brown silty fine and medium sand.			
										1.76	-9.27	
									Grey (oxidising to dark yellowish brown and brown) gravelly silty SAND with frequent to abundant shell fragments (mainly bivalves) (<1mm x 8mm x 10mm).	(0.24)		
								2	Slightly calcareous and calcareous. Sand is mainly fine and medium. Gravel is rounded and well rounded, rarely flat, fine to coarse of mudstone, fine grained sandstone, chert/flint, quartz, with rare subrounded and flat ferruginous concretions and possibly with concretion/pockets of very soft grey clay. Possible Norwich Crag Formation.	2.00	-9.51	
1.50 - 3.00				93	N/A	N/A			[NORWICH CRAG FORMATION (UNDIFFERENTIATED)]			
									Grey (possibly oxidising to dark reddish brown, dark brownish red, dark yellowish brown and brown) silty SAND, locally very silty sand, with extremely closely to closely spaced thin and thick laminae of dark yellowish brown, dark reddish brown, dark brownish red and brown silty fine and medium sand, with frequent to locally abundant shell fragments (mainly bivalves) (<1mm x 10mm x 10mm). Slightly calcareous and calcareous. Sand is mainly fine and medium. Possible Norwich Crag Formation.			
								3	[NORWICH CRAG FORMATION (UNDIFFERENTIATED)]	(2.30)		
									2.10m to 2.34m; interlaminated, possibly cross-bedded (30-35 degrees), with dark reddish brown and dark brownish red very silty mainly fine sand.			
									2.90m to 3.00m; assumed zone of core loss.			
3.00 - 4.50				87	N/A	N/A						
								4	4.11m to 4.18m; thin bed of dark reddish brown and dark brownish red silty medium and coarse sand.			
										4.30	-11.81	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.20)		
										4.50	-12.01	
									Grey (oxidising to dark reddish brown, dark brownish red, dark yellowish brown and brown) silty SAND with extremely closely and very closely spaced thin and thick laminae of dark yellowish brown, dark reddish brown, dark brownish red and brown silty mainly fine sand, with rare shell fragments (<1mm). Slightly calcareous. Sand is mainly fine and medium. Possible			

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648131.96 N263834.77	Ground Elevation (m Datum)	-7.51	Sheet 2 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
4.50 - 6.00				83	N/A	N/A			Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)] At 5.63m; with 1 No. pocket/lens (25mm x 70mm) of very soft and soft grey and light grey clay.	(1.25)		
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	5.75 (0.25)	-13.26	
6.00 - 7.50				93	N/A	N/A		6	Grey (oxidising to dark yellowish brown, brown, dark reddish brown and dark brownish red silty SAND with very closely to medium spaced thick laminae and rare thin beds of very soft and soft light grey and grey clay, with rare pockets/lenses (<35mm x 75mm) of soft and firm dark greenish grey clay and soft grey clay, locally with some shell fragments (mainly bivalves) (<1mm x 5mm x 5mm). Rarely slightly calcareous. Sand is fine and medium, locally mainly medium. Possible Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)]	6.00	-13.51	
								7	At 6.90m; with 1 No. pocket/lens (35mm x 75mm) of soft grey clay. 7.12m to 7.28m; thinly interlaminated light grey and grey fine and medium sand and very soft and soft light grey and grey clay. 7.40m to 7.50m; assumed zone of core loss.	(2.55)		
7.50 - 9.00				93	N/A	N/A			At 7.65m; with 1 No. pocket (20mm x 35mm) of soft and firm dark greenish grey clay.			
								8	7.93m to 8.00m; thinly interlaminated light grey and grey fine and medium sand and very soft and soft light grey and grey clay. 8.00m to 8.12m; thinly interlaminated soft and very soft grey and dark greenish grey clay and dark yellowish brown, dark reddish brown and dark brownish red fine and medium sand. 8.25m to 8.55m; with some shell fragments. Sand is mainly medium.			
									Grey and dark grey (oxidising to dark yellowish brown, dark yellowish grey, brown, dark reddish brown and dark brownish red) silty SAND, locally slightly silty sand, with possibly extremely closely and very closely spaced indistinct thin and thick laminae of dark yellowish brown, brown, dark reddish brown and dark brownish red silty fine and medium sand, with rare shell fragments (<1mm). Rarely slightly calcareous. Sand is mainly fine and medium. Possible Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)]	8.55	-16.06	
9.00 - 10.50				93	N/A	N/A		9	8.90m to 9.00m; assumed zone of core loss. 9.00m to 9.30m; dark grey (oxidising to dark yellowish grey).			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648131.96 N263834.77	Ground Elevation (m Datum)	-7.51	Sheet 3 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
								11	10.40m to 10.50m; assumed zone of core loss. At 10.50m; dark grey (oxidising to dark yellowish grey).	(4.00)		
10.50 - 12.00				93	N/A	N/A						
12.00 - 12.55	B	7						12	11.90m to 12.00m; assumed zone of core loss.			
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	12.55	-20.06	
12.00 - 13.50				37	N/A	N/A		13		(0.95)		
									Grey and dark grey (oxidising to dark yellowish brown and brown) silty SAND, locally with possibly extremely closely to closely spaced indistinct thin laminae of dark yellowish brown and brown silty fine and medium sand, with rare shell fragments (<1mm). Rarely slightly calcareous. Sand is mainly fine and medium. Possible Norwich Crag Formation.	13.50	-21.01	
								14	[NORWICH CRAG FORMATION (UNDIFFERENTIATED)]			
13.50 - 15.00				93	N/A	N/A			At 14.20m; with 1 No. lens (8mm x 30mm) of firm dark brown clayey silt. At 14.40m; with 1 No. lens (8mm x 45mm) of firm dark brown clayey silt. 14.45m to 14.90m; with possibly extremely closely to closely spaced indistinct thin laminae of silty fine and medium sand.	(2.00)		
									14.90m to 15.00m; assumed zone of core loss.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648131.96 N263834.77	Ground Elevation (m Datum)	-7.51	Sheet 4 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
										15.50	-23.01	
15.00 - 16.50				87	N/A	N/A			Grey SAND with rare shell fragments (<1mm). Rarely slightly calcareous. Sand is mainly fine and medium. Possible Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)] At 15.70m; with 1 No. pocket (10mm x 20mm) of firm grey silty clay.	(0.80)		
								16		16.30	-23.81	
16.50 - 17.00	D	5							Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.20)		
16.50 - 18.00				88	N/A	N/A		17	Grey, locally mottled dark grey, slightly gravelly SAND with occasional to some shell fragments (mainly bivalves) (<2mm x 4mm), and occasional pockets/ lenses (<5mm x 10mm) of soft and firm light grey silty clay. Rarely slightly calcareous. Sand is mainly fine and medium. Gravel is mainly subangular, occasionally flat, medium and coarse of weak and moderately weak grey, light brownish grey and light grey slightly calcareous claystone and argillaceous siltstone. Possible Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)] 17.82m to 18.00m; assumed zone of core loss. 18.00m to 18.20m; mottled dark grey.	16.50 (2.05)	-24.01	
								18		18.55	-26.06	
18.00 - 19.50				37	N/A	N/A			Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.			
								19		(0.95)		
19.50 - 39.00	ES	2							Grey mottled dark grey slightly gravelly SAND with rare to occasional shell fragments (<2mm x 2mm). Rarely slightly calcareous. Sand is mainly fine and medium. Gravel is angular and subangular, flat, medium and coarse of weak and moderately weak light brownish grey slightly calcareous claystone/ argillaceous siltstone. Possible Norwich Crag	19.50 (0.20) 19.70	-27.01 -27.21	

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648131.96 N263834.77	Ground Elevation (m Datum)	-7.51	Sheet 5 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
19.50 - 21.00				81	N/A	N/A			Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)] Dark greenish grey (slightly glauconitic) slightly gravelly SAND with frequent to abundant shell fragments (mainly bivalves) (<3mm x 25mm x 35mm). Calcareous. Sand is fine to coarse. Gravel is subrounded and rounded fine of dark yellowish brown and dark brownish grey possible chert/flint. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	(1.02) 20.72	-28.23	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.28)		
21.00 - 21.90	B	8						21	Dark greenish grey and grey (possibly glauconitic) SAND, locally slightly gravelly sand, with some to frequent shell fragments (mainly bivalves) (<1mm x 10mm x 10mm). Calcareous. Sand is mainly fine and medium. Gravel is angular and subangular, flat, medium and coarse of weak and moderately weak light brownish grey and greenish grey slightly calcareous claystone/argillaceous siltstone. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	21.00	-28.51	
21.00 - 22.50				80	N/A	N/A			21.00m to 21.30m; slightly gravelly.	(1.20)		
								22				
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	22.20 (0.30)	-29.71	
22.50 - 22.85	B	9							Dark greenish grey and grey (possibly slightly glauconitic and glauconitic) silty SAND, locally slightly gravelly and gravelly silty sand, with abundant shell fragments (mainly bivalves, with possible Pecten) (<2mm x 10mm x 20mm). Calcareous. Sand is fine to coarse. Gravel is angular and subangular, flat, mainly fine, locally coarse of moderately weak light brownish grey and grey slightly calcareous argillaceous siltstone. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	22.50	-30.01	
22.85 - 23.22	B	10						23		(0.72)		
22.50 - 24.00				48	N/A	N/A			At 22.60m; slightly gravelly. 22.85m to 23.20m; gravelly.	23.22	-30.73	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.78)		
24.00 - 25.10	B	11						24	Dark greenish grey and grey (oxidising to dark yellowish brown and dark brown) (possibly slightly glauconitic and glauconitic) silty SAND, locally with possibly extremely closely spaced indistinct thin and thick laminae of dark greenish grey and grey silty fine sand, with abundant shell fragments (mainly bivalves) (<2mm x 20mm x 20mm). Calcareous. Sand is mainly fine and medium. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	24.00	-31.51	
24.00 - 25.50				73	N/A	N/A			24.80m to 25.10m; with possibly extremely closely spaced indistinct thin and thick laminae of silty fine sand.	(1.10)		

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648131.96 N263834.77	Ground Elevation (m Datum)	-7.51	Sheet 6 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	25.10 (0.40)	-32.61	
25.50 - 26.85	B	12						26	Dark greenish grey and grey (oxidising to dark yellowish brown and dark brown) (possibly slightly glauconitic and glauconitic) slightly gravelly silty SAND with abundant shell fragments (mainly bivalves, with Pecten) (<2mm x 10mm x 15mm). Calcareous. Sand is mainly fine and medium. Gravel is angular and subangular, rarely subrounded, flat medium and coarse of moderately weak possibly medium strong greenish grey and grey slightly calcareous arenaceous (fine sand grained) siltstone. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	25.50 (1.50)	-33.01	
25.50 - 27.00				90	N/A	N/A			26.85m to 27.00m; assumed zone of core loss.			
27.00 - 27.40	D	6						27	Dark greenish grey and grey (oxidising to dark yellowish brown and dark brown) (possibly slightly glauconitic and glauconitic) gravelly silty SAND, locally gravelly very silty sand, with abundant shell fragments (mainly bivalves, with Pectin) (<2mm x 25mm x 30mm), and occasional pockets/lenses (<10mm x 40mm) of brownish grey and grey firm silty clay. Calcareous. Sand is fine to coarse, locally fine and medium. Gravel is angular and subangular, rarely subrounded, flat mainly coarse of weak to possibly medium strong greenish grey and grey slightly calcareous arenaceous (fine sand grained) siltstone and possible claystone. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	27.00 (1.70)	-34.51	
27.40 - 28.15	B	13										
27.00 - 28.50				90	N/A	N/A		28	28.20m to 28.35m; very silty (possibly drilling disturbed). Sand is fine and medium. 28.35m to 28.50m; assumed zone of core loss.			
										28.70	-36.21	
28.50 - 30.00				93	N/A	N/A		29	Dark greenish grey and grey (oxidising to dark yellowish brown and dark brown) (possibly slightly glauconitic and glauconitic) silty SAND, locally slightly gravelly silty sand, with abundant shell fragments (mainly bivalves) (<1mm x 8mm x 15mm). Calcareous. Sand is fine to coarse. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	(1.43)		
29.50 - 29.90	B	14							29.80m to 29.90m; slightly gravelly. Gravel is mainly fine. 29.90m to 30.00m; assumed zone of core loss.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648131.96 N263834.77	Ground Elevation (m Datum)	-7.51	Sheet 7 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
30.00 - 31.50				90	N/A	N/A		31	Dark greenish grey and grey (oxidising to dark yellowish brown and dark brown) (possibly slightly glauconitic and glauconitic) silty SAND, locally slightly gravelly and gravelly silty sand, with medium and widely spaced thin and medium beds of dark greenish grey and grey very silty fine and medium sand, with frequent to abundant shell fragments (mainly bivalves, with Pecten) (<2mm x 10mm x 25mm), and occasional pockets/lenses (<10mm x 30mm) of soft and firm brownish grey and grey silty clay. Calcareous. Sand is mainly fine and medium, locally medium and coarse. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	30.13	-37.64	
31.50 - 33.00				100	N/A	N/A		32	31.35m to 31.50m; assumed zone of core loss. 31.50m to 32.30m; sand is medium and coarse.			
33.00 - 34.50				93	N/A	N/A		33				
34.00 - 34.40	B	15						34	34.00m to 34.40m; gravelly. Sand is mainly medium and coarse. Gravel is mainly fine and medium. 34.40m to 34.50m; assumed zone of core loss. 34.50m to 34.70m; slightly gravelly, with abundant shell fragments (<2mm x 20mm x 30mm) and occasional bivalve shells (<1mm x 25mm x 35mm). Gravel is subangular to rounded fine and medium of greenish grey and brown chert/flint.	(9.13)		

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648131.96 N263834.77	Ground Elevation (m Datum)	-7.51	Sheet 8 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
34.50 - 36.00				93	N/A	N/A						
								36	35.90m to 36.00m; assumed zone of core loss.			
36.00 - 37.50				93	N/A	N/A						
								37	37.40m to 37.50m; assumed zone of core loss.			
37.50 - 39.00				93	N/A	N/A						
								38				
									38.90m to 39.00m; assumed zone of core loss.			
								39				
									Firm becoming stiff and very stiff indistinctly fissured dark bluish grey becoming dark brownish grey silty CLAY, locally slightly gravelly silty clay, locally with some to frequent pockets (<40mm x 45mm) of dark greenish grey and grey silty and very silty fine and medium sand, and locally with rare to occasional bivalve shell fragments (<1mm x 10mm x 20mm). Gravel is subangular to rounded medium and coarse of strong dark grey limestone and dark brownish grey coated pebbles of dark reddish brown slightly	39.26 (0.69) 39.95	-46.77 -47.46	
39.00 - 40.50				100	N/A	N/A						

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648131.96 N263834.77	Ground Elevation (m Datum)	-7.51	Sheet 9 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									calcareous possible limestone. Fissures are randomly orientated, planar, smooth, polished and rarely striated (possibly sheared), tight, with dark brown staining/ gleying. Possibly reworked Harwich Formation, Wrabness Member. [HARWICH FORMATION, WRABNESS MEMBER] 39.26m to 39.42m; slightly gravelly, with some to frequent pockets of silty and very silty sand, and rare to occasional shell fragments. 39.42m to 39.95m; stiff and very stiff, dark brownish grey. 39.70m to 39.95m; slightly gravelly, with some to frequent pockets of silty and very silty sand, and rare to occasional shell fragments.			
40.50 - 42.00				100	N/A	N/A		41	Stiff and very stiff, locally firm and stiff (possibly drilling disturbed), locally indistinctly fissured, dark brownish grey slightly sandy silty CLAY with closely to widely spaced very thin to medium beds of very stiff/ extremely weak and very weak dark grey and black tuffaceous silty clay/clayey silt and claystone/siltstone, with some to frequent indistinct pockets/lenses (<20mm x 25mm) of light greyish brown and brown silty fine sand, and rare to occasional burrows (<2mm x 15mm) infilled with light grey and grey possible silty clay/clayey silt. Micaceous. Sand is mainly fine. Harwich Formation, Wrabness Member, Unit A. [HARWICH FORMATION, WRABNESS MEMBER] 40.50m to 41.60m; recovered as firm and stiff (possibly drilling disturbed).	(3.17)		
42.16 - 42.23	D	3						42	At 41.93m; with 1 No. lignite fragment (10mm x 10mm). 42.43m to 42.50m; recovered as very soft (possibly drilling disturbed). At 42.58m; with 1 No. pyrite concretion/nodule (20mm x 25mm).			
42.00 - 43.50				97	N/A	N/A		43	At 43.07m; with 1 No. lignite fragment (5mm x 8mm).	43.12	-50.63	
									Possibly medium strong and strong dark grey and greyish black LIMESTONE. Recovered as non intact core (assumed as drilling induced) of very angular to subangular fragments (<60mm x 70mm x 75mm) with some possibly very soft and soft silty clay. Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	(0.38)		
43.50 - 45.00				97	N/A	N/A		44	Stiff, locally indistinctly fissured, dark greyish brown slightly sandy silty CLAY with closely and medium spaced very thin to medium beds of very stiff/ extremely weak and very weak dark grey and black tuffaceous silty clay/clayey silt and claystone/siltstone, with some to frequent indistinct pockets/lenses (<15mm x 20mm) of light greyish brown and brown silty fine sand, and rare to occasional burrows (<1mm x 10mm) infilled with light grey and grey possibly silty clay/clayey silt. Micaceous. Sand is mainly fine. Harwich Formation, Wrabness Member, Unit A. [HARWICH FORMATION, WRABNESS MEMBER]	43.50	-51.01	
									Continued next page			

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648131.96 N263834.77	Ground Elevation (m Datum)	-7.51	Sheet 10 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
45.00 - 46.50				100	N/A	N/A		46		(3.60)		
46.50 - 48.00				97	N/A	N/A		47	46.74m to 46.80m; slightly glauconitic. At 46.80m; with 1 No. pyrite concretion/nodule (25mm x 30mm).	47.10	-54.61	
48.00 - 49.50				100	N/A	N/A		48	Stiff and very stiff, locally probably firm and stiff, indistinctly fissured and locally fissured dark greyish brown and dark brown slightly sandy CLAY with possibly extremely closely to closely spaced indistinct thin and thick laminae of light greyish brown and brown silty fine sand, with abundant pockets/lenses (<20mm x 45mm) of light greyish brown and brown silty fine sand, and rare to occasional burrows (<1mm x 10mm) infilled with light grey and grey possibly silty clay/ clayey silt. Micaceous. Sand is mainly fine. Fissures are randomly orientated, planar, smooth, polished and rarely striated (possibly sheared), possibly very tight. [HARWICH FORMATION, ORWELL MEMBER] 47.25m to 47.40m; probably firm and stiff. At 47.50m; with 1 No. pyrite concretion (5mm x 15mm). 47.85m to 47.91m; very thin bed of extremely weak and very weak dark grey and black tuffaceous claystone/ siltstone. 48.00m to 48.10m; probably firm and stiff.			
49.00 - 49.10	D	4						49	49.30m to 51.90m; fissured. At 49.40m; with 1 No. pyrite concretion/nodule (8mm x 25mm x 30mm).	(5.44)		
									Continued next page			

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648131.96 N263834.77	Ground Elevation (m Datum)	-7.51	Sheet 11 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
49.50 - 51.00				100	N/A	N/A			50.24m to 50.28m; very thin bed of very stiff dark grey and black tuffaceous silty clay/clayey silt.			
								51	50.94m to 50.95m; thick lamina of very stiff dark grey and black tuffaceous silty clay/clayey silt.			
51.00 - 52.50				100	N/A	N/A			At 51.63m; with 1 No. lignite fragment (8mm x 15mm).			
								52	51.90m to 52.10m; probably firm and stiff.			
									52.10m to 52.50m; probably firm.			
									52.36m to 52.40m; recovered as very soft (possibly drilling disturbed).			
									Very stiff dark brown and dark greyish brown silty CLAY with occasional pockets/fragments (<20mm x 40mm) of stiff dark greyish brown slightly sandy, silty clay. Slightly calcareous and calcareous. Sand is fine. Possibly reworked undifferentiated Mottled Beds (Reading Formation). [READING FORMATION]	52.54 (0.11) 52.65	-60.05 -60.16	
								53	Very stiff indistinctly micro fissured light brown and brown mottled/gleyed bluish grey, locally greyish brown, silty CLAY, locally with possibly very closely spaced indistinct thin laminae of white and light grey silt, with frequent to abundant subangular and subrounded calcareous concretions/nodules (<10mm x 15mm x 25mm), frequent to abundant burrows (<1mm x 10mm) infilled with white and light grey possible silt, and frequent to abundant lenses (<5mm x 50mm) of white and light grey silt. Calcareous and highly calcareous. Micro fissures are, possibly extremely closely spaced, randomly orientated, planar, smooth, polished, and occasionally striated (possibly sheared), very tight. Undifferentiated Mottled Beds (Reading Formation). [READING FORMATION]	(1.35)		
52.50 - 54.00				100	N/A	N/A			52.65m to 52.90m; greyish brown. 53.70m to 54.00m; with possibly very closely spaced indistinct thin laminae of silt.	54.00 (0.28)	-61.51	
								54	Firm becoming soft and firm brown and yellowish brown mottled/gleyed bluish grey slightly sandy silty CLAY, possibly with slightly sandy clayey silt with extremely closely to closely spaced thin laminae of white and light grey silt. Calcareous and highly calcareous. Sand is mainly fine. Undifferentiated Mottled Beds (Reading Formation). [READING FORMATION]	54.28	-61.79	
54.00 - 55.50				97	N/A	N/A			54.18m to 54.28m; soft and firm.	(1.22)		
									Brown and greyish brown silty SAND. Slightly			

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648131.96 N263834.77	Ground Elevation (m Datum)	-7.51	Sheet 12 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									calcareous. Sand is mainly fine and medium. Undifferentiated Mottled Beds (Reading Formation), Channel Sands. [READING FORMATION]			
									55.35m to 55.45m; with frequent pockets/fragments (<50mm x 55mm x 60mm) of soft and firm dark brownish grey and brown mottled/gleyed bluish grey calcareous and highly calcareous silty clay/clayey silt.	55.50	-63.01	
									End of Borehole at 55.50 m			
								56				
								57				
								58				
								59				

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SB_02**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648669.49 N263725.52	Ground Elevation (m Datum)	-10.04	Sheet 1 of 1
Hole Type	Sonic Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	60.00	SD	21/07/2019	23/07/2019	LS600 : Excalibur	Sonic	118mm	TM/PJ	JB/SDB/ GDF	

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
21/07/2019	21:00:00	0.00	1.50	
21/07/2019	23:45:00	6.00	6.00	
22/07/2019	00:00:00	6.00	6.00	
22/07/2019	11:45:00	24.00	24.00	
22/07/2019	12:00:00	24.00	24.00	
22/07/2019	23:45:00	46.50	46.50	
23/07/2019	00:00:00	46.50	46.50	
23/07/2019	10:10:00	60.00	60.00	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
60.00	118	1.50	250
		60.00	150

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
0.00	1.50	100
1.50	3.00	100
3.00	4.50	100
4.50	6.00	100
6.00	7.50	100
7.50	9.00	100
9.00	10.50	100
10.50	12.00	100
12.00	13.50	100
13.50	15.00	100
15.00	16.50	100
16.50	18.00	100
18.00	19.50	100
19.50	21.00	100
21.00	22.50	100
22.50	24.00	100
24.00	25.50	100
25.50	27.00	100
27.00	28.50	100
28.50	30.00	100
30.00	31.50	100
31.50	33.00	100
33.00	34.50	100
34.50	36.00	100
36.00	37.50	100
37.50	39.00	100
39.00	40.50	100
40.50	42.00	100
42.00	43.50	100
43.50	45.00	100
45.00	46.50	100
46.50	48.00	100
48.00	49.50	100
49.50	51.00	100
51.00	52.50	100
52.50	54.00	100
54.00	55.50	100
55.50	57.00	100
57.00	58.50	100
58.50	60.00	100

General Remarks

1. Deck to mud was 20.30m; deck level was 10.26m above OD.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	CAY	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 24/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SB_02**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648669.49 N263725.52	Ground Elevation (m Datum)	-10.04	Sheet 1 of 12
Hole Type	Sonic Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 1.50				63	N/A	N/A			Dark yellowish brown (possibly oxidised colour) slightly gravelly and gravelly SAND with abundant shell fragments (mainly bivalves) (<2mm x 10mm x 10mm) and rare to occasional bivalve and gastropod shells (<5mm x 25mm x 30mm), and occasional pockets/ possible lenses (<40mm x 40mm x 45mm) of soft brown grey clay. Slightly calcareous and calcareous. Sand is mainly fine and medium. Gravel is subrounded and rounded mainly medium and coarse of dark yellowish brown, dark grey and grey chert/flint, white and grey quartz, and rare flat ferruginous concretions. Possible Marine Deposits, Bank Deposits/Beach Deposits. [MARINE DEPOSITS, BANK DEPOSITS]	(0.36)		
										0.36	-10.40	
										(0.59)		
								1	Dark grey and black (occasionally oxidising to dark yellowish brown), possibly organic, locally slightly gravelly, clayey and very clayey SAND with frequent shell fragments (<1mm x 5mm x 5mm). Slightly calcareous and calcareous. Sand is mainly fine and medium. Gravel is subrounded to rounded coarse of dark yellowish brown chert. Slight to moderate organic odour. Possible undifferentiated Recent Deposits. [MARINE DEPOSITS, BANK DEPOSITS]	0.95	-10.99	
									0.36m to 0.46m; very soft and soft dark grey and black (occasionally oxidising to dark yellowish brown), possibly organic, slightly sandy silty clay. Slightly calcareous.	(0.55)		
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	1.50	-11.54	
										(0.65)		
1.50 - 3.00				100	N/A	N/A		2	Dark grey and black (occasionally oxidising to dark yellowish brown), possibly organic, silty SAND, locally clayey sand, with frequent shell fragments (<1mm x 5mm x 5mm). Slightly calcareous and calcareous. Sand is mainly fine and medium. Slight to moderate organic odour. Possible Marine Deposits, Bank Deposits/Beach Deposits. [MARINE DEPOSITS, BANK DEPOSITS]	2.15	-12.19	
										(0.51)		
									Very soft and soft dark grey and black (occasionally oxidising to dark yellowish brown), possibly organic, slightly sandy silty CLAY with abundant shell fragments (<1mm x 3mm x 3mm), and frequent pockets/lenses (<45mm x 65mm) of dark yellowish brown (possibly oxidised colour) mainly fine and medium sand. Slightly calcareous and calcareous. Sand is mainly fine. Slight to moderate organic odour. Possible Marine Deposits, Bank Deposits/Beach Deposits. [MARINE DEPOSITS, BANK DEPOSITS]	2.66	-12.70	
										(0.14)		
								3		2.80	-12.84	
3.00 - 4.50				97	N/A	N/A			Dark yellowish brown (possibly oxidised colour) slightly gravelly and gravelly SAND with abundant shell fragments (mainly bivalves) (<1mm x 5mm x 10mm). Slightly calcareous and calcareous. Sand is mainly fine and medium. Gravel is subrounded and rounded mainly fine and medium of dark yellowish brown, dark grey and grey chert/flint and white and grey quartz. Possible Marine Deposits, Bank Deposits/Beach Deposits/reworked Crag Group. [MARINE DEPOSITS, BANK DEPOSITS]			
								4	Dark yellowish brown and dark brown (possibly oxidised colour), locally light brownish grey, silty SAND, locally with extremely closely and very closely spaced indistinct thin and thick laminae of dark brown, light brownish grey and dark yellowish brown silty fine sand. Slightly calcareous. Sand is mainly fine and medium. Possible Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)]	(2.95)		
									4.00m to 4.45m; with extremely closely and very closely spaced indistinct thin and thick laminae of silty fine sand.			
									4.93m to 5.50m; with extremely closely and very closely			

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648669.49 N263725.52	Ground Elevation (m Datum)	-10.04	Sheet 2 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									spaced indistinct thin and thick laminae of silty fine sand.			
4.50 - 6.00				83	N/A	N/A			5.10m to 5.20m; light brownish grey.			
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	5.75 (0.25)	-15.79	
								6	Dark reddish brown and dark brown (possibly oxidised colour), locally mottled dark grey, grey and black, silty SAND. Occasionally slightly calcareous. Sand is mainly fine and medium. Possible Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)]	6.00	-16.04	
6.00 - 7.50				87	N/A	N/A			6.00m to 6.50m; mottled dark grey and grey.	(1.30)		
								7	At 6.90m; rarely mottled black.			
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	7.30 (0.20)	-17.34	
									Dark reddish brown and dark brown becoming dark yellowish grey (possibly oxidised colour), locally mottled dark grey and black, silty SAND. Slightly calcareous. Sand is mainly fine and medium. Possible Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)]	7.50	-17.54	
								8	7.50m to 7.80m; mottled dark grey and black.	(1.25)		
7.50 - 9.00				83	N/A	N/A			8.24m to 8.75m; dark yellowish grey.			
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	8.75 (0.25)	-18.79	
								9	Dark yellowish brown and dark brown (possibly oxidised colour), locally mottled dark grey and black, silty SAND. Slightly calcareous. Sand is mainly fine and medium. Possible Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)]	9.00	-19.04	
									9.00m to 9.50m; mottled dark grey and black.	(1.00)		
9.00 - 10.50				67	N/A	N/A						
									Continued next page	10.00	-20.04	

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648669.49 N263725.52	Ground Elevation (m Datum)	-10.04	Sheet 3 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.50)		
										10.50	-20.54	
10.50 - 12.00				97	N/A	N/A		11	Dark yellowish brown, reddish brown and dark brown (possibly oxidised colour), locally dark grey and black, silty SAND. Slightly calcareous. Sand is mainly fine and medium. Possible Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)] At 11.10m; with 1 No. thin lamina of dark brown silty fine sand. At 11.40m; with 1 No. thin lamina of dark brown silty fine sand.	(1.35)		
										11.85	-21.89	
12.00 - 13.50				77	N/A	N/A		12 13	Dark yellowish brown and dark brown (possibly oxidised colour), locally dark grey and black, slightly gravelly silty SAND, locally with extremely closely to closely spaced indistinct thin laminae and thick laminae of dark brown silty fine sand with shell fragments (<1mm) and soft and firm dark brown silty clay, with occasional pockets/lenses (<15mm x 35mm) of firm brown and dark brown silty clay. Calcareous. Sand is mainly fine and medium. Gravel is subangular and subrounded medium and coarse of weak brown slightly calcareous mudstone/siltstone and rare rounded medium brown chert/flint, possibly with medium and coarse ferruginous concretions/pockets of very stiff clay. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)] 12.00m to 12.30m; dark grey and black. 12.70m to 13.05m; with possibly extremely closely to closely spaced indistinct thin laminae of silty fine sand with shell fragments. 13.05m to 13.15m; with very closely spaced thick laminae of silty clay.	(1.30)		
										13.15	-23.19	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.35)		
										13.50	-23.54	
13.50 - 15.00				100	N/A	N/A		14	Dark grey and dark brownish grey (oxidising to dark yellowish brown) slightly gravelly silty SAND, locally slightly gravelly very silty sand, with some to frequent shell fragments (mainly bivalves) (<5mm x 5mm x 8mm). Calcareous. Sand is mainly fine and medium. Gravel is subangular and subrounded fine to coarse of weak brown slightly calcareous mudstone/siltstone, possibly with ferruginous concretions/pockets of very stiff clay. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)] 14.15m to 14.40m; very silty. Sand is mainly fine.	(2.80)		
15.00 - 15.40	D	1										

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648669.49 N263725.52	Ground Elevation (m Datum)	-10.04	Sheet 4 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
15.40 - 15.80	B	4										
15.00 - 16.50				87	N/A	N/A		16	15.90m to 16.30m; with possibly closely spaced indistinct thick laminae of dark yellowish brown silty fine sand with abundant shell fragments (<1mm x 5mm x 5mm).			
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	16.30 (0.20)	-26.34	
									Dark grey and dark brownish grey (oxidising to dark yellowish brown) slightly gravelly silty SAND with occasional pockets/lenses (<35mm x 40mm) of interlaminated soft and firm light grey and grey silty clay and dark grey silty fine sand. Calcareous. Sand is mainly fine and medium. Gravel is subangular and subrounded medium of weak light grey slightly calcareous mudstone/siltstone. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	16.50 (0.40)	-26.54	
16.50 - 18.00				93	N/A	N/A		17	Dark greenish grey (slightly oxidising to dark brown) (possibly glauconitic) slightly gravelly and gravelly silty and very silty SAND with frequent to locally abundant shell fragments (mainly bivalves with Pecten) (<1mm x 4mm x 5mm, locally <2mm x 20mm x 25mm) and rare conical gastropods (<4mm x 20mm). Calcareous and highly calcareous. Sand is fine to coarse becoming mainly fine and medium. Gravel is subangular and subrounded, frequently flat, fine and medium, occasionally coarse, of weak and possibly moderately weak light grey and grey slightly calcareous mudstone/ siltstone. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	16.90	-26.94	
								18	17.54m to 17.57m; very thin bed of weak and moderately weak light grey and grey slightly calcareous mudstone/ siltstone. 17.60m to 17.63m; very thin bed of weak and moderately weak light grey and grey slightly calcareous mudstone/ siltstone. 17.90m to 18.00m; assumed zone of core loss.			
18.00 - 19.50				93	N/A	N/A				(3.90)		
								19	19.20m to 19.40m; with abundant shell fragments (<2mm x 20mm x 25mm). 19.40m to 19.50m; assumed zone of core loss.			
19.50 - 19.90	B	5							19.50m to 20.35m; with abundant shell fragments (<2mm x 20mm x 25mm).			
19.90 - 20.25	B	6										
									Continued next page			

Notes

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648669.49 N263725.52	Ground Elevation (m Datum)	-10.04	Sheet 5 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
19.50 - 21.00				87	N/A	N/A			20.35m to 20.80m; sand is mainly fine and medium.			
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	20.80 (0.20)	-30.84	
21.00 - 21.85	B	7						21	Grey, locally dark grey, (slightly oxidising to dark greenish brown) (possibly glauconitic) slightly gravelly silty SAND, locally with rare to frequent shell fragments (mainly bivalves) (<1mm x 10mm x 20mm). Calcareous and highly calcareous. Sand is mainly fine and medium. Gravel is subangular and subrounded, frequently flat, medium and coarse of weak and possibly moderately weak light grey and grey slightly calcareous mudstone/siltstone. Possible Red Crag Formation.	21.00	-31.04	
21.00 - 22.50				80	N/A	N/A			[RED CRAG FORMATION (UNDIFFERENTIATED)] 21.00m to 21.40m; dark grey, with frequent shell fragments. 21.40m to 22.20m; with rare to occasional shell fragments (<2mm).	(1.20)		
								22	22.10m to 22.20m; thickly interlaminated soft and firm light brownish grey (oxidising to brown) slightly calcareous silty clay with dark grey and black fine sand.	22.20	-32.24	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS	(0.30)		
22.50 - 23.85	B	8							Grey and dark grey (slightly oxidising to dark greenish brown) (possibly glauconitic) silty SAND with frequent to abundant shell fragments (mainly bivalves) (<1mm x 15mm x 20mm). Calcareous. Sand is mainly fine and medium. Possible Red Crag Formation.	22.50	-32.54	
									[RED CRAG FORMATION (UNDIFFERENTIATED)]			
								23	22.90m to 23.55m; with 3 No. closely and medium spaced thin and thick laminae of soft and firm light brownish grey (oxidising to brown) slightly calcareous silty clay.			
22.50 - 24.00				90	N/A	N/A				(2.50)		
									23.85m to 24.00m; assumed zone of core loss.			
24.00 - 25.00	B	9						24				
24.00 - 25.50				67	N/A	N/A						
									Continued next page	25.00	-35.04	

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648669.49 N263725.52	Ground Elevation (m Datum)	-10.04	Sheet 6 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.50)		
										25.50	-35.54	
25.50 - 27.00				97	N/A	N/A		26	Grey and dark grey (oxidising to dark greenish brown) (possibly glauconitic) silty SAND with frequent to abundant shell fragments (mainly bivalves, possibly with Pecten) (<1mm x 10mm x 18mm), locally with rare to occasional pockets/lenses (<35mm x 40mm) of soft and firm light greyish brown slightly calcareous silty clay. Calcareous. Sand is mainly fine and medium. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	(1.73)		
									26.35m to 26.85m; with possibly extremely closely and very closely spaced indistinct thin and thick laminae of grey, locally dark grey and black, silty fine and medium sand with subhorizontally aligned shell fragments (<1mm x 15mm).			
								27	26.85m to 26.95m; with rare to occasional pockets/lenses of slightly calcareous silty clay.			
										27.23	-37.27	
27.00 - 28.50				100	N/A	N/A		28	Thinly to thickly interbedded, locally very thinly interbedded, greenish grey and grey clayey SAND and soft and firm greenish grey and grey silty CLAY, with some to frequent shell fragments (mainly bivalves) (<1mm x 20mm x 30mm). Calcareous. Sand is mainly fine and medium. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]			
28.50 - 30.00				93	N/A	N/A		29		(4.27)		
									29.90m to 30.00m; assumed zone of core loss.			
									Continued next page			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648669.49 N263725.52	Ground Elevation (m Datum)	-10.04	Sheet 7 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
30.00 - 31.50				100	N/A	N/A		31				
									Greenish grey and grey (possibly glauconitic) silty and very silty SAND, locally with very thin and thin beds of soft calcareous silty clay. Calcareous. Sand is mainly fine and medium. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	31.50	-41.54	
31.50 - 33.00				100	N/A	N/A		32	32.20m to 32.50m; with some shell fragments (mainly bivalves) (<1mm x 20mm x 20mm). 32.50m to 32.80m; with some pockets/possible lenses (<40mm x 70mm) of soft greenish grey and grey calcareous silty clay. 32.80m to 33.00m; with some shell fragments (mainly bivalves) (<1mm x 20mm x 20mm).			
								33	33.00m to 33.20m; thin bed of soft calcareous silty clay.	(3.00)		
33.00 - 34.50				100	N/A	N/A		34	33.56m to 33.70m; thin bed of soft calcareous silty clay. At 34.10m; with some pockets/possible lenses (<25mm x 30mm) of soft greenish grey and grey calcareous silty clay. 34.18m to 34.50m; very thinly interbedded with soft calcareous silty clay.			
									Grey and dark grey (possibly glauconitic) (oxidising to dark greenish brown and black) silty SAND, locally slightly gravelly silty sand, locally with possibly extremely closely and very closely spaced indistinct thin and thick laminae of silty fine and medium sand, with frequent shell fragments (mainly bivalves) (<1mm x 10mm x 10mm). Slightly calcareous. Sand is mainly	34.50	-44.54	

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648669.49 N263725.52	Ground Elevation (m Datum)	-10.04	Sheet 8 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
34.50 - 36.00				93	N/A	N/A			fine and medium. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)] 35.20m to 35.90m; with possibly extremely closely and very closely spaced thin and thick laminae of silty fine and medium sand.	(2.50)		
36.00 - 36.40	B	10						36	35.90m to 36.00m; assumed zone of core loss.			
36.40 - 36.80	B	11							36.40m to 36.70m; with possibly extremely closely to very closely spaced laminae of silty fine and medium sand. 36.40m to 36.80m; slightly gravelly. Gravel is fine.			
36.00 - 37.50				67	N/A	N/A						
								37	Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	37.00 (0.50)	-47.04	
37.50 - 38.30	B	12								37.50	-47.54	
37.50 - 39.00				100	N/A	N/A		38	Grey and dark grey (possibly glauconitic, locally very glauconitic) (oxidising to dark greenish brown and black) silty SAND, with frequent to abundant shell fragments (mainly bivalves) (<1mm x 15mm x 18mm) and rare bivalve shells. Slightly calcareous and calcareous. Sand is mainly fine and medium. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)] At 38.70m; with 1 No. rounded medium gravel of dark grey and black glauconitic and pyritic siltstone.	(2.50)		
								39	39.05m to 39.13m; very glauconitic. 39.13m to 39.19m; very thin bed of possibly firm light brown clayey silt. 39.19m to 40.00m; with possibly extremely closely to closely spaced indistinct thin and thick laminae of grey and dark grey silty fine and medium sand.			
39.00 - 40.50				100	N/A	N/A						
									Continued next page	40.00	-50.04	

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_02**	
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Coordinates (m)	E648669.49 N263725.52	Ground Elevation (m Datum)	-10.04	Sheet 9 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									Firm becoming stiff indistinctly fissured dark greyish brown silty CLAY with some pockets/lenses (<35mm x 40mm) of light greyish brown and brown silty fine sand, and occasional burrows (<2mm x 10mm) infilled with light grey and grey clayey silt. Slightly micaceous. Fissures are randomly orientated, planar, smooth, polished and striated (possibly sheared), tight, with dark brown staining. Probably reworked Harwich Formation, Wrabness Member, Unit A. [HARWICH FORMATION, WRABNESS MEMBER]	(0.50)		
									40.00m to 40.25m; mottled light bluish grey. At 40.05m; with 1 No. rounded medium gravel of dark greyish black calcareous fine and medium grained sandstone (pebble). 40.20m to 40.21m; thick lamina of weak dark greyish black mottled dark reddish brown tuffaceous slightly weathered claystone. 40.25m to 40.50m; stiff. At 40.40m; with 1 No. lignite fragment (10mm x 35mm), partially replaced by pyrite.	40.50	-50.54	
40.50 - 42.00				100	N/A	N/A		41				
									Stiff and possibly very stiff indistinctly fissured dark greyish brown slightly sandy silty CLAY with very closely to widely spaced thick laminae to thin beds of very stiff/extremely weak dark grey and black tuffaceous silty clay/clayey silt/claystone/siltstone, with some to frequent pockets/lenses (<15mm x 40mm) of light greyish brown and brown silty fine sand, some burrows (<2mm x 25mm) infilled with light grey and grey clayey silt, and rare pyrite concretions/nodules (<10mm x 20mm x 25mm). Micaceous. Sand is mainly fine. Fissures are randomly orientated, planar, smooth, polished and occasionally striated (possibly sheared), very tight and tight, occasionally with dark brown staining. Harwich Formation, Wrabness Member, Unit A. [HARWICH FORMATION, WRABNESS MEMBER]	(3.65)		
								42	At 41.25m; with 1 No. pyrite concretion/nodule (10mm x 20mm x 25mm).			
42.00 - 43.50				100	N/A	N/A		43				
								44				
									Clay (Driller's description). ASSUMED ZONE OF CORE LOSS.	44.15	-54.19	
43.50 - 45.00				43	N/A	N/A				(0.85)		
									Continued next page	45.00	-55.04	

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648669.49 N263725.52	Ground Elevation (m Datum)	-10.04	Sheet 10 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
45.00 - 46.50				100	N/A	N/A		46	Stiff and possibly very stiff indistinctly fissured dark greyish brown slightly sandy silty CLAY with medium spaced, locally very closely spaced, very thin and thin beds of very stiff dark grey and black tuffaceous silty clay/clayey silt, with some to frequent pockets/lenses (<35mm x 50mm) of light greyish brown and brown silty fine sand, some to frequent burrows (<4mm x 25mm) infilled with light grey clayey silt, and occasional lignite fragments (<5mm x 30mm x 100mm) partially replaced by pyrite. Micaceous. Sand is mainly fine. Fissures are randomly orientated, planar, smooth, polished, possibly very tight. Harwich Formation, Wrabness Member, Unit A. [HARWICH FORMATION, WRABNESS MEMBER] 45.08m to 45.26m; recovered as angular medium strong and strong dark grey limestone fragments (<50mm x 80mm x 90mm) with frequent possibly soft and firm dark greyish brown silty clay (assumed drilling fragmented and disturbed). At 46.18m; with 1 No. lignite fragment (5mm x 30mm x 100mm) partially replaced by pyrite. At 46.38m; with 1 No. lignite fragment (4mm x 20mm x 95mm) partially replaced by pyrite. 46.38m to 46.50m; indistinctly mottled dark greyish green (slightly glauconitic). 46.50m to 47.00m; slightly gravelly. Gravel is fine.	(2.30)		
46.50 - 47.00	B	13						47				
46.50 - 48.00				100	N/A	N/A			Recovered as soft and firm dark greyish brown silty CLAY. Harwich Formation, Wrabness Member, Unit A. [HARWICH FORMATION, WRABNESS MEMBER] 47.32m to 47.34m; indistinct thick lamina of possibly soft and firm dark grey and black tuffaceous silty clay. 47.82m to 47.85m; indistinct very thin bed of possibly soft and firm dark grey and black tuffaceous silty clay.	47.30 (0.70)	-57.34	
48.35 - 48.43	D	2						48	Stiff and possibly very stiff indistinctly fissured dark greyish brown slightly sandy CLAY with very closely to medium spaced very thin and thin beds of very stiff dark grey and black tuffaceous silty clay/clayey silt, rarely extremely weak claystone/siltstone, with frequent burrows (<3mm x 20mm) infilled with light grey and grey clayey silt, and some to frequent pockets/lenses (<15mm x 20mm) of light greyish brown and brown silty fine sand. Micaceous. Sand is mainly fine. Harwich Formation, Wrabness Member, Unit A. [HARWICH FORMATION, WRABNESS MEMBER] 48.00m to 48.09m; with 1 No. angular and subangular medium strong and strong dark grey limestone fragment (65mm x 80mm x 90mm) (possibly drilling fragmented).	48.00	-58.04	
48.00 - 49.50				97	N/A	N/A		49		(1.27)		
									Firm and stiff dark greenish grey and dark greyish brown becoming dark greyish brown and dark brown slightly sandy and sandy silty CLAY with abundant pockets/lenses (<15mm x 25mm) of light greyish brown and brown silty fine sand/sandy silt, and rare to occasional burrows (<1mm x 10mm) infilled with light grey and white silt. Micaceous. Sand is mainly fine. Possible Harwich Formation, Orwell Member, Unit C. [HARWICH FORMATION, ORWELL MEMBER] 49.27m to 49.45m; dark greenish grey and dark greyish	49.27 (0.53)	-59.31	
										49.80	-59.84	

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

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Client	NNB Generation Company (SZC) Limited			**IT1_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648669.49 N263725.52	Ground Elevation (m Datum)	-10.04	Sheet 11 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									brown (slightly glauconitic).			
49.50 - 51.00				83	N/A	N/A			Very stiff indistinctly fissured slightly sandy silty CLAY with possibly very closely and closely spaced indistinct thin laminae of light greyish brown and light brown silty fine sand/sandy silt, with frequent to abundant burrows (<4mm x 35mm) infilled with dark greenish grey and grey clay/silt, and rare to occasional pockets/lenses (<5mm x 20mm) of light greyish brown and light brown silty fine sand/sandy silt. Micaceous. Sand is mainly fine. Fissures are randomly orientated, planar, smooth, rarely polished, possibly very tight. Possible Harwich Formation, Orwell Member, Unit C. [HARWICH FORMATION, ORWELL MEMBER]	(0.95)		
									50.31m to 50.34m; very thin bed of very stiff dark grey and black tuffaceous silty clay/clayey silt.	50.75	-60.79	
51.00 - 51.10	D	3						51	Stiff grey clay (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.25)		
51.00 - 52.50				100	N/A	N/A			Very stiff indistinctly fissured slightly sandy CLAY with possibly very closely and closely spaced indistinct thin laminae of light greyish brown and light brown silty fine sand/sandy silt, with frequent to abundant burrows (<3mm x 25mm) infilled with dark greenish grey and grey clay/silt, and rare to occasional pockets/lenses (<5mm x 20mm) of light greyish brown and light brown silty fine sand and fine sandy silt. Slightly micaceous. Sand is mainly fine. Fissures are randomly orientated, planar, smooth, rarely polished, possibly very tight. Possible Harwich Formation, Orwell Member, Unit C. [HARWICH FORMATION, ORWELL MEMBER]	(1.50)		
								52	51.48m to 51.52m; very thin bed of extremely weak dark grey and black tuffaceous claystone/siltstone.	52.50	-62.54	
52.50 - 54.00				100	N/A	N/A			Recovered as soft and firm dark greyish brown, brown and dark brown sandy and very sandy silty CLAY with frequent to abundant burrows (<7mm x 50mm) infilled with dark greenish brown and dark grey silty fine sand/ sandy silt. Sand is mainly fine and medium. Possible Harwich Formation, Orwell Member, Unit A. [HARWICH FORMATION, ORWELL MEMBER]	(0.90)		
								53	Firm and stiff light greenish grey, light brownish grey and light brown clayey SILT with possibly extremely closely to closely spaced indistinct thin laminae of light brown silt, with frequent subrounded and rounded light brown highly calcareous concretions/nodules (<20mm x 20mm). Highly calcareous. Undifferentiated Mottled Beds (Reading Formation). [READING FORMATION]	53.40	-63.44	
54.00 - 55.50				93	N/A	N/A			Very stiff microfissured, locally fissured, light brownish grey, light brown and dark brown mottled/gleyed light bluish grey silty CLAY, locally with extremely closely and very closely spaced thin laminae of light brown and light grey highly calcareous silt, with frequent to locally abundant mainly subrounded and rounded highly calcareous concretions/nodules (<20mm x 30mm). Calcareous and highly calcareous, locally slightly calcareous. Microfissures are possibly extremely closely spaced, randomly orientated, planar, smooth, polished, very tight and tight, occasionally with light bluish grey staining/gleying. Fissures are mainly very closely and closely spaced, mainly inclined (30-60 degrees), planar, smooth, polished, striated (possibly sheared), very tight. Undifferentiated Mottled Beds	(0.44)		
								54		53.84	-63.88	

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648669.49 N263725.52	Ground Elevation (m Datum)	-10.04	Sheet 12 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									(Reading Formation). [READING FORMATION] 54.00m to 54.21m; fissured. 54.21m to 54.50m; with extremely closely and very closely spaced thin laminae of highly calcareous silt. 54.50m to 55.00m; fissured. 55.00m to 55.15m; with abundant irregular highly calcareous concretions/nodules (<35mm x 50mm). 55.30m to 55.40m; with extremely closely and very closely spaced thin laminae of highly calcareous silt. 55.40m to 55.50m; assumed zone of core loss. 55.50m to 56.30m; with abundant light bluish grey staining/mottling/gleying (possibly penetrative staining of indistinct subvertical fissures).	(3.16)		
55.50 - 57.00				100	N/A	N/A		56	56.30m to 56.52m; with extremely closely and very closely spaced thin laminae of highly calcareous silt. 56.70m to 56.93m; dark brownish grey and greyish black. 56.70m to 57.00m; slightly calcareous. 56.93mm to 57.00m; dark brown mottled dark grey.			
								57	Firm and stiff dark yellowish brown mottled dark bluish grey, locally dark brown and brown SILT, locally slightly sandy silt. Slightly calcareous and calcareous. Sand is fine. Undifferentiated Mottled Beds (Reading Formation), Channel Sands. [READING FORMATION]	57.00	-67.04	
57.00 - 58.50				100	N/A	N/A			57.63mm to 58.50m; dark brown and brown, slightly sandy.			
								58		(2.50)		
								59				
58.50 - 60.00				100	N/A	N/A						
									Firm and stiff dark brown, dark yellowish brown and light grey mottled light bluish grey clayey SILT with possibly extremely closely to closely spaced indistinct thin laminae of light grey and white highly calcareous silt. Slightly calcareous and calcareous. Undifferentiated Mottled Beds (Reading Formation). [READING FORMATION]	59.50 (0.50)	-69.54	
									End of Borehole at 60.00 m	60.00	-70.04	

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SB_03**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E649444.56 N263569.09	Ground Elevation (m Datum)	-7.64	Sheet 1 of 1
Hole Type	Sonic Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	55.00	SD	30/05/2019	01/06/2019	LS600 : Excalibur	Sonic	118mm	TM/LM	GDF/JB/RL	

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
30/05/2019	06:00:00	0.00	0.00	
30/05/2019	11:45:00	6.00	5.70	
30/05/2019	12:00:00	6.00	5.70	
30/05/2019	23:45:00	21.00	21.00	
31/05/2019	00:00:00	21.00	21.00	
31/05/2019	11:45:00	33.00	33.00	
31/05/2019	12:00:00	33.00	33.00	
31/05/2019	23:45:00	47.00	47.00	
01/06/2019	00:00:00	47.00	47.00	
01/06/2019	10:00:00	55.00	55.00	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
55.50	118	7.00	250
		55.00	150

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
0.00	1.00	100
1.00	2.00	100
2.00	3.00	100
3.00	4.00	100
4.00	5.00	100
5.00	6.00	100
6.00	7.00	100
7.00	8.00	100
8.00	9.00	100
9.00	10.00	100
10.00	11.00	100
11.00	12.00	100
12.00	13.00	100
13.00	14.00	100
14.00	15.00	100
15.00	16.00	100
16.00	17.00	100
17.00	18.00	100
18.00	19.00	100
19.00	20.00	100
20.00	21.00	100
21.00	22.00	100
22.00	23.00	100
23.00	24.00	100
24.00	25.00	100
25.00	26.00	100
26.00	27.00	100
27.00	28.00	100
28.00	29.00	100
29.00	30.00	100
30.00	31.00	100
31.00	32.00	100
32.00	33.00	100
33.00	34.00	100
34.00	35.00	100
35.00	36.00	100
36.00	37.00	100
37.00	38.00	100
38.00	39.00	100
39.00	40.00	100
40.00	41.00	100
41.00	42.00	100
42.00	43.00	100
43.00	44.00	100
44.00	45.00	100
45.00	46.00	100
46.00	47.00	100
47.00	48.00	100
48.00	49.00	100
49.00	50.00	100
50.00	51.00	100
51.00	52.00	100
52.00	53.00	100
53.00	54.00	100
54.00	55.00	100

General Remarks

1. Deck to mud was 17.20m; deck level was 9.56m above OD. 2. 6.72m - 7.00m; core slipped and picked up from next run. 3. 17.00m - 17.53m; core slipped and picked up from previous run.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	CAY	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 27/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649444.56 N263569.09	Ground Elevation (m Datum)	-7.64	Sheet 1 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 1.00				80	N/A	N/A			Light grey and dark grey (oxidising to light brown) SAND with rare to occasional pockets (<30mm x 30mm) of black silty fine sand and slightly sandy silt. Calcareous to highly calcareous. Sand is fine and medium. Organic odour. [MARINE DEPOSITS, BANK DEPOSITS]	(0.80)		
									0.60m to 0.80m; with extremely closely and very closely spaced thick laminae of light grey, brown and black fine and medium sand.			
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	0.80 (0.20)	-8.44	
								1		1.00	-8.64	
1.00 - 2.00				100	N/A	N/A			Light grey and dark grey (oxidising to light brown) silty SAND with rare to occasional pockets (<30mm x 80mm) of black and brown silty sand and slightly sandy silt, locally with shells and shell fragments. Calcareous to highly calcareous. Sand is mainly fine and medium. Organic odour. [MARINE DEPOSITS, BANK DEPOSITS]			
									1.70m to 2.00m; with rare shell fragments (<5mm x 10mm x 30mm).			
								2				
2.00 - 3.00				100	N/A	N/A			At 2.50m; with 1 No. bivalve shell (10mm x 33mm x 45mm).			
3.00 - 4.00	B	2						3				
3.00 - 4.00				100	N/A	N/A				(5.50)		
								4				
4.00 - 5.00				90	N/A	N/A			4.60m to 4.90m; with extremely closely and very closely spaced thin and thick laminae of black sandy silt.			
									4.90m to 5.00m; assumed zone of core loss.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649444.56 N263569.09	Ground Elevation (m Datum)	-7.64	Sheet 2 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
5.00 - 6.00				100	N/A	N/A		6	5.30m to 6.35m; with extremely closely to closely spaced thin and thick laminae of orangish brown silty sand with occasional angular and subangular iron concretion fragments (<5mm x 5mm x 5mm). 5.50m to 5.85m; with extremely closely and very closely spaced thin and thick laminae of light grey and brown fine and medium sand and black sandy silt.			
6.00 - 7.00				78	N/A	N/A			Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	6.50 (0.22)	-14.14	
								7	Light brownish grey and dark brownish grey (oxidising to orangish brown) SAND with rare pockets (<10mm x 20mm) of black sandy silt with frequent shell fragments (<1mm x 10mm). Slightly Calcareous. Sand is fine to coarse. Slightly organic odour. Possibly reworked Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	6.72 (0.53)	-14.36	
7.00 - 8.00				100	N/A	N/A			Orangish brown, locally brownish grey, SAND with abundant becoming frequent shell fragments (<1mm x 20mm x 30mm). Slightly Calcareous. Sand is fine to coarse. [RED CRAG FORMATION (UNDIFFERENTIATED)] At 7.50m; with 1 No. iron concretion fragment (5mm x 5mm x 10mm). At 7.55m; with 1 No. gastropod shell (Neptunea contraria) (20mm x 20mm x 35mm).	7.25	-14.89	
8.00 - 9.00				100	N/A	N/A		8	8.50m to 8.60m; brownish grey. At 8.80m; with 1 No. subrounded possible iron concretion fragment (10mm x 20mm x 30mm). 8.90m to 9.50m; with frequent shell fragments.	(2.25)		
9.00 - 10.00				100	N/A	N/A		9	At 9.20m; with 1 No. bivalve shell (5mm x 30mm x 30mm).			
									Orangish brown becoming brownish grey SAND with occasional to frequent shell fragments (<1mm x 10mm x 10mm). Slightly Calcareous. Sand is fine to coarse. [RED CRAG FORMATION (UNDIFFERENTIATED)]	9.50	-17.14	
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649444.56 N263569.09	Ground Elevation (m Datum)	-7.64	Sheet 3 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
10.00 - 11.00				100	N/A	N/A				(1.30)		
									10.60m to 10.80m; brownish grey, with 5 No. subangular and subrounded iron concretions and iron concretion fragments (<10mm x 20mm x 30mm).			
										10.80	-18.44	
11.00 - 11.40	D	4						11	Greenish grey, locally mottled dark grey and black, SAND, locally slightly silty and silty sand, with some to abundant shell fragments (<5mm x 10mm x 10mm). Calcareous. Sand is fine to coarse. Locally with slight organic odour. [RED CRAG FORMATION (UNDIFFERENTIATED)]			
									At 10.82m; thick lamina of firm grey silt. 10.84m to 10.87m; with 1 No. subangular possibly very strong siltstone fragment (30mm x 60mm x 100mm).			
11.00 - 12.00				100	N/A	N/A						
									At 11.55m; with 1 No. possible siltstone fragment (30mm x 40mm x 40mm).			
12.00 - 13.00	B	3						12	12.00m to 12.80m; silty sand with some shell fragments (<20mm).			
12.00 - 13.00				100	N/A	N/A						
									12.80m to 13.00m; slightly silty. At 12.86m; thick lamina of firm brown silt.			
13.00 - 16.00	B	14						13				
										(5.20)		
13.00 - 14.00				100	N/A	N/A						
								14	14.00m to 14.15m; mottled dark grey and black, slightly silty. Slight organic odour.			
									14.30m to 14.45m; mottled dark grey and black, slightly silty. Slight organic odour.			
14.00 - 15.00				100	N/A	N/A						
									Continued next page			

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649444.56 N263569.09	Ground Elevation (m Datum)	-7.64	Sheet 4 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
15.00 - 16.00				100	N/A	N/A			15.00m to 15.15m; mottled dark grey and black, slightly silty. Slight organic odour.			
								16	Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	16.00	-23.64	
16.00 - 17.00				50	N/A	N/A				(0.50)		
									Greenish grey becoming dark grey slightly gravelly silty SAND with frequent to abundant shell fragments (<5mm x 30mm x 30mm). Calcareous. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse of flint and siltstone. [RED CRAG FORMATION (UNDIFFERENTIATED)]	16.50	-24.14	
17.00 - 18.00	B	5						17				
17.00 - 18.00				100	N/A	N/A						
18.00 - 19.00	B	6						18		(3.31)		
18.00 - 19.00				100	N/A	N/A						
								19				
19.00 - 20.00				100	N/A	N/A			19.50m to 19.81m; dark grey.			
									Light grey slightly cemented silty SAND, recovered with occasional to frequent angular and subangular	19.81	-27.45	
20.00 - 21.00	B	7										

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649444.56 N263569.09	Ground Elevation (m Datum)	-7.64	Sheet 5 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
20.20 - 20.30	D	14							calcarenite fragments (<45mm x 70mm x 90mm), with rare shell fragments (<1mm x 5mm x 5mm). Calcareous. Sand is mainly medium and coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]			
20.00 - 21.00				100	N/A	N/A						
20.70 - 20.75	D	15										
										(2.19)		
21.00 - 21.45	D	8						21				
21.45 - 22.00	B	9										
21.00 - 22.00				100	N/A	N/A						
								22	Light brown slightly gravelly slightly clayey becoming clayey SAND with frequent pockets (<30mm x 40mm x 40mm) of firm grey clay. Sand is fine and medium. Gravel is subrounded and subangular fine and medium of dark reddish brown and black flint. Possibly reworked Coralline Crag Formation/London Clay Formation. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	22.00	-29.64	
										(0.26)		
									Stiff and very stiff fissured brownish grey slightly gravelly CLAY. Gravel is subrounded fine and medium of dark reddish brown flint. Fissures are extremely closely spaced, randomly orientated, planar, polished, very tight. Possible London Clay Formation [LONDON CLAY FORMATION]	22.26	-29.90	
										(0.14)		
22.00 - 23.00				100	N/A	N/A				22.40	-30.04	
								23	Very stiff fissured dark brown silty CLAY with occasional becoming rare tubular foraminifera (<1mm x 3mm) and occasional burrows (<2mm x 5mm) infilled with light brown silt. Micaceous. Fissures are extremely closely to closely spaced, randomly orientated, planar, smooth and polished, very tight becoming tight, with some brown staining. Possible London Clay Formation, Walton Member. [LONDON CLAY FORMATION, WALTON MEMBER]			
23.00 - 24.00				100	N/A	N/A						
								24	At 23.88m; with 1 No. marcasite nodule (20mm x 20mm x 50mm) (possible infilled burrow). 24.00m to 26.30m; with rare tubular foraminifera. Fissures are tight, with brown staining.			
										(3.90)		
24.00 - 25.00				100	N/A	N/A						
									Continued next page			

Notes

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649444.56 N263569.09	Ground Elevation (m Datum)	-7.64	Sheet 6 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
25.00 - 26.00				100	N/A	N/A		26				
26.00 - 27.00				100	N/A	N/A		27	Very stiff fissured dark brownish grey CLAY with rare to locally frequent tubular foraminifera (<1mm x 3mm) and occasional burrows (<2mm x 5mm) infilled with light brown silt. Micaceous. Fissures are closely and medium spaced, locally extremely closely spaced, randomly orientated, planar and undulating, smooth, polished, locally striated, very tight and tight, with some brown staining. Possible London Clay Formation, Walton Member. [LONDON CLAY FORMATION, WALTON MEMBER]	26.30	-33.94	
27.00 - 28.00				100	N/A	N/A		28	27.20m to 27.24m; with 1 No. pocket (20mm x 40mm) of fine sand sized marcasite (possible infilled burrow). 27.66m to 27.70m; with 1 No. pocket (20mm x 40mm) of fine sand sized marcasite (possible infilled burrow). 27.80m to 28.70m; fissures are mainly extremely closely spaced.			
28.00 - 29.00				100	N/A	N/A		29	28.50m to 28.57m; with 2 No. pockets (<20mm x 40mm) of fine sand sized marcasite (possible infilled burrow). 28.60m to 28.70m; with frequent tubular foraminifera.			
29.00 - 30.00				100	N/A	N/A			At 29.30m; with 1 No. pyritised wood fragment (10mm x 30mm x 50mm). 29.61m to 29.65m; with 1 No. pocket (10mm x 40mm) of fine sand sized marcasite (possible infilled burrow). 29.85m to 29.89m; with 1 No. fissure inclined (40 degrees), polished and striated.			
									Continued next page			

Notes

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Client	NNB Generation Company (SZC) Limited			**IT1_SB_03**	
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Coordinates (m)	E649444.56 N263569.09	Ground Elevation (m Datum)	-7.64	Sheet 7 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
										(7.82)		
30.00 - 31.00				100	N/A	N/A			30.66m to 30.74m; with 2 No. pockets (<10mm x 60mm) of fine sand sized marcasite (possible infilled burrow). 30.80m to 30.84m; with 1 No. fissure inclined (40 degrees), polished and striated.			
								31	30.95m to 30.99m; with 1 No. fissure inclined (40 degrees), polished and striated.			
31.00 - 32.00				100	N/A	N/A			At 31.75m; with 1 No. pocket (10mm x 30mm) of fine sand sized marcasite (possible infilled burrow). 31.80m to 31.83m; with occasional black lignite fragments (<10mm x 10mm).			
32.00 - 32.40	B	10						32	At 31.22m; with 1 No. lamina of light brown silt. At 31.25m; with 1 No. lamina of light brown silt.			
32.40 - 32.70	D	11										
32.00 - 33.00				100	N/A	N/A						
								33	33.00m to 33.10m; with frequent fine sand sized disemminated pryite (<1mm x 1mm).			
33.00 - 34.00				100	N/A	N/A			33.85m to 34.00m; fissures are extremely closely spaced with frequent brown staining.			
								34				
									Stiff and very stiff dark brown silty CLAY with occasional to locally frequent tubular foraminifera (<1mm x 3mm) and occasional to locally frequent pockets/burrows (<5mm x 10mm) infilled with light brown silt. Micaceous. Possible London Clay Formation, Walton Member. [LONDON CLAY FORMATION, WALTON MEMBER]	34.12	-41.76	
34.00 - 35.00				100	N/A	N/A			At 34.40m; with 1 No. subhorizontal fissure, planar, smooth, very tight. At 34.44m; with frequent pockets (<2mm x 5mm) of light brown silt. 34.50m to 34.70m; with frequent pockets (<1mm x 5mm) of light brown silt and frequent tubular foraminifera.	(1.03)		

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649444.56 N263569.09	Ground Elevation (m Datum)	-7.64	Sheet 8 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
35.00 - 36.00				100	N/A	N/A			34.70m to 34.85m; with 1 No. subvertical fissure, undulating, smooth, polished, very tight. At 34.98m; with 1 No. inclined (20 degrees) fissure, planar, polished, very tight. 35.00m to 35.07m; with abundant pockets (<60mm x 60mm) of light brown silty fine sand. 35.07m to 35.10m; with 1 No. pocket (30mm x 40mm) of black lignite fragments (<5mm x 5mm). 35.07m to 35.15m; with frequent burrows (<5mm x 10mm) infilled with light grey silt.	35.15 (0.60)	-42.79	
									Stiff dark grey becoming dark greenish brown silty CLAY with occasional pockets/lenses (<5mm x 10mm) of light brown silty fine sand/silt. Micaceous. [HARWICH FORMATION, WRABNESS MEMBER] 35.20m to 35.45m; with 2 No. very closely spaced subvertical fissures, planar, smooth, polished, very tight. 35.30m to 35.75m; dark greenish brown (glauconitic), with rare brown staining.	35.75	-43.39	
36.00 - 37.00				100	N/A	N/A		36	Stiff and very stiff dark brown silty CLAY with occasional pockets/lenses (<5mm x 10mm) of light brown fine sandy silt/silty fine sand. Micaceous. [HARWICH FORMATION, WRABNESS MEMBER] 36.00m to 36.10m; with abundant pockets (<60mm x 60mm) of light brown very sandy clay. Sand is fine. At 36.83m; with 1 No. pyrite nodule (10mm x 10mm x 30mm).	(2.90)		
37.00 - 38.00				100	N/A	N/A		37				
38.00 - 39.00				100	N/A	N/A		38				
									Stiff and very stiff, locally fissured, dark brown and dark grey, locally black, slightly sandy CLAY with medium spaced thin beds of dark grey and black tuffaceous silty clay, with rare pockets/lenses (<5mm x 20mm, locally <20mm x 50mm) of light brown and dark brown fine sandy silt. Micaceous. Sand is fine. [HARWICH FORMATION, WRABNESS MEMBER] 38.80m to 39.00m; indistinctly fissured. Fissures are possibly extremely closely spaced, randomly orientated, planar and undulating, polished, very tight.	38.65	-46.29	
39.00 - 40.00				100	N/A	N/A		39				
									Continued next page			

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Client	NNB Generation Company (SZC) Limited			**IT1_SB_03**	
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Coordinates (m)	E649444.56 N263569.09	Ground Elevation (m Datum)	-7.64	Sheet 9 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
40.00 - 41.00				100	N/A	N/A						
								41	40.77m to 41.15m; fissured. Fissures are extremely closely and very closely spaced, inclined (70-90 degrees), planar and undulating, smooth, polished, tight, with brown staining.			
41.00 - 42.00				100	N/A	N/A			41.22m to 41.38m; fissured. Fissures are extremely closely spaced, inclined (70-90 degrees), planar, polished, tight, with brown staining.			
									41.61m to 42.00m; fissured. Fissures are extremely closely to closely spaced, inclined (70-90 degrees), planar, polished, tight, with brown staining.			
								42	At 42.06m; with 1 No. thin lamina of light brown silt.	(7.13)		
42.00 - 43.00				100	N/A	N/A			42.35m to 42.37m; with 1 No. pocket (20mm x 50mm) of brown fine sandy silt.			
									42.60m to 43.10m; fissured. Fissures are extremely closely and very closely spaced, inclined (70-90 degrees), planar, smooth, polished, tight, with brown staining.			
								43	At 43.24m; with rare shell fragments (<1mm x 2mm) (possible bivalves).			
43.00 - 44.00				100	N/A	N/A						
								44				
44.00 - 45.00				100	N/A	N/A			44.67m to 44.75; dark grey, with abundant burrows (<1mm x 2mm) infilled with light brown and light grey silt.			
45.00 - 45.30	C	1										

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649444.56 N263569.09	Ground Elevation (m Datum)	-7.64	Sheet 10 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									45.00m to 45.30m; with rare gravel.			
45.00 - 46.00				100	N/A	N/A						
										45.78	-53.42	
									Stiff, locally fissured, dark brown, locally dark green (glauconitic), SILT with closely and medium spaced very thin and thin beds, locally indistinct laminae, of light brown silt, with rare pockets/lenses (<5mm x 40mm) of light brown and dark brown silt. Micaceous. [HARWICH FORMATION, WRABNESS MEMBER]			
46.00 - 46.20	D	12						46				
46.20 - 46.50	D	13										
									46.40m to 47.00m; fissured. Fissures are extremely closely to closely spaced, inclined (45-90 degrees, mainly 70-90 degrees), planar, smooth, polished, very tight and tight, with some brown staining.			
46.00 - 47.00				100	N/A	N/A						
46.94 - 47.00	D	16						47				
										(2.95)		
									47.32m to 47.35m; with 1 No. pocket (30mm x 70mm x 70mm) of light brown fine sandy silt.			
47.00 - 48.00				100	N/A	N/A			47.55m to 47.65m; dark green (glauconitic).			
								48				
									48.50m to 48.73m; medium bed of possibly very soft brown silt with occasional pockets (<10mm x 10mm x 10mm) of stiff brown clay.			
48.00 - 49.00				100	N/A	N/A				48.73	-56.37	
									Medium strong dark brownish grey argillaceous LIMESTONE. Recovered as non intact core of angular and subangular fragments (<30mm x 70mm x 100mm) with some very soft brown silt. Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	(0.27)		
								49		49.00	-56.64	
									Stiff and very stiff thinly interbedded dark brown, locally dark green (glauconitic), silty CLAY and dark grey and black tuffaceous silty CLAY, with rare to occasional pockets/lenses (<5mm x 40mm) of light brown and dark brown clayey silt, locally with occasional pockets (<5mm x 40mm) of dark green (glauconitic) fine sandy silt. Micaceous. [HARWICH FORMATION, WRABNESS MEMBER]			
49.00 - 50.00				100	N/A	N/A			49.10m to 49.20m; with occasional pockets of dark green (glauconitic) fine sandy silt.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649444.56 N263569.09	Ground Elevation (m Datum)	-7.64	Sheet 11 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
50.00 - 51.00				100	N/A	N/A			50.00m to 50.10m; with occasional pockets of dark green (glauconitic) fine sandy silt. 50.10m to 50.70m; indistinctly fissured. Fissures are extremely closely and very closely spaced, inclined (40-60 degrees), planar.	(3.32)		
								51	50.70m to 50.77m; with occasional pockets of dark green (glauconitic) fine sandy silt.			
51.00 - 52.00				100	N/A	N/A						
								52				
52.00 - 53.00				100	N/A	N/A			Possibly medium strong and strong dark greyish brown argillaceous LIMESTONE. Recovered as non intact core of very stiff light brown silty clay with frequent angular and subangular fragments (<20mm x 30mm x 30mm). Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	52.32 (0.20) 52.52	-59.96 -60.16	
								53	52.35m to 52.40m; strong dark greyish brown argillaceous limestone (<50mm x full core diameter) with occasional inclined (40-90 degrees, mainly subvertical) calcite veins (<5mm).			
53.00 - 54.00				100	N/A	N/A			Stiff and very stiff dark brown, locally dark green (glauconitic), silty CLAY with occasional becoming rare, locally frequent, pockets/lenses (<5mm x 40mm) of light grey and light brown fine sandy silt. Micaceous. [HARWICH FORMATION, ORWELL MEMBER] 53.00m to 53.35m; with frequent pockets/lenses (<5mm x 10mm) of light grey and light brown fine sandy silt. 53.06m to 53.10m; dark green (glauconitic).	(2.48)		
								54	53.90m to 54.20m; with frequent pockets/lenses (<5mm x 10mm) of light grey and light brown fine sandy silt.			
54.00 - 55.00				100	N/A	N/A			54.20m to 55.00m; indistinctly fissured, with rare pockets (<5mm x 5mm) of light brown fine sandy silt. Fissures are extremely closely and very closely spaced, randomly orientated, planar, polished, very tight.			
									End of Borehole at 55.00 m	55.00	-62.64	

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SB_04**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E649999.80 N263456.45	Ground Elevation (m Datum)	-5.89	Sheet 1 of 1
Hole Type	Sonic Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	28.00	SD	17/07/2019	18/07/2019	LS600 : Excalibur	Sonic	118mm	PJ/TM	SDB/JB/ GDF	

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
17/07/2019	18:30:00	0.00	0.00	
17/07/2019	23:45:00	14.50	14.50	
18/07/2019	00:00:00	14.50	14.50	
18/07/2019	09:25:00	28.00	28.00	

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
0.00	1.00	100
1.00	2.50	100
2.50	4.00	100
4.00	5.50	100
5.50	7.00	100
7.00	8.50	100
8.50	10.00	100
10.00	11.50	100
11.50	13.00	100
13.00	14.50	100
14.50	16.00	100
16.00	17.50	100
17.50	19.00	100
19.00	20.50	100
20.50	22.00	100
22.00	23.50	100
23.50	25.00	100
25.00	26.50	100
26.50	28.00	100

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
28.00	118	28.00	150

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

General Remarks

1. Deck to mud was 15.90m; deck level was 10.01m above OD. 2. NNB instructed termination of borehole at 28.00m. 3. Core runs between 13.00m and 14.50m, between 16.00m and 17.50m, and between 17.50m and 19.00m were preserved and sent for testing at Laboratorie CEMETE-EDF-TEGG, as instructed by NNB; only ends of liners were logged (treat descriptions with caution).

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	CAY	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 27/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649999.80 N263456.45	Ground Elevation (m Datum)	-5.89	Sheet 1 of 6	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 1.00				72	N/A	N/A			Grey and dark grey (oxidising to light brown and brown) slightly silty and silty SAND. Slightly calcareous. Sand is mainly fine and medium. Possible Marine Deposits, Bank Deposits/reworked Norwich Crag Formation. [MARINE DEPOSITS, BANK DEPOSITS]	(0.72)		
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	0.72 (0.28)	-6.61	
1.00 - 2.50				95	N/A	N/A		1 2	Grey and dark grey (oxidising to light brown and brown) slightly silty SAND. Slightly calcareous. Sand is mainly fine and medium. Possible Marine Deposits, Bank Deposits/reworked Norwich Crag Formation. [MARINE DEPOSITS, BANK DEPOSITS] 1.10m to 1.30m; with rare pockets/lenses (<10mm x 20mm) of soft dark brown and brown (possible oxidised colour) slightly calcareous clay.	1.00 (1.28)	-6.89	
2.50 - 4.00				97	N/A	N/A		3 4	Grey and dark grey (oxidising to light brown and brown) slightly silty SAND with extremely closely to closely spaced indistinct possibly subhorizontal thin and thick laminae of dark grey and dark brownish grey fine and medium sand. Slightly calcareous. Sand is fine and medium. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)] 2.42m to 2.50m; assumed zone of core loss. At 3.40m; with 1 No. thin lamina of soft dark grey (oxidising to brown) possibly organic clay. At 3.93m; with 1 No. thin lamina of soft dark grey (oxidising to brown) possibly organic clay.	2.28 (2.20)	-8.17	
4.00 - 5.50				85	N/A	N/A			Dark greyish brown (possible oxidised colour) mottled grey and dark grey SAND with some to frequent shell fragments (mainly bivalves) (<1mm x 2mm). Slightly calcareous. Sand is fine and medium. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)] At 4.68m; with 1 No. subangular and subrounded	4.48 (0.42) 4.90	-10.37 -10.79	

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649999.80 N263456.45	Ground Elevation (m Datum)	-5.89	Sheet 2 of 6	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									medium gravel of brown slightly weathered chert.			
									Grey and brownish grey (oxidising to brown), rarely mottled dark greyish black, slightly silty SAND indistinctly (possibly subhorizontal) very thinly interbedded with grey silty mainly fine sand and brownish grey silty mainly medium sand, with frequent to abundant shell fragments (mainly bivalves) (<2mm x 2mm). Slightly calcareous. Sand is fine and medium. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)]	(0.38)		
									4.90m to 4.95m; very thin bed of dark greyish black possibly organic silty mainly fine sand.	5.28	-11.17	
									At 5.15m; with 1 No. pocket/lens (10mm x 30mm) of dark greyish black possibly organic silty mainly fine sand.	(0.22)		
										5.50	-11.39	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.47)		
								6		5.97	-11.86	
6.07 - 6.23	D	1							Grey mottled greyish black and greyish brown (possible oxidised colour) slightly silty SAND with frequent shell fragments (mainly bivalves) (<1mm x 1mm). Slightly calcareous. Sand is mainly fine and medium. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)]			
5.50 - 7.00				85	N/A	N/A			At 5.80m; with 1 No. pocket (45mm x 50mm) of dark greyish black possibly organic slightly fine sandy silty clay.	(0.81)		
6.61 - 6.65	D	2							5.91m to 5.97m; very thin bed of dark grey and brown slightly sandy gravel with frequent bivalve and gastropod shell fragments (<9mm x 15mm) and bryozoan/coral fragments (<4mm x 5mm). Sand is coarse. Gravel is subangular and subrounded mainly fine and medium of brown and dark greyish black chert and flint, with frequent quartz and some possible quartzite/sandstone.	6.78	-12.67	
										(0.22)		
								7		7.00	-12.89	
7.19 - 7.22	D	3							Indistinctly very thinly to medium interbedded dark yellowish brown and dark brown, locally light yellowish grey, silty SAND, locally recovered with some to frequent moderately weak (weakly cemented) dark yellowish brown and dark brown calcareous sandstone/calcarenite fragments (<30mm x 50mm x 70mm), with frequent to abundant shell fragments (<5mm x 5mm), bryozoan (possible Hornea) and coral fragments (<4mm x 4mm). Calcareous. Sand is mainly medium. Possible Coralline Crag Formation. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]			
7.00 - 8.50				75	N/A	N/A			5.97m to 6.15m; recovered with frequent calcareous sandstone/calcarenite fragments.	(1.13)		
								8	6.45m to 6.48m; light yellowish grey.			
									At 6.60m; recovered with some calcareous sandstone/ calcarenite fragments.	8.13	-14.02	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.37)		
									Dark yellowish brown, locally dark brown, silty SAND, recovered with frequent to abundant moderately weak (weakly cemented) dark brown calcareous sandstone/ calcarenite fragments (<30mm x 55mm x 60mm), with medium spaced thin and medium beds of dark brown silty sand, with frequent shell fragments (<5mm x 7mm), bryozoan (possible Hornea) and coral fragments (<3mm x 3mm). Possible Coralline Crag Formation.	8.50	-14.39	
8.80 - 8.92	D	4							[CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]			
								9				
9.11 - 9.31	D	5							7.00m to 7.21m; dark brown, recovered with frequent to abundant calcareous sandstone/calcarenite fragments.	(1.25)		
8.50 - 10.00				83	N/A	N/A			7.68m to 7.76m; dark brown, recovered with frequent to abundant calcareous sandstone/calcarenite fragments.			
									8.00m to 8.13m; recovered with frequent to abundant calcareous sandstone/calcarenite fragments.			
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.			
									Dark yellowish brown, locally dark yellowish grey, silty SAND, locally recovered with frequent to abundant moderately weak (weakly cemented) dark yellowish brown calcareous sandstone/calcarenite fragments (<70mm x 70mm x 80mm), with frequent to abundant shell fragments (mainly bivalves) (<1mm x 10mm x	9.75	-15.64	
										(0.25)		
										10.00	-15.89	

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649999.80 N263456.45	Ground Elevation (m Datum)	-5.89	Sheet 3 of 6	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									10mm). Calcareous. Sand is mainly fine and medium. Possible Coralline Crag Formation. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]			
									8.80m to 8.95m; recovered with frequent to abundant calcareous sandstone/calcarenite fragments. 8.95m to 9.08m; dark yellowish grey. 9.08m to 9.30m; recovered with frequent to abundant calcareous sandstone/calcarenite fragments. At 9.50m; with 1 No. bivalve shell (possible Pecten maximus) (10mm x 40mm x 50mm). 9.50m to 9.75m; recovered with frequent to abundant calcareous sandstone/calcarenite fragments.	(1.17)		
10.00 - 11.50				78	N/A	N/A			Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.			
								11	Dark yellowish brown mottled dark grey silty, locally very silty, SAND, locally recovered as moderately weak (locally indistinctly weakly cemented) dark yellowish brown calcareous sandstone/calcarenite, with some to frequent shell fragments (mainly bivalves) (<3mm x 10mm x 15mm). Calcareous. Sand is fine and medium. Possible Coralline Crag Formation. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	11.17	-17.06	
									10.10m to 10.22m; calcareous sandstone/calcarenite. 10.48m to 10.70m; calcareous sandstone/calcarenite. 10.80m to 11.06m; very silty sand recovered with calcareous sandstone/calcarenite.	(0.33)		
11.50 - 12.10	B	16							Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	11.50	-17.39	
								12	Dark yellowish brown mottled dark grey silty SAND, locally recovered as moderately weak (locally indistinctly weakly cemented) dark yellowish brown calcareous sandstone/calcarenite, with some to locally abundant shell fragments (mainly bivalves) (<3mm x 10mm x 15mm). Calcareous. Sand is mainly fine and medium. Possible Coralline Crag Formation. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]			
12.10 - 12.85	B	15							11.50m to 12.10m; recovered with frequent fine and medium gravel sized fragments. 12.05m to 12.20m; calcareous sandstone/calcarenite. 12.30m to 12.60m; calcareous sandstone/calcarenite. 12.60m to 12.85m; with abundant shell fragments (mainly bivalves) (<2mm x 5mm x 8mm). 12.85m to 13.00m; assumed zone of core loss.			
12.20 - 12.28 11.50 - 13.00	D	6		90	N/A	N/A				(1.50)		
12.49 - 12.53	D	7										
13.00 - 14.50	C							13	SAND (Driller's description). Core run sealed for laboratory testing. At 13.00m; brown mottled dark grey slightly silty medium and coarse sand with occasional shell fragments (<2mm). Calcareous.	13.00	-18.89	
										(1.30)		
13.00 - 14.50				87	N/A	N/A						
								14	At 14.30m; light brown fine to coarse sand recovered with occasional weakly cemented sandstone fragments (<10mm x 20mm x 30mm), with occasional shell fragments (<1mm). Calcareous.	14.30	-20.19	
										(0.20)		
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	14.50	-20.39	
									Dark yellowish brown becoming yellowish grey silty SAND, recovered with occasional to some moderately weak (weakly cemented) dark yellowish brown and yellowish grey calcareous sandstone/calcarenite fragments (<10mm x 30mm x 40mm), with extremely closely spaced indistinct thin laminae of dark yellowish	(0.55)		

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649999.80 N263456.45	Ground Elevation (m Datum)	-5.89	Sheet 4 of 6	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									brown, brown and yellowish grey silty mainly medium and coarse sand, with abundant mainly subhorizontally orientated shell fragments (mainly bivalves) (<1mm x 4mm x 4mm). Calcareous. Sand is mainly medium and coarse. Possible Coralline Crag Formation. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	15.05	-20.94	
14.50 - 16.00				55	N/A	N/A			14.80m to 15.05m; yellowish grey.	(0.28)		
									Grey indistinctly mottled light yellowish grey SAND, recovered with occasional to some moderately weak (weakly cemented) grey and light yellowish grey calcareous sandstone/calcarenite fragments (<20mm x 30mm x 30mm), with extremely closely spaced indistinct thin laminae of grey and light yellowish grey silty mainly medium and coarse sand, with abundant subhorizontally orientated shell fragments (mainly bivalves) (<1mm x 5mm x 5mm). Calcareous. Sand is mainly medium and coarse. Possible Coralline Crag Formation). [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	15.33	-21.22	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.67)		
16.00 - 17.50	C							16	SAND (Driller's description). Core runs sealed for laboratory testing.	16.00	-21.89	
16.00 - 17.50				80	N/A	N/A			At 16.00m; light brownish grey slightly silty medium and coarse sand with frequent shell fragments (<2mm) and rare mica (<5mm). Calcareous.			
								17				
									At 17.20m; greenish grey medium and coarse sand recovered with occasional pockets/fragments (<15mm x 20mm x 30mm) of weakly cemented sand/sandstone, with abundant shell fragments (<5mm). Calcareous. 17.20m to 17.50m; assumed zone of core loss.			
17.50 - 19.00	C								At 17.50m; greenish grey medium and coarse sand recovered with occasional pockets/fragments (<10mm x 15mm x 15mm) of weakly cemented sand/sandstone, with abundant shell fragments (<2mm). Calcareous.	(3.00)		
								18				
17.50 - 19.00				70	N/A	N/A			At 18.55m; greenish grey medium and coarse sand recovered with occasional pockets/fragments (<10mm x 15mm x 15mm) of weakly to strongly cemented sand/ sandstone, with abundant shell fragments (<2mm). Calcareous. 18.55m to 19.00m; assumed zone of core loss.			
19.00 - 19.20	D	17						19	Dark yellowish grey, grey and dark grey, locally weakly cemented/indistinctly weakly cemented, silty SAND, recovered with occasional to abundant moderately weak (weakly cemented) grey calcareous sandstone/ calcarenite fragments (<20mm x 30mm x 30mm), with medium and widely spaced very thin and thin beds of moderately weak (weakly cemented) dark yellowish grey and grey calcareous sandstone/calcarenite, with extremely closely to closely spaced, locally indistinct, inclined (0-15 degrees) thick laminae of dark yellowish grey, grey and dark grey silty medium and coarse sand, with abundant shell fragments (mainly bivalves) (<1mm x 4mm x 5mm), and rare pockets (<25mm x 50mm x 100mm) of firm grey mottled dark grey clayey	19.00	-24.89	
19.20 - 19.50	B	18										
19.50 - 20.35	B	19										
19.00 - 20.50				90	N/A	N/A						
19.77 - 19.81	D	8										

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649999.80 N263456.45	Ground Elevation (m Datum)	-5.89	Sheet 5 of 6	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
20.07 - 20.12	D	9							silt. Calcareous. Sand is mainly medium and coarse. Possible Coralline Crag Formation. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]			
									19.47m to 19.53m; calcareous sandstone/calcarenite.			
									19.77m to 19.83m; calcareous sandstone/calcarenite.			
									20.07m to 20.14m; calcareous sandstone/calcarenite.			
20.50 - 21.82	B	20							20.14m to 20.35m; indistinctly weakly cemented.			
									20.35m to 20.50m; assumed zone of core loss.			
20.80 - 21.82	B	21										
									20.92m to 20.96m; calcareous sandstone/calcarenite.			
								21				
										(4.27)		
20.50 - 22.00				88	N/A	N/A						
									21.82m to 22.00m; assumed zone of core loss.			
								22				
22.50 - 22.60	D	10							22.50m to 22.60m; calcareous sandstone/calcarenite.			
									22.60m to 22.98m; indistinctly weakly cemented.			
22.00 - 23.50				85	N/A	N/A						
22.98 - 23.02	D	11										
								23	22.98m to 23.04m; calcareous sandstone/calcarenite.			
									23.04m to 23.27m; indistinctly weakly cemented.			
										23.27	-29.16	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.23)		
23.50 - 23.80	D	22								23.50	-29.39	
23.50 - 24.85	B	24							Dark yellowish grey and grey, possibly/indistinctly cemented, slightly silty SAND with abundant shell fragments (mainly bivalves) (<1mm x 5mm x 6mm). Calcareous. Sand is mainly medium and coarse. Possible Coralline Crag Formation. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	(0.30)		
23.80 - 24.85	B	23								23.80	-29.69	
								24	Dark yellowish grey and grey, locally weakly cemented/indistinctly weakly cemented, silty SAND, locally recovered with some to abundant moderately weak (weakly cemented) dark yellowish grey calcareous sandstone/calcarenite fragments (<50mm x 50mm x 50mm), with closely to widely spaced indistinct very thin to medium beds of moderately weak (weakly cemented) dark yellowish grey and grey calcareous sandstone/calcarenite, with abundant shell fragments (mainly bivalves) (<1mm x 10mm x 10mm). Calcareous. Sand is mainly medium and coarse. Possible Coralline Crag Formation, Ramsholt Member. [CORALLINE CRAG FORMATION, RAMSHOLT MEMBER]			
24.14 - 24.20	D	13										
23.50 - 25.00				90	N/A	N/A						
24.30 - 24.35	D	14										
24.58 - 24.64	D	12								(1.68)		
									24.02m to 24.05m; calcareous sandstone/calcarenite.			

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649999.80 N263456.45	Ground Elevation (m Datum)	-5.89	Sheet 6 of 6	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									24.05m to 24.14m; recovered with calcareous sandstone/ calcarenite fragments. 24.14m to 24.42m; calcareous sandstone/calcarenite. 24.42m to 24.58m; recovered with calcareous sandstone/ calcarenite fragments. 24.58m to 24.64m; calcareous sandstone/calcarenite. 24.64m to 24.80m; recovered with calcareous sandstone/ calcarenite fragments. 24.80m to 24.85m; calcareous sandstone/calcarenite. 24.85m to 25.00m; assumed zone of core loss. 25.10m to 25.30m; with very closely spaced laminae of grey very silty mainly medium sand. 25.20m to 25.48m; indistinctly weakly cemented.	25.48	-31.37	
25.00 - 26.50				100	N/A	N/A			Weak and moderately weak (weakly cemented) dark grey and grey silty medium and coarse grained CALCAREOUS SANDSTONE/CALCARENITE. Possible Coralline Crag Formation, Ramsholt Member, Boxstone Bed. [CORALLINE CRAG FORMATION, RAMSHOLT MEMBER]	(0.24)		
								26		25.72	-31.61	
									25.48m to 25.54m; recovered as indistinctly weakly cemented slightly gravelly silty medium and coarse sand. Gravel is subrounded and rounded mainly medium of dark brown grey and dark grey possibly phosphatic coated pebbles of slightly weathered possibly argillaceous dark reddish brown limestone.	(0.28)		
										26.00	-31.89	
									Grey, dark greyish brown and brown slightly gravelly silty SAND with some to frequent irregular pockets/ fragments (<60mm x 60mm x 75mm) of soft and firm dark greyish brown and brown, locally greyish green (possibly glauconitic), clay. Calcareous. Sand is mainly fine and medium. Gravel is subrounded and rounded medium and coarse of dark brownish grey and dark grey possibly phosphatic coated pebbles of slightly weathered possibly argillaceous dark reddish brown limestone. Possible Coralline Crag Formation, Ramsholt Member, Boxstone Bed. [CORALLINE CRAG FORMATION, RAMSHOLT MEMBER]	(0.38)		
								27		26.38	-32.27	
26.50 - 28.00				100	N/A	N/A			At 26.00m; irregular boundary	(1.62)		
									Stiff and very stiff dark grey, indistinctly fissured, silty CLAY with frequent burrows (<1mm x 10mm) infilled with grey and greenish grey silty clay, occasional tubular agglutinated foraminifera (<2mm), locally with rare pyrite concretions/nodules (<10mm x 15mm x 25mm). Fissures are extremely closely and very closely spaced, inclined (0-75 degrees), planar, smooth, polished, possibly very tight. Probably reworked London Clay Formation, Walton Member. [LONDON CLAY FORMATION, WALTON MEMBER]			
								28	26.00m to 26.18m; with 1 No. subvertical burrow (15mm x 180mm) infilled with soft and firm grey fine and medium sandy silt. At 26.18m; with 1 No. pocket (30mm x 40mm x 50mm) of soft and firm grey fine and medium sandy silt and 1 No. pocket (10mm) of firm brownish grey silty clay. 26.28m to 26.31m; with 1 No. inclined (75 degrees) fissure.	28.00	-33.89	
									Stiff and very stiff brown mottled dark brown and black, locally dark grey, fissured silty CLAY with frequent burrows (<2mm x 10mm) infilled with grey and greenish grey silty clay, and occasional tubular agglutinated foraminifera (<2mm). Fissures are extremely closely and very closely spaced, inclined (0-60 degrees), planar, smooth, polished, tight, with dark brown and black staining. [LONDON CLAY FORMATION, WALTON MEMBER]			
								29	At 26.48m; with 2 No. pyrite concretions/nodules (<10mm x 15mm x 25mm). 26.70m to 26.85m; thin bed of dark brownish grey mottled black clayey silt with intense dendritic microburrows (<1mm) infilled with light brown possible silt. 26.87m to 26.91m; dark grey. At 26.95m; with abundant fragments (<15mm x 20mm x 20mm) (possibly drilling fragmented) of pyrite concretions/nodules. At 27.80m; with 1 No. elongated pyrite concretion (10mm x 15mm x 65mm).			
									End of Borehole at 28.00 m			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SB_05**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650526.80 N263349.48	Ground Elevation (m Datum)	-13.61	Sheet 1 of 1
Hole Type	Sonic Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	54.50	SD	15/07/2019	16/07/2019	LS600: Excalibur	Sonic	118mm	TM/PJ	PC/MH/ GDF	

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
15/07/2019	05:05:00	0.00	0.00	
15/07/2019	11:45:00	12.50	12.50	
15/07/2019	12:00:00	12.50	12.50	
15/07/2019	23:45:00	41.00	41.00	
16/07/2019	00:00:00	41.00	41.00	
16/07/2019	11:45:00	48.50	48.50	
16/07/2019	12:00:00	48.50	48.50	
16/07/2019	15:15:00	54.50	54.50	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
54.50	118	54.50	150

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
0.00	0.50	100
0.50	2.00	100
2.00	3.50	100
3.50	5.00	100
5.00	6.50	100
6.50	8.00	100
8.00	9.50	100
9.50	11.00	100
11.00	12.50	100
12.50	14.00	100
14.00	15.50	100
15.50	17.00	100
17.00	18.50	100
18.50	20.00	100
20.00	21.50	100
21.50	23.00	100
23.00	24.50	100
24.50	26.00	100
26.00	27.50	100
27.50	29.00	100
29.00	30.50	100
30.50	32.00	100
32.00	33.50	100
33.50	35.00	100
35.00	36.50	100
36.50	38.00	100
38.00	39.50	100
39.50	41.00	100
41.00	42.50	100
42.50	44.00	100
44.00	45.50	100
45.50	47.00	100
47.00	48.50	100
48.50	50.00	100
50.00	51.50	100
51.50	53.00	100
53.00	54.50	100

General Remarks

1. Deck to mud was 24.10m; deck level was 10.49m above OD. 2. Driller noted core retrieval failed for run 47.50m-48.50m; redrilled for recovery. 3. Between 43.95m and 44.00m, and between 46.86m and 46.95m; core slipped and picked up from next run. 4. NNB instructed termination of borehole at 54.50m.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	CAY	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 27/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650526.80 N263349.48	Ground Elevation (m Datum)	-13.61	Sheet 1 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 0.15	ES	1							Brown slight gravelly SAND with frequent shell fragments (<1mm x 3mm x 3mm), and occasional subangular well cemented yellowish brown calcrete fragments (<20mm). Sand is fine to coarse. Gravel is subangular and subrounded of mudstone, siltstone, sandstone and flint. Possible Coralline Crag Formation (Undifferentiated) [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	(0.15)		
										0.15	-13.76	
0.00 - 0.50				58	N/A	N/A				(0.14)		
										0.29	-13.90	
										(0.21)		
										0.50	-14.11	
										(0.12)		
										0.62	-14.23	
								1	Dark yellowish brown and dark yellowish grey mottled brown slightly silty SAND, recovered with rare to occasional weak and moderately weak dark yellowish brown and dark yellowish grey weakly cemented and cemented calcareous sandstone/calcarenite fragments (<5mm x 5mm x 10mm), with some to frequent shell fragments (<2mm). Slightly calcareous. Sand is fine and medium. Possibly reworked Coralline Crag Formation. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]			
0.50 - 2.00				75	N/A	N/A				(1.01)		
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.			
									Dark yellowish brown and dark yellowish grey mottled brown slightly gravelly slightly silty SAND. Sand is fine and medium. Gravel is subrounded and rounded mainly medium of dark yellowish brown and dark grey chert and flint. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	1.63	-15.24	
										(0.37)		
								2	Dark yellowish brown and dark brown, locally cemented, silty SAND, recovered with abundant moderately weak (cemented) dark yellowish brown calcareous sandstone/calcarenite fragments (<30mm x 40mm x 65mm), with frequent to abundant shell fragments (<5mm x 5mm). Slightly calcareous and calcareous. Sand is mainly fine and medium. Possible Coralline Crag Formation. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	2.00	-15.61	
									1.28m to 1.43m; indistinct thin bed of weak and moderately weak (cemented) dark brown calcareous sandstone/calcarenite. 1.55m to 1.63m; indistinct thin bed of weak and moderately weak (cemented) dark brown calcareous sandstone/calcarenite.	(1.28)		
2.00 - 3.50				85	N/A	N/A						
								3	Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.			
3.16 - 3.28	D	8							Yellowish brown and dark yellowish brown, locally cemented, silty SAND, recovered with abundant weak and moderately weak (cemented) dark yellowish brown calcareous sandstone/calcarenite fragments (<30mm x 40mm x 50mm), with frequent to abundant shell fragments (<5mm x 10mm). Slightly calcareous and calcareous. Sand is mainly fine and medium. Possible Coralline Crag Formation. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	3.28	-16.89	
										(0.22)		
										3.50	-17.11	
									2.77m to 2.97m; indistinct thin bed of weak and moderately weak (cemented) dark yellowish brown calcareous sandstone/calcarenite. 3.16m to 3.28m; indistinct thin bed of weak and moderately weak (cemented) dark yellowish brown calcareous sandstone/calcarenite.			
								4				
4.20 - 4.30	D	9							Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.			
3.50 - 5.00				100	N/A	N/A			Yellowish brown and dark yellowish brown, locally cemented, silty and very silty SAND, recovered with frequent to abundant weak and moderately weak (cemented) yellowish brown and dark yellowish brown calcareous sandstone/calcarenite fragments (<30mm x 40mm x 45mm), with extremely closely to closely spaced indistinct thin and thick laminae of dark yellowish brown silty and very silty sand, with frequent to abundant shell fragments (<5mm x 8mm), and rare			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650526.80 N263349.48	Ground Elevation (m Datum)	-13.61	Sheet 2 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
5.00 - 6.50				100	N/A	N/A		6	to occasional pockets/possible lenses (<20mm x 35mm) of yellowish brown and grey fine sandy silt. Slightly calcareous and calcareous. Sand is mainly fine and medium. Possible Coralline Crag Formation. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)] 4.00m to 5.00m; locally cemented. 4.20m to 4.30m; thin bed of weak and moderately weak (cemented) yellowish brown calcareous sandstone/ calcarenite. 5.53m to 6.50m; locally cemented.	(3.87)		
6.50 - 6.90	B	12						7	6.70m to 7.37m; locally cemented.			
6.50 - 8.00				58	N/A	N/A			Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	7.37 (0.63)	-20.98	
8.27 - 8.35	D	5						8	Yellowish brown becoming yellowish grey, mottled dark yellowish brown, locally cemented, silty SAND, recovered with frequent to abundant weak and moderately weak (cemented) yellowish brown and dark yellowish brown calcareous sandstone/ calcarenite fragments (<20mm x 30mm x 30mm), with extremely closely to closely spaced indistinct thin and thick laminae of dark yellowish brown and yellowish grey silty sand, with frequent to abundant shell fragments (<5mm x 5mm). Slightly calcareous and calcareous. Sand is mainly fine and medium. Possible Coralline Crag Formation. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	8.00	-21.61	
8.00 - 9.50				97	N/A	N/A		9	8.14m to 8.60m; locally cemented. 8.27m to 8.35m; thin bed of weak and moderately weak (cemented) dark yellowish brown calcareous sandstone/ calcarenite. 8.70m to 9.50m; locally cemented. 9.10m to 10.70m; yellowish grey.	(2.70)		
									9.80m to 10.70m; locally cemented.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650526.80 N263349.48	Ground Elevation (m Datum)	-13.61	Sheet 3 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
9.50 - 11.00				80	N/A	N/A						
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	10.70 (0.30)	-24.31	
11.00 - 11.50	B	13						11	Yellowish grey slightly gravelly silty SAND with frequent to abundant shell fragments (<2mm), locally with rare pockets/possible lenses (<30mm x 40mm) of yellowish grey and grey clayey silt. Slightly calcareous. Sand is fine to coarse. Gravel is fine. Cementation not observed. Possible Coralline Crag Formation. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	11.00 (0.50)	-24.61	
11.00 - 12.50				79	N/A	N/A			Light grey and grey silty and very silty SAND, recovered with occasional weak (weakly cemented) light grey and grey calcareous sandstone/calcarenite fragments (<20mm x 20mm x 20mm), with extremely closely to closely spaced indistinct thin and thick laminae of light grey and grey silty and very silty sand, with frequent to abundant shell fragments (<5mm x 5mm) and occasional Pecten shell fragments (<1mm x 5mm x 10mm). Slightly calcareous and calcareous. Sand is mainly fine and medium. Possible Coralline Crag Formation. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	11.50 (0.69)	-25.11	
								12	Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	12.19 (0.31)	-25.80	
12.65 - 12.90	D	3							Light grey, grey and dark grey silty and very silty SAND, recovered with some to frequent weak and moderately weak (cemented) light grey and grey calcareous sandstone/calcarenite fragments (<20mm x 35mm x 35mm), with very closely and closely spaced indistinct thin laminae to very thin beds of grey and dark grey silty and very silty sand, with frequent to abundant shell fragments (<4mm x 5mm). Slightly calcareous and calcareous. Sand is mainly fine and medium. Possible Coralline Crag Formation. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	12.50	-26.11	
12.50 - 14.00				100	N/A	N/A		13				
13.45 - 13.55	D	6							13.25m to 13.31m; very thin bed of weak (weakly cemented) light grey and grey calcareous argillaceous fine grained sandstone.			
13.55 - 16.73	B	16							13.45m to 13.55m; thin bed of moderately weak (cemented) grey calcareous sandstone/calcarenite.			
								14		(4.23)		
14.00 - 15.50				95	N/A	N/A						
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650526.80 N263349.48	Ground Elevation (m Datum)	-13.61	Sheet 4 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
15.50 - 17.00				82	N/A	N/A		16				
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	16.73 (0.27)	-30.34	
17.00 - 18.25	B	10						17	Light grey, grey and dark grey silty and very silty SAND, locally recovered with some to frequent weak and moderately weak (cemented) light grey and grey calcareous sandstone/calcarenite fragments (<30mm x 35mm x 40mm), with extremely closely to closely spaced indistinct thin and thick laminae of dark grey silty and very silty sand, with frequent to abundant shell fragments (<4mm x 5mm) and some to locally frequent Pecten shell fragments (<2mm x 30mm x 35mm). Slightly calcareous and calcareous. Sand is mainly fine and medium. Possible Coralline Crag Formation. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	17.00	-30.61	
17.00 - 18.50				83	N/A	N/A		18	17.00m to 17.66m; indistinctly cemented. 17.66m to 18.00m; with frequent Pecten shell fragments. 17.66m to 18.25m; recovered with some to frequent calcareous sandstone/calcarenite fragments.	(1.25)		
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	18.25 (0.25)	-31.86	
18.50 - 19.00	B	14								18.50	-32.11	
18.50 - 20.00				100	N/A	N/A		19	Grey and dark grey silty SAND, recovered with some to frequent weak and moderately weak (cemented) grey and dark grey calcareous sandstone/calcarenite fragments (<30mm x 35mm x 40mm), with frequent shell fragments (<2mm). Slightly calcareous and calcareous. Sand is fine to coarse. Possible Coralline Crag Formation, Ramsholt Member. [CORALLINE CRAG FORMATION, RAMSHOLT MEMBER]			
19.50 - 20.00	B	11										
19.70 - 19.75	D	7										
									Continued next page	(3.00)		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650526.80 N263349.48	Ground Elevation (m Datum)	-13.61	Sheet 5 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
20.18 - 20.50	D	4										
20.00 - 21.50				97	N/A	N/A						
21.00 - 21.50	B	15						21				
										21.50	-35.11	
									Grey and dark grey slightly gravelly silty and very silty SAND, recovered with some to frequent weak and moderately weak (cemented) grey and dark grey calcareous sandstone/calcarenite fragments (<30mm x 35mm x 40mm), with frequent shell fragments (<2mm). Slightly calcareous and calcareous. Sand is mainly fine and medium. Gravel is subrounded to well rounded fine and medium of dark brownish grey and dark grey coated pebbles of slightly weathered slightly calcareous possibly argillaceous dark reddish brown limestone. Possible Coralline Crag Formation, Ramsholt Member, Boxstone Bed. [CORALLINE CRAG FORMATION, RAMSHOLT MEMBER]	(0.65)		
								22		22.15	-35.76	
21.50 - 23.00				97	N/A	N/A			Grey and dark grey, locally indistinctly cemented, slightly gravelly very silty SAND with frequent shell fragments (<2mm, locally <2mm x 15mm x 25mm). Slightly calcareous and calcareous. Sand is mainly fine and medium. Gravel is rounded and well rounded fine and medium of dark brownish grey and dark grey coated pebbles of slightly weathered slightly calcareous possibly argillaceous dark reddish brown limestone. Coralline Crag Formation, Ramsholt Member, Boxstone Bed. [CORALLINE CRAG FORMATION, RAMSHOLT MEMBER] 22.80m to 22.95m; with frequent shell fragments (<2mm x 15mm x 25mm).	(0.85)		
								23		23.00	-36.61	
										(0.20)		
										23.20	-36.81	
23.32 - 23.38	D	2							Stiff fissured dark bluish grey silty CLAY with some to frequent burrows (<2mm x 5mm) infilled with light bluish grey clay/silt, rare to occasional, agglutinated foraminifera (<3mm), locally with rare pyrite concretions/nodules (<25mm x 30mm). Micaceous. Fissures are extremely closely spaced, randomly orientated, planar, smooth, polished and occasionally striated (possibly sheared), possibly very tight. [LONDON CLAY FORMATION, WALTON MEMBER]			
23.00 - 24.50				100	N/A	N/A						
								24				
									Stiff and very stiff fissured dark brownish grey and dark grey CLAY with frequent burrows (<3mm x 10mm) infilled with light brownish grey clayey silt, and occasional to some agglutinated foraminifera (<5mm). Micaceous. Fissures are extremely closely and very closely spaced, randomly orientated, planar, smooth, polished and occasionally striated (possibly sheared), very tight and tight, occasionally with dark brown staining. [LONDON CLAY FORMATION, WALTON MEMBER] At 23.20m; with 2 No. pyrite concretions/nodules (<25mm x 30mm).	(2.30)		

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650526.80 N263349.48	Ground Elevation (m Datum)	-13.61	Sheet 6 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
24.50 - 26.00				100	N/A	N/A			At 25.45m; with 1 No. pyrite concretion/nodule (10mm x 10mm).	25.50	-39.11	
								26	Very stiff fissured dark brownish grey and dark grey silty CLAY with frequent to locally abundant agglutinated foraminifera (<2mm x 10mm), frequent burrows (<3mm x 45mm) infilled with light brownish grey and grey clayey silt, and some pyrite concretions/ nodules (<35mm x 40mm). Micaceous. Fissures are mainly very closely and closely spaced, inclined (30-45 degrees and 85 degrees, locally 5-10 degrees), planar, smooth, polished and occasionally striated (possibly sheared), very tight and tight, occasionally with dark brown staining. [LONDON CLAY FORMATION, WALTON MEMBER]			
26.00 - 27.50				100	N/A	N/A						
								27				
										(4.50)		
								28				
27.50 - 29.00				100	N/A	N/A			28.50m to 29.00m; with abundant agglutinated foraminifera.			
								29				
29.00 - 30.50				100	N/A	N/A						
									Continued next page	30.00	-43.61	

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650526.80 N263349.48	Ground Elevation (m Datum)	-13.61	Sheet 7 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
30.50 - 32.00				100	N/A	N/A		31	Very stiff fissured dark brownish grey silty CLAY with frequent agglutinated foraminifera (<1mm x 5mm), and frequent burrows (<4mm x 35mm) infilled with light brownish grey and grey clayey silt. Micaceous. Fissures are very closely and closely spaced, locally extremely closely spaced, mainly inclined (5-10 degrees and 20-45 degrees), planar, smooth, polished and occasionally striated (possibly sheared), very tight and tight, occasionally with dark brown staining. [LONDON CLAY FORMATION, WALTON MEMBER] 30.00m to 30.50m; fissures are extremely closely spaced, randomly orientated, very tight. At 30.05m; with 1 No. pyrite concretion/nodule (10mm x 20mm). At 30.17m; with 1 No. lignite fragment (10mm x 10mm). At 30.92m; with 1 No. pyrite concretion/nodule (10mm x 10mm).	(3.03)		
32.00 - 33.50				100	N/A	N/A		32	At 31.85m; with 1 No. pyrite concretion/nodule (10mm x 10mm).			
								33	Stiff and very stiff dark greyish brown silty CLAY, becoming slightly sandy silty clay, with frequent burrows (<1mm x 10mm) infilled with light greyish brown and grey clayey silt/silty clay. Slightly micaceous. Sand is mainly fine. Possible Harwich Formation, Wrabness Member, Unit B. [HARWICH FORMATION, WRABNESS MEMBER] 33.32m to 33.50m; slightly sandy.	33.03 (0.47) 33.50	-46.64 -47.11	
33.50 - 35.00				100	N/A	N/A		34	Stiff, locally possibly indistinctly fissured, dark greyish brown slightly sandy silty CLAY with frequent pockets/ lenses (<15mm x 25mm) of light greyish brown and brown very silty fine sand/sandy silt, and occasional burrows (<1mm x 5mm) infilled with light greyish brown and grey clayey silt/silty clay. Sand is mainly fine. Possible Harwich Formation, Wrabness, Unit B. [HARWICH FORMATION, WRABNESS MEMBER] 34.14m to 34.18m; very thin bed of firm dark blackish grey tuffaceous silty clay. 34.40m to 34.60m; slightly glauconitic. 34.87m to 35.00m; with extremely closely and very closely spaced thin laminae of light greyish brown and	(2.82)		
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650526.80 N263349.48	Ground Elevation (m Datum)	-13.61	Sheet 8 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									brown very silty fine sand.			
35.00 - 36.50				100	N/A	N/A		36	36.17m to 36.32m; with abundant lignite fragments (<30mm x 50mm x 85mm).	36.32	-49.93	
36.50 - 38.00				100	N/A	N/A		37	Firm and stiff, locally stiff, possibly indistinctly fissured, dark greyish brown slightly sandy silty CLAY with some to frequent pockets/lenses (<10mm x 20mm) of light greyish brown and brown very silty fine sand/sandy silt, and occasional burrows (<1mm x 10mm) infilled with light greyish brown and grey silty clay/clayey silt. Sand is mainly fine. Possible Harwich Formation, Wrabness Member, Unit B. [HARWICH FORMATION, WRABNESS MEMBER] 36.32m to 36.65m; stiff.	(1.42)		
38.00 - 39.50				100	N/A	N/A		38	Stiff indistinctly fissured and occasionally fissured dark greyish brown and brown silty CLAY with closely to widely spaced, rarely very closely spaced, very thin and thin beds of possibly firm to very stiff dark blackish grey tuffaceous silty clay, with rare to occasional burrows (<2mm x 5mm) infilled with light greyish brown and grey silty clay/silt. Fissures are possibly closely to widely spaced, inclined (5-10 degrees and 65 degrees), planar, smooth, polished and occasionally striated (possibly sheared), very tight and occasionally tight, occasionally with dark brown staining. Harwich Formation, Wrabness Member, Unit A. [HARWICH FORMATION, WRABNESS MEMBER]	37.74	-51.35	
								39	At 38.78m; with 1 No. lignite fragment (10mm x 10mm) partially replaced by pyrite. At 39.25m; with 1 No. lignite fragment (30mm x 30mm) partially replaced by pyrite.			
									Continued next page			

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650526.80 N263349.48	Ground Elevation (m Datum)	-13.61	Sheet 9 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
39.50 - 41.00				100	N/A	N/A						
								41				
41.00 - 42.50				100	N/A	N/A				(8.46)		
								42	42.07m to 42.13m; very thin bed of extremely weak dark blackish grey tuffaceous claystone.			
									At 42.50m; with 2 No. angular and subangular strong brownish grey limestone fragments (<50mm x 50mm x 60mm) (assumed drilling fragmented).			
								43				
42.50 - 44.00				100	N/A	N/A						
								44				
44.00 - 45.50				100	N/A	N/A						

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650526.80 N263349.48	Ground Elevation (m Datum)	-13.61	Sheet 10 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
								46				
45.50 - 47.00				97	N/A	N/A			Recovered as soft and firm dark greyish brown mottled dark blackish grey silty CLAY with frequent angular and subangular strong dark greyish brown and dark grey limestone fragments (<35mm x 45mm x 55mm, locally 85mm x 90mm) (assumed drilling fragmented and disturbed). Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	46.20 (0.80)	-59.81	
									46.86m to 46.95m; with 1 No. subangular limestone fragment (85mm x 90mm) (assumed drilling fragmented).			
								47		47.00	-60.61	
47.00 - 48.50				100	N/A	N/A			Recovered as soft and firm dark greyish brown mottled dark blackish grey slightly sandy silty CLAY (assumed drilling disturbed). Sand is mainly fine. Harwich Formation, Wrabness Member, Unit A. [HARWICH FORMATION, WRABNESS MEMBER]	(0.95)		
								48	Recovered as soft and firm dark greyish brown mottled dark blackish grey silty CLAY with frequent angular strong dark greyish brown and dark grey limestone fragments (<65mm x 65mm x 70mm) (assumed drilling fragmented and disturbed). Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	47.95 (0.55)	-61.56	
48.50 - 50.00				100	N/A	N/A		49	Stiff indistinctly fissured dark greyish brown and brown silty CLAY with closely to widely spaced very thin and thin beds of firm and stiff dark blackish grey tuffaceous silty clay/clayey silt, with rare to occasional burrows (<1mm x 5mm) infilled with light greyish brown and grey silty clay/clayey silt. Harwich Formation, Wrabness Member, Unit A. [HARWICH FORMATION, WRABNESS MEMBER]	48.50 (2.90)	-62.11	

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650526.80 N263349.48	Ground Elevation (m Datum)	-13.61	Sheet 11 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
50.00 - 51.50				100	N/A	N/A		51				
									Stiff, possibly indistinctly fissured, brown and dark greyish brown slightly sandy silty CLAY with frequent to abundant pockets/lenses (<15mm x 25mm) of light greyish brown and brown very silty fine sand/sandy silt, and rare to occasional burrows (<2mm x 5mm) infilled with light greyish brown and grey silty clay/ clayey silt. Possible Harwich Formation, Orwell Member. [HARWICH FORMATION, ORWELL MEMBER]	51.40	-65.01	
51.50 - 53.00				100	N/A	N/A		52		(1.61)		
									52.71m to 52.73m; thick lamina of firm and stiff dark blackish grey tuffaceous silty clay. 52.76m to 52.77m; thick lamina of firm and stiff dark blackish grey tuffaceous clayey silt.			
								53		53.01	-66.62	
									Stiff and very stiff, possibly indistinctly fissured, brown and dark greyish brown silty CLAY with occasional to some burrows (<2mm x 15mm) infilled with light greyish brown and grey silty clay/clayey silt. Possible Harwich Formation, Orwell Member. [HARWICH FORMATION, ORWELL MEMBER]			
									53.32m to 53.33m; thick lamina of stiff dark blackish grey tuffaceous silty clay.			
53.00 - 54.50				100	N/A	N/A				(1.49)		
								54				
									At 54.40m; with 2 No. pyrite concretions/nodules (<10mm x 20mm).			
									End of Borehole at 54.50 m	54.50	-68.11	

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SB_06**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650622.76 N263329.04	Ground Elevation (m Datum)	-14.01	Sheet 1 of 1
Hole Type	Sonic Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	54.00	SD	05/06/2019	06/06/2019	LS600 : Excalibur	Sonic	118mm	TM/LM	RL	

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
05/06/2019	02:15:00	0.00	0.00	
05/06/2019	11:45:00	14.50	14.50	
05/06/2019	12:00:00	14.50	14.50	
05/06/2019	23:45:00	36.00	36.00	
06/06/2019	00:00:00	36.00	36.00	
06/06/2019	11:45:00	51.00	51.00	
06/06/2019	12:00:00	51.00	51.00	
06/06/2019	14:30:00	54.00	54.00	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
54.00	118	54.00	150

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
0.00	1.50	100
1.50	3.00	100
3.00	4.50	100
4.50	6.00	100
6.00	7.50	100
7.50	8.50	100
8.50	9.50	100
9.50	10.50	100
10.50	11.50	100
11.50	12.50	100
12.50	13.50	100
13.50	14.50	100
14.50	15.50	100
15.50	16.50	100
16.50	17.50	100
17.50	18.50	100
18.50	19.50	100
19.50	20.50	100
20.50	21.50	100
21.50	22.50	100
22.50	24.00	100
24.00	25.50	100
25.50	27.00	100
27.00	28.50	100
28.50	30.00	100
30.00	31.50	100
31.50	33.00	100
33.00	34.50	100
34.50	36.00	100
36.00	37.50	100
37.50	39.00	100
39.00	40.50	100
40.50	42.00	100
42.00	43.50	100
43.50	45.00	100
45.00	46.50	100
46.50	48.00	100
48.00	49.50	100
49.50	51.00	100
51.00	52.50	100
52.50	54.00	100

General Remarks

1. Deck to mud was 25.00m; deck level was 10.99m above OD. 2. Driller noted broken liner between 45.50m and 46.50m, and core bit blocked by limestone cobble. 3. NNB instructed termination of borehole at 54.00m. 4. Between 8.35m and 8.50m; core slipped and pickup from next run.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	CAY	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 27/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650622.76 N263329.04	Ground Elevation (m Datum)	-14.01	Sheet 1 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 0.30	ES	1							Yellowish brown becoming orangish brown, locally moderately cemented, slightly silty SAND, recovered with rare to occasional angular and subangular moderately weak orangish brown calcareous sandstone/calcarenite fragments (<30mm x 50mm), with frequent to abundant shell fragments (<5mm x 10mm). Calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]			
0.00 - 0.30	ES	2										
0.30 - 0.40	ES	3										
0.60 - 0.80	ES	4										
0.00 - 1.50				100	N/A	N/A			At 0.35m; with 1 No. pocket (100mm x 100mm x 100mm) of greyish brown fine to coarse sand with abundant shell fragments (<1mm). Calcareous.			
0.80 - 0.85	D	28							0.60m to 1.00m; moderately cemented.			
1.00 - 1.20	ES	5						1				
1.00 - 1.20	ES	6							1.00m to 2.50m; orangish brown.			
										(2.50)		
									1.50m to 1.75m; dark grey mottled black. Organic odour.			
2.00 - 2.30	ES	7						2				
2.00 - 2.30	ES	8										
1.50 - 3.00				67	N/A	N/A						
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	2.50	-16.51	
										(0.50)		
3.00 - 3.30	ES	10						3		3.00	-17.01	
3.00 - 3.30	ES	9							Orangish brown becoming yellowish brown and dark yellowish, locally moderately cemented, SAND, recovered with occasional to frequent angular and subangular moderately weak orangish brown calcareous sandstone/calcarenite fragments (<30mm x 50mm), with frequent to abundant shell fragments (<5mm x 10mm). Calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]			
3.00 - 4.50				100	N/A	N/A						
4.00 - 4.30	ES	11						4				
4.00 - 4.30	ES	12							4.00m to 4.50m; recovered with yellowish brown mottled dark brown medium and coarse grained calcareous sandstone/calcarenite fragments.			
									4.50m to 4.97m; with frequent pockets (<30mm x 50mm) of dark grey mottled black sandy silt. Organic odour.	(3.00)		
									4.50m to 6.00m; dark yellowish brown.			
5.00 - 5.30	ES	13										
5.00 - 5.30	ES	14										

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650622.76 N263329.04	Ground Elevation (m Datum)	-14.01	Sheet 2 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
4.50 - 6.00				100	N/A	N/A			5.30m to 6.00m; moderately cemented. 5.50m to 6.00m; moderately cemented, recovered with dark yellowish brown, locally reddish brown, calcareous sandstone/calcarenite fragments.			
								6	Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	6.00 (0.30)	-20.01	
									Orangish brown and dark orangish brown becoming yellowish brown indistinctly laminated, locally moderately cemented, silty SAND, recovered with occasional to frequent angular and subangular moderately weak orangish brown calcareous sandstone/calcarenite fragments (<30mm x 50mm), with frequent to abundant shell fragments (<5mm x 10mm), locally with frequent pockets (<20mm x 40mm) of mottled light grey and black (possibly organic) silty sand. Calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	6.30	-20.31	
6.50 - 7.50	B	18										
6.00 - 7.50				80	N/A	N/A						
6.80	D	29										
6.95	D	30						7				
7.15	D	31							6.30m to 6.40m; with frequent pockets (<20mm x 40mm) of light grey silty sand. Slight organic odour. 6.70m to 7.25m; with very closely and closely spaced thin and medium beds of moderately weak orangish brown calcareous sandstone/calcarenite with abundant shell, coral and bryozoan fragments (<5mm x 10mm).			
7.30	D	32										
7.44 - 7.50	D	33							7.50m to 7.65m; assumed zone of core loss.			
7.65 - 8.35	B	17							7.65m to 7.75m; with frequent pockets of mottled light grey and black silty sand. Possibly organic odour.			
7.50 - 8.50				85	N/A	N/A		8		(3.79)		
8.50 - 10.09	B	16							8.70m to 8.75m; with frequent pockets of mottled light grey and black silty sand. Possibly organic odour.			
8.50 - 9.50				100	N/A	N/A		9	8.95m to 10.09m; yellowish brown.			
9.10	D	34										
9.50 - 10.50				75	N/A	N/A						

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650622.76 N263329.04	Ground Elevation (m Datum)	-14.01	Sheet 3 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									Light greenish grey and greyish orange moderately cemented SAND, recovered with frequent angular and subangular moderately weak greyish orange calcareous sandstone/calcarenite fragments (<40mm x 60mm), with frequent to abundant shell fragments (<5mm x 10mm). Calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	10.09 (0.16) 10.25 (0.45)	-24.10 -24.26	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	10.70	-24.71	
10.50 - 11.50				80	N/A	N/A		11	Light greenish grey, locally dark grey, slightly cemented, silty SAND, recovered with frequent angular and subangular moderately weak greenish grey calcareous sandstone/calcarenite fragments (<20mm x 30mm), with abundant shell fragments (<5mm x 20mm). Calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)] 11.21m to 11.31m; dark grey.			
11.75 - 12.50	B	19								(2.20)		
11.50 - 12.50				100	N/A	N/A		12				
12.60 - 13.50	B	20										
12.50 - 13.50				100	N/A	N/A		13	Light greenish grey, locally dark grey, silty SAND, recovered with occasional angular and subangular moderately weak greenish grey calcareous sandstone/ calcarenite fragments (<10mm x 20mm, locally <40mm), with occasional to frequent shell fragments (<5mm x 5mm, locally <32mm). Calcareous. Sand is mainly fine and medium. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	12.90	-26.91	
13.50 - 14.50				100	N/A	N/A		14				
15.00 - 15.50 14.50 - 15.50	D	21		100	N/A	N/A			14.90m to 15.00m; dark grey. Continued next page			

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650622.76 N263329.04	Ground Elevation (m Datum)	-14.01	Sheet 4 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
15.50 - 17.00	B	22										
15.50 - 16.50				100	N/A	N/A		16	15.76m to 15.82m; dark grey.	(6.15)		
16.50 - 17.50				100	N/A	N/A		17				
17.50 - 18.50				100	N/A	N/A		18				
18.50 - 19.50				100	N/A	N/A		19				
19.50 - 20.50				100	N/A	N/A			Light greenish grey and dark greenish grey silty SAND, recovered with rare angular and subangular moderately weak greenish grey calcareous sandstone/ calcarenite fragments (<10mm x 10mm), with closely to widely spaced thin and medium beds of interlaminated and interbedded dark grey silty fine and medium sand and light grey clayey fine and medium sand, with occasional to frequent shell fragments (<5mm x 5mm) and rare to occasional pockets/lenses (<20mm x 20mm) of firm light grey clay. Calcareous. Sand is mainly fine and medium. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	19.05	-33.06	

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650622.76 N263329.04	Ground Elevation (m Datum)	-14.01	Sheet 5 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
21.00 - 21.91 20.50 - 21.50	B	23		100	N/A	N/A		21		(2.89)		
21.50 - 22.50				100	N/A	N/A		22	21.91m to 21.94m; very thin bed of light grey clayey fine and medium sand. Dark grey slightly gravelly very silty SAND, with rare pockets (<5mm x 5mm) of white silt (possible comminuted chalk). Sand is mainly fine and medium. Gravel is subrounded and rounded mainly medium of dark greenish brown slightly calcareous possibly phosphatic/manganese coated pebbles. Possibly reworked Coralline Crag Formation, Ramsholt Member. [CORALLINE CRAG FORMATION, RAMSHOLT MEMBER]	21.94 (0.56) 22.50	-35.95 -36.51	
22.50 - 24.00				100	N/A	N/A		23	Stiff and very stiff fissured dark grey CLAY. Micaceous. Fissures are extremely closely spaced, randomly orientated, planar, smooth, polished, very tight and tight, with some brown staining. [LONDON CLAY FORMATION, WALTON MEMBER] Stiff and very stiff fissured and indistinctly fissured dark brown CLAY with rare burrows (<5mm x 10mm) infilled with light grey silt and rare tubular agglutinated foraminifera (<2mm x 3mm). Micaceous. Fissures are very closely to closely spaced, randomly orientated, planar, smooth, polished, very tight. [LONDON CLAY FORMATION, WALTON MEMBER]	(0.20) 22.70 (1.70)	-36.71	
									At 23.64m; with 1 No. pocket (10mm x 10mm x 10mm) of fine sand sized pyrite.			
								24	At 23.90m; with 1 No. pocket (10mm x 10mm x 20mm) of fine sand sized pyrite. At 24.10m; with 1 No. subrounded pyrite nodule (10mm x 10mm x 10mm).			
24.00 - 25.50				100	N/A	N/A			Stiff and very stiff fissured, locally indistinctly fissured, dark brown CLAY with rare to locally frequent tubular agglutinated foraminifera (<2mm x 10mm), rare burrows (<5mm x 10mm) infilled with light grey silt, locally with rare to some pockets (<30mm x 40mm x 50mm) of fine sand sized pyrite. Micaceous. Fissures are possibly extremely closely to closely spaced, randomly orientated, planar and occasionally	24.40	-38.41	

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650622.76 N263329.04	Ground Elevation (m Datum)	-14.01	Sheet 6 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									undulating, smooth, polished, very tight. [LONDON CLAY FORMATION, WALTON MEMBER] 24.47m to 24.49m; with 1 No. pocket (30mm x 40mm x 40mm) of pyrite.			
									25.53m to 25.59m; with 2 No. pockets (possible burrows) (<20mm x 50mm) of pyrite.			
								26	At 25.95m; with frequent agglutinated tubular foraminifera (<1mm x 3mm). At 26.05m; with frequent agglutinated tubular foraminifera (<1mm x 3mm).			
25.50 - 27.00				100	N/A	N/A			26.27m to 26.33m; with some pockets (<30mm x 30mm x 30mm) of pyrite.			
									At 26.51m; with 1 No. pocket (10mm x 20mm) of pyrite. 26.56m to 26.80m; with frequent agglutinated tubular foraminifera (<1mm x 10mm).			
								27	27.05m to 27.15m; indistinctly fissured.			
27.00 - 28.50				100	N/A	N/A						
								28		(7.25)		
								29	At 29.06m; with 1 No. pocket (10mm x 20mm) of pyrite.			
28.50 - 30.00				100	N/A	N/A						
29.67 - 30.30	C	15										
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650622.76 N263329.04	Ground Elevation (m Datum)	-14.01	Sheet 7 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
30.30 - 30.35	D	24							30.30m to 30.35m; with 3 No. pockets (<5mm x 10mm) of light brown fine sandy silt.			
30.35 - 30.40	D	25										
30.00 - 31.50				100	N/A	N/A		31	31.20m to 31.22m; with 1 No. pocket (20mm x 30mm) of pyrite.			
										31.65	-45.66	
								32	Very stiff fissured dark grey CLAY with rare burrows (<5mm x 10mm) infilled with light grey silt and rare tubular agglutinated foraminifera (<2mm x 3mm). Micaceous. Fissures are closely and medium spaced, randomly orientated, mainly inclined (70-90 degrees), planar, smooth, tight, with brown staining. Possible London Clay Formation, Walton Member / Harwich Formation, Wrabness Member. [LONDON CLAY FORMATION, WALTON MEMBER]	(0.66)		
31.50 - 33.00				100	N/A	N/A				32.31	-46.32	
									Very stiff, locally fissured, dark brown slightly sandy silty CLAY with rare burrows (<5mm x 10mm) infilled with light grey silt, rare to locally abundant pockets (<5mm x 10mm) of light brown silty fine sand. Micaceous. Sand is fine and medium. Possible Harwich Formation, Wrabness Member. [HARWICH FORMATION, WRABNESS MEMBER]			
									32.47m to 32.50m; with 1 No. inclined (20 degrees) fissure, planar, smooth, very tight.			
								33		(1.70)		
									33.27m to 33.35m; with abundant pockets (<5mm x 10mm) of light brown silty fine sand.			
33.00 - 34.50				100	N/A	N/A			33.70m to 34.01m; with very closely and closely spaced inclined (15-20 degrees) very thin beds of very stiff dark green (glauconitic) and dark grey slightly sandy clay. Sand is fine and medium.			
								34		34.01	-48.02	
									Very stiff, locally fissured, dark brown, silty CLAY with occasional to locally frequent pockets/lenses (<5mm x 10mm) of light brown and light grey silty fine sand. Micaceous. [HARWICH FORMATION, WRABNESS MEMBER]			

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650622.76 N263329.04	Ground Elevation (m Datum)	-14.01	Sheet 8 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
34.50 - 36.00				100	N/A	N/A			35.40m to 35.43m; with 1 No. inclined (20 degrees) fissure, planar, smooth, very tight.			
									35.80m to 35.90m; thin bed of dark grey silty clay with frequent pockets (<5mm x 10mm) of light brown silty fine sand, and rare lignite fragments (<5mm x 5mm).	(3.59)		
								36	35.87m to 36.00m; with 1 No. subvertical fissure, planar, smooth, polished and striated, very tight.			
									At 36.22m; with 1 No. subrounded pyrite nodule (10mm x 10mm x 10mm).			
									At 36.43m; with 1 No. lignite fragment (10mm x 30mm). 36.43m to 36.50m; with frequent pockets (<5mm x 5mm) of light grey silty fine sand.			
36.00 - 37.50				100	N/A	N/A						
								37				
									37.30m to 37.33m; with 1 No. inclined (45 degrees) fissure, planar, smooth, very tight.			
									Very stiff fissured dark brown silty CLAY with closely to widely spaced thin beds of very stiff tuffaceous dark grey and black silty clay, with occasional to locally frequent pockets/lenses (<5mm x 10mm) of light brown and light grey silty fine sand. Micaceous. Fissures are possibly medium and wide spaced, locally extremely closely spaced, mainly inclined (70-90 degrees), planar and undulating, smooth, polished, very tight. [HARWICH FORMATION, WRABNESS MEMBER]	37.60	-51.61	
								38				
37.50 - 39.00				100	N/A	N/A						
								39				
										(3.36)		
39.00 - 40.50				100	N/A	N/A			At 39.70m; with 1 No. pyrite nodule (10mm x 10mm x 10mm). 39.70m to 39.90m; indistinctly fissured. Fissures are possibly very closely spaced, randomly orientated, planar, polished, very tight.			

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650622.76 N263329.04	Ground Elevation (m Datum)	-14.01	Sheet 9 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									At 40.41m; with 1 No. pyrite nodule (10mm x 10mm x 10mm).			
									40.66m to 40.69m; with 1 No. subangular claystone fragment (30mm x 40mm x 90mm). Fissures are extremely closely spaced. 40.71m 40.77m; with 1 No. subangular claystone fragment (60mm x 70mm x 80mm). 40.91m to 40.96m; with rare subangular claystone fragments (<30mm x 30mm x 30mm).			
								41		40.96	-54.97	
40.50 - 42.00				100	N/A	N/A			Stiff and very stiff indistinctly fissured dark brown and dark grey, silty CLAY, locally slightly sandy silty clay, with medium and widely spaced thin beds of very stiff dark grey and black tuffaceous silty clay, with occasional burrows (<1mm x 2mm) infilled with light brown silt. Micaceous. Locally tuffaceous. Sand is fine. Fissures are medium and widely spaced, randomly orientated, planar and undulating, smooth, polished, very tight. [HARWICH FORMATION, WRABNESS MEMBER]			
								42	42.00m to 42.10m; assumed zone of core loss.			
42.00 - 43.50				93	N/A	N/A			42.60m to 42.70m; slightly sandy. 42.70m to 42.72m; very thin bed of very stiff dark greenish brown (possibly glauconitic) silty clay.			
								43		(4.04)		
								44				
43.50 - 45.00				100	N/A	N/A						
									Continued next page	45.00	-59.01	

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650622.76 N263329.04	Ground Elevation (m Datum)	-14.01	Sheet 10 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
45.00 - 46.50				33	N/A	N/A			Recovered as firm light brown becoming dark grey and black silty CLAY with frequent angular to subrounded strong dark grey and dark brown possible limestone fragments (<30mm x 70mm x 100mm). Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	(0.50)		
									45.40m to 45.50m; dark grey and black.	45.50	-59.51	
									Stiff grey clay with occasional boulders (Driller's description). ASSUMED ZONE OF CORE LOSS. Driller noted broken liner and core bit blocked by limestone cobble.			
								46		(1.00)		
46.50 - 48.00				100	N/A	N/A			Stiff and very stiff indistinctly fissured dark brown slightly sandy silty CLAY with medium and widely spaced thin beds of very stiff dark grey and black tuffaceous silty clay, with frequent borrows (1mm x 2mm) infilled with light brown silt, and occasional pockets (<5mm x 10mm) of light brown fine sandy silt. Micaceous. Sand is fine and medium. Fissures are medium and widely spaced, randomly orientated, planar and undulating, smooth, polished, very tight. [HARWICH FORMATION, WRABNESS MEMBER]	46.50	-60.51	
								47				
									47.63m to 47.66m; with 1 No. lignite fragment (5mm x 30mm).			
									47.88m to 47.95m; with frequent angular to subrounded strong dark brown claystone fragments (<40mm x 40mm x 70mm), possibly whole claystone (full core diameter).			
								48		(3.00)		
48.00 - 49.50				100	N/A	N/A			48.66m to 48.68m; very thin bed of firm black silt.			
								49	49.17m to 49.21m; very thin bed of stiff black clayey silt.			
									Possible LIMESTONE. Recovered as angular and subangular strong dark grey limestone fragments (<60mm x 80mm x 90mm) with frequent inclined (70-90 degrees) calcite veins (<5mm), in soft dark brown clay matrix. Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER,	49.50	-63.51	
										(0.20)		
										49.70	-63.71	

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650622.76 N263329.04	Ground Elevation (m Datum)	-14.01	Sheet 11 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
49.50 - 51.00				100	N/A	N/A			HARWICH STONE BAND]			
50.40 - 50.80	B	26							Very stiff dark brown and dark grey slightly sandy CLAY, locally sandy clay, with closely and medium spaced thin beds of very stiff dark grey and black tuffaceous clayey silt, with occasional to frequent pockets (<5mm x 5mm) of light brown silty fine sand. Micaceous. Tuffaceous. Sand is fine and medium. [HARWICH FORMATION, ORWELL MEMBER]	(1.53)		
									49.80m to 50.00m; interbedded with dark greenish grey (glauconitic) slightly sandy clay. Sand is fine. 50.40m to 50.80m; sandy clay. Sand is mainly fine. 50.55m to 50.58m; very thin bed of greenish grey (glauconitic) slightly sandy clay. Sand is fine.			
51.00 - 51.10	D	27						51				
									51.21m to 51.23m; with 3 No. extremely closely spaced thin laminae of light brown fine sandy silt.	51.23	-65.24	
51.00 - 52.50				100	N/A	N/A			Very stiff indistinctly fissured dark brown CLAY with rare to locally frequent pockets (<5mm x 5mm) of light brown fine sandy silt. Micaceous. Fissures are possibly medium and widely spaced, inclined (40-90 degrees), planar, smooth, very tight. [HARWICH FORMATION, ORWELL MEMBER]			
									51.74m to 51.76m; very thin bed of very stiff black tuffaceous silty clay with frequent pockets (<1mm x 1mm) of light brown silt.			
								52				
									At 52.20m; with 1 no. thick lamina of light brown silty fine sand.			
									At 52.43m; with 1 no. thick lamina of light brown silty fine sand.			
									At 52.56m; with 1 no. thin lamina of light brown silty fine sand. 52.56m to 54.00m; with occasional burrows (<2mm x 5mm) infilled with light grey silt.	(2.77)		
								53				
52.50 - 54.00				100	N/A	N/A						
									53.80m to 53.90m; with frequent pockets (<5mm x 5mm) of light brown silty fine sand.			
								54	End of Borehole at 54.00 m	54.00	-68.01	

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SB_07**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650719.14 N263309.54	Ground Elevation (m Datum)	-13.96	Sheet 1 of 1
Hole Type	Sonic Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	55.00	SD	02/06/2019	04/06/2019	LS600 : Excalibur	Sonic	118mm	LM/TM	GDF	

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
02/06/2019	18:00:00	0.00	0.00	
02/06/2019	23:45:00	11.50	11.50	
03/06/2019	00:00:00	11.50	11.50	
03/06/2019	11:45:00	25.50	25.50	
03/06/2019	12:00:00	25.50	25.50	
03/06/2019	23:45:00	38.50	38.50	
04/06/2019	00:00:00	38.50	38.50	
04/06/2019	11:45:00	48.50	48.50	
04/06/2019	12:00:00	48.50	48.50	
04/06/2019	16:40:00	55.00	55.00	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
55.00	118	55.00	150

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
0.00	1.50	100
1.50	3.00	100
3.00	4.50	100
4.50	6.00	100
6.00	7.00	100
7.00	7.50	100
7.50	8.50	100
8.50	9.50	100
9.50	10.50	100
10.50	11.50	100
11.50	12.50	100
12.50	13.50	100
13.50	14.50	100
14.50	15.50	100
15.50	16.50	100
16.50	17.50	100
17.50	18.50	100
18.50	19.50	100
19.50	20.50	100
20.50	21.50	100
21.50	22.50	100
22.50	23.50	100
23.50	24.50	100
24.50	25.50	100
25.50	26.50	100
26.50	27.50	100
27.50	28.50	100
28.50	29.50	100
29.50	30.50	100
30.50	31.50	100
31.50	32.50	100
32.50	33.50	100
33.50	34.50	100
34.50	35.50	100
35.50	36.50	100
36.50	37.50	100
37.50	38.50	100
38.50	39.50	100
39.50	40.50	100
40.50	41.50	100
41.50	42.50	100
42.50	43.50	100
43.50	44.50	100
44.50	45.50	100
45.50	46.50	100
46.50	47.50	100
47.50	48.50	100
48.50	49.50	100
49.50	50.50	100
50.50	51.50	100
51.50	52.50	100
52.50	53.50	100
53.50	55.00	100

General Remarks

1. Deck to mud was 23.70m; deck level was 9.74m above OD. 2. Between 6.10m and 7.00m; core slipped and picked up from next run; between 13.50m and 13.65m; core slipped and picked up from previous run; between 26.00m and 26.50m; core slipped and picked up from next run; between 35.00m and 35.50m; core slipped and picked up from next run; between 47.95m and 48.50m; core slipped and picked up from next run; between 50.95m and 51.50m; core slipped and picked up from next run. 3. Driller noted 'blowing sand' at 13.50m. 25.50m to 26.50m; drilled twice, damaged catcher, twice unable to pick sample up. 4. 30.50m to 31.50m; drilled twice, damaged core spring, first run slipped core. 5. Samples slipped out of barrel at 43.50m and 47.50m. 6. 50.50m to 51.50m, no recovery, slipped core, drilled twice.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	CAY	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 27/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_07**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650719.14 N263309.54	Ground Elevation (m Datum)	-13.96	Sheet 1 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 0.40	ES	1							Yellowish brown silty and very silty SAND, locally recovered with frequent subrounded possibly moderately weak (weakly cemented) yellowish brown calcareous sandstone/calcarenite fragments (<30mm x 40mm x 50mm), with some to frequent shell fragments (<4mm x 5mm). Calcareous. Sand is fine and medium. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]			
0.00 - 0.40	ES	2										
0.40 - 0.55	ES	3										
0.55 - 0.65	ES	4										
0.65 - 1.00	D	24							0.65m to 1.00m; recovered with frequent subrounded calcareous sandstone/calcarenite fragments (<30mm x 40mm x 50mm).			
0.00 - 1.50				100	N/A	N/A				(1.50)		
1.00 - 1.30	ES	5						1				
1.00 - 1.30	ES	6							1.30m to 1.50m; moderately weak (weakly cemented) calcareous sandstone/calcarenite.			
										1.50	-15.46	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.40)		
										1.90	-15.86	
2.00 - 2.50	ES	7						2	Yellowish brown, locally mottled dark yellowish brown, silty and very silty SAND, recovered with rare to occasional subrounded moderately weak (weakly cemented) yellowish brown calcareous sandstone/ calcarenite fragments (<20mm x 20mm x 30mm), with some to frequent shell fragments (<4mm x 5mm) and rare bryozoan (possible Hornea) fragments (<5mm x 5mm). Calcareous. Sand is fine and medium. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]			
2.00 - 2.50	ES	8										
1.50 - 3.00				73	N/A	N/A				(1.10)		
									2.50m to 2.60m; mottled dark yellowish brown.			
								3		3.00	-16.96	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.30)		
3.30 - 3.70	ES	10								3.30	-17.26	
3.30 - 3.70	ES	9							Yellowish brown, locally mottled dark yellowish brown, silty SAND recovered with some subangular and subrounded moderately weak (weakly cemented) yellowish brown calcareous sandstone/calcarenite fragments (<30mm x 30mm x 40mm), with some to frequent shell fragments (<4mm x 5mm), and abundant cemented bryozoan (possible Hornea) and possible coral fragments (<5mm x 5mm x 5mm). Calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]			
3.70 - 4.50	B	15										
3.00 - 4.50				80	N/A	N/A		4		(1.20)		
										4.50	-18.46	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.50)		
										5.00	-18.96	
									Continued next page			

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Client	NNB Generation Company (SZC) Limited			**IT1_SB_07**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650719.14 N263309.54	Ground Elevation (m Datum)	-13.96	Sheet 2 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
4.50 - 6.00				67	N/A	N/A			Yellowish brown becoming dark yellowish brown, locally dark grey mottled black, silty SAND, locally recovered with some moderately weak (weakly cemented) dark yellowish brown calcareous sandstone/calcarenite fragments (<20mm x 30mm x 50mm), with frequent shell fragments (<4mm x 5mm), occasional bryozoan (possible Hornea) and coral fragments (<5mm x 5mm). Calcareous. Sand is mainly medium and coarse. Locally with moderate organic odour. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]			
5.70 - 6.00	D	13							5.00m to 5.60m; with frequent pockets (<40mm x 50mm) of dark grey mottled black (possibly organic) silty fine and medium sand. Moderate possibly organic odour.			
								6	6.00m to 6.10m; assumed zone of core loss.			
									6.10m to 6.80m; with frequent pockets (<40mm x 50mm) of dark grey mottled black (possibly organic) silty fine and medium sand. Moderate possibly organic odour.	(2.60)		
6.00 - 7.00				90	N/A	N/A						
									6.80m to 7.50m; dark yellowish brown, recovered with some calcareous sandstone/calcarenite fragments (<20mm x 30mm x 50mm).			
7.00 - 7.10	D	25						7				
7.10 - 7.21	D	26										
7.21 - 7.30	D	27										
7.00 - 7.50				100	N/A	N/A						
									7.50m to 7.60m; assumed zone of core loss.			
										7.60	-21.56	
7.50 - 8.50				90	N/A	N/A		8	Yellowish brown, locally dark yellowish brown, locally dark grey mottled black, silty SAND, recovered with some moderately weak (weakly cemented) calcareous sandstone/calcarenite fragments (<20mm x 25mm x 30mm), with possibly extremely closely to closely spaced indistinct thick laminae and very thin beds (0-15 degrees) of dark yellowish brown silty and very silty fine and medium sand (possibly cross-bedded), with some shell fragments (<2mm x 4mm). Calcareous. Sand is mainly medium and coarse. Locally with moderate odour. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]			
									8.50m to 8.70m; with frequent pockets (<40mm x 50mm) of dark grey mottled black (possibly organic) silty fine and medium sand. Moderate possibly organic odour.			
9.00 - 9.50	B	16		100	N/A	N/A		9				
8.50 - 9.50												
9.50 - 11.50	B	17							9.50m to 9.90m; with frequent pockets (<40mm x 50mm) of dark grey mottled black (possibly organic) silty fine and medium sand. Moderate possibly organic odour.	(3.90)		
9.50 - 10.50				100	N/A	N/A						
									Continued next page			

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Client	NNB Generation Company (SZC) Limited			**IT1_SB_07**	
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Coordinates (m)	E650719.14 N263309.54	Ground Elevation (m Datum)	-13.96	Sheet 3 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									9.95m to 10.05m; thin bed of silty and very silty fine sand.			
									10.50m to 10.90m; with frequent pockets (<40mm x 50mm) of dark grey mottled black (possibly organic) silty fine and medium sand. Moderate possibly organic odour.			
10.50 - 11.50				100	N/A	N/A		11				
									Brown sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	11.50 (0.20)	-25.46	
									Yellowish brown mottled dark grey and black becoming dark greenish grey silty SAND, recovered with some becoming frequent subangular and subrounded moderately weak (weakly cemented) yellowish brown and dark greenish grey calcareous sandstone/ calcarenite fragments (<10mm x 25mm x 35mm), with some shell fragments (<4mm x 4mm). Calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	11.70	-25.66	
12.00 - 12.50 11.50 - 12.50	D	14		80	N/A	N/A		12				
									11.70m to 12.50m; with rare to occasional pockets (<20mm x 20mm) of dark grey mottled black (possibly organic) silty and very silty fine and medium sand. Moderate possibly organic odour. 12.50m to 12.60m; assumed zone of core loss. 12.60m to 13.35m; with some to frequent pockets (<20mm x 20mm) of dark grey mottled black (possibly organic) silty and very silty fine and medium sand. Moderate possibly organic odour.	(2.40)		
12.60 - 14.00	B	18										
12.50 - 13.50				90	N/A	N/A		13	12.97m to 13.00m; very thin bed of yellowish brown fine sandy silt. Calcareous.			
									13.35m to 13.95m; yellowish brown and greenish grey, recovered with frequent calcareous sandstone/ calcarenite fragments (<10mm x 25mm x 35mm), with frequent to abundant pockets (<15mm x 30mm x 40mm) of dark grey mottled black (possibly organic) silty and very silty fine and medium sand. Possibly moderate organic odour.			
13.50 - 14.50				100	N/A	N/A		14	13.95m to 14.10m; dark greenish grey, with frequent calcareous sandstone/calcarenite fragments (<10mm x 25mm x 35mm).	14.10	-28.06	
									Dark greenish grey silty SAND, recovered with some subangular and subrounded moderately weak (weakly cemented) dark greenish grey calcareous sandstone/ calcarenite fragments (<10mm x 15mm x 20mm), with some grey shell fragments (<4mm x 4mm). Calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	(1.00)		
									14.60m to 14.70m; thin bed of firm and stiff light grey mottled dark grey and black silt.			
14.50 - 15.50				100	N/A	N/A						
									Continued next page			

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Coordinates (m)	E650719.14 N263309.54	Ground Elevation (m Datum)	-13.96	Sheet 4 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									Grey very silty SAND with some shell fragments (<2mm x 10mm x 25mm). Calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	15.10 (0.40)	-29.06	
16.00 - 16.07 15.50 - 16.50	D	28		100	N/A	N/A		16	Grey mottled bluish grey and black silty SAND, recovered with some subangular and subrounded moderately weak (weakly cemented) grey and light grey calcareous sandstone/calcarenite fragments (<30mm x 40mm x 60mm), with some shell fragments (<4mm x 4mm). Calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)] At 15.70m; with 1 No. pocket (60mm x 90mm x 90mm) of soft and firm grey mottled black clayey silt.	15.50 (1.00)	-29.46	
									Light brown sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	16.50 (0.35)	-30.46	
17.00 - 18.50 16.50 - 17.50	B	19		65	N/A	N/A		17	Grey and dark grey becoming light grey silty SAND, recovered with some subangular and subrounded moderately weak (weakly cemented) grey and dark grey calcareous sandstone/calcarenite fragments (<10mm x 25mm x 35mm), with some bivalve shell fragments (<10mm x 10mm x 20mm). Calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	16.85	-30.81	
17.50 - 18.50				100	N/A	N/A		18		(2.65)		
18.50 - 19.50	B	20										
18.50 - 19.50				100	N/A	N/A		19	19.00m to 19.50m; light grey.			
									Light brown sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	19.50 (0.55)	-33.46	
19.50 - 20.50				45	N/A	N/A						

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Coordinates (m)	E650719.14 N263309.54	Ground Elevation (m Datum)	-13.96	Sheet 5 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
										20.05	-34.01	
									Grey and dark grey silty SAND, recovered with some subangular and subrounded moderately weak (weakly cemented) grey calcareous sandstone/calcarenite fragments (<10mm x 25mm x 35mm), with some bivalve shell fragments (<10mm x 10mm x 20mm) Calcareous. Sand is fine and medium. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	(0.75)		
									At 20.10m; with 1 No. pocket (30mm x 50mm x 70mm) of firm slightly sandy clayey silt. Sand is fine and medium.			
										20.80	-34.76	
20.50 - 21.50				100	N/A	N/A		21	Grey and dark grey silty SAND with possibly extremely closely and very closely spaced, locally indistinct, thin and thick laminae of grey silt and shell fragments (<5mm), with frequent to abundant bivalve shell fragments (<5mm x 5mm x 10mm). Calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]			
21.50 - 22.50	B	21								(1.70)		
									At 21.70m; with 1 No. pocket (50mm x 60mm x 75mm) of firm slightly sandy clayey silt. Sand is fine and medium.			
21.50 - 22.50				100	N/A	N/A		22				
										22.50	-36.46	
									Dark grey silty and very silty SAND with frequent bivalve shell fragments (<5mm x 5mm x 5mm). Calcareous. Sand is fine and medium. [CORALLINE CRAG FORMATION, RAMSHOLT MEMBER]			
									22.80m to 22.90m; with abundant bivalve shell fragments (<4mm x 30mm x 50mm).			
22.50 - 23.50				100	N/A	N/A		23		(1.00)		
									23.20m to 23.40m; with abundant bivalve shell fragments (<4mm x 30mm x 30mm).			
									23.40m to 23.50m; slightly gravelly sand. Sand is fine and medium. Gravel is subrounded and rounded mainly fine and medium of dark greenish grey and black slightly calcareous possibly phosphatic/manganese coated pebbles.	23.50	-37.46	
									Dark grey slightly gravelly slightly sandy and sandy SILT with frequent bivalve shell fragments (<15mm x 20mm x 25mm), rare bivalve shells (<2mm x 30mm x 30mm) and rare possible coral fragments (<10mm x 10mm x 25mm). Calcareous. Sand is fine and medium. Gravel is subrounded and rounded fine to coarse of dark greenish grey and black slightly calcareous, locally glauconitic, possibly phosphatic/ manganese-coated pebbles. Possibly Boxstone Bed. [CORALLINE CRAG FORMATION, RAMSHOLT MEMBER]	(0.67)		
23.50 - 24.50				100	N/A	N/A		24		24.17	-38.13	
									Very stiff fissured greyish brown silty CLAY. Fissures are extremely closely spaced, locally blocky, mainly inclined (15-40 degrees), planar, smooth, polished and rarely striated (possibly sheared), very tight and tight, with rare black and brown staining. [LONDON CLAY FORMATION, WALTON MEMBER]	(1.33)		
									24.17m to 24.25m; with bluish grey gleying.			
									24.25m to 24.50m; brown.			
24.50 - 25.50				100	N/A	N/A						

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Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									24.28m to 24.38m; possible thin bed of extremely weak light brown siltstone. Slightly calcareous. 24.50m to 25.50m; with 1 No. subvertical fissure, polished, with black staining.			
									Clay (Driller's description). ASSUMED ZONE OF CORE LOSS.	25.50 (0.50)	-39.46	
25.50 - 26.50				50	N/A	N/A		26	Very stiff fissured brownish grey silty CLAY with frequent to abundant tubular foraminifera (<2mm x 10mm), frequent burrows (<3mm x 50mm) infilled with grey pyritic silty clay, rare lignite fragments (<8mm x 70mm). Fissures are extremely closely and very closely spaced, locally blocky, mainly inclined (15-45 degrees), planar and undulating, smooth, polished and locally striated (possibly sheared), very tight and tight, locally with heavy dark brown and brown staining. [LONDON CLAY FORMATION, WALTON MEMBER]	26.00	-39.96	
									At 26.70m; with 1 No. lignite fragment (8mm x 70mm), partially replaced by pyrite.	(1.20)		
26.50 - 27.50				100	N/A	N/A		27		27.20	-41.16	
27.50 - 28.50				100	N/A	N/A		28	Very stiff fissured, locally indistinctly fissured, dark greenish grey and grey, locally dark greyish brown, slightly sandy CLAY with extremely closely and very closely spaced thin laminae/partings of light greyish brown silt, with frequent to locally abundant tubular foraminifera (<2mm x 5mm), frequent to abundant burrows (<2mm x 35mm) infilled with grey pyritic silty clay, and some pyrite nodules/concretions (<20mm x 40mm). Locally micaceous. Sand is fine. Fissures are extremely closely and very closely spaced, locally blocky, mainly inclined (0-50 degrees), planar, smooth, polished, very tight and tight, with some brown and dark brown staining. [LONDON CLAY FORMATION, WALTON MEMBER]			
28.17 - 28.50	C	12							At 28.15m; with 1 No. pyrite nodule/concretion (20mm x 25mm).			
									28.50m to 29.50m; dark greyish brown.			
28.50 - 29.50				100	N/A	N/A		29	At 28.87m; with 1 No. pyrite nodule/concretion (20mm x 40mm). 28.90m to 29.50m; fissures are indistinct.			
29.50 - 30.50				100	N/A	N/A				(5.50)		
									Continued next page			

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Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
30.44 - 30.50	D	31							30.30m to 30.50m; with extremely closely and very closely spaced thin laminae/partings of light greyish brown silt. 30.40m to 30.50m; micaceous.			
30.60 - 30.80	D	22										
30.80 - 31.00	D	23							At 30.70m; with 1 No. pyrite nodule/concretion (20mm x 25mm).			
30.50 - 31.50				100	N/A	N/A		31				
									31.30m to 31.40m; with abundant agglutinated foraminifera (<1mm x 5mm).			
31.50 - 32.50				100	N/A	N/A		32	At 31.68m; with 1 No. subrounded weak and moderately weak grey calcareous mudstone fragment (70mm x 80mm x 90mm) with fragments (10mm x 30mm) of lignite.			
										32.70	-46.66	
32.50 - 33.50				100	N/A	N/A		33	Very stiff indistinctly fissured grey silty CLAY with extremely closely and very closely spaced thin laminae/partings of light greyish brown and brown silt, with frequent pockets (<10mm x 35mm) of light greyish brown and brown silt, some to frequent burrows (<4mm x 55mm) infilled with grey silty clay, and some pyrite nodules/concretions (<5mm x 10mm x 30mm). Micaceous. Possible London Clay Formation, Walton Member. [LONDON CLAY FORMATION, WALTON MEMBER]	(0.80)		
										33.50	-47.46	
									Clay (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.20)		
										33.70	-47.66	
33.50 - 34.50				80	N/A	N/A		34	Very stiff indistinctly fissured grey silty CLAY with extremely closely and very closely spaced thin laminae/partings of light greyish brown and brown silt, with frequent pockets (<10mm x 35mm) of light greyish brown and brown silt, some to frequent burrows (<4mm x 55mm) infilled with light grey silty clay. Micaceous. Possible London Clay Formation, Walton Member. [LONDON CLAY FORMATION, WALTON MEMBER] At 33.93m; with 1 No. inclined (60 degrees) fissure, planar, smooth, polished and striated (possibly sheared) very tight, clean.	(0.40)		
										34.10	-48.06	
									Stiff and very stiff indistinctly fissured greyish brown and brownish grey, locally greyish green (glauconitic), slightly sandy silty CLAY with extremely closely and very closely spaced thin laminae/partings of light greyish brown and brown silt, with frequent pockets (<10mm x 35mm) of light greyish brown and brown silt, and rare burrows (<3mm x 40mm) infilled with light	(0.90)		
34.50 - 35.50				100	N/A	N/A				35.00	-48.96	

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Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									greyish brown silty clay. Micaceous. Sand is fine. Possible London Clay Formation, Walton Member / Harwich Formation, Wrabness Member. [HARWICH FORMATION, WRABNESS MEMBER] 34.20m to 34.40m; greyish green (glauconitic). 34.60m to 35.00m; greyish green (glauconitic).			
35.50 - 36.50				100	N/A	N/A		36	Very stiff indistinctly fissured greyish brown slightly sandy silty CLAY with frequent to abundant burrows (<3mm x 35mm) infilled with grey silty clay, some pyrite nodules/concretions (<20mm x 20mm), and rare shell fragments (<5mm x 5mm). Micaceous. Sand is fine. [HARWICH FORMATION, WRABNESS MEMBER] At 35.85m; with 1 No. thin lamina of light greyish brown silt.	(1.80)		
									36.50m to 36.80m; fissured. Fissures are very closely and closely spaced, randomly orientated, blocky, planar, smooth, polished, very tight and tight, with brown staining.	36.80	-50.76	
36.50 - 37.50				100	N/A	N/A		37	Stiff and very stiff, locally recovered as very soft (possibly drilling induced), locally indistinctly fissured, dark greyish brown silty CLAY. Fissures are possibly extremely closely and very closely spaced, planar, smooth, polished and locally striated (possibly sheared), very tight and tight. [HARWICH FORMATION, WRABNESS MEMBER]	(0.70)		
										37.50	-51.46	
37.50 - 38.50				100	N/A	N/A		38	Very stiff indistinctly fissured dark greyish brown silty CLAY with some to frequent pockets/lenses (<20mm x 40mm) of light greyish brown silt, and rare to some pyrite nodules/concretions (<10mm x 10mm). Micaceous. [HARWICH FORMATION, WRABNESS MEMBER] 37.50m to 37.60m; thin bed of very stiff bluish grey, possibly tuffaceous, clayey silt.	(1.58)		
38.50 - 39.50				100	N/A	N/A		39				
									Very stiff indistinctly fissured dark brown silty CLAY, locally slightly sandy silty clay, with closely to widely spaced inclined (0-20 degrees) very thin and thin beds of dark greenish grey and black tuffaceous silty clay, with some burrows (<4mm x 35mm) infilled with grey and brown silty clay, and rare lignite fragments (<20mm x 30mm) and pyrite concretions (<10mm x 30mm) (possible pyritised burrows). Slightly micaceous. Sand is fine. [HARWICH FORMATION, WRABNESS MEMBER]	39.08	-53.04	
39.50 - 40.50				100	N/A	N/A						

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Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									40.30m to 40.50m; with 1 No. inclined (45 degrees) fissure, planar and undulating, smooth, polished and striated (possibly sheared), very tight.			
40.50 - 41.50				100	N/A	N/A		41	At 41.06m; with 1 No. lignite fragment (20mm x 30mm). At 41.20m; with 1 No. pyrite concretion (10mm x 30mm) (possible pyritised burrow).	(4.42)		
41.50 - 42.50				100	N/A	N/A		42	41.95m to 42.05m; with 1 No. inclined (40-45 degrees) fissure, planar, smooth, polished, very tight. At 42.10m; with 1 No. pyrite nodule/concretion (10mm x 25mm).			
42.50 - 43.50				100	N/A	N/A		43	43.09m to 43.50m; slightly sandy.			
									Stiff grey clay. (Driller's description). ASSUMED ZONE OF CORE LOSS.	43.50 (0.45)	-57.46	
43.50 - 44.50				55	N/A	N/A		44	Very stiff indistinctly fissured dark brown silty CLAY, locally slightly sandy silty clay, with closely to widely spaced very thin to medium beds of dark grey and black tuffaceous silty clay. Slightly micaceous. Sand is fine. [HARWICH FORMATION, WRABNESS MEMBER] 44.20m to 44.50m; slightly sandy.	43.95	-57.91	
44.50 - 45.50				100	N/A	N/A						

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Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
45.50 - 46.50				100	N/A	N/A		46	45.55m to 45.58m; with 1 No. subvertical fissure, planar, smooth, polished, very tight.	(3.55)		
46.50 - 47.50				100	N/A	N/A		47	46.30m to 46.36m; with 1 No. inclined (50 degrees) fissure, planar, smooth, polished, very tight. 46.84m to 47.50m; slightly sandy.			
									Clay (Driller's description). ASSUMED ZONE OF CORE LOSS.	47.50 (0.45)	-61.46	
47.50 - 48.50				55	N/A	N/A		48	Very stiff indistinctly fissured dark brown slightly sandy CLAY with very closely to medium spaced very thin and thin beds of dark grey and black tuffaceous silty clay. Slightly micaceous. Sand is fine. [HARWICH FORMATION, WRABNESS MEMBER]	47.95	-61.91	
48.40 - 48.50	D	29										
48.77 - 48.83	D	30							48.74m to 49.55m; with extremely closely and very closely spaced thin and thick laminae of light greyish brown silt.			
48.50 - 49.50				100	N/A	N/A		49		(2.55)		
49.90 - 50.50	C	11										
49.50 - 50.50				100	N/A	N/A						

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SB_07**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650719.14 N263309.54	Ground Elevation (m Datum)	-13.96	Sheet 11 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
										50.50	-64.46	
50.50 - 51.50				55	N/A	N/A		51	Clay (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.45)		
51.50 - 52.50				100	N/A	N/A		52	LIMESTONE. Non intact (possibly drilling induced). Recovered as very angular and angular very strong grey and dark grey limestone fragments (<50mm x 75mm x 110mm). Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND] 50.95m to 51.00m; very stiff, locally indistinctly fissured, dark greyish brown silty clay.	50.95 (0.20) 51.15	-64.91 -65.11	
52.50 - 53.50				100	N/A	N/A		53	Very stiff, locally indistinctly fissured, dark greyish brown silty CLAY, locally slightly sandy and sandy silty clay, locally with extremely closely to closely spaced thin laminae of light grey brown silt. Slightly micaceous. Sand is fine. [HARWICH FORMATION, ORWELL MEMBER] 51.60m to 52.25m; slightly sandy and sandy. 52.25 to 52.30m; very thin bed of very stiff dark grey and black tuffaceous silty clay. 52.30m to 52.70m; with extremely closely to closely spaced thin laminae of light greyish brown silt, with some to frequent pockets/lenses (<5mm x 35mm) of light greyish brown and brown fine sandy silt. 52.70m to 53.97m; with some burrows (<2mm x 40mm) infilled with bluish grey silty clay.	(3.85)		
53.50 - 55.00				100	N/A	N/A		54	53.30m to 54.10m; with extremely closely to closely spaced thin laminae of light greyish brown silt, with some to frequent pockets/lenses (<5mm x 35mm) of light greyish brown and brown fine sandy silt. 53.97m to 53.99m; very thin bed of very stiff dark grey and black tuffaceous silty clay. At 54.27m; with 1 No. partially pyritised lignite fragment (30mm x 55mm).			
									End of Borehole at 55.00 m	55.00	-68.96	

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_01**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648137.28 N263831.71	Ground Elevation (m Datum)	-7.54	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	40.00	RO	24/07/2019	25/07/2019	Comacchio : Excalibur	NCD	102mm	AR	JB/SDB	
40.00	57.25	RC	25/07/2019	25/07/2019	Comacchio : Excalibur	Geobor	146mm	AR	JB/SDB	Switched to Geobor at 18.00m due to ground conditions; core retained from 40.00m as instructed by NNB.

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
24/07/2019	00:00:00	0.00	0.00	Good
24/07/2019	11:45:00	4.00	4.00	Good
24/07/2019	12:00:00	4.00	4.00	
24/07/2019	23:45:00	20.00	20.00	
25/07/2019	00:00:00	20.00	20.00	
25/07/2019	11:45:00	42.00	42.00	
25/07/2019	12:00:00	42.00	42.00	
25/07/2019	17:25:00	57.25	57.25	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
18.00	178	0.80	250
57.25	146	18.00	178
		57.25	146

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)
0.00	0.45	P	100	Grey	00:15
0.45	2.00	P	100	Grey	00:15
2.00	4.00	P	100	Grey	00:05
4.00	6.00	P	100	Grey	00:10
6.00	8.00	P	100	Grey	00:07
8.00	10.00	P	100	Grey	00:10
10.00	12.00	P	100	Grey	00:07
12.00	14.00	P	100	Grey	00:06
14.00	16.00	P	100	Grey	00:09
16.00	18.00	P	100	Grey	00:06
18.00	20.00	P	100	Grey	00:17
20.00	22.00	P	100	Grey	00:02
22.00	24.00	P	100	Grey	00:02
24.00	26.00	P	100	Grey	
26.00	28.00	P	100	Grey	
28.00	30.00	P	100	Grey	
30.00	32.00	P	100	Grey	
32.00	34.00	P	100	Grey	
34.00	36.00	P	100	Grey	
36.00	38.00	P	100	Grey	
38.00	40.00	P	100	Grey	
40.00	41.00	P	100	Grey	
41.00	42.00	P	100	Grey	
42.00	43.00	P	100	Grey	
43.00	44.00	P	100	Grey	
44.00	45.50	P	100	Grey	
45.50	47.00	P	100	Grey	
47.00	48.50	P	100	Grey	
48.50	50.00	P	100	Grey	
50.00	51.50	P	100	Grey	
51.50	53.00	P	100	Grey	
53.00	54.25	P	100	Grey	
54.25	55.75	P	100	Grey	
55.75	57.25	P	100	Grey	

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
40.00	41.00	102
41.00	42.00	102
42.00	43.00	102
43.00	44.00	102
44.00	45.50	102
45.50	47.00	102
47.00	48.50	102
48.50	50.00	102
50.00	51.50	102
51.50	53.00	102
53.00	54.25	102
54.25	55.75	102
55.75	57.25	102

General Remarks

1. Deck to mud was 18.00m; deck level was 10.46m above OD. 2. The borehole was drilled adjacent to IT1_SB_01 to achieve the associated SPT data. 3. Geophysical borehole logging was carried out on completion of drilling; results reported separately. 4. Descriptions of the SPT D samples are based on the disturbed material recovered from the SPT liners; these descriptions alone cannot provide representative information to infer strata descriptions or boundaries; the strata descriptions and boundaries given are based on driller's records only. 5. Core logging was not required; only ends of core liners were logged; treat descriptions with caution.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	ROR	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 27/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_01**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648137.28 N263831.71	Ground Elevation (m Datum)	-7.54	Sheet 1 of 12
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 0.38 0.00 - 0.38	D SPT	1	50/225 mm (S)						SAND (Driller's description). 0.00m to 0.38m (230mm recovery); very dense interbedded greyish brown sand and light brown silty sand with 1 No. thick lamina of possibly firm dark grey sandy silt, with occasional to abundant shell fragment (<5mm), with 1 No. flint fragment (15mm x 20mm x 30mm). Sand is fine and medium.			
								1				
2.00 - 2.45 2.00 - 2.45	D SPT	2	N = 50 (S)					2	2.00m to 2.45m (430mm recovery); dense thinly laminated orange and reddish orange sand with some ferruginous speckling (<2mm), rare glauconite (<1mm), and occasional shell fragments (<4mm), with 1 No. subrounded ferruginous nodule (6mm x 8mm x 32mm). Sand is coarse.			
								3				
4.00 - 4.37 4.00 - 4.37	D SPT	3	50/220 mm (S)					4	4.00m to 4.37m (310mm recovery); very dense thinly laminated orange sand with some glauconite (<1mm) and rare shell fragments (<1mm), locally with ferruginous speckling (<1mm). Sand is fine to coarse.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648137.28 N263831.71	Ground Elevation (m Datum)	-7.54	Sheet 2 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
6.00 - 6.38 6.00 - 6.38	D SPT	4	50/230 mm (S)					6	6.00m to 6.38m (350mm recovery); very dense thinly laminated brownish yellow, greenish grey and light brown sand with rare shell fragments (<1mm), rare glauconite (<1mm), and rare pyrite (<2mm), with 2 No. ferruginous laminae (20mm) of fine sand. Sand is fine.			
								7				
8.00 - 8.45 8.00 - 8.45	D SPT	5	N = 50 (S)					8	8.00m to 8.45m (350mm recovery); dense dark grey sand, locally thinly interlaminated with orange silt, with rare shell fragments (<1mm), and rare glauconite (<1mm).			
								9				
10.00 - 10.24 10.00 - 10.24	D SPT	6	50/110 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_01**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648137.28 N263831.71	Ground Elevation (m Datum)	-7.54	Sheet 3 of 12
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									10.00m to 10.24m (190mm recovery); very dense thinly laminated orangish brown and light brown sand with rare glauconite (<1mm) and rare ferruginous speckling (<1mm). Sand is fine.			
								11				
12.00 - 12.19 12.00 - 12.19	D SPT	7	50/100 mm (S)					12	12.00m to 12.19m (190mm recovery); very dense light brown becoming orange and light orange, locally laminated, sand with abundant shell fragments (<4mm), some dark brown speckling (<1mm), some glauconite (<1mm), locally with with rare pyrite (<1mm), locally with 2 No. subangular brown flint gravel. Slightly calcareous. Locally micaceous. Sand is medium.			
								13				
14.00 - 14.22 14.00 - 14.22	D SPT	8	50/95 mm (S)					14	14.00m to 14.22m (195mm recovery); very dense thinly laminated orange and light brown sand with some to abundant shell fragments (<1mm, locally <20mm), and some glauconite (<1mm). Sand is fine.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648137.28 N263831.71	Ground Elevation (m Datum)	-7.54	Sheet 4 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
16.00 - 16.18 16.00 - 16.18	D SPT	9	50/75 mm (S)					16	16.00m to 16.18m (160mm recovery); very dense thinly laminated greyish green and orange sand becoming slightly silty sand, with rare shell fragments (<1mm) and rare glauconite. Sand is fine and medium.			
								17				
18.00 - 18.30 18.00 - 18.30	D SPT	10	50/155 mm (S)					18	18.00m to 18.30m (210mm recovery); very dense thinly laminated greyish green slightly silty sand, with rare glauconite, rare yellow and red fragments (<1mm), with rare shell fragments (<6mm), with 1 No. purplish brown flint fragment (35mm x 35mm x 50mm). Sand is medium.			
								19				
										(39.80)		
20.00 - 20.25 20.00 - 20.25	D SPT	11	50/115 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648137.28 N263831.71	Ground Elevation (m Datum)	-7.54	Sheet 5 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									20.00m to 20.25m (160mm recovery); very dense grey sand with abundant black speckling and occasional shell fragments (<2mm). Sand is fine and medium.			
								21				
22.00 - 22.22 22.00 - 22.22	D SPT	12	50/100 mm (S)					22	22.00m to 22.22m (100mm recovery); very dense grey to dark grey sand with abundant shell fragments (<5mm). Sand is fine to coarse.			
								23				
24.00 - 24.18 24.00 - 24.18	D SPT	13	50/70 mm (S)					24	24.00m to 24.18m (160mm recovery); very dense greenish grey slightly silty sand with abundant shell fragments (<3mm) and 1 No. angular to subrounded fragment (30mm x 35mm x 50mm) of flint. Sand is fine to coarse.			

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648137.28 N263831.71	Ground Elevation (m Datum)	-7.54	Sheet 6 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
26.00 - 26.23 26.00 - 26.23	D SPT	14	50/130 mm (S)					26	26.00m to 26.23m (130mm recovery); very dense grey slightly silty sand with abundant shell fragments (<5mm). Sand is fine and medium.			
								27				
28.00 - 28.24 28.00 - 28.24	D SPT	15	50/120 mm (S)					28	28.00m to 28.24m (240mm recovery); possibly very dense dark grey sand with occasional to abundant shell fragments (<10mm), 1 No. thick lamina (10mm) of very soft slightly sandy silt, with 2 No. moderately weak greyish brown claystone fragments (10mm x 20mm and 30mm x 35mm). Slightly calcareous. Sand is fine to coarse.			
								29				
30.00 - 30.22 30.00 - 30.22	D SPT	16	50/105 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_01**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648137.28 N263831.71	Ground Elevation (m Datum)	-7.54	Sheet 7 of 12
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									30.00m to 30.22m (210mm recovery); very dense bluish grey sand with abundant shell fragments (<3mm). Slightly calcareous. Sand is fine and medium.			
								31				
32.00 - 32.24 32.00 - 32.24	D SPT	17	50/115 mm (S)					32	32.00m to 32.24m (240mm recovery); very dense brownish grey becoming greenish grey silty sand with abundant shell fragments (<10mm), and 1 No. gastropod shell (10mm x 10mm x 15mm). Calcareous. Sand is fine and medium.			
								33				
34.00 - 34.17 34.00 - 34.17	D SPT	18	50/80 mm (S)					34	34.00m to 34.17m (170mm recovery); very dense interbedded dark grey, black and grey medium and coarse sand, slightly silty medium and coarse sand and slightly silty fine and medium sand, with abundant shell fragments (<3mm). Slightly calcareous and calcareous.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648137.28 N263831.71	Ground Elevation (m Datum)	-7.54	Sheet 8 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
36.00 - 36.18 36.00 - 36.18	D SPT	19	50/85 mm (S)					36	36.00m to 36.18m (180mm recovery); very dense dark grey slightly silty sand with abundant shell fragments (<10m). Calcareous. Sand is fine and medium.			
								37				
38.00 - 38.21 38.00 - 38.21	D SPT	20	50/90 mm (S)					38	38.00m to 38.21m (210mm recovery); very dense grey slightly silty sand with abundant shell fragments (<1mm). Calcareous. Sand is fine and medium.			
								39				
									CLAY (Driller's description).	39.80	-47.34	
40.00 - 40.45 40.00 - 40.45	D SPT	21	N = 50 (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648137.28 N263831.71	Ground Elevation (m Datum)	-7.54	Sheet 9 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
40.00 - 41.00				100	N/A	N/A			At 40.00m; firm and stiff dark grey silty clay with rare lenses (<5mm x 30mm) of dark greenish grey sandy silt. Slightly calcareous. Micaceous. Sand is fine and medium. 40.00m to 40.45m; (220mm SPT D recovery); interbedded dark grey silty clay, greenish grey slightly silty fine and medium sand, greenish grey clay and dark grey clay, with occasional to abundant shell fragments (<1mm), locally with frequent lenses (<10mm) of slightly silty fine and medium sand. Locally slightly calcareous. Locally micaceous.			
								41	At 41.00m; stiff dark grey (possibly organic) clay. Micaceous. At 41.01m; very stiff dark grey silty clay. Micaceous.			
41.00 - 42.00				100	N/A	N/A						
42.00 - 42.45	D	22						42	At 42.00m; very stiff dark grey silty clay. Micaceous. 42.00m to 42.15m; assumed zone of core loss. 42.00m to 42.45m (330mm SPT D recovery); possibly very soft becoming stiff and very stiff greyish brown, dark grey and brown silty clay, with some to abundant black (possibly organic) speckling (<1mm), rare to some disseminated pyrite (<1mm), rare subangular fine siltstone gravel (possibly fall-in) and rare white speckling. At 42.15m; very soft and soft, greyish brown, locally mottled greyish blue, clayey silt, with some glauconite (<1mm) and 1 No. subrounded siltstone gravel (12mm x 12mm x 30mm). Micaceous.			
42.00 - 42.45	SPT		N = 35 (S)									
42.00 - 43.00				85	N/A	N/A						
								43	At 43.00m; weak dark brown micaceous clayey siltstone, with rare pyrite (<1mm). At 43.01m; possibly very soft and soft dark brown silty clay with abundant glauconite (<1mm), some dark brown speckling (<1mm), some pockets/lenses (<2mm x 5mm) of light orangish brown and greyish blue fine sand. Micaceous.			
43.26 - 43.32	D	24										
43.00 - 44.00				100	N/A	N/A						
44.00 - 44.45	D	23						44	At 44.00m; medium strong dark purplish grey micritic limestone (possible septarian nodule). 44.00m to 44.45m (270mm SPT D recovery); very stiff dark brown, greyish green and brown silty clay with some disseminated pyrite (<2mm) and rare lenses (1mm x 10mm) of light brown fine sand. At 44.01m; possibly soft, locally firm, dark brown silty clay, locally with weak and moderately weak claystone fragments, with abundant glauconite (<1mm) and some brown speckling. Calcareous. Micaceous.			
44.00 - 44.45	SPT		N = 37 (S)									
44.00 - 45.50				100	N/A	N/A						

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648137.28 N263831.71	Ground Elevation (m Datum)	-7.54	Sheet 10 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
45.50 - 47.00				100	N/A	N/A		46	At 45.50m; weak bluish grey siltstone with some dark brown speckling (<1mm).	(11.70)		
47.00 - 48.50				100	N/A	N/A		47	At 47.00m; very weak bluish grey siltstone with some dark brown speckling (<1mm). At 47.01m; very stiff dark brown silty clay, locally slightly sandy, with abundant dark grey (probably organic) speckling (<2mm). Micaceous. Sand is fine and medium.			
48.50 - 50.00				100	N/A	N/A		48 49	At 48.50m; very stiff bluish grey clayey silt, locally with weak siltstone fragments, with some lenses (<2mm x 12mm) of light bluish grey slightly sandy clayey silt. At 48.51m; very weak bluish grey slightly clayey, locally slightly sandy, siltstone with some dark grey (probably organic) speckling (<1mm). Sand is fine and medium.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648137.28 N263831.71	Ground Elevation (m Datum)	-7.54	Sheet 11 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
50.00 - 51.50				100	N/A	N/A		51	At 50.00m; very stiff brown silty clay. Micaceous. At 50.01m; very stiff dark brown silty clay with abundant dark grey (probably organic) speckling (<1mm) and abundant lenses (<2mm) of organic clay. Micaceous.			
										51.50	-59.04	
51.62 - 52.05	C	25							Sandy silty CLAY (Driller's description). At 51.50m; very stiff dark brown silty clay with some brown speckling (<1mm) and some glauconite (<1mm). Micaceous. At 51.51m; stiff and very stiff dark greenish brown silty clay with abundant dark grey (probably organic) speckling (<1mm). Micaceous.			
52.05 - 52.11	D	26						52				
51.50 - 53.00				100	N/A	N/A				(1.50)		
								53		53.00	-60.54	
53.00 - 54.25				100	N/A	N/A			SANDSTONE / SAND / CLAY (Driller's description). At 53.00m; possibly soft, locally very soft, dark brown sandy clay, with rare glauconite (<1mm) and rare brown speckling (<1mm). Micaceous. Sand is fine. At 53.01m; possibly soft, locally very soft, dark brown sandy clay, with rare glauconite (1mm), rare brown speckling (1mm) and rare dark grey (probably organic) speckling (<1mm). Micaceous. Sand is fine and medium.	(1.25)		
								54				
									At 54.25m; moderately strong light grey and light orangish brown siltstone (possible septarian nodule). Calcareous.	54.25	-61.79	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.50)		
										54.75	-62.29	
54.25 - 55.75				67	N/A	N/A			SAND (Driller's description). At 54.75m; moderately strong light grey and light orangish brown siltstone (possible septarian nodule). Calcareous.			

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648137.28 N263831.71	Ground Elevation (m Datum)	-7.54	Sheet 12 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
										(1.00)		
									At 55.75m; brown slightly silty sand with abundant dark grey (probably organic) speckling (<1mm). Micaceous.	55.75	-63.29	
								56	Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.90)		
55.75 - 57.25				40	N/A	N/A						
									SAND (Driller's description). At 56.65m; brown slightly silty sand with abundant dark grey (probably organic) speckling (<1mm), abundant glauconite (<1mm) and rare orange and red fragments (<2mm). Slightly calcareous.	56.65	-64.19	
								57		(0.60)		
									At 57.25m; brown slightly silty sand with abundant dark grey (probably organic) speckling (<1mm), abundant glauconite (<1mm) and rare orange and red fragments (<2mm). Slightly calcareous.	57.25	-64.79	
									End of Borehole at 57.25 m			
								58				
								59				

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_02**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648674.53 N263721.98	Ground Elevation (m Datum)	-10.02	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	20.00	RO	21/07/2019	22/07/2019	Comacchio : Excalibur	NCD	102mm	JL/JL	JB/SDB	
20.00	55.20	RC	22/07/2019	23/07/2019	Comacchio : Excalibur	Geobor	146mm	JL/JL	JB/SDB	Switched to Geobor at 20.00m due to ground conditions; core retained from 40.00m as instructed by NNB.

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
21/07/2019	20:15:00	0.00	1.70	Good
21/07/2019	23:45:00	6.00	6.00	
22/07/2019	00:00:00	6.00	6.00	
22/07/2019	11:45:00	24.00	24.00	
22/07/2019	12:00:00	24.00	24.00	
22/07/2019	23:45:00	49.20	49.20	
23/07/2019	00:00:00	49.20	49.20	
23/07/2019	02:30:00	55.20	55.20	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
20.00	178	1.70	250
55.20	146	20.00	178
		55.20	146

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)
0.00	0.45	P	100	Grey	00:03
0.45	2.00	P	100	Grey	00:04
2.00	4.00	P	100	Grey	00:04
4.00	6.00	P	100	Grey	00:09
6.00	8.00	P	100	Grey	00:02
8.00	10.00	P	100	Grey	00:05
10.00	12.00	P	100	Grey	00:07
12.00	14.00	P	100	Grey	00:05
14.00	16.00	P	100	Grey	00:15
16.00	18.00	P	100	Grey	00:15
18.00	20.00	P	100	Grey	00:15
20.00	22.00	P	100	Grey	00:20
22.00	24.00	P	100	Grey	
24.00	26.00	P	100	Grey	
26.00	28.00	P	100	Grey	
28.00	30.00	P	100	Grey	
30.00	32.00	P	100	Grey	
32.00	34.00	P	100	Grey	
34.00	36.00	P	100	Grey	
36.00	38.00	P	100	Grey	
38.00	40.00	P	100	Grey	
40.00	41.00	P	100	Grey	
41.00	42.00	P	100	Grey	
42.00	43.00	P	100	Grey	
43.00	44.00	P	100	Grey	
44.00	44.70	P	100	Grey	
44.70	46.20	P	100	Grey	
46.20	47.70	P	100	Grey	
47.70	49.20	P	100	Grey	
49.20	50.70	P	100	Grey	
50.70	52.20	P	100	Grey	
52.20	53.70	P	100	Grey	
53.70	55.20	P	100	Grey	

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
40.00	41.00	102
41.00	42.00	102
42.00	43.00	102
43.00	44.00	102
44.00	44.70	102
44.70	46.20	102
46.20	47.70	102
47.70	49.20	102
49.20	50.70	102
50.70	52.20	102
52.20	53.70	102
53.70	55.20	102

General Remarks

1. Deck to mud was 20.30m; deck level was 10.28m above OD. 2. The borehole was drilled adjacent to IT1_SB_02 to achieve the associated SPT data. 3. Geophysical borehole logging was carried out on completion of drilling; results reported separately. 4. Checkshot survey was carried out downhole on completion of drilling; results reported separately. 5. Descriptions of the SPT D samples are based on the disturbed material recovered from the SPT liners; these descriptions alone cannot provide representative information to infer strata descriptions or boundaries; the strata descriptions and boundaries given are based on driller's records only. 6. Core logging was not required; only ends of core liners were logged; treat descriptions with caution.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	ROR	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648674.53 N263721.98	Ground Elevation (m Datum)	-10.02	Sheet 1 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 0.45 0.00 - 0.45	D SPT	1	N = 10 (S)						SAND (Driller's description). 0.00m to 0.45m (220mm recovery); loose to medium dense yellowish brown sand with occasional brown speckling and some shell fragments (<6mm) over very soft dark greyish brown organic sandy silt (10mm thick). Sand is medium and coarse.			
								1				
2.00 - 2.43 2.00 - 2.43	D SPT	2	50/280 mm (S)					2	2.00m to 2.43m (430mm recovery); very thinly and thinly bedded possibly very soft dark greyish brown organic sandy silt, yellowish brown and greenish brown medium and coarse sand with abundant shell fragments (<6mm) and rare ferrugineous speckling, and orangish brown medium sand, locally with laminae (<10mm) of organic material.			
								3				
4.00 - 4.36 4.00 - 4.36	D SPT	3	50/210 mm (S)					4	4.00m to 4.36m (320mm recovery); very dense orangish brown, locally mottled orange and green, sand with rare shell fragments (<1mm), rare glauconite and some ferruginous speckling. Calcareous. Sand is medium.			

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_02**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648674.53 N263721.98	Ground Elevation (m Datum)	-10.02	Sheet 2 of 12
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
6.00 - 6.34 6.00 - 6.34	D SPT	4	50/185 mm (S)					6	6.00m to 6.34m (290mm recovery); very dense thinly laminated orange and greyish green, locally with pinkish orange speckling, sand with some glauconite. Calcareous. Sand is fine and medium.			
								7				
8.00 - 8.31 8.00 - 8.31	D SPT	5	50/160 mm (S)					8	8.00m to 8.31m (250mm recovery); very dense brownish orange, locally reddish brown, sand with some glauconite, locally with shell fragments (<1mm). Slightly calcareous. Sand is fine and medium.			
								9				
10.00 - 10.28 10.00 - 10.28	D SPT	6	50/135 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_02**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648674.53 N263721.98	Ground Elevation (m Datum)	-10.02	Sheet 3 of 12
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									10.00m to 10.28m (280mm recovery); very dense light orangish brown silty sand with rare shell fragments (<1mm x 5mm x 5mm). Sand is fine and medium.			
								11				
12.00 - 12.33 12.00 - 12.33	D SPT	7	50/180 mm (S)					12	12.00m to 12.33m (180mm recovery); very dense brown silty sand with abundant shell fragments (<2mm). Sand is fine and medium.			
								13				
14.00 - 14.35 14.00 - 14.35	D SPT	8	50/200 mm (S)					14	14.00m to 14.35m (230mm recovery); very dense orangish brown silty sand with abundant shell fragments (<2mm). Slightly calcareous and calcareous. Sand is fine and medium.	(28.00)		
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648674.53 N263721.98	Ground Elevation (m Datum)	-10.02	Sheet 4 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
16.00 - 16.31 16.00 - 16.31	D SPT	9	50/160 mm (S)					16	16.00m to 16.31m (310mm recovery); very dense grey, locally dark greenish brown, silty sand with abundant shell fragments (<10mm), with very thin beds of light grey slightly sandy gravelly clay and slightly sandy clay. Locally slightly calcareous. Sand is fine to coarse. Gravel is angular and subangular fine and medium of very weak and weak claystone.			
								17				
18.00 - 18.24 18.00 - 18.24	D SPT	10	50/150 mm (S)					18	18.00m to 18.24m (150mm recovery); very dense dark grey sand with abundant shell fragments (<1mm, rarely <20mm) with 1 No. very thin bed (40mm thick) of weak brownish grey silty calcarenite. Calcareous to locally highly calcareous. Sand is fine to coarse.			
								19				
20.00 - 20.20 20.00 - 20.20	D SPT	11	50/85 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648674.53 N263721.98	Ground Elevation (m Datum)	-10.02	Sheet 5 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									20.00m to 20.20m; very dense dark grey slightly silty sand with abundant shell fragments (<2mm). Slightly calcareous. Sand is fine and medium.			
								21				
22.00 - 22.27 22.00 - 22.27	D SPT	12	50/160 mm (S)					22	22.00m to 22.27m (220mm recovery); very dense greenish grey slightly silty sand with some ferruginous speckling and 2 No. shell fragments (6mm x 10mm). Sand is medium.			
								23				
24.00 - 24.25 24.00 - 24.25	D SPT	13	50/130 mm (S)					24	24.00m to 24.25m (250mm recovery); very dense greenish grey slightly silty becoming silty sand with some ferruginous and locally pinkish orange speckling, rare glauconite, rare shell fragments (<2mm x 6mm) and 1 No. angular flint fragment (<63mm). Sand is medium.			

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648674.53 N263721.98	Ground Elevation (m Datum)	-10.02	Sheet 6 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
26.00 - 26.26 26.00 - 26.26	D SPT	14	50/145 mm (S)					26	26.00m to 26.26m (240mm recovery); very dense dark grey becoming greenish yellow then dark yellowish grey slightly silty sand with abundant shell fragments (<2mm x 6mm) with 1 No. angular flint fragment (2mm x 6mm). Sand is medium and coarse.			
								27				
28.00 - 28.38 28.00 - 28.38	D SPT	15	50/230 mm (S)					28	Silty SAND (Driller's description). 28.00m to 28.38m (340mm recovery); possibly soft thickly interlaminated greyish green slightly sandy silt and dark grey fine sand with rare laminae of shell fragments. Calcareous. Sulphurous odour.	28.00	-38.04	
								29				
30.00 - 30.42 30.00 - 30.42	D SPT	16	50/265 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648674.53 N263721.98	Ground Elevation (m Datum)	-10.02	Sheet 7 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									30.00m to 30.42m (330mm recovery); thin bed of possibly soft greenish grey clayey silt over thinly interlaminated grey silty fine sand and clayey silt with 2 No. shell fragments (<2mm x 6mm). Calcareous. Slightly micaceous.			
								31				
32.00 - 32.33 32.00 - 32.33	D SPT	17	50/175 mm (S)					32	32.00m to 32.33m (330mm recovery); very dense dark greenish grey slightly silty sand with some shell fragments (<6mm) and some ferruginous speckling, with 1 No. thick lamina of stiff dark greenish grey silty clay. Sand is fine.			
								33		(11.80)		
34.00 - 34.26 34.00 - 34.26	D SPT	18	50/105 mm (S)					34	34.00m to 34.26m (260mm recovery); thin bed of possibly soft and firm greenish grey sandy clayey silt over thin bed of greyish green becoming dark grey slightly silty fine sand with shell fragments (<1mm). Calcareous.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648674.53 N263721.98	Ground Elevation (m Datum)	-10.02	Sheet 8 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
36.00 - 36.18 36.00 - 36.18	D SPT	19	50/90 mm (S)					36	36.00m to 36.18m (180mm recovery); thick lamina of possibly soft bluish grey silty clay over very dense thinly laminated dark yellowish green slightly silty sand with abundant shell fragments (<1mm) and pockets of dark grey and black organic material. Sand is medium and coarse.			
								37				
38.00 - 38.17 38.00 - 38.17	D SPT	20	50/80 mm (S)					38	38.00m to 38.17m (170mm recovery); very dense thinly laminated greyish yellow sand and dark grey organic material with abundant shell fragments (<6mm) and ferruginous speckling. Sand is coarse.			
								39				
									CLAY (Driller's description).	39.80	-49.82	
40.00 - 40.45 40.00 - 40.45	D SPT	21	N = 40 (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_02**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648674.53 N263721.98	Ground Elevation (m Datum)	-10.02	Sheet 9 of 12
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
40.00 - 41.00				100	N/A	N/A			At 40.00m; strong purplish grey fine grained sandstone/ limestone, locally shelly. 40.00m to 40.45m (340mm SPT D recovery); very stiff thinly laminated dark brown clayey silt with rare pyrite. Slightly calcareous.			
								41	At 41.00m; very stiff dark purplish grey clayey silt. Slightly micaceous. Slightly Calcareous. At 41.05m; very stiff dark grey clayey silt with some ferruginous speckling and some pyrite. Calcareous.			
41.00 - 42.00				95	N/A	N/A						
42.00 - 42.45	D	22						42				
42.00 - 42.45	SPT		N = 35 (S)						At 42.00m; very stiff dark grey clayey silt with some ferruginous speckling and some pyrite. Calcareous. 42.00m to 42.15m; assumed zone of core loss. 42.00m to 42.45m (380mm SPT D recovery); very stiff thinly laminated dark brown clayey silt with some pyrite. At 42.15m; very stiff dark grey clayey silt with some ferruginous speckling and some pyrite. Calcareous.	(4.90)		
42.00 - 43.00				85	N/A	N/A						
								43	At 43.00m; very stiff dark brown clayey silt with some pyrite. At 43.05m; very stiff dark brown clayey silt with rare pyrite.			
43.00 - 44.00				95	N/A	N/A						
44.00 - 44.45	D	23						44				
44.00 - 44.45	SPT		N = 32 (S)						At 44.00m; very stiff dark brown clayey silt. 44.00m to 44.15m; assumed zone of core loss. 44.00m to 44.45m (370mm SPT D recovery); stiff fissured dark grey and dark brown, locally dark bluish grey, silty clay. Micaceous. At 44.15m; very stiff dark greyish brown slightly sandy clayey silt with rare pyrite.			
44.00 - 44.70				79	N/A	N/A						
									Clay (Driller's description). ASSUMED ZONE OF CORE LOSS.	44.70	-54.72	
										(0.55)		
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648674.53 N263721.98	Ground Elevation (m Datum)	-10.02	Sheet 10 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
44.70 - 46.20				63	N/A	N/A			CLAY (Driller's description). At 45.25m; very stiff dark brown slightly sandy silt with rare pyrite.	45.25	-55.27	
								46				
46.23 - 46.77	C	28							At 46.20m; very stiff dark brown slightly sandy silt with rare pyrite. At 46.21m; moderately weak dark grey claystone.			
46.89 - 46.95 46.20 - 47.70	D	27		100	N/A	N/A		47				
									At 47.70m; very stiff dark greyish brown clay. Micaceous. At 47.71m; very stiff dark brownish grey silty clay. Micaceous.			
								48				
47.70 - 49.20				100	N/A	N/A						
								49				
									At 49.20m; very stiff dark brownish grey silty clay. Micaceous. At 49.21m; stiff dark grey clayey silt with rare pockets (<10mm x 15mm x 30mm) of stiff and very stiff dark grey clay. Micaceous.			
49.20 - 50.70				100	N/A	N/A						

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648674.53 N263721.98	Ground Elevation (m Datum)	-10.02	Sheet 11 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
										(9.95)		
									At 50.70m; very stiff dark brown clay. Micaceous.			
								51				
50.70 - 52.20				100	N/A	N/A						
								52				
									At 52.20m; very stiff dark brown clay. Micaceous. At 52.21m; stiff and very stiff dark greyish brown clay. Micaceous.			
52.20 - 53.70				100	N/A	N/A		53				
									At 53.70m; very stiff brown mottled grey clay. At 53.74m; stiff brown and dark brown clay. Micaceous.			
								54				
53.70 - 55.20				97	N/A	N/A						
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_02**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648674.53 N263721.98	Ground Elevation (m Datum)	-10.02	Sheet 12 of 12
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									At 55.20m; very stiff brown clay with rare lenses (<2mm) of light grey silt.	55.20	-65.22	
									End of Borehole at 55.20 m			
								56				
								57				
								58				
								59				

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_03**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E649449.91 N263566.06	Ground Elevation (m Datum)	-7.64	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	20.00	RO	30/05/2019	30/05/2019	Comacchio : Excalibur	NCD	102mm	JL & JW	GDF/JB	
20.00	55.00	RC	30/05/2019	31/05/2019	Comacchio : Excalibur	Geobor	146mm	JL & JW	GDF/JB	Switched to Geobor at 20.00m due to ground conditions; core not retained.

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
30/05/2019	07:15:00	0.00	0.70	Dry
30/05/2019	11:45:00	10.00	10.00	
30/05/2019	12:39:00	10.00	10.00	
30/05/2019	21:30:00	24.00	24.00	
31/05/2019	00:10:00	24.00	24.00	
31/05/2019	10:40:00	44.00	44.00	
31/05/2019	12:15:00	44.00	44.00	
31/05/2019	20:45:00	55.00	55.00	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
20.00	178	20.00	178
55.00	146	55.00	146

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)
20.00	22.00	P	100	Grey	
22.00	24.00	P	100	Grey	
24.00	26.00	W	100	Grey	
26.00	28.00	W	100	Grey	
28.00	30.00	W	100	Grey	
30.00	32.00	W	100	Grey	
32.00	34.00	W	100	Grey	
34.00	36.00	W	100	Grey	
36.00	38.00	W	100	Grey	
38.00	40.00	W	100	Grey	
42.00	44.00	W	100	Grey	
44.00	46.00	W	100	Grey	
46.00	48.00	W	100	Grey	
48.00	50.00	W	100	Grey	
52.00	54.00	W	100	Grey	
54.00	55.00	W	100	Grey	

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)

General Remarks

1. Deck to mud was 17.20m; deck level was 9.56m above OD. 2. The borehole was drilled adjacent to IT1_SB_03 to achieve the associated SPT data. 3. SPT samples D4 to D11 (between 8.00m and 22.45m) were depleted for subsampling of environmental sample ES1. 4. Geophysical borehole logging was carried out on completion of drilling; results reported separately. 5. Descriptions of the SPT D samples are based on the disturbed material recovered from the SPT liners; these descriptions alone cannot provide representative information to infer strata descriptions or boundaries; the strata descriptions and boundaries given are based on driller's records only.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	ROR	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 29/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649449.91 N263566.06	Ground Elevation (m Datum)	-7.64	Sheet 1 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 0.45 0.00 - 0.45	D SPT	1	N = 26 (S)						SAND (Driller's description). 0.00m to 0.45m (350mm recovery); medium dense dark greyish green, locally mottled black sand. Calcareous to highly calcareous. Sand is fine and medium.			
								1				
2.00 - 2.45 2.00 - 2.45	D SPT	2	N = 31 (S)					2	2.00m to 2.45m (250mm recovery); dense dark greyish green, locally mottled black sand with 1 No. pocket (<10mm x 10mm x 10mm) of soft black, possibly organic, clay. Calcareous to highly calcareous. Sand is fine and medium.			
								3				
4.00 - 4.45 4.00 - 4.45	D SPT	3	N = 50 (S)					4	4.00m to 4.45m (450mm recovery); dense dark greyish green becoming mottled black sand with some pockets (<10mm x 20mm x 30mm) of soft black (possibly organic) clay and locally with abundant shell fragments (<2mm x 2mm). Calcareous to highly calcareous. Sand is fine and medium.	(8.00)		
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649449.91 N263566.06	Ground Elevation (m Datum)	-7.64	Sheet 2 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
6.00 - 6.45	SPT		N = 4 (S)					6	6.00m to 6.45m; no recovery.			
								7				
8.00 - 22.45	ES	1						8	SAND with shells (Driller's description).	8.00	-15.64	
8.00 - 8.22	D	4							8.00m to 8.22m (220mm recovery); very dense yellowish and reddish brown sand with abundant shell fragments (<2mm x 5mm x 8mm). Highly calcareous. Sand is medium.			
8.00 - 8.22	SPT		50/100 mm (S)									
								9				
10.00 - 10.38	D	5								(4.00)		
10.00 - 10.38	SPT		50/226 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649449.91 N263566.06	Ground Elevation (m Datum)	-7.64	Sheet 3 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									10.00m to 10.38m (220mm recovery); very dense yellowish brown and bluish grey sand with frequent to abundant shell fragments (<1mm x 5mm x 10mm). Highly calcareous. Sand is fine and medium.			
								11				
12.00 - 12.26 12.00 - 12.26	D SPT	6	 50/151 mm (S)					12	SAND (Driller's description). 12.00m to 12.26m (250mm recovery); very dense bluish grey sand with abundant shell fragments (<1mm x 4mm x 8mm). Highly calcareous. Sand is fine and medium.	12.00	-19.64	
								13				
14.00 - 14.32 14.00 - 14.32	D SPT	7	 50/165 mm (S)					14	14.00m to 14.32m (270mm recovery); very dense bluish grey sand with frequent shell fragments (<1mm x 5mm x 7mm). Highly calcareous. Sand is fine to coarse.			

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649449.91 N263566.06	Ground Elevation (m Datum)	-7.64	Sheet 4 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
16.00 - 16.30 16.00 - 16.30	D SPT	8	50/150 mm (S)					16	16.00m to 16.30m; (300mm recovery) very dense bluish grey mottled black sand with frequent shell fragments (<1mm x 4mm x 5mm) with 1 No. thick lamina (20mm) of stiff brown clay. Highly calcareous. Sand is fine to coarse.	(8.00)		
								17				
18.00 - 18.27 18.00 - 18.27	D SPT	9	50/160 mm (S)					18	18.00m to 18.27m (270mm recovery); very dense bluish grey mottled black becoming greenish grey sand with frequent becoming rare shell fragments (<1mm x 2mm x 3mm). Highly calcareous. Sand is fine to coarse.			
								19				
20.00 - 20.45 20.00 - 20.45	D SPT	10	N = 50 (S)						Continued next page	20.00	-27.64	

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649449.91 N263566.06	Ground Elevation (m Datum)	-7.64	Sheet 5 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									Cemented SAND (Driller's description). 20.00m to 20.45m (280mm recovery); dense bluish grey mottled black sand with occasional to rare shell fragments (<1mm x 3mm x 3mm). Sand is fine to coarse. With 1 No. possibly strong grey cemented sandstone fragment (40mm x full diameter).			
								21				
										(3.30)		
22.00 - 22.45 22.00 - 22.45	D SPT	11	N = 50 (S)					22	22.00m to 22.45m (310mm recovery); dense bluish grey mottled black sand with frequent shell fragments (<1mm) with pockets of light grey sand (<20mm x 30mm). Sand is fine to coarse.			
								23				
									CLAY (Driller's description). [LONDON CLAY FORMATION]	23.30	-30.94	
24.00 - 24.45 24.00 - 24.45	D SPT	12	N = 36 (S)					24	24.00m to 24.45m (220mm recovery); very stiff dark grey clay with frequent light grey speckling (<2mm) of possibly silt/shell fragments/foraminifera. Slightly calcareous.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649449.91 N263566.06	Ground Elevation (m Datum)	-7.64	Sheet 6 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
26.00 - 26.45 26.00 - 26.45	D SPT	13	N = 36 (S)					26	26.00m to 26.45m (240mm recovery); very stiff fissured dark grey clay with frequent light grey speckling (<2mm) of possibly silt/shell/foraminifera.			
								27				
28.00 - 28.45 28.00 - 28.45	D SPT	14	N = 35 (S)					28	28.00m to 28.45m (200mm recovery); very stiff dark grey clay with frequent light grey speckling (<2mm) of possibly silt/shells/foraminifera. Slightly calcareous.			
								29				
30.00 - 30.45 30.00 - 30.45	D SPT	15	N = 33 (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649449.91 N263566.06	Ground Elevation (m Datum)	-7.64	Sheet 7 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									30.00m to 30.45m (260mm recovery); very stiff fissured dark grey clay with frequent light grey speckling (<2mm) of possibly silt/shells/foraminifera.			
								31				
32.00 - 32.45 32.00 - 32.45	D SPT	16	N = 34 (S)					32	32.00m to 32.45m (280mm recovery); very stiff fissured dark grey clay with occasional light grey speckling (<2mm) of possibly silt/shell fragments/foraminifera.			
								33				
34.00 - 34.45 34.00 - 34.45	D SPT	17	N = 31 (S)					34	34.00m to 34.45m (250mm recovery); very stiff fissured dark grey clay with frequent light grey speckling (<2mm) of possibly silt/shell fragments/foraminifera.			

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649449.91 N263566.06	Ground Elevation (m Datum)	-7.64	Sheet 8 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
36.00 - 36.45 36.00 - 36.45	D SPT	18	N = 28 (S)					36	36.00m to 36.45m (350mm recovery); very stiff dark grey slightly sandy silty clay, locally with possible pockets (<10mm x 10mm) of light grey/brown sand/silt. Sand is fine.			
								37				
38.00 - 38.45 38.00 - 38.45	D SPT	19	N = 39 (S)					38	38.00m to 38.45m (300mm recovery); very stiff fissured dark grey silty clay. Micaceous.			
								39		(31.70)		
40.00 - 40.45 40.00 - 40.45	D SPT	20	N = 37 (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649449.91 N263566.06	Ground Elevation (m Datum)	-7.64	Sheet 9 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									40.00m to 40.45m (300mm recovery); very stiff friable dark grey slightly sandy silty clay. Sand is fine.			
								41				
42.00 - 42.45 42.00 - 42.45	D SPT	21	N = 47 (S)					42	42.00m to 42.45m (300mm recovery); very stiff dark grey silty clay. With 1 No. extremely weak dark blackish grey claystone (50mm).			
								43				
44.00 - 44.45 44.00 - 44.45	D SPT	22	N = 50 (S)					44	44.00m to 44.45m (440mm recovery); very stiff dark grey silty clay.			

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649449.91 N263566.06	Ground Elevation (m Datum)	-7.64	Sheet 10 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
46.00 - 46.45 46.00 - 46.45	D SPT	23	N = 35 (S)					46	46.00m to 46.45m (320mm recovery); very stiff dark grey silty clay.			
								47				
48.00 - 48.45 48.00 - 48.45	D SPT	24	N = 36 (S)					48	48.00m to 48.45m (370mm recovery); stiff dark grey and grey silty clay. Micaceous.			
								49				
50.00 - 50.45 50.00 - 50.45	D SPT	25	N = 39 (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649449.91 N263566.06	Ground Elevation (m Datum)	-7.64	Sheet 11 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									50.00m to 50.45m (420mm recovery); stiff dark grey silty clay. Micaceous			
									50.31m to 50.33m; bluish grey silt.			
								51				
52.00 - 52.45 52.00 - 52.45	D SPT	26	N = 36 (S)					52	52.00m to 52.45m (330mm recovery); stiff dark brownish grey locally bluish grey, silty clay. Micaceous.			
									52.24m to 52.26m; bluish grey silt.			
								53				
54.00 - 54.45 54.00 - 54.45	D SPT	27	N = 35 (S)					54	54.00m to 54.45m (340mm recovery); stiff dark brown slightly sandy silty clay with rare pockets <(5mm x 5mm x 5mm) of grey silty clay. Slightly micaceous. Sand is fine.			
									End of Borehole at 55.00 m	55.00	-62.64	

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	26.00	RO	18/07/2019	18/07/2019	Comacchio : Excalibur	NCD	102mm	JL/JL	SDB/JB	
26.00	110.40	RC	18/07/2019	19/07/2019	Comacchio : Excalibur	Geobor	146mm	JL/JL	SDB/JB/ GDF/RL	Switched to Geobor at 26.00m due to ground conditions; core retained from 26.00m as instructed by NNB.

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
18/07/2019	06:30:00	0.00	1.00	Fair/wet
18/07/2019	11:45:00	22.00	22.00	
18/07/2019	12:00:00	22.00	22.00	
18/07/2019	23:45:00	54.90	54.90	
19/07/2019	00:15:00	54.90	54.90	
19/07/2019	11:45:00	88.65	88.65	
19/07/2019	12:20:00	88.65	88.65	
19/07/2019	21:45:00	110.40	110.40	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
26.00	178	1.00	225
110.40	146	26.00	178
		110.40	146

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)
0.00	0.45	P	100	Grey	00:07
0.45	2.00	P	100	Grey	00:10
2.00	4.00	P	100	Grey	00:15
4.00	6.00	P	100	Grey	00:16
6.00	8.00	P	100	Grey	00:15
8.00	10.00	P	100	Grey	00:15
10.00	12.00	P	100	Grey	00:12
12.00	14.00	P	100	Grey	00:12
14.00	16.00	P	100	Grey	00:13
16.00	18.00	P	100	Grey	00:09
18.00	20.00	P	100	Grey	00:09
20.00	22.00	P	100	Grey	00:08
22.00	24.00	P	100	Grey	00:07
24.00	26.00	P	100	Grey	00:08
26.00	26.90	P	100	Grey	00:08
26.90	27.90	P	100	Grey	00:09
27.90	29.40	P	100	Grey	00:07
29.40	30.90	P	100	Grey	00:08
30.90	32.40	P	100	Grey	00:16
32.40	33.90	P	100	Grey	00:11
33.90	35.40	P	100	Grey	00:09
35.40	36.90	P	100	Grey	00:08
36.90	38.40	P	100	Grey	00:09
38.40	39.90	P	100	Grey	00:08
39.90	41.40	P	100	Grey	00:04
41.40	42.90	P	100	Grey	00:03
42.90	44.40	P	100	Grey	00:09
44.40	45.90	P	100	Grey	00:14
45.90	47.40	P	100	Grey	00:05
47.40	48.90	P	100	Grey	00:14
48.90	50.40	P	100	Grey	00:06
50.40	51.90	P	100	Grey	00:04
51.90	53.40	P	100	Grey	00:09
53.40	54.90	P	100	Grey	00:13
54.90	56.40	P	100	Grey	00:11
56.40	57.90	P	100	Grey	00:13
57.90	59.40	P	100	Grey	00:14
59.40	60.90	P	100	Grey	00:10
60.90	62.40	P	100	Grey	00:12
62.40	63.90	P	100	Grey	00:16
63.90	65.40	P	100	Grey	00:04
65.40	66.90	P	100	Grey	00:01
66.90	68.40	P	100	Grey	00:01
68.40	69.90	P	100	Grey	00:06
69.90	71.40	P	100	Grey	00:05
71.40	72.90	P	100	Red	00:04
72.90	74.40	P	100	Grey	00:02
74.40	75.90	P	100	Grey	00:01
75.90	77.40	P	100	Grey	00:02
77.40	78.90	P	100	Grey	00:02
78.90	80.40	P	100	Grey	00:02
80.40	81.90	P	100	Grey	00:02
81.90	83.40	P	100	Grey	00:06
83.40	84.90	P	100	Grey	00:04
84.90	86.40	P	100	Grey	00:04
86.40	87.90	P	100	White	00:01
87.90	88.65	P	100	White	00:02
88.65	89.40	P	100	White	00:03
89.40	90.90	P	100	White	
90.90	92.40	P	100	White	
92.40	93.90	P	100	White	
93.90	95.40	P	100	White	
95.40	96.90	P	100	White	
96.90	98.40	P	100	White	
98.40	99.90	P	100	White	
99.90	101.40	P	100	White	
101.40	102.90	P	100	White	
102.90	104.40	P	100	White	
104.40	105.90	P	100	White	
105.90	107.40	P	100	White	
107.40	108.90	P	100	White	
108.90	110.40	P	100	White	

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
26.00	26.90	102
26.90	27.90	102
27.90	29.40	102
29.40	30.90	102
30.90	32.40	102
32.40	33.90	102
33.90	35.40	102
35.40	36.90	102
36.90	38.40	102
38.40	39.90	102
39.90	41.40	102
41.40	42.90	102
42.90	44.40	102
44.40	45.90	102
45.90	47.40	102
47.40	48.90	102
48.90	50.40	102
50.40	51.90	102
51.90	53.40	102
53.40	54.90	102
54.90	56.40	102
56.40	57.90	102
57.90	59.40	102
59.40	60.90	102
60.90	62.40	102
62.40	63.90	102
63.90	65.40	102
65.40	66.90	102
66.90	68.40	102
68.40	69.90	102
69.90	71.40	102
71.40	72.90	102
72.90	74.40	102
74.40	75.90	102
75.90	77.40	102
77.40	78.90	102
78.90	80.40	102
80.40	81.90	102
81.90	83.40	102
83.40	84.90	102
84.90	86.40	102
86.40	87.90	102
87.90	88.65	102
88.65	89.40	102
89.40	90.90	102
90.90	92.40	102
92.40	93.90	102
93.90	95.40	102
95.40	96.90	102
96.90	98.40	102
98.40	99.90	102
99.90	101.40	102
101.40	102.90	102
102.90	104.40	102
104.40	105.90	102
105.90	107.40	102
107.40	108.90	102
108.90	110.40	102

General Remarks

1. Deck to mud was 15.90m; deck level was 9.85m above OD. 2. The borehole was drilled adjacent to IT1_SB_04 to achieve the associated SPT data and to extend deeper by rotary coring. 3. Core runs between 36.90m and 38.40m, and between 38.40m and 39.90m were sealed within the liners and sent for testing at Laboratoire CEMETE-EDF-TEGG, as instructed by NNB; only ends of liners were logged (treat descriptions with caution). 4. Geophysical borehole logging was carried out on completion of drilling; results reported separately. 5. Checkshot survey was carried out downhole on completion of drilling; results reported separately. 6. Descriptions of the SPT D samples are based on the disturbed material recovered from the SPT liners; these descriptions alone cannot provide representative information to infer strata descriptions or boundaries; the strata descriptions and boundaries given are based on driller's records only. 7. CIRIA grades are given for the Chalk strata if possible; subvertical fractures (85-90 degrees) were not included in CIRIA grading or fracture spacing calculations as spacing could not be reliably determined.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	CAY	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 29/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 1 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 0.45 0.00 - 0.45	D SPT	1	N = 14 (S)						SAND (Driller's description). 0.00m to 0.45m (350mm recovery); medium dense yellowish brown silty sand with some pockets of light brown and dark brown possible organic material and rare mica. Calcareous. Sand is fine.			
								1				
2.00 - 2.45 2.00 - 2.45	D SPT	2	N = 29 (S)					2	2.00m to 2.45m (340mm recovery); medium dense greenish grey slightly silty sand with rare shell fragments (<1mm). Sand is fine and medium.			
								3				
4.00 - 4.45 4.00 - 4.45	D SPT	3	N = 34 (S)					4	4.00m to 4.45m (320mm recovery); dense brownish grey slightly silty sand with abundant shell fragments (<2mm). Slightly calcareous. Sand is fine and medium.			

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Notes

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 2 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
6.00 - 6.45 6.00 - 6.45	D SPT	4	N = 46 (S)					6	6.00m to 6.45m (350mm recovery); dense orangish brown slightly silty sand with abundant shell fragments (<2mm). Calcareous. Sand is fine and medium.			
								7				
8.00 - 8.45 8.00 - 8.45	D SPT	5	N = 32 (S)					8	8.00m to 8.45m (450mm recovery); dense orangish brown sand with abundant shell fragments (<4mm). Calcareous. Sand is medium and coarse becoming fine and medium.			
								9				
10.00 - 10.45 10.00 - 10.45	D SPT	6	N = 29 (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 3 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									10.00m to 10.45m (330mm recovery); medium dense orangish brown, locally slightly gravelly, slightly silty sand. Calcareous. Sand is fine and medium. Gravel is subrounded and rounded fine and medium (<10mm x 10mm x 20mm) of fine and medium grained sandstone.			
								11				
12.00 - 12.45 12.00 - 12.45	D SPT	7	N = 30 (S)					12	12.00 to 12.45m (420mm recovery); medium dense to dense orangish brown slightly silty sand with occasional shell fragments (<2mm). Calcareous. Sand is fine and medium.			
								13		(26.00)		
14.00 - 14.43 14.00 - 14.43	D SPT	8	50/280 mm (S)					14	14.00m to 14.43m (370mm recovery); very dense orangish brown, locally slightly gravelly, slightly silty sand with occasional shell fragments (<5mm). Calcareous. Sand is medium and coarse becoming fine and medium. Gravel is subangular fine and medium of sandstone.			

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 4 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
16.00 - 16.45 16.00 - 16.45	D SPT	9	N = 37 (S)					16	16.00m to 16.45m (440mm recovery); dense orangish brown slightly gravelly slightly silty sand with occasional shell fragments (<2mm). Calcareous. Sand is fine to coarse. Gravel is fine and medium (<5mm x 10mm x 10mm) of sandstone.			
								17				
18.00 - 18.45 18.00 - 18.45	D SPT	10	N = 33 (S)					18	18.00m to 18.45m (380mm recovery); dense orangish brown becoming light grey slightly gravelly slightly silty sand with abundant shell fragments (<2mm). Slightly calcareous to calcareous. Sand is fine to coarse. Gravel is fine to coarse (<25mm x 35mm x 45mm) of sandstone.			
								19				
20.00 - 20.45 20.00 - 20.45	D SPT	11	N = 45 (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 5 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									20.00m to 20.45m (430mm recovery); brown and grey gravel (200mm) over light grey slightly silty sand, with abundant shell fragments (<5mm). Sand is fine and medium. Gravel is subangular and subrounded fine and medium on sandstone.			
								21				
22.00 - 22.45 22.00 - 22.45	D SPT	12	N = 45 (S)					22	22.00m to 22.45m (300mm recovery); dense grey sandy gravel with shell fragments. Sand is medium and coarse. Gravel is angular fine to coarse of calcarenite/sandstone.			
								23				
24.00 - 24.45 24.00 - 24.45	D SPT	13	N = 43 (S)					24	24.00m to 24.45m (450mm recovery); grey with white speckling sandy gravel. Sand is fine and medium. (120mm) over dark grey mottled light grey, locally cemented, slightly gravelly sand. Calcareous. Sand is medium and coarse. Gravel is fine and medium of calcarenite/sandstone.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 6 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
26.00 - 26.45	D	14						26				
26.00 - 26.45	SPT		N = 44 (S)						Possibly soft becoming firm and stiff fissured dark grey and brown CLAY (assumed drilling disturbed due to SPT). Micaceous. Fissures are possibly extremely closely spaced, randomly orientated, planar, polished, very tight to partly open, with silt veneer, with brown staining. [LONDON CLAY FORMATION, WALTON MEMBER] 26.00m to 26.45m (250mm SPT D recovery); light grey cemented slightly gravelly sand over soft and firm indistinctly laminated dark grey clay. Calcareous. 26.00m to 26.45m; recovered with rare fine to coarse sand and subangular fine calcarenite and siltstone gravel (probably pushed down by SPT).	26.00 (0.30)	-32.05	
26.00 - 26.90				100	N/A	N/A				26.30 (0.84)	-32.35	
								27	Very stiff fissured brown CLAY. Micaceous. Fissures are possibly extremely closely spaced, randomly orientated, planar, polished, very tight to partly open, with silt veneer, with brown staining. [LONDON CLAY FORMATION, WALTON MEMBER]	27.14	-33.19	
26.90 - 27.90				100	N/A	N/A			Very stiff fissured brown and dark brown CLAY with occasional burrows (<1mm x 5mm) infilled with brown silty clay. Micaceous. Fissures are possibly very closely spaced, mainly inclined (0-40 degrees), planar, smooth, rarely polished, very tight and tight, with slight becoming indistinct brown staining. [LONDON CLAY FORMATION, WALTON MEMBER] 27.14m to 27.16m; with 1 No. slightly calcareous claystone (25mm x full core diameter). At 27.16m; with 1 No. thin lamina of dark grey pyritic clay.			
27.90 - 28.37	C	23						28		(2.21)		
27.90 - 29.40				100	N/A	N/A						
28.92 - 29.35	C	24						29		29.35	-35.40	
									Very stiff fissured dark brown CLAY with rare burrows (<1mm x 3mm) infilled with brown silty clay and rare tubular agglutinated foraminifera (<1mm x 2mm). Fissures are very closely spaced, mainly inclined (0-15 degrees and 70-90 degrees), planar, smooth, polished, tight, with brown staining. [LONDON CLAY FORMATION, WALTON MEMBER] 29.40m to 29.51m; recovered as soft and firm (assumed drilling disturbed).			

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 7 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
29.40 - 30.90				100	N/A	N/A				(1.55)		
									30.52m to 30.53m; with 1 No. black pyritised wood fragment (10mm x 10mm x 100mm).			
										30.90	-36.95	
								31	Very stiff fissured brown and light brown CLAY, frequently recovered as very soft and soft dark brown clay (assumed drilling disturbed), with frequent black staining. Micaceous. Fissures are possibly extremely closely spaced, randomly orientated, planar, polished and striated, possibly tight to partly open, occasionally infilled (<0.25mm) with orange iron oxides, with brown and black staining. Slight organic odour. [LONDON CLAY FORMATION, WALTON MEMBER]	(0.85)		
30.90 - 32.40				100	N/A	N/A			31.10m to 31.13m; with 1 No. subrounded moderately weak brown slightly calcareous claystone nodule (20mm x 20mm x 30mm), with light brown coating, with rare pyrite inclusions (<1mm) and burrows (<1mm x 5mm). 31.45m to 31.50m; with 1 No. subrounded moderately weak brown slightly calcareous claystone nodule (30mm x 40mm x 50mm), with light brown coating, with rare pyrite inclusions (<1mm) and burrows (<1mm x 3mm). 31.50m to 32.00m; with orange iron oxides.	31.75	-37.80	
								32	Very stiff fissured dark greyish brown CLAY with rare to occasional tubular agglutinated foraminifera (<1mm x 2mm) and rare burrows (<1mm x 5mm) infilled with brown silty clay. Micaceous. Fissures are extremely closely spaced becoming very closely and closely spaced, planar, smooth, polished, tight, with brown staining, locally with orange iron oxides. [LONDON CLAY FORMATION, WALTON MEMBER]			
									32.60m to 34.85m; fissures are very closely and closely spaced.			
32.40 - 33.90				100	N/A	N/A		33		(3.10)		
								34	34.00m to 34.02m; with 1 No. pocket (20mm x 20mm) of fine and medium sand sized pyite.			
									34.47m to 34.52m; with 2 No. pockets (<30mm x 40mm) of fine sand sized pyrite.			
33.90 - 35.40				100	N/A	N/A				34.85	-40.90	
									Very stiff fissured dark greyish brown CLAY with rare tubular agglutinated foraminifera (<1mm x 1mm) and			

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 8 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									rare burrows (<1mm x 3mm) infilled with brown silty clay. Micaceous. Fissures are extremely closely and very closely spaced, planar and undulating, polished and frequently striated, tight, with brown staining. [LONDON CLAY FORMATION, WALTON MEMBER]			
									35.22m to 35.24m; with 1 No. pocket (20mm x 20mm) of fine and medium sand sized pyite.			
										(1.65)		
								36				
35.40 - 36.90				100	N/A	N/A						
									36.43m to 36.55m; with 1 No. inclined (40 degrees) fissure, planar, polished and striated, tight, with brown staining. Inclined boundary.			
										36.50	-42.55	
									Very stiff fissured dark brown silty CLAY with very closely spaced laminae of brown silt. Micaceous. Fissures are very closely and closely spaced, inclined (0-10 degrees, 40-60 degrees and 80-90 degrees), planar, smooth and polished, tight, with brown staining. Possible Harwich Formation, Wrabness Member. [HARWICH FORMATION, WRABNESS MEMBER]	(0.40)		
36.90 - 38.40	C									36.90	-42.95	
								37	CLAY (Drillers description). Core runs sealed for laboratory testing.			
									At 36.90m; firm and stiff, locally thinly laminated, dark grey silty clay with rare pyrite. Slightly micaceous.			
36.90 - 38.40				100	N/A	N/A						
								38				
38.40 - 39.90	C								At 38.40m; firm and stiff, locally thinly laminated, dark grey silty clay with 1 No. bivalve mould (3mm x 4mm). Micaceous.	(3.00)		
								39				
38.40 - 39.90				100	N/A	N/A						
									Very stiff fissured dark brown silty CLAY with very	39.90	-45.95	
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 9 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
39.90 - 41.40				100	N/A	N/A			closely and closely spaced indistinct laminae of brown fine sandy silt, with occasional to locally frequent pockets/lenses (<5mm x 5mm) of brown fine sandy silt. Micaceous. Fissures are possibly closely spaced, inclined (40-60 degrees and 70-90 degrees), planar, smooth, occasionally polished and striated, tight, with brown staining. [HARWICH FORMATION, WRABNESS MEMBER] At 39.90m; firm friable, locally thinly laminated, dark greenish grey silty clay with rare pyrite. Micaceous.			
								41					
41.40 - 42.90				100	N/A	N/A			41.53m to 41.63m; thin bed of very stiff dark grey tuffaceous silty clay.	(4.65)			
								42	42.28m to 42.29m; with 1 No. pyrite nodule (10mm x 30mm).				
42.90 - 44.40				100	N/A	N/A		43	43.04m to 43.16m; thin bed of very stiff dark grey and black tuffaceous silty clay. 43.16m to 43.30m; with frequent pockets (<2mm x 5mm) of brown fine sandy silt. 43.30m to 43.40m thin bed of very stiff light brown silty clay.				
								44	44.13m to 44.19m; with 1 No. pyrite nodule (10mm x 60mm).				
									Very stiff fissured dark brown, locally tuffaceous, silty CLAY with closely becoming widely spaced very thin and thin beds of dark grey and black tuffaceous silty clay and clayey silt and with occasional to locally frequent burrows (<5mm x 10mm) infilled with dark grey and brown tuffaceous silty clay and clayey silt.	44.55	-50.60	

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 10 of 23
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
44.40 - 45.90				100	N/A	N/A			Micaceous. Fissures are closely and medium spaced, inclined (0-10 degrees and 70-90 degrees), planar and undulating, smooth, tight, with brown staining. [HARWICH FORMATION, WRABNESS MEMBER]			
									45.68m to 45.82m; slightly tuffaceous, with frequent burrows (<5mm x 5mm) infilled with dark grey and brown tuffaceous silty clay.			
								46		(2.94)		
									46.23m to 47.49m; with widely spaced very thin and thin beds of tuffaceous silty clay and clayey silt.			
45.90 - 47.40				100	N/A	N/A						
								47				
									47.45m to 47.49m; very thin bed of moderately weak black tuffaceous mudstone.	47.49	-53.54	
										(0.12)		
									Moderately weak and medium strong grey and brownish grey LIMESTONE becoming argillaceous LIMESTONE, with frequent subvertical calcite veins (<1mm x 40mm x 50mm). [HARWICH FORMATION, WRABNESS MEMBER]	47.61	-53.66	
									47.56m to 47.61m; brownish grey and argillaceous.			
								48	Very stiff fissured dark brown silty CLAY with possibly very closely and closely spaced indistinct laminae of brown fine sandy silt, with medium and widely spaced very thin and thin beds of dark grey and black tuffaceous silty clay and clayey silt, with occasional to locally frequent pockets/lenses (<5mm x 40mm) of brown fine sandy silt. Micaceous. Fissures are closely and medium spaced, inclined (0-15 degrees and 60-80 degrees), planar, smooth, tight, with brown staining. [HARWICH FORMATION, WRABNESS MEMBER]			
47.40 - 48.90				100	N/A	N/A				(2.19)		
								49	At 49.03m; with 1 No. marcasite nodule (5mm x 5mm).			
									49.48m to 49.63m; with frequent pockets/lenses of brown fine sandy silt.			
48.90 - 50.40				100	N/A	N/A						
									Very stiff fissured dark brown slightly tuffaceous silty CLAY very thinly and thinly interbedded with dark grey	49.80	-55.85	

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 11 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									and black tuffaceous clayey silt, locally moderately weak black tuffaceous mudstone. Micaceous. Fissures are closely and medium spaced, inclined (0-15 degrees, 40-60 degrees and 80-90 degrees), planar, locally undulating, smooth, locally polished and striated, tight, with brown staining. [HARWICH FORMATION, WRABNESS MEMBER] 50.19m to 50.27m; thin bed of moderately weak black tuffaceous mudstone. 50.62m to 50.70m; with 1 No. subrounded strong brownish grey argillaceous limestone fragment (60mm x 80mm x 100mm).			
50.40 - 51.90				100	N/A	N/A		51	51.69m to 51.82m; with 2 No. conjugating inclined (40-50 degrees) fissures, planar and undulating, polished and striated. 51.96m to 52.22m; with occasional pockets/lenses (<5mm x 20mm) of brown silt. 52.01m to 52.10m; with 1 No. fissure inclined (40-50 degrees), planar, polished and striated.	(2.42)		
								52		52.22	-58.27	
51.90 - 53.40				37	N/A	N/A			Medium strong brownish grey, locally black, locally tuffaceous, argillaceous LIMESTONE, with rare inclined (70-90 degrees) calcite veins (<1mm x 100mm x 230m). Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND] 52.32m to 52.35m; black and tuffaceous. Limestone (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.23) (0.95)		
								53		52.45 53.40	-58.50 -59.45	
53.40 - 54.90				100	N/A	N/A		54	Very stiff dark brown silty CLAY very thinly and thinly interbedded with dark grey and black tuffaceous silty clay and clayey silt and with possibly very closely and closely spaced laminae of brown fine sandy silt. Micaceous. [HARWICH FORMATION, WRABNESS MEMBER] 53.48m to 53.66m; with 1 No. inclined (50-60 degrees) fissure, planar, smooth, tight, with slight brown staining.	(1.00)		
									Medium strong brownish grey argillaceous LIMESTONE with occasional brown and orangish brown staining. Slightly weathered. [HARWICH FORMATION, WRABNESS MEMBER]	54.40 (0.15) 54.55	-60.45 -60.60	
									Very stiff, locally fissured, dark brown, becoming slightly tuffaceous, silty CLAY very thinly and thinly interbedded with dark grey and black tuffaceous silty clay and clayey silt, with occasional pockets/lenses			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 12 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									(<2mm x 40mm) of brown fine sandy silt and light brown silt. Micaceous. [HARWICH FORMATION, WRABNESS MEMBER] 54.55m to 54.59m; recovered as soft and firm (assumed drilling disturbed). 54.59m to 54.69m; thin bed of moderately weak thinly laminated black and greyish black tuffaceous mudstone.	(1.53)		
54.90 - 56.40				90	N/A	N/A		56	Medium strong and strong brownish grey argillaceous LIMESTONE, with rare subvertical calcite veins (<1mm x 50mm x 100mm). Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	56.08 (0.11) 56.19	-62.13 -62.24	
									Very stiff dark brown, becoming slightly tuffaceous, silty CLAY with closely spaced very thin and thin beds of dark grey and black silty clay and clayey silt, with frequent burrows (<2mm x 5mm) infilled with brown and light brown silt, and occasional pockets/lenses (<5mm x 10mm) of brown fine sandy silt. Micaceous. [HARWICH FORMATION, WRABNESS MEMBER]	(0.94)		
								57	56.25m to 56.40m; assumed zone of core loss.			
56.40 - 57.90				100	N/A	N/A			Stiff and very stiff dark brown slightly sandy silty CLAY with possibly very closely spaced indistinct laminae of brown silty fine sand, with frequent pockets/lenses (<5mm x 10mm) of brown fine sandy silt. Micaceous. Sand is fine to coarse. Possible Harwich Formation, Orwell Member. [HARWICH FORMATION, ORWELL MEMBER]	57.13 (0.39) 57.52	-63.18 -63.57	
									Very stiff fissured dark brown CLAY with possibly closely becoming very closely spaced indistinct laminae of brown silty fine sand, with occasional pockets/lenses (<5mm x 10mm) of brown fine sandy silt. Micaceous. Fissures are closely and medium spaced, subhorizontal, locally subvertical, planar, smooth, very tight. Possible Harwich Formation, Orwell Member. [HARWICH FORMATION, ORWELL MEMBER]			
								58				
57.90 - 59.40				100	N/A	N/A			58.50m to 58.53m; very thin bed of very stiff black tuffaceous pyritic clayey silt with frequent burrows/ pockets (<1mm x 2mm) infilled with brown silt.			
								59				
									59.18m to 59.21m; very thin bed of very stiff black tuffaceous pyritic clayey silt with frequent burrows/ pockets (<1mm x 2mm) infilled with brown silt.	(3.38)		
59.67 - 60.12	C	22										
									Continued next page			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 13 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
60.12 - 60.17 59.40 - 60.90 60.17 - 60.22	D D	27 35		100	N/A	N/A			60.39m to 60.90m; with possibly very closely spaced indistinct laminae of brown silty fine sand.			
								61	Firm and stiff dark brown sandy CLAY. Sand is fine and medium. Possible Harwich Formation, Orwell Member, Unit A. [HARWICH FORMATION, ORWELL MEMBER] 61.25m to 61.40m; with 3 No. subrounded and rounded flint pebbles (<20mm x 20mm x 30mm).	60.90 (0.66) 61.56	-66.95 -67.61
60.90 - 62.40				97	N/A	N/A		62	Dark grey mottled black (possibly oxidising to light brown) silty SAND with rare lenses (<2mm x 10mm) of dark brown clay. Sand is fine and medium. Slightly organic odour. Possible undifferentiated Mottled Beds (Reading Formation), Channel Sands. [READING FORMATION] 61.63m to 61.67m; interlaminated with dark brown clay. 61.67m to 61.71m; dark brown clay interlaminated with slightly calcareous slightly sandy silty clay.	(0.15) 61.71 (0.69)	 -67.76
								63	Firm and stiff brown and light brown (possibly oxidised colour) mottled grey very sandy SILT with rare to occasional subangular and subrounded brownish grey calcareous concretions (<20mm x 30mm x 30mm). Calcareous. Sand is fine. Possible undifferentiated Mottled Beds (Reading Formation), Channels Sands. [READING FORMATION] 61.67m to 61.77m; dark brown rarely mottled grey clayey silt with occasional to frequent subangular brownish grey possibly calcareous concretions and rare bivalve shells (<5mm x 5mm). At 62.35m; with 1 No. thin lamina of brown silty fine sand.	62.40	-68.45
62.40 - 63.90				93	N/A	N/A			Dark grey (oxidising to brown and light brown) silty, locally very silty, SAND with extremely closely to closely spaced cross-bedded thin and thick laminae of dark grey and black organic very silty sand, with occasional pockets/possible burrows (<20mm x 50mm) infilled with dark grey and black organic very silty sand. Organic odour. Possible undifferentiated Mottled Beds (Reading Formation), Channels Sands. [READING FORMATION] 63.58m to 63.68m; very silty. 63.80m to 63.90m; assumed zone of core loss.	(1.50)	
								64	Very stiff light brown to dark brown clayey SILT with extremely closely and very closely spaced thin and thick laminae of light brown, dark brown, grey and brownish grey clay, fine sandy silt and clayey silt. Calcareous. Possible undifferentiated Mottled Beds (Reading Formation). [READING FORMATION]	63.90 (0.18) 64.08	-69.95 -70.13
63.90 - 65.40				93	N/A	N/A			Very stiff indistinctly fissured brown and dark brown mottled/gleyed bluish grey silty CLAY. Calcareous. Fissures are possibly very closely spaced, randomly orientated, planar, polished and striated, tight, with grey gleying. Calcareous. Possible undifferentiated Mottled Beds (Reading Formation). [READING FORMATION]	(0.89)	
										64.97	-71.02

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 14 of 23
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									Moderately weak light brown, bluish grey and reddish brown CLAYSTONE. Calcareous. Possible undifferentiated Mottled Beds (Reading Formation). [READING FORMATION]	(0.13) 65.10	-71.15	
									Very stiff grey CLAY thinly and thickly interlaminated and cross-bedded with light brown and dark brown silt and clayey silt. Calcareous. Possible undifferentiated Mottled Beds (Reading Formation). [READING FORMATION]	(0.39) 65.49	-71.54	
									65.30m to 65.40m; assumed zone of core loss.			
									Very stiff indistinctly fissured brown mottled/gleyed bluish grey CLAY. Calcareous. Fissures are possibly closely spaced, inclined (0-10 degrees and 40-60 degrees), planar, smooth and polished, tight, with grey gleying. Possible undifferentiated Mottled Beds (Reading Formation). [READING FORMATION]	(0.74)		
65.40 - 66.90				100	N/A	N/A		66	66.18m to 66.23m; with extremely closely spaced thin laminae of highly calcareous white silt.	66.23	-72.28	
									Very stiff fissured black becoming brown mottled greyish blue, black and reddish brown CLAY. Fissures are closely and medium spaced, inclined (70-90 degrees), planar, smooth, very tight. Possible undifferentiated Mottled Beds (Reading Formation). [READING FORMATION]	(0.53)		
									66.23m to 66.29m; with occasional pockets/lenses (<5mm x 20mm) of grey and white slightly calcareous silty clay.	66.76	-72.81	
									Bluish grey (oxidising to light brown) possibly mottled greenish brown and rarely black very silty SAND with rare to occasional angular and subangular very weak and weak thinly laminated brown calcareous sandstone fragments/possible concretions (<20mm x 50mm x 80mm). Slightly calcareous becoming calcareous. Sand is fine and medium. Possible undifferentiated Mottled Beds (Reading Formation) Channel Sands. [READING FORMATION]	(1.24)		
66.90 - 68.40				100	N/A	N/A		67	66.92m to 66.99m; possible thin bed of slightly weathered weak and moderately weak brown and grey calcareous sandstone.			
									Stiff bluish grey sandy SILT with extremely closely and very closely spaced thin laminae to very thin beds of brown and light brown (possibly oxidised colour) sandy silt. Slightly calcareous. Sand is fine. Possible undifferentiated Mottled Beds (Reading Formation) Channel Sands. [READING FORMATION]	68.00 (0.68) 68.68	-74.05 -74.73	
									Very stiff brown mottled bluish grey CLAY with very closely and closely spaced thin laminae of white calcareous silt. Calcareous becoming slightly calcareous. Possible undifferentiated Mottled Beds (Reading Formation). [READING FORMATION]			
68.40 - 69.90				100	N/A	N/A		68 69	68.80m to 70.02m; slightly calcareous.	(1.34)		
									Continued next page			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
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Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 15 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									Very stiff dark bluish grey mottled yellowish brown sandy CLAY. Slightly calcareous. Sand is fine and medium. Possible undifferentiated Mottled Beds (Reading Formation)/ Upnor Formation. [READING FORMATION]	70.02	-76.07	
69.90 - 71.40				100	N/A	N/A				(0.90)		
								71	Stiff and very stiff bluish grey indistinctly mottled yellowish brown and red becoming mottled red, orange and yellowish brown very sandy SILT. Slightly calcareous and micaceous. Sand is fine and medium. Possible weathered horizon of undifferentiated Mottled Beds (Reading Formation)/Upnor formation. [UPNOR FORMATION]	70.92	-76.97	
									71.18m to 72.00m; mottled red, with occasional to frequent angular and subangular possibly weak moderately cemented red ferruginous concretions (<30mm x 50mm).	(1.51)		
								72	72.00m to 72.42m; mottled orange and yellowish brown.			
71.40 - 72.90				93	N/A	N/A						
									72.42m to 72.43m; with 1 No. thick lamina of very stiff bluish grey silty clay.	72.43	-78.48	
									Possibly grey (oxidising to brown and light brown) very silty SAND with extremely closely spaced thin laminae of dark brown silty sand, and very closely and closely spaced very thin and thin bed of very stiff clay, with occasional pockets/lenses (<10mm x 30mm) of brown silty sand. Slightly calcareous. Sand is fine. Possible undifferentiated Mottled Beds (Reading Formation)/ Upnor Formation. [UPNOR FORMATION]	(1.00)		
								73	72.80m to 72.90m; assumed zone of core loss.			
73.43 - 73.78 72.90 - 74.40				100	65	49	5 60 130			73.43	-79.48	
73.80 - 73.85 73.85 - 74.32	D C	26 25							Very weak and weak dark brownish grey indistinctly mottled dark green, dark greenish grey and dark greyish green (glauconitic and indistinctly glauconitic) MUDSTONE, with frequent burrows (<8mm x 45mm) infilled with grey and greenish grey silty clay, and some to frequent tubular agglutinated foraminifera (<1mm x 5mm). Fractures are very closely to medium spaced, locally extremely closely spaced, inclined (0-80 degrees), planar, locally undulating and stepped, smooth and locally rough, polished and locally striated (possibly sheared), very tight and tight, locally partly open and open, locally infilled (<1mm) with greyish brown clayey silt, with brown, dark brown, black and dark greenish grey staining. Partially weathered. [LISTA FORMATION, ORMESBY CLAY MEMBER, OC3]			
73.78 - 74.32							- 550 -	74	At 73.43m; inclined (30-35 degrees) boundary.			
74.84 - 74.94	D	36								(2.95)		
									Continued next page			

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FUGRO	Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
	Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**
	Fugro Reference	G190016U	Water Depth (m Datum)	NR	
	Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 16 of 23
	Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
74.40 - 75.90				93	90	53						
74.32 - 76.38							30 80 175					
75.80 - 75.90							NR		75.80m to 75.90m; assumed zone of core loss.			
75.90 - 76.38							- - -	76	75.94m to 76.06m; non intact (assumed drilling induced). Recovered as angular and subangular weak dark brownish grey mudstone fragments (<50mm x 60mm x 80mm). Possibly with very closely and closely spaced inclined (10-45 degrees) fractures, planar, smooth, tight, with dark brown and black staining.			
75.90 - 77.40				100	92	88		77	Very weak and weak dark brownish grey mottled dark greenish grey and dark greyish green (glauconitic and indistinctly glauconitic), locally arenaceous, MUDSTONE with frequent burrows (<2mm x 25mm) infilled with grey and greenish grey silty clay, locally pyrite, some to frequent tubular agglutinated foraminifera (<1mm x 8mm), and some to frequent pockets/lenses (<25mm x 40mm) of light greyish brown and light brown silty sand. Sand is fine and medium, light greyish brown and light brown. Fractures are medium and widely spaced becoming closely spaced, locally extremely closely and very closely spaced, inclined (15-90 degrees), planar, smooth, polished and striated (possibly sheared), very tight and tight, locally partly open and open, locally infilled (<2mm) with light greyish brown and dark greyish brown clayey silt or greenish grey silty fine sand, with dark brown and black, locally dark greenish grey, staining. Partially weathered. [LISTA FORMATION, ORMESBY CLAY MEMBER, OC3]	76.38 (2.24)	-82.43	
76.38 - 78.21							10 200 960	78	76.86m to 77.07m; arenaceous, with frequent to abundant dark greyish green fine and medium sand sized glauconite grains. At 77.45m; with 4 No. burrow (<1mm x 10mm) infilled/ replaced by pyrite. 77.66m to 77.82m; arenaceous. 78.21m to 78.62m; fractures are closely spaced.			
77.40 - 78.90				100	100	96						
78.21 - 78.62							65 90 100					
78.62 - 79.42							- 800 -	79	Very weak and weak dark brownish grey mottled dark greenish grey and dark greyish green (glauconitic and indistinctly glauconitic) arenaceous MUDSTONE with possibly extremely closely to closely spaced indistinct thin laminae of light greyish brown and light brown silty fine and medium sand, with frequent burrows (<1mm x 50mm) infilled with light grey and greenish grey silty clay, locally pyrite, some to frequent tubular agglutinated foraminifera (<1mm x 5mm), some to frequent pockets/lenses (<20mm x 40mm) of light greyish brown and light brown silty sand, and occasional to some pockets/lenses (<20mm x 35mm) of dark green highly glauconitic clay. Sand is fine and medium, light greyish brown and light brown. Fissures are widely spaced becoming medium spaced, locally very closely spaced, inclined (10-50 degrees), planar, rough, open, infilled (<2mm) with light greyish brown and light brown silty fine and medium sand. Partially weathered. [LISTA FORMATION, ORMESBY CLAY MEMBER,	78.62 (1.48)	-84.67	
78.90 - 80.40				100	100	95						
79.42 - 80.10							60 220 400					

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Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 17 of 23
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									OC3] At 78.83m; with 1 No. rounded medium gravel sized clast of light yellowish brown slightly weathered chert, with dark brownish grey coating. 79.50m to 80.10m; with some pockets/lenses (<15mm x 25mm) of dark green glauconite. At 79.70m; with burrows (<1mm x 50mm) infilled/ replaced by pyrite.	80.10	-86.15	
80.10 - 81.26							40 180 240	81	Very weak and weak dark brownish grey indistinctly mottled dark greenish grey and dark greyish green (indistinctly glauconitic) MUDSTONE with frequent burrows (<2mm x 25mm) infilled with light grey and greenish grey silty clay and clayey silt, and some to frequent tubular agglutinated foraminifera (<1mm x 3mm). Fractures are closely and medium spaced, locally very closely spaced, inclined (5-70 degrees) planar, smooth, locally rough, locally polished and striated (possibly sheared), partly open, locally very tight and tight, infilled (<1mm) with light greyish brown and brown, locally greenish grey, silty fine and medium sand, locally with dark greenish grey staining. Partially weathered. [LISTA FORMATION, ORMESBY CLAY MEMBER, OC3]	(1.16)		
80.40 - 81.90				89	89	84						
81.26 - 81.74							90 200 260		80.40m to 80.82m; with possibly extremely closely to closely spaced indistinct thin laminae of light greyish brown and light brown silty fine and medium sand, with some pockets/lenses (<20mm x 40mm) of light greyish brown and light brown silty fine and medium sand.	81.26	-87.31	
81.74 - 81.90							NR			(0.64)		
									Very weak and weak dark brownish grey MUDSTONE with possibly extremely closely to closely spaced thin laminae of light greyish brown and light brown silty fine and medium sand, with some tubular foraminifera (<1mm x 2mm), some pockets/lenses (<20mm x 60mm) of light greyish brown and light brown silty fine and medium sand, and frequent burrows (<1mm x 5mm) possibly infilled with light grey silty clay and clayey silt. Fractures are closely and medium spaced, inclined (15 degrees and 75 degrees), planar, smooth and rough, locally polished, very tight to partly open, infilled (<0.5mm) with light greyish brown, light grey and light brown silty fine sand. Partially weathered. Possible Lista Formation, Ormesby Clay Member, OC3/OC2. [LISTA FORMATION, ORMESBY CLAY MEMBER, OC2]	81.90	-87.95	
81.90 - 82.24							- 340 -	82		(0.34)		
82.24 - 82.92							-			82.24	-88.29	
81.90 - 83.40				100	100	95	700 -			(0.97)		
82.92 - 83.21							70 70 170	83	81.74m to 81.90m; assumed zone of core loss.			
									Very weak and weak dark brownish grey and grey indistinctly mottled dark greenish grey (indistinctly glauconitic) MUDSTONE with frequent to abundant burrows (<1mm x 35mm) possibly infilled with light grey silty clay and clayey silt, some to frequent pockets/lenses (<25mm x 50mm) of light greyish brown and light brown silty fine and medium sand, and occasional foraminifera (<1mm x 2mm). Natural fractures not observed. [LISTA FORMATION, ORMESBY CLAY MEMBER, OC2]	83.21	-89.26	
83.21 - 83.78							30 50 105			(0.97)		
83.78 - 84.18							85 210 210	84				
83.40 - 84.90				100	95	87			Very weak and weak dark reddish brown indistinctly mottled grey MUDSTONE, with possibly very closely and closely spaced indistinct thin laminae of light reddish brown silty fine and medium sand, with frequent to abundant burrows (<1mm x 35mm) infilled with light reddish brown and light grey silty clay and clayey silt, some to frequent pockets/lenses (<25mm x 50mm) of light reddish brown silty fine and medium sand, and occasional foraminifera (<1mm x 2mm). Fractures are widely becoming closely spaced, inclined (10-60 degrees), planar, rough, very tight and locally tight, locally with black staining/mottling. Partially weathered. [LISTA FORMATION, ORMESBY CLAY MEMBER, OC3]	84.18	-90.23	
84.18 - 84.90							40 200 280			(0.72)		
									Very weak and weak dark reddish brown indistinctly mottled brownish red MUDSTONE, with abundant	84.90	-90.95	

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 18 of 23
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
84.90 - 85.58							300 - 380		randomly orientated burrows (<1mm x 35mm) infilled with light reddish brown and light greenish grey silty clay and clayey silt, some pockets/lenses (<10mm x 25mm) of light reddish brown silty fine and medium sand, and rare to occasional foraminifera (<1mm x 2mm). Fractures are very closely to medium spaced, inclined (0-70 degrees), planar, smooth and rough, locally polished and striated (possibly sheared), very tight and tight, locally open, locally infilled (<1mm) with light reddish brown silty fine and medium sand, with rare black staining/mottling. Partially weathered. [LISTA FORMATION, ORMESBY CLAY MEMBER, OC2]	(0.68)		
85.58 - 85.66				58	45	45	NA			85.58	-91.63	
84.90 - 86.40										(0.08)		
85.66 - 85.77							NA			85.66	-91.71	
										(0.11)		
										85.77	-91.82	
85.77 - 86.40							NR	86	Very weak and weak dark greenish grey and dark grey (glauconitic), locally indistinctly mottled dark reddish brown, arenaceous MUDSTONE with extremely closely to closely spaced indistinct thin and thick laminae of light grey and dark grey silty fine and medium sand, with frequent burrows (<2mm x 10mm) infilled with light grey silt, and some pockets/lenses (<10mm x 25mm) of light grey and dark grey silty fine and medium sand. Sand is fine and medium. Fractures are closely and medium spaced, inclined (5-20 degrees and 55 degrees), planar, rough, locally polished and striated (possibly sheared), partly open and open, locally very tight, infilled (<1mm) with greenish grey and grey (glauconitic) silty fine sand. Unweathered. [LISTA FORMATION, ORMESBY CLAY MEMBER, OC1]	(0.63)		
										86.40	-92.45	
86.71 - 87.08	C	15										
87.08 - 87.16	D	28						87				
86.40 - 87.90				100	100	100			Very weak and weak dark greyish green mottled dark green (glauconitic becoming very glauconitic) arenaceous MUDSTONE becoming arenaceous slightly conglomeratic and conglomeratic MUDSTONE. Sand is fine and medium. Clasts are subrounded to well rounded fine to coarse gravel sized of yellowish brown slightly weathered chert/flint. Fracture is subhorizontal, planar, rough, open, locally infilled (<1mm) with greenish grey and grey (glauconitic) silty fine sand. Unweathered. [LISTA FORMATION, ORMESBY CLAY MEMBER, OC1] 85.20m to 85.38m; slightly conglomeratic. 85.38m to 85.58m; conglomeratic. Clasts are medium and coarse gravel sized chert/flint, with some to frequent subangular and subrounded fine and medium gravel sized very weak dark green (glauconitic) claystone.			
86.40 - 88.65							920 - 1330			(2.25)		
87.90 - 88.65				100	92	92		88	Recovered as dark greyish green (very glauconitic), locally brown, slightly sandy slight clayey GRAVEL (assumed drilling disturbed). Sand is fine and medium. Gravel is angular to rounded, occasionally elongated, medium and coarse of yellowish brown chert/flint and black flint. Ormesby Clay Member, OC1, Bullhead Beds. [LISTA FORMATION, ORMESBY CLAY MEMBER, OC1] At 85.66m; inclined (25-30 degrees) boundary.			
										88.65	-94.70	
88.65 - 89.20							40 - 510		Possibly Structureless CHALK. Recovered as soft and firm greyish white clayey silt (comminuted chalk), with frequent angular and subangular black and dark greenish grey (glauconitic), slightly weathered and moderately weathered medium and coarse gravel sized flint fragments. Possible CIRIA Grade Dm. Possible Beeston Chalk. [BEESTON CHALK]			
88.65 - 89.40				100	64	64		89				
89.20 - 89.40							NI			(1.40)		
89.40 - 90.05							30 150 170		Clay/chalk/flint (Driller's description). ASSUMED ZONE OF CORE LOSS. Very weak and weak, locally weak and moderately weak, low and medium density, locally high density, off white CHALK with some randomly orientated burrows/ pockets/lenses (<35mm x 65mm) of grey and light grey marly chalk, and rare thin beds of weak and moderately weak high density, locally nodular, chalk			

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

FUGRO	Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
	Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**
	Fugro Reference	G190016U	Water Depth (m Datum)	NR	
	Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 19 of 23
	Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
89.40 - 90.90				100	100	98			(hardground). Fracture is inclined (25 degrees), planar, rough, tight, with slight light brown, locally dark grey, staining. CIRIA Grade undetermined. Possible Beeston Chalk Member. [BEESTON CHALK] 86.40m to 86.46m; non intact (assumed drilling induced). Recovered as angular and subangular chalk fragments (<20mm x 30mm x 40mm). At 86.71m; with 1 No. small nodular flint (20mm x 30mm). 87.14m to 87.70m; with some to frequent black (locally phosphatic) sponge fragments (<5mm x 15mm x 20mm). 87.70m to 87.80m; thin bed of chalk (hardground), with occasional sponge casts (<20mm x 20mm) and occasional dark orangish brown staining (possible sponges). 88.01m to 88.09m; non intact (assumed drilling induced). Recovered as angular and subangular chalk fragments (<10mm x 20mm x 30mm). 88.09m to 88.16m; thin bed of chalk (hardground), with 1 No. black (locally phosphatic) sponge fragment (10mm x 10mm). 88.29m to 88.35m; thin bed of rarely nodular chalk (hardground), with occasional black (locally phosphatic) sponge fragments (<10mm x 20mm), and 1 No. greenish grey (possibly phosphatic/glauconitic) nodule (25mm x 30mm). 88.59m to 88.65m; non intact (assumed drilling disturbed). Recovered as subrounded fragments (<30mm x 40mm x 50mm) of extremely weak and weak greyish white marly chalk.	90.05 (1.75)	-96.10	
90.53 - 90.60	D	29										
90.60 - 90.90	C	16										
90.05 - 91.50							- 1460 -	91				
90.90 - 92.40				60	60	47	90					
91.50 - 91.80							95 105			91.80	-97.85	
91.80 - 92.40							NR	92	Weak and moderately weak, locally very weak and weak, very high density, locally medium density, off white mottled dark greenish grey, grey and dark orangish brown CHALK (hardground) with some to frequent dark orangish brown staining (possible sponges), some dark greenish grey and grey (possibly phosphatic/glauconite coated) nodules (<60mm x 60mm x 100mm), occasional randomly orientated burrows (<10mm x 50mm) infilled with grey and light grey marly chalk, and occasional black (locally phosphatic) sponge fragments (<10mm x 20mm). Fractures are very closely to medium spaced, inclined (15-25 degrees and 70-90 degrees), planar, rough, locally striated (possibly sheared), very tight and tight, with yellowish brown and yellowish grey staining. CIRIA Grade B4 to B2. Possible Weybourne Chalk, Catton Sponge Bed. [WEYBOURNE CHALK] At 88.68m; with 1 No. possible belemnite fragment (Belemnitella) (15mm x 25mm). 88.78m to 88.85m; non intact (assumed drilling disturbed). Recovered as angular, rarely subrounded, fragments (<40mm x 60mm x 60mm) of weak and moderately weak high density greyish white mottled greenish grey and light brown chalk (hardground), with dark yellowish brown, greenish grey and grey (locally glauconitic) staining. 89.20m to 89.40m; non intact (assumed drilling disturbed). Recovered as angular and subangular, rarely subrounded, fragments (<30mm x 40mm x 40mm) of weak and moderately weak high density greyish white mottled light brown chalk (hardground), locally with grey staining. 89.40m to 89.69m; very weak and weak medium density off white mottled light grey and grey.	(0.60)		
93.07 - 93.44	C	17						93		92.40	-98.45	
92.40 - 93.90				97	97	97	40					
92.40 - 93.97							320 835					
93.44 - 93.50	D	30										
93.90 - 95.40				100	100	100		94	Very weak and weak low and medium density off white CHALK with some to frequent randomly orientated burrows (<30mm x 45mm) and some pockets/lenses (<20mm x 20mm) infilled with grey and light grey marly chalk, and rare possibly medium and large nodular flint. Fractures are possibly widely becoming closely spaced, inclined (0-15 degrees), planar and undulating, rough, tight, with grey staining. Possible CIRIA Grade B1 becoming B3. Possible Weybourne Chalk. [WEYBOURNE CHALK] 90.21m to 90.30m; non intact (assumed drilling induced). Recovered as angular and subangular chalk fragments (<40mm x 45mm x 50mm). 90.90m to 91.00m; with occasional angular flint			

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

FUGRO	Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
	Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**
	Fugro Reference	G190016U	Water Depth (m Datum)	NR	
	Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 20 of 23
	Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									fragments (<8mm x 10mm x 15mm) (assumed drilling fragmented). 91.13m to 91.19m; non intact (assumed drilling induced). Recovered as subangular chalk fragments (<20mm x 20mm x 35mm), with occasional off white comminuted chalk (clayey silt), and 1 No. flint fragment (40mm x 70mm x 80mm) (assumed drilling fragmented), possibly medium nodular flint. 91.19m to 91.26m; with slight light yellowish brown staining. 91.26m to 91.37m; with 1 No. large nodular flint (110mm x full core diameter), locally with rare to occasional off white comminuted chalk (clayey silt).	(5.40)		
95.77 - 95.83 95.83 - 96.13 93.97 - 97.80	D C	31 18					30 600 1300		Chalk/flints (Driller's description). ASSUMED ZONE OF CORE LOSS.			
95.40 - 96.90				98	98	98		96	Very weak and weak low and medium density off white CHALK with frequent to abundant randomly orientated mainly networked burrows and lobes (<20mm x 100mm) and some pockets/lenses (<40mm x 50mm) infilled with grey and light grey marly chalk, and rare to occasional possibly very small to medium nodular flint. Fractures are medium and widely spaced, locally closely spaced, inclined (5-15 degrees and 90 degrees), planar and undulating, rough, very tight and tight, with occasional brown, grey and black staining. Possible CIRIA Grade B1/B2, locally B3. Possible Weybourne Chalk. [WEYBOURNE CHALK] At 93.07m; with 1 No. possible belemnite fragment (Belemnitella) (13mm x 60mm). At 95.12m; with 1 No. subrounded possible glauconite nodule (10mm x 10mm). 95.49m to 95.58m; with 1 No. medium nodular flint (90mm x full core diameter). At 96.58m; with 1 No. small elongated nodular flint (15mm x 25mm x 49mm).			
96.90 - 98.40				100	100	100		97	97.30m to 97.39m; non intact (assumed drilling induced). Recovered as subangular chalk fragments (<30mm x 40mm x 60mm), with occasional off white comminuted chalk (clayey silt), with 1 No. flint fragment (50mm x 70mm x 80mm) (assumed drilling fragmented), possibly medium nodular flint. At 97.50m; with 1 No. very small nodular flint (20mm x 20mm). 97.65m to 97.72m; non intact (assumed drilling induced). Recovered as angular and subangular chalk fragments (<40mm x 40mm x 50mm).	97.80 (0.17)	-103.85	
97.80 - 97.97							- 170			97.97	-104.02	
							-	98	Weak and moderately weak medium to very high density off white, locally mottled light greyish brown (possibly slightly glauconitic), CHALK (hardground), locally nodular and locally phosphatic chalk. Natural fractures not observed. CIRIA Grade undetermined. Possible Pre-Weybourne Chalk. [PRE-WEYBOURNE CHALK]			
98.49 - 98.55 98.55 - 98.89	D C	32 19							Very weak and weak low and medium density off white CHALK with frequent to abundant networked burrows and lobes (<20mm x 90mm) and frequent pockets/ lenses (<50mm x 60mm) infilled with grey and light grey marly chalk, and rare to occasional flint fragments (<50mm x 70mm x 90mm) (assumed drilling fragmented), possibly small and medium nodular flint. Fractures are possibly medium and wide spaced,			
97.97 - 100.08							140 600	99	locally closely spaced, inclined (0-30 degrees and 90 degrees), planar and locally undulating, rough, very tight and locally tight, locally with dark greenish grey (possibly glauconitic) staining. Possible CIRIA Grade A2/A1 locally B3/A3. Possible Pre-Weybourne Chalk. [PRE-WEYBOURNE CHALK]			
98.40 - 99.90				97	97	97	910		97.97m to 98.01m; non intact (assumed drilling induced). Recovered as subangular chalk fragments (<30mm x 30mm x 35mm). At 99.28m; with 1 No. possible belemnite fragment (Belemnitella) (10mm x 20mm). 99.53m to 99.75m; non intact (assumed drilling induced). Recovered as subangular and subrounded chalk fragments (<80mm x 80mm x 95mm), with occasional to some off white comminuted chalk (clayey silt), and 1 No. flint fragment (30mm x 50mm x 50mm) (assumed drilling	(3.15)		

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 21 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									fragmented), possibly small nodular flint. At 99.80m; with 1 No. subrounded possible glauconite nodule (10mm x 20mm).			
100.08 - 101.12 99.90 - 101.40				81	81	81	300 330 400		100.29m to 100.38m; non intact (assumed drilling induced). Recovered as subangular and subrounded chalk fragments (<20mm x 30mm x 40mm), and 1 No. flint fragment (30mm x 60mm x 70mm) (assumed drilling fragmented), possibly medium nodular flint. At 100.49m; with 1 No. medium nodular flint (50mm x 75mm x 90mm). At 100.78m; with 1 No. flint fragment (30mm x 60mm x 60mm) (assumed drilling fragmented), possibly medium nodular flint.			
								101				
101.12 - 101.40							NR		Chalk/flints (Driller's description). ASSUMED ZONE OF CORE LOSS.	101.12 (0.28) 101.40	-107.17 -107.45	
102.03 - 102.33 101.40 - 102.90	C	20		100	100	100		102	Very weak and weak low and medium density off white CHALK with frequent mainly networked burrows and lobes (<35mm x 100mm) and frequent pockets/lenses (<50mm x 60mm) infilled with grey and light grey marly chalk, and rare to occasional flint fragments (<90mm x 160mm) (assumed drilling fragmented), possibly medium to very large nodular flint. Fractures are closely to widely spaced, locally very closely spaced, inclined (0-25 degrees and 75-90 degrees), planar and undulating, rough, locally polished, very tight and tight, locally with yellowish brown and rare black staining. CIRIA Grade A3 to A1, locally B4/B3. Possible Pre-Weybourne Chalk. [PRE-WEYBOURNE CHALK]			
102.33 - 102.39	D	33							101.62m to 101.72m; with 1 No. medium nodular flint (90mm x 100mm). 101.72m to 101.79m; non intact (assumed drilling induced). Recovered as subangular and subrounded chalk fragments (<20mm x 30mm x 40mm), and 1 No. flint fragments (30mm x 40mm x 70mm) (assumed drilling fragmented), possibly medium nodular flint. 102.64m to 102.90m; non intact (assumed drilling induced). Recovered as angular and subangular chalk fragments (<30mm x 55mm x 70mm).			
101.40 - 103.86							220 365 1350					
								103	At 103.15m; with slight yellowish brown staining.			
102.90 - 104.40				97	82	82						
									103.85m to 103.94m; with frequent black staining, possible sponge (<30mm x 35mm).			
								104	103.94m to 104.02m; non intact (assumed drilling induced). Recovered as angular and subangular chalk fragments (<10mm x 10mm x 25mm).			
										(6.12)		
103.86 - 105.61							50 170 1070		104.60m to 104.76m; with 1 No. flint fragment (90mm x 160mm) (assumed drilling fragmented), possibly very large nodular flint.			
104.93 - 105.19	C	21							104.88m to 104.93m; non intact (assumed drilling induced). Recovered as angular and subangular chalk			

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 22 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									fragments (<10mm x 10mm x 25mm).			
104.40 - 105.90 105.19 - 105.26	D	34		93	89	89						
105.61 - 105.80							- 190					
105.80 - 105.90							- NR		105.80m to 105.90m; assumed zone of core loss.			
								106				
105.90 - 107.40 105.90 - 107.52				95	95	95	365 595 660		106.59m to 106.69m; non intact (assumed drilling induced). Recovered as subangular and subrounded chalk fragments (<20mm x 30mm x 30mm), and 1 No. flint fragment (70mm x 100mm) (assumed drilling fragmented), possibly medium nodular flint.			
								107				
									107.32m to 107.40m; assumed zone of core loss.			
									Chalk/flints (Driller's description). ASSUMED ZONE OF CORE LOSS.	107.52	-113.57	
								108				
107.40 - 108.90				8	8	8						
107.52 - 109.10							NR			(1.58)		
								109				
									Very weak and weak medium density off white CHALK with frequent burrows (<20mm x 50mm) and frequent pockets/possible lenses (<50mm x 60mm) infilled with grey and light grey marly chalk, and rare flint fragments (<140mm x full core diameter) (assumed drilling fragments), possibly medium and large nodular flint. Fractures are medium spaced, locally closely spaced, inclined (10-20 degrees and 90 degrees), planar and undulating, rough, very tight and locally tight, locally with black staining. CIRIA Grade A2, locally A3. Possible Pre-Weybourne Chalk. [PRE-WEYBOURNE CHALK]	109.10	-115.15	
108.90 - 110.40				87	87	87						
109.10 - 110.40							110 300 500			(1.30)		
									109.10m to 109.22m; non intact (assumed drilling			

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 23 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									induced). Recovered as 1 No. flint fragment (90mm x full core diameter), possibly medium nodular flint, with frequent off white comminuted chalk (clayey silt). 109.55m to 109.82m; non intact (assumed drilling induced). Recovered as subangular and subrounded chalk fragments (<40mm x 50mm x 60mm), and 1 No. flint fragment (<140mm x full core diameter), possibly large nodular flint.	110.40	-116.45	
									End of Borehole at 110.40 m			
								111				
								112				
								113				
								114				

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	Contract Name	SZC 2019 Offshore Ground Investigation		Location ID
	Client	NNB Generation Company (SZC) Limited		**IT1_SPT_04**
	Fugro Reference	G190016U		
	Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum) -6.05	Sheet 1 of 23
	Hole Type	Discontinuity Log		Status Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
0.00 - 26.00								Rotary drilling (NCD).			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**
Fugro Reference	G190016U			
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 2 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									6 7 8 9		

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**
Fugro Reference	G190016U			
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 3 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									11		
									12		
									13		
									14		

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**
Fugro Reference	G190016U			
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 4 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									16 17 18 19		

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**
Fugro Reference	G190016U			
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 5 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									21		
									22		
									23		
									24		

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**
Fugro Reference	G190016U			
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 6 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
26.00 - 110.40								Rotary drilling (Geobor).	26 27 28 29		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

	Contract Name	SZC 2019 Offshore Ground Investigation		Location ID
	Client	NNB Generation Company (SZC) Limited		**IT1_SPT_04**
	Fugro Reference	G190016U		
	Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum) -6.05	Sheet 7 of 23
	Hole Type	Discontinuity Log		Status Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									31		
									32		
									33		
									34		

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**
Fugro Reference	G190016U			
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 8 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									36		
									37		
									38		
									39		

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	Contract Name	SZC 2019 Offshore Ground Investigation		Location ID
	Client	NNB Generation Company (SZC) Limited		**IT1_SPT_04**
	Fugro Reference	G190016U		
	Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum) -6.05	Sheet 9 of 23
	Hole Type	Discontinuity Log		Status Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									41		
									42		
									43		
									44		

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

	Contract Name	SZC 2019 Offshore Ground Investigation		Location ID
	Client	NNB Generation Company (SZC) Limited		**IT1_SPT_04**
	Fugro Reference	G190016U		
	Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum) -6.05	Sheet 10 of 23
	Hole Type	Discontinuity Log		Status Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									46		
									47		
									48		
									49		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**
Fugro Reference	G190016U			
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 11 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									51		
									52		
									53		
									54		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**
Fugro Reference	G190016U			
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 12 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									56		
									57		
									58		
									59		

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**
Fugro Reference	G190016U			
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 13 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									61		
									62		
									63		
									64		

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**
Fugro Reference	G190016U			
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 14 of 23
Hole Type	Discontinuity Log			Status: Draft

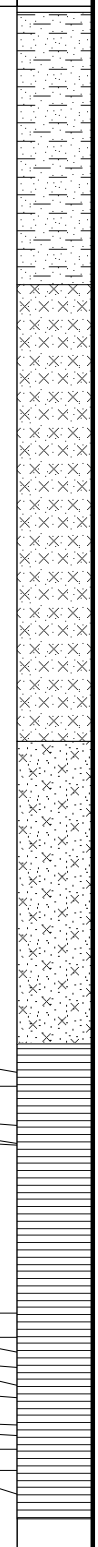
Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									66		
									67		
									68		
									69		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**
Fugro Reference	G190016U			
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 15 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
73.43								Top of mudstone.			
73.48 - 73.57	J	60		Tight	Planar	Smooth		With dark brown and black staining.		60 °	
73.57	BF	0		Very tight	Planar	Smooth				0 °	
73.68 - 73.72	J	30		Tight	Planar	Smooth		With dark brown and black staining.		30 °	
73.72 - 73.80	J	50		Tight	Planar	Smooth		Smooth and polished, with dark brown and black staining.		50 °	
73.75 - 73.78	J	30		Very tight	Undulating	Smooth		Smooth and polished.		30 °	
74.32	BF	0		Very tight	Planar	Smooth				0 °	
74.40	BF	0		Very tight	Planar	Smooth				0 °	
74.40 - 74.50	J	60		Tight	Stepped	Smooth		Smooth and polished, with slight brown and black staining.		60 °	
74.48 - 74.52	J	30		Tight	Planar	Polished		With slight brown staining.		30 °	
74.50 - 74.62	J	60		Tight	Planar	Polished		Polished and striated (possibly sheared), with dark brown and black staining.		60 °	
74.58 - 74.62	J	30		Tight	Planar	Smooth		With dark brown and black staining.		30 °	
74.68 - 74.70	J	40		Tight	Planar	Polished		Polished and striated (possibly sheared), with slight brown and black staining.		40 °	
74.71 - 74.74	J	40		Tight	Planar	Smooth		Smooth and polished, with slight brown and black staining.		40 °	
74.77	BF	0		Tight	Planar	Smooth		Smooth and polished, with slight brown and black staining.		0 °	
74.84	BF	10		Tight	Planar	Smooth		Smooth and polished, with slight brown and black staining.		10 °	
74.84 - 75.00	J	70		Very tight	Planar	Smooth		Smooth and polished.		70 °	



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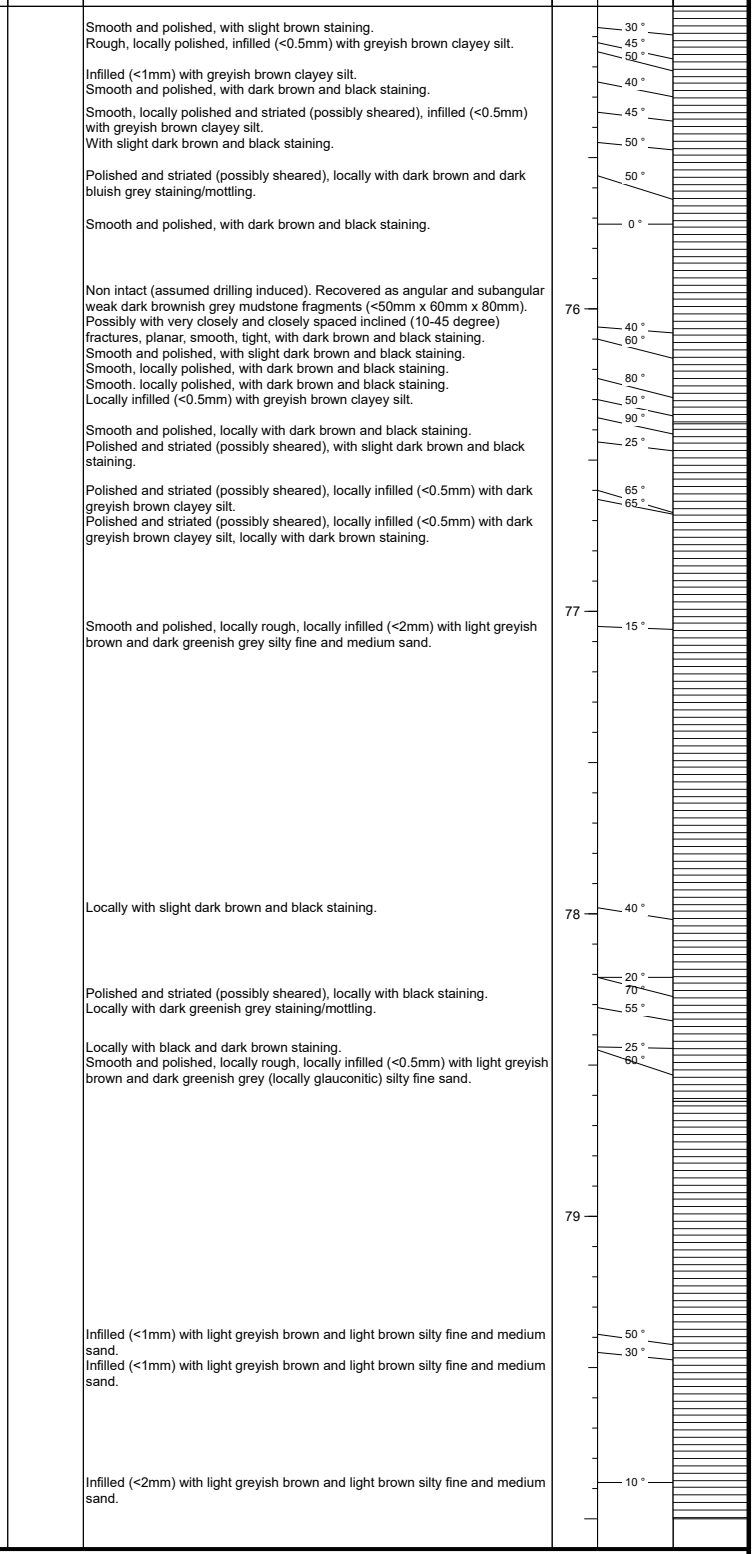
- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**
Fugro Reference	G190016U			
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 16 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details

Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks
75.07 - 75.12	J	30		Tight	Planar	Smooth		Smooth and polished, with slight brown staining.
75.12 - 75.23	J	45		Partly Open	Planar	Rough		Rough, locally polished, infilled (<0.5mm) with greyish brown clayey silt.
75.15 - 75.28	J	50		Open	Planar	Rough		Infilled (<1mm) with greyish brown clayey silt.
75.25 - 75.35	J	40		Tight	Planar	Smooth		Smooth and polished, with dark brown and black staining.
75.35 - 75.41	J	45		Partly Open	Planar	Smooth		Smooth, locally polished and striated (possibly sheared), infilled (<0.5mm) with greyish brown clayey silt.
75.45 - 75.50	J	50		Tight	Planar	Smooth		With slight dark brown and black staining.
75.56 - 75.72	J	50		Tight	Planar	Polished		Polished and striated (possibly sheared), locally with dark brown and dark bluish grey staining/mottling.
75.72	BF	0		Tight	Planar	Smooth		Smooth and polished, with dark brown and black staining.
75.94 - 76.06								Non intact (assumed drilling induced). Recovered as angular and subangular weak dark brownish grey mudstone fragments (<50mm x 60mm x 80mm). Possibly with very closely and closely spaced inclined (10-45 degree) fractures, planar, smooth, tight, with dark brown and black staining.
76.06 - 76.10	J	40		Tight	Planar	Smooth		Smooth and polished, with slight dark brown and black staining.
76.10 - 76.23	J	60		Tight	Planar	Smooth		Smooth, locally polished, with dark brown and black staining.
76.23 - 76.36	J	80		Tight	Planar	Smooth		Smooth. locally polished, with dark brown and black staining.
76.30 - 76.41	J	50		Partly Open	Planar	Striated		Locally infilled (<0.5mm) with greyish brown clayey silt.
76.36 - 76.47	J	90		Tight	Planar	Smooth		Smooth and polished, locally with dark brown and black staining.
76.44 - 76.50	J	25		Tight	Planar	Polished		Polished and striated (possibly sheared), with slight dark brown and black staining.
76.60 - 76.75	J	65		Partly Open	Planar	Polished		Polished and striated (possibly sheared), locally infilled (<0.5mm) with dark greyish brown clayey silt.
76.63 - 76.73	J	65		Partly Open	Planar	Polished		Polished and striated (possibly sheared), locally infilled (<0.5mm) with dark greyish brown clayey silt, locally with dark brown staining.
77.05 - 77.07	BF	15		Open	Planar	Smooth		Smooth and polished, locally rough, locally infilled (<2mm) with light greyish brown and dark greenish grey silty fine and medium sand.
77.98 - 78.06	J	40		Tight	Planar	Smooth		Locally with slight dark brown and black staining.
78.21	BF	20		Very tight	Planar	Smooth		
78.21 - 78.34	J	70		Tight	Planar	Polished		Polished and striated (possibly sheared), locally with black staining.
78.31 - 78.40	J	55		Tight	Planar	Striated		Locally with dark greenish grey staining/mottling.
78.44 - 78.45	J	25		Tight	Planar	Smooth		Locally with black and dark brown staining.
78.45 - 78.62	J	60		Partly Open	Planar	Smooth		Smooth and polished, locally rough, locally infilled (<0.5mm) with light greyish brown and dark greenish grey (locally glauconitic) silty fine sand.
79.39 - 79.46	J	50		Open	Planar	Rough		Infilled (<1mm) with light greyish brown and light brown silty fine and medium sand.
79.45 - 79.50	J	30		Open	Planar	Rough		Infilled (<1mm) with light greyish brown and light brown silty fine and medium sand.
79.88	BF	10		Open	Planar	Rough		Infilled (<2mm) with light greyish brown and light brown silty fine and medium sand.

Discontinuity Information



Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**
Fugro Reference	G190016U			
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 17 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
80.12 - 80.40	J	70		Partly Open	Planar	Rough		Rough, locally smooth and polished, infilled (<1mm) with light greyish brown and light brown, locally dark greenish grey (glauconitic), silty fine and medium sand.		70 °	
80.30	BF	5		Tight	Planar	Smooth		With slight dark greenish grey (glauconitic) staining.		5 °	
80.45 - 80.54	J	50		Partly Open	Planar	Smooth		Locally Infilled (<0.5mm) with light greyish brown and light brown, locally dark greenish grey (glauconitic), silty fine sand.		50 °	
80.62 - 80.68	J	30		Partly Open	Planar	Smooth		Locally Infilled (<0.5mm) with light greyish brown and light brown, locally dark greenish grey (glauconitic), silty fine sand.		30 °	
80.82 - 80.89	J	40		Partly Open	Planar	Rough		Rough, locally smooth, locally infilled (<0.5mm) with light greyish brown and light brown silty fine sand.		40 °	
80.95	BF	5		Very tight	Planar	Smooth				5 °	
									81		
81.16 - 81.22	J	40		Very tight	Planar	Polished		Polished and striated (possibly sheared).		40 °	
81.18 - 81.32	J	50		Partly Open	Planar	Polished		Polished and striated (possibly sheared), locally infilled (<0.5mm) with light greyish brown and light brown silty fine sand.		50 °	
81.38 - 81.41	BF	15		Very tight	Planar	Smooth		Smooth, locally polished.		15 °	
81.40 - 81.56	J	75		Partly Open	Planar	Rough		Locally infilled (<0.5mm) with light greyish brown light grey and light brown silty fine sand.		75 °	
81.74 - 81.90								Assumed zone of core loss.			
81.90 - 82.24								Natural fractures not observed.			
									82		
82.86 - 82.92	J	35		Very tight	Planar	Rough				35 °	
									83		
83.06	BF	10		Very tight	Planar	Rough				10 °	
83.06 - 83.21	J	60		Tight	Planar	Rough		Locally with black staining/mottling.		60 °	
83.21 - 83.40	J	65		Tight	Planar	Rough		Locally with black staining/mottling.		65 °	
83.41	BF	0		Tight	Planar	Smooth		Locally with black staining/mottling.		0 °	
83.46	BF	5		Tight	Planar	Smooth		Locally with black staining/mottling.		5 °	
83.51	BF	10		Tight	Planar	Smooth		Locally with black staining/mottling.		10 °	
83.54	BF	5		Tight	Planar	Smooth		Locally with black staining/mottling.		5 °	
83.61 - 83.68	J	45		Tight	Planar	Rough		Locally with black staining/mottling.		45 °	
83.61 - 83.78	J	50		Tight	Planar	Smooth		Locally with black staining/mottling.		50 °	
83.78 - 84.00	J	70		Open	Curviplanar	Polished		Polished and striated (possibly sheared), locally infilled (<1mm) with light reddish brown silty fine and medium sand.		70 °	
									84		
84.08 - 84.11	BF	10		Very tight	Planar	Rough				10 °	
84.23 - 84.37	J	55		Very tight	Planar	Polished		Polished and striated (possibly sheared).		55 °	
84.37	BF	20		Partly Open	Planar	Rough		Locally infilled (<0.5mm) with greenish grey and grey (glauconitic) silty fine sand.		20 °	
84.65	BF	10		Partly Open	Planar	Rough		Locally infilled (<0.5mm) with greenish grey and grey (glauconitic) silty fine sand.		10 °	
84.86	BF	5		Open	Planar	Rough		Locally infilled (<1mm) with greenish grey and grey (glauconitic) silty fine sand.		5 °	

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**	
Fugro Reference	G190016U				
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 18 of 23	
Hole Type	Discontinuity Log			Status	Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
85.18 - 85.22	BF	10		Open	Planar	Rough		Locally infilled (<1mm) with greenish grey and grey (glauconitic) silty fine sand.		10 °	
85.66								Top of chalk.			
85.77 - 86.40								Assumed zone of core loss.			
									86		
									87		
87.70 - 87.75	BF	25		Tight	Planar	Rough		With slight light brown, locally dark grey, staining.		25 °	
									88		
88.59 - 88.65								Non intact (assumed drilling disturbed). Recovered as subrounded fragments (<30mm x 40mm x 50mm) of extremely weak and weak greyish white marly chalk.			
88.78 - 88.85								Non intact (assumed drilling disturbed). Recovered as angular, rarely subrounded, fragments (<40mm x 60mm x 60mm) of weak and moderately weak high density greyish white mottled greenish grey and light brown chalk (hardground), with dark yellowish brown, greenish grey and grey (locally glauconitic) staining.	89		
89.12 - 89.20	J	90		Tight	Planar	Rough		Locally with yellowish brown staining, possibly sponge remnants (<30mm x 50mm).		90 °	
89.20 - 89.35								Non intact (assumed drilling disturbed). Recovered as angular and subangular, rarely subrounded, fragments (<30mm x 40mm x 40mm) of weak and moderately weak high density greyish white mottled light brown chalk (hardground), locally with grey staining.			
89.40 - 89.60	J	90		Very tight	Planar	Rough		With 2 No. very closely spaced fractures, planar and locally curviplanar, rough, locally striated (possibly sheared), possible incipient, with brownish grey staining.		90 ° 25 °	
89.50 - 89.55	BF	25		Tight	Planar	Rough		Locally with yellowish brown staining.			
89.69 - 89.70	BF	20		Tight	Planar	Rough		Locally with yellowish brown staining.		20 °	
89.75 - 89.81	J	70		Tight	Planar	Rough		Locally with brownish grey staining.		70 °	
89.80 - 89.82	BF	15		Tight	Planar	Rough		Locally with yellowish brown staining.		15 °	
89.81 - 90.00	J	85		Very tight	Planar	Rough		With 2 No. very closely spaced fractures, possibly incipient, with abundant brownish grey staining.		85 °	
89.93 - 89.96	BF	20		Tight	Planar	Rough		Locally with brownish grey staining.		20 °	

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Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**
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Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 19 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									91		
91.50 - 91.52	BF	0		Tight	Undulating	Rough		Locally with grey staining.		0 °	
91.61 - 91.62	BF	5		Tight	Planar	Rough		Planar and undulating, locally with grey staining.		5 °	
91.70 - 91.72	BF	15		Tight	Planar	Rough		Planar, locally undulating, locally with grey staining.		15 °	
91.80 - 92.40								Assumed zone of core loss.	92		
92.43 - 92.44	BF	10		Tight	Planar	Rough		Planar, locally undulating, locally with light grey staining.		10 °	
92.86 - 92.87	BF	5		Tight	Planar	Rough		Planar, locally undulating, locally with light grey and brown staining.		5 °	
									93		
93.67 - 93.73	J	90		Very tight	Planar	Rough		With 2 No. very closely spaced fractures, possibly incipient.		90 °	
93.90 - 93.97	J	90		Very tight	Planar	Rough				90 °	
93.97	BF	5		Very tight	Planar	Rough		Planar, locally undulating.	94	5 °	
94.39 - 94.41	BF	10		Tight	Planar	Rough		Planar and undulating, locally with slight light brown staining.		10 °	
94.67	BF	15		Tight	Planar	Rough		Planar and undulating, locally with slight light brown and black staining.		15 °	
94.95 - 94.98	BF	10		Tight	Planar	Rough		Planar and undulating, locally with slight light brownish grey staining.		10 °	

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Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**	
Fugro Reference	G190016U				
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 20 of 23	
Hole Type	Discontinuity Log			Status	Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
96.26 - 96.27	BF	5		Tight	Undulating	Rough		Locally with grey staining.	96	5 °	
96.49 - 96.51	BF	5		Tight	Undulating	Rough		With light grey staining.		5 °	
97.80 97.80 - 97.97	BF	5		Very tight	Planar	Rough		Planar and undulating, Natural fractures not observed.	97	5 °	
98.12 - 98.16	BF	15		Tight	Planar	Rough		Planar and undulating, locally with dark greenish grey (possibly glauconitic) staining.	98	15 °	
98.95 - 99.24	J	90		Very tight	Planar	Rough		Planar and undulating.		90 °	
99.00 - 99.06	J	30		Very tight	Planar	Rough		Planar and undulating.	99	30 °	
99.15 - 99.19	J	30		Very tight	Planar	Rough		Planar and undulating.		30 °	

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
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Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 21 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
100.08 - 100.10	BF	0		Very tight	Undulating			Possibly drilling induced fracture.		0 °	
100.49	BF	0		Very tight	Planar			Possibly drilling induced fracture, planar and undulating.		0 °	
100.78 - 100.80	BF	10		Very tight	Undulating			Possibly drilling induced fracture.		10 °	
									101		
101.12 - 101.40								Assumed zone of core loss.			
101.40 - 101.53	J	85		Very tight	Planar	Rough		With 2 No. very closely spaced fractures.		85 °	
101.79 - 102.03	J	85		Very tight	Planar	Rough		With 2 No. very closely spaced fractures.		85 °	
									102		
102.60 - 102.64	J	90		Very tight	Planar	Polished				90 °	
102.90 - 103.12	J	90		Very tight	Planar	Rough		With 2 No. conjugating fractures.		90 °	
									103		
103.26	BF	5		Tight	Undulating	Rough		Locally with yellowish brown staining.		5 °	
103.62 - 103.63	BF	10		Tight	Undulating	Rough		Locally with yellowish brown staining.		10 °	
103.83 - 103.86	BF	25		Tight	Undulating	Rough		Locally with black and light yellowish brown staining.		25 °	
103.86 - 103.94	J	85		Tight	Planar	Rough		Locally with light yellowish brown staining.		85 °	
									104		
104.10 - 104.17	J	75		Very tight	Planar	Rough				75 °	

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**	
Fugro Reference	G190016U				
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 22 of 23	
Hole Type	Discontinuity Log			Status	Draft

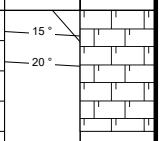
Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
105.20 - 105.21	BF	5		Tight	Undulating	Rough		With slight yellowish brown staining.		5 °	
105.26 - 105.27	BF	5		Tight	Undulating	Rough		With slight yellowish brown staining.		5 °	
105.44	BF	0		Very tight	Planar	Rough		Possibly drilling induced fracture, planar, locally undulating.		0 °	
105.61	BF	0		Very tight	Planar	Rough		Possibly drilling induced fracture, planar, locally undulating.		0 °	
									106		
106.25 - 106.28	BF	25		Very tight	Undulating	Rough				25 °	
106.86	BF	10		Very tight	Undulating	Rough				10 °	
107.00 - 107.10	J	90		Very tight	Planar	Rough		With 3 No. extremely closely and very closely spaced possibly drilling induced fractures, possibly incipient.	107	90 °	
107.52 - 109.10								Assumed zone of core loss.			
									108		
									109		
109.45 - 109.48	BF	20		Tight	Planar	Rough		Planar and undulating, with black staining.		20 °	
109.82 - 110.40	J	90		Very tight	Planar	Rough				90 °	
109.96 - 109.97	BF	10		Very tight	Undulating	Rough				10 °	

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_04**
Fugro Reference	G190016U			
Coordinates (m)	E650005.10 N263453.25	Ground Elevation (m Datum)	-6.05	Sheet 23 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
110.07 - 110.10	BF	15		Very tight	Undulating	Rough					
110.17 - 110.20	BF	20		Very tight	Undulating	Rough					



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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_05**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650532.44 N263347.03	Ground Elevation (m Datum)	-13.69	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	22.00	RO	15/07/2019	15/07/2019	Comacchio : Excalibur	NCD	102mm	JL/JL	MH	
22.00	56.00	RC	15/07/2019	15/07/2019	Comacchio : Excalibur	Geobor	146mm	JL/JL	MH/PC	Switched to Geobor at 22.00m due to ground conditions, core retained from 24.00m as instructed by NNB.

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
15/07/2019	04:40:00	0.00	1.00	Good
15/07/2019	11:45:00	20.00	20.00	
15/07/2019	12:10:00	20.00	20.00	
15/07/2019	23:45:00	56.00	56.00	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
22.00	178	1.00	250
56.00	146	22.00	178
		56.00	146

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)
0.00	0.45	P	100	Grey	00:07
0.45	2.00	P	100	Grey	00:06
2.00	4.00	P	100	Grey	00:07
4.00	6.00	P	100	Grey	00:06
6.00	8.00	P	100	Grey	00:06
8.00	10.00	P	100	Grey	00:08
10.00	12.00	P	100	Grey	00:07
12.00	14.00	P	100	Grey	00:06
14.00	16.00	P	100	Grey	00:05
16.00	18.00	P	100	Grey	00:05
18.00	20.00	P	100	Grey	00:06
20.00	22.00	P	100	Grey	00:06
22.00	24.00	P	100	Grey	00:05
24.00	25.00	P	100	Grey	00:05
25.00	26.00	P	100	Grey	00:04
26.00	27.00	P	100	Grey	00:05
27.00	28.00	P	100	Grey	00:04
28.00	29.00	P	100	Grey	00:04
29.00	30.50	P	100	Grey	00:04
30.50	32.00	P	100	Grey	00:04
32.00	33.50	P	100	Grey	00:04
33.50	35.00	P	100	Grey	00:05
35.00	36.50	P	100	Grey	00:02
36.50	38.00	P	100	Grey	
38.00	39.50	P	100	Grey	
39.50	41.00	P	100	Grey	
41.00	42.50	P	100	Grey	
42.50	44.00	P	100	Grey	
44.00	45.50	P	100	Grey	
45.50	47.00	P	100	Grey	
47.00	48.50	P	100	Grey	
48.50	50.00	P	100	Grey	
50.00	51.50	P	100	Grey	
51.50	53.00	P	100	Grey	
53.00	54.50	P	100	Grey	
54.50	56.00	P	100	Grey	

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
24.00	25.00	102
25.00	26.00	102
26.00	27.00	102
27.00	28.00	102
28.00	29.00	102
29.00	30.50	102
30.50	32.00	102
32.00	33.50	102
33.50	35.00	102
35.00	36.50	102
36.50	38.00	102
38.00	39.50	102
39.50	41.00	102
41.00	42.50	102
42.50	44.00	102
44.00	45.50	102
45.50	47.00	102
47.00	48.50	102
48.50	50.00	102
50.00	51.50	102
51.50	53.00	102
53.00	54.50	102
54.50	56.00	102

General Remarks

1. Deck to mud was 24.10m; deck level was 10.41m above OD. 2. The borehole was drilled adjacent to IT1_SB_05 to achieve the associated SPT data. 3. Geophysical borehole logging was carried out on completion of drilling; results reported separately. 4. Checkshot survey was carried out downhole on completion of drilling; results reported separately. 5. Descriptions of the SPT D samples are based on the disturbed material recovered from the SPT liners; these descriptions alone cannot provide representative information to infer strata descriptions or boundaries; the strata descriptions and boundaries given are based on driller's records only. 6. Core logging was not required; logging of ends of core liners was not carried out.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	AF/CAY	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650532.44 N263347.03	Ground Elevation (m Datum)	-13.69	Sheet 1 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 0.45 0.00 - 0.45	D SPT	1	N = 21 (S)						SAND (Driller's description). 0.00m to 0.45m (300mm recovery); yellow calcrete with sand over possibly medium dense, locally cemented, sand with abundant shell fragments (<1mm x 2mm x 3mm) and 1 No. subangular fragment (2mm x 6mm) of mudstone. Calcareous. Sand is fine to coarse.			
								1				
2.00 - 2.45 2.00 - 2.45	D SPT	2	N = 19 (S)					2	2.00m to 2.45m (330mm recovery); yellowish brown calcrete with sand over possibly medium dense well cemented, orange, locally reddish brown, locally cemented sand, with abundant shell fragments (<2mm x 2mm x 3mm). Sand is fine to coarse.			
								3				
4.00 - 4.45 4.00 - 4.45	D SPT	3	N = 26 (S)					4	4.00m to 4.45m (350mm recovery); yellow calcrete with sand over possibly medium dense well cemented light yellow, locally cemented sand, with abundant shell fragments (<2mm x 4mm x 4mm). Sand is fine to coarse.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650532.44 N263347.03	Ground Elevation (m Datum)	-13.69	Sheet 2 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
6.00 - 6.45 6.00 - 6.45	D SPT	4	N = 23 (S)					6	6.00m to 6.45m (360mm recovery); medium dense yellow, locally cemented, sand with abundant shell fragments (<2mm x 2mm x 2mm). Calcareous. Sand is fine to coarse.			
								7				
8.00 - 8.45 8.00 - 8.45	D SPT	5	N = 21 (S)					8	8.00m to 8.45m (240mm recovery); medium dense yellow, locally cemented, slightly gravelly sand with abundant shell fragments (<2mm x 2mm x 2mm). Calcareous. Sand is fine to coarse. Gravel is subangular fine of mudstone.			
								9				
10.00 - 10.45 10.00 - 10.45	D SPT	6	N = 32 (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650532.44 N263347.03	Ground Elevation (m Datum)	-13.69	Sheet 3 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									10.00m to 10.45m (390mm recovery); dense light yellow, locally yellowish orange, locally cemented, sand with abundant shell fragments (<2mm x 2mm x 2mm). Calcareous. Sand is fine to coarse.			
								11		(22.70)		
12.00 - 12.45 12.00 - 12.45	D SPT	7	N = 24 (S)					12	12.00m to 12.45m (380mm recovery); medium dense light yellow, locally cemented, sand with abundant shell fragments (<2mm x 2mm x 2mm). Calcareous. Sand is fine to coarse.			
								13				
14.00 - 14.45 14.00 - 14.45	D SPT	8	N = 32 (S)					14	14.00m to 14.45m (450mm recovery); dense light yellowish grey, well cemented, sand becoming light grey, locally cemented, sand with abundant shell fragments (<1mm x 1mm x 2mm, locally 1mm x 17mm x 32mm). Calcareous. Sand is fine to coarse.			

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650532.44 N263347.03	Ground Elevation (m Datum)	-13.69	Sheet 4 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
16.00 - 16.45 16.00 - 16.45	D SPT	9	N = 34 (S)					16	16.00m to 16.45m (430mm recovery); dense light grey, locally greenish grey, locally cemented, sand with abundant shell fragments (<1mm x 2mm x 2mm). Calcareous. sand is fine to coarse.			
								17				
18.00 - 18.45 18.00 - 18.45	D SPT	10	N = 36 (S)					18	18.00m to 18.45m (330mm recovery); dense light grey, locally light greenish grey, locally cemented, silty sand with abundant shell fragments (<1mm x 2mm x 2mm). Calcareous. Sand is fine to coarse.			
								19				
20.00 - 20.45 20.00 - 20.45	D SPT	11	N = 30 (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650532.44 N263347.03	Ground Elevation (m Datum)	-13.69	Sheet 5 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									20.00m to 20.45m; medium dense to dense grey, locally greenish grey, locally weakly cemented, sand with abundant shell fragments (<1mm x 1mm x 2mm). Sand is fine to coarse.			
								21				
22.00 - 22.45 22.00 - 22.45	D SPT	12	N = 39 (S)					22	22.00m to 22.45m (450mm recovery); dense grey slightly clayey sand. Sand is fine to coarse.			
									CLAY (Driller's description).	22.70	-36.39	
								23				
24.00 - 24.45 24.00 - 24.45	D SPT	13	N = 35 (S)					24	24.00m to 24.45m (190mm recovery); very stiff dark grey silty clay. Micaceous.			
24.00 - 25.00				100	N/A	N/A						
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650532.44 N263347.03	Ground Elevation (m Datum)	-13.69	Sheet 6 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
25.46 - 25.86 25.00 - 26.00	C	16		100	N/A	N/A						
26.00 - 26.45 26.00 - 26.45	D SPT	14	N = 34 (S)					26	26.00m to 26.45m (200mm recovery); very stiff dark grey silty clay. Micaceous.			
26.20 - 26.63	C	17										
26.00 - 27.00				100	N/A	N/A						
								27				
27.00 - 28.00				100	N/A	N/A						
28.00 - 28.45 28.00 - 28.45	D SPT	15	N = 32 (S)					28	28.00m to 28.45m (220mm recovery); very stiff dark grey silty clay. Micaceous.			
28.00 - 29.00				100	N/A	N/A						
								29				
29.00 - 30.50				100	N/A	N/A						

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650532.44 N263347.03	Ground Elevation (m Datum)	-13.69	Sheet 7 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
30.50 - 32.00				100	N/A	N/A		31				
32.00 - 33.50				100	N/A	N/A		32				
33.50 - 35.00				100	N/A	N/A		33				
								34	Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650532.44 N263347.03	Ground Elevation (m Datum)	-13.69	Sheet 8 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
35.00 - 36.50				100	N/A	N/A		36				
36.50 - 38.00				100	N/A	N/A		37				
38.00 - 39.50				100	N/A	N/A		38				
								39		(32.75)		
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650532.44 N263347.03	Ground Elevation (m Datum)	-13.69	Sheet 9 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
39.50 - 41.00				100	N/A	N/A		41				
41.00 - 42.50				100	N/A	N/A		42				
42.50 - 44.00				93	N/A	N/A		43	42.50m to 42.60m; assumed zone of core loss.			
44.00 - 45.50				100	N/A	N/A		44				

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650532.44 N263347.03	Ground Elevation (m Datum)	-13.69	Sheet 10 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
45.50 - 47.00				100	N/A	N/A		46				
47.00 - 48.50				100	N/A	N/A		47				
48.50 - 50.00				100	N/A	N/A		48				
								49				
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650532.44 N263347.03	Ground Elevation (m Datum)	-13.69	Sheet 11 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
50.00 - 51.50				100	N/A	N/A		51				
51.50 - 53.00				100	N/A	N/A		52				
53.00 - 54.50				100	N/A	N/A		53				
								54				
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_05**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650532.44 N263347.03	Ground Elevation (m Datum)	-13.69	Sheet 12 of 12
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
54.50 - 56.00				63	N/A	N/A						
									Clay (Driller's description). ASSUMED ZONE OF CORE LOSS.	55.45 (0.55)	-69.14	
								56	End of Borehole at 56.00 m	56.00	-69.69	
								57				
								58				
								59				

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_06**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650628.28 N263326.30	Ground Elevation (m Datum)	-14.05	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	24.00	RC	05/06/2019	05/06/2019	Comacchio : Excalibur	NCD	102mm	JL & JW	GDF/JB/MH	
24.00	55.00	RC	05/06/2019	06/06/2019	Comacchio : Excalibur	Geobor	146mm	JL & JW	DMC/GDF/MH	Switched to Geobor at 24.00m due to ground conditions; core not retained.

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
05/06/2019	03:05:00	0.00	0.00	Fine
05/06/2019	11:15:00	24.00	24.00	Fine
05/06/2019	12:35:00	24.00	24.00	
05/06/2019	23:45:00	42.00	42.00	
06/06/2019	01:00:00	42.00	42.00	
06/06/2019	10:30:00	55.00	55.00	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
24.00	178	24.00	178
55.00	146	55.00	146

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)
0.00	2.00	P	0	Clear	
2.00	4.00	P	0	Clear	
4.00	6.00	P	0	Clear	
6.00	8.00	P	0	Clear	
8.00	10.00	P	0	Clear	
10.00	12.00	P	0	Clear	
12.00	14.00	P	0	Clear	
14.00	16.00	P	0	Clear	
16.00	18.00	P	0	Clear	
18.00	20.00	P	0	Clear	
20.00	22.00	P	0	Clear	
22.00	24.00	P	0	Clear	
24.00	26.00	W	100	Grey	
26.00	28.00	W	100	Grey	
28.00	30.00	W	100	Grey	
30.00	32.00	W	100	Grey	
32.00	34.00	W	100	Grey	
34.00	36.00	W	100	Grey	
36.00	38.00	W	100	Grey	
38.00	40.00	W	100	Grey	
40.00	42.00	W	100	Grey	
42.00	44.00	W	100	Grey	
44.00	46.00	W	100	Grey	
46.00	48.00	W	100	Grey	
48.00	50.00	W	100	Grey	
50.00	52.00	W	100	Grey	
52.00	54.00	W	100	Grey	
54.00	55.00	W	100	Grey	

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)

General Remarks

1. Deck to mud was 25.20m; deck level was 11.15m above OD. 2. The borehole was drilled adjacent to IT1_SB_06 to achieve the associated SPT data. 3. Sample ES1 (0.00-10.45m), ES2 (12.00-22.45m) and ES3 (26.00m-36.45m)were composite of material taken from end of runs before liners were removed for core logging. 4. Geophysical borehole logging was carried out on completion of drilling; results reported separately. 5. Descriptions of the SPT D samples are based on the disturbed material recovered from the SPT liners; these descriptions alone cannot provide representative information to infer strata descriptions or boundaries; the strata descriptions and boundaries given are based on driller's records only. 6. Core logging/logging of ends of core liners was not required.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	ROR	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 29/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650628.28 N263326.30	Ground Elevation (m Datum)	-14.05	Sheet 1 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 0.45 0.00 - 10.45 0.00 - 0.45	D ES SPT	1 1	N = 27 (S)						SAND (Driller's description). 0.00m to 0.45m (360mm recovery); medium dense, yellowish brown, sand with abundant shell fragments (<1mm). Calcareous. Sand is fine to coarse.			
								1				
2.00 - 2.45 2.00 - 2.45	D SPT	2	N = 40 (S)					2	2.00m to 2.45m (450mm recovery); dense yellowish brown and light yellowish brown with abundant shell fragments (<1mm) and with 1 No. fragment (20mm x 30mm x 40mm) of weakly cemented sandstone. Calcareous. Sand is fine to coarse.			
								3				
4.00 - 4.45 4.00 - 4.45	D SPT	3	N = 28 (S)					4	4.00m to 4.45m (370mm recovery); moderately weak and medium strong, yellowish brown, fine to coarse grained sandstone with abundant shell fragments (<1mm) (100mm) over medium dense, yellowish brown, sand with abundant shell fragments (<1mm). Calcareous. Sand is fine to coarse.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650628.28 N263326.30	Ground Elevation (m Datum)	-14.05	Sheet 2 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
6.00 - 6.45 6.00 - 6.45	D SPT	4	N = 50 (S)					6	6.00m to 6.45m (300mm recovery); recovered as angular and subangular fragments (<20mm) of medium strong, yellowish brown, medium and coarse grained sandstone/ calcarenite with frequent shell fragments (5mm-10mm) (150mm) over dense yellowish brown, sand with abundant shell fragments (<1mm). Calcareous. Sand is medium and coarse			
								7				
8.00 - 8.45 8.00 - 8.45	D SPT	5	N = 26 (S)					8	8.00m to 8.45m (300mm recovery); moderately weak and medium strong, yellowish and reddish brown, fine to coarse grained sandstone/calcarenite with 2 No. shell fragments (20mm x 20mm) (150mm) over possibly medium dense, yellowish brown, locally reddish brown, sand. Calcareous. Sand is medium and coarse.			
								9				
10.00 - 10.45 10.00 - 10.45	D SPT	6	N = 22 (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_06**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650628.28 N263326.30	Ground Elevation (m Datum)	-14.05	Sheet 3 of 11
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									10.00m to 10.45m (300mm recovery); moderately weak and medium strong, yellowish brown sandstone/ calcarenite with abundant shell fragments (<10mm x 10mm) (80mm) over possibly medium dense yellowish brown, sand with abundant shell fragments (<1mm). Calcareous. Sand is medium and coarse.			
								11		(23.30)		
12.00 - 12.45 12.00 - 22.45 12.00 - 12.45	D ES SPT	7 2	N = 44 (S)					12	12.00m to 12.45m (300mm recovery); with 1 No. fragment (20mm x 20mm x 30mm) of moderately weak grey fine and medium grained sandstone (30mm) over dense greenish grey sand with frequent shell fragments <2mm). Calcareous. Sand is medium and coarse.			
								13				
14.00 - 14.45 14.00 - 14.45	D SPT	8	N = 22 (S)					14	14.00m to 14.45m (400mm recovery); medium dense, greenish grey, sand with some to frequent shell fragments (<2mm). Calcareous. Sand is fine to coarse.			

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650628.28 N263326.30	Ground Elevation (m Datum)	-14.05	Sheet 4 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
16.00 - 16.45 16.00 - 16.45	D SPT	9	N = 28 (S)					16	16.00m to 16.45m (300mm recovery); medium dense, greenish grey, sand. Calcareous, possibly glauconitic. Sand is fine to coarse.			
								17				
18.00 - 18.45 18.00 - 18.45	D SPT	10	N = 50 (S)					18	18.00m to 18.45m (250mm recovery); dense, greenish grey sand. Calcareous. Sand is medium and coarse.			
								19				
20.00 - 20.45 20.00 - 20.45	D SPT	11	N = 42 (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_06**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650628.28 N263326.30	Ground Elevation (m Datum)	-14.05	Sheet 5 of 11
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									20.00m to 20.45m (400mm recovery); dense grey, locally dark grey, sand. Calcareous. Sand is predominantly fine and medium. With 1 No. thick lamina of dark grey, possibly organic, fine and medium sand. Slight organic odour.			
								21				
22.00 - 22.45 22.00 - 22.45	D SPT	12	N = 38 (S)					22	22.00m to 22.45m (290mm recovery); locally cemented, dense, greenish grey, locally light greenish grey and yellowish brown, sand. Highly calcareous. Sand is fine to coarse. Locally with frequent shell fragments (<1mm x 1mm x 1mm). Locally with rare subangular flint gravel (6x10 mm).			
								23				
									CLAY (Driller's description).	23.30	-37.35	
24.00 - 24.45 24.00 - 24.45	D SPT	13	N = 20 (S)					24	24.00m to 24.45m (190mm recovery); cemented light grey, sand. Highly calcareous. Sand is fine to coarse (40mm) over very stiff bluish grey silty clay. Micaceous.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650628.28 N263326.30	Ground Elevation (m Datum)	-14.05	Sheet 6 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
26.00 - 26.45 26.00 - 36.45 26.00 - 26.45	D ES SPT	14 3	N = 31 (S)					26	26.00m to 26.45m (260mm recovery); very stiff brownish grey clay. Micaceous.			
								27				
28.00 - 28.45 28.00 - 28.45	D SPT	15	N = 30 (S)					28	28.00m to 28.45m (260mm recovery); very stiff brownish grey clay. Micaceous.			
								29				
30.00 - 30.45 30.00 - 30.45	D SPT	16	N = 28 (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650628.28 N263326.30	Ground Elevation (m Datum)	-14.05	Sheet 7 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									30.00m to 30.45m (290mm recovery); very stiff brownish grey clay. Micaceous.			
								31				
32.00 - 32.45 32.00 - 32.45	D SPT	17	N = 30 (S)					32	32.00m to 32.45m (330mm recovery); very stiff brownish grey clay. Micaceous.			
								33				
34.00 - 34.45 34.00 - 34.45	D SPT	18	N = 28 (S)					34	34.00m to 34.45m (330mm recovery); very stiff brownish grey clay. Micaceous.	(22.70)		
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650628.28 N263326.30	Ground Elevation (m Datum)	-14.05	Sheet 8 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
36.00 - 36.45 36.00 - 36.45	D SPT	19	N = 38 (S)					36	36.00m to 36.45m (320mm recovery); very stiff brownish grey clay. Micaceous.			
								37				
38.00 - 38.45 38.00 - 38.45	D SPT	20	N = 50 (S)					38	38.00m to 38.45m (430mm recovery); very stiff dark brownish grey silty clay. Micaceous.			
								39				
40.00 - 40.45 40.00 - 40.45	D SPT	21	N = 49 (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650628.28 N263326.30	Ground Elevation (m Datum)	-14.05	Sheet 9 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									40.00m to 40.45m (350mm recovery); very stiff, fissured, brownish grey silty clay. Micaceous. Locally very stiff dark grey clay/extremely weak mudstone.			
								41				
42.00 - 42.38 42.00 - 42.38	D SPT	22	50/230 mm (S)					42	42.00m to 42.38m (380mm recovery); very stiff dark grey silty clay, locally extremely weak mudstone.			
									42.60m to 43.10m; driller noted possible mudstone band.			
								43				
44.00 - 44.45 44.00 - 44.45	D SPT	23	N = 50 (S)					44	44.00m to 44.26m; very stiff dark brownish grey silty clay. Micaceous.			
									44.26m to 44.40m; with 2 No. very closely spaced, very thin beds of very stiff, dark bluish grey, slightly sandy clayey silt. Sand is fine. 44.40m to 44.45m; very stiff dark bluish grey clay/ extremely weak mudstone.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_06**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650628.28 N263326.30	Ground Elevation (m Datum)	-14.05	Sheet 10 of 11
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
46.00 - 46.11 46.00 - 46.11	D SPT	24	50/5 mm (S)					46	LIMESTONE (Driller's description). 46.00m to 46.11m (110mm recovery); very stiff dark brownish grey silty clay, with 1 No. fragment (10mm x 30mm) of medium strong and strong light grey possible limestone.	46.00	-60.05	
								47		(2.00)		
48.00 - 48.45 48.00 - 48.45	D SPT	25	N = 30 (S)					48	CLAY (Driller's description). 48.00m to 48.45m (350mm recovery); very stiff, dark brownish grey silty clay with closely spaced very thin beds of stiff bluish grey slightly sandy clayey silt. Sand is fine. Micaceous.	48.00	-62.05	
								49		(2.00)		
50.00 - 50.01	SPT		50/0 mm (S)						Continued next page	50.00	-64.05	

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_06**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650628.28 N263326.30	Ground Elevation (m Datum)	-14.05	Sheet 11 of 11
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
								51	LIMESTONE (Driller's description). 50.00m to 50.01m; no recovery.	(2.00)		
52.00 - 52.45 52.00 - 52.45	D SPT	26	N = 34 (S)					52	CLAY (Driller's description). 52.00m to 52.45m (400mm recovery); very stiff thinly laminated dark brownish grey silty clay with some pockets (<5mm) of light grey sandy silt. Sand is fine. Micaceous. With 1 No. fragment of pyritised wood (10mm x 20mm).	52.00	-66.05	
								53		(3.00)		
54.00 - 54.45 54.00 - 54.45	D SPT	27	N = 39 (S)					54	54.00m to 54.45m (280mm recovery); very stiff dark grey silty clay with very closely spaced thin laminae of light grey silt.			
									End of Borehole at 55.00 m	55.00	-69.05	

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_07**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650724.41 N263306.39	Ground Elevation (m Datum)	-13.96	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	26.00	RO	02/06/2019	03/06/2019	Comacchio : Excalibur	NCD	102mm	JL/JW	GDF/JB	
26.00	55.00	RC	03/06/2019	04/06/2019	Comacchio : Excalibur	Geobor	146mm	JL/JW	GDF/JB	Switched to Geobor at 26.00m due to ground conditions; core not retained.

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
02/06/2019	18:50:00	0.00	1.10	Fine
02/06/2019	23:20:00	12.00	12.00	Fine
03/06/2019	00:20:00	12.00	12.00	
03/06/2019	10:50:00	36.00	36.00	
03/06/2019	12:10:00	36.00	36.00	
03/06/2019	23:00:00	54.00	54.00	
04/06/2019	00:45:00	54.00	54.00	
04/06/2019	02:00:00	55.00	55.00	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
26.00	178	1.10	250
55.00	146	26.00	178
		55.00	146

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)
0.00	2.00	W	100	Grey	
2.00	4.00	W	100	Grey	
4.00	6.00	W	100	Grey	
6.00	8.00	W	100	Grey	
8.00	10.00	W	100	Grey	
10.00	12.00	W	100	Grey	
12.00	14.00	W	100	Grey	
14.00	16.00	W	100	Grey	
16.00	18.00	W	100	Grey	
18.00	20.00	W	100	Grey	
20.00	22.00	W	100	Grey	
22.00	24.00	W	100	Grey	
24.00	26.00	W	100	Grey	
26.00	28.00	W	100	Grey	
28.00	30.00	W	100	Grey	
30.00	32.00	W	100	Grey	
32.00	34.00	W	100	Grey	
34.00	36.00	W	100	Grey	
36.00	38.00	W	100	Grey	
38.00	40.00	W	100	Grey	
40.00	42.00	W	100	Grey	
42.00	44.00	W	100	Grey	
44.00	46.00	W	100	Grey	
46.00	48.00	W	100	Grey	
48.00	50.00	W	100	Grey	
50.00	52.00	W	100	Grey	
52.00	54.00	W	100	Grey	
54.00	55.00	W	100	Grey	

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)

General Remarks

1. Deck to mud was 23.70m; deck level was 9.74m above OD. 2. The borehole was drilled adjacent to IT1_SB_07 to achieve the associated SPT data. 3. Geophysical borehole logging was carried out on completion of drilling; results reported separately. 4. Descriptions of the SPT D samples are based on the disturbed material recovered from the SPT liners; these descriptions alone cannot provide representative information to infer strata descriptions or boundaries; the strata descriptions and boundaries given are based on driller's records only. 5. Core logging/logging of ends of core liners was not required.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	ROR	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 20/01/2020

	Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
	Client	NNB Generation Company (SZC) Limited			**IT1_SPT_07**
	Fugro Reference	G190016U	Water Depth (m Datum)	NR	
	Coordinates (m)	E650724.41 N263306.39	Ground Elevation (m Datum)	-13.96	Sheet 1 of 11
	Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 0.45	SPT		N = 13 (S)						SAND (Driller's description). 0.00m to 0.45m; no recovery.			
								1				
2.00 - 2.45	D	1						2				
2.00 - 2.45	SPT		N = 16 (S)						2.00m to 2.45m (410mm recovery); medium dense yellowish brown sand with frequent shell fragments (<1mm x 2mm x 2mm). Highly calcareous. Sand is fine to coarse.			
								3				
4.00 - 4.45	D	2						4				
4.00 - 4.45	SPT		N = 18 (S)						4.00m to 4.45m (450mm recovery); medium dense yellowish brown sand with frequent shell fragments (<1mm x 3mm x 3mm), and with some subrounded fragments (<6mm) of calcrete (possible calcareous concretion). Highly calcareous. Sand is fine to coarse.			

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_07**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650724.41 N263306.39	Ground Elevation (m Datum)	-13.96	Sheet 2 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
6.00 - 6.45 6.00 - 6.45	D SPT	3	N = 27 (S)					6	6.00m to 6.45m (370mm recovery); medium dense orangish yellow sand with occasional pockets (<20mm x 20mm x 40mm) of calcareous cemented sand and with frequent shell fragments (<1mm x 2mm x 2mm). Highly calcareous. Sand is medium and coarse.			
								7				
8.00 - 8.45 8.00 - 8.45	D SPT	4	N = 25 (S)					8	8.00m to 8.45m (360mm recovery); medium dense orangish yellow sand with occasional pockets of (<20mm x 20mm x 40mm) calcareous cemented sand, with frequent shell fragments (<1mm x 2mm x 2mm), and with subrounded and rounded fragments (<20mm) of calcrete (possible calcareous concretion). Highly calcareous. Sand is medium and coarse.			
								9				
10.00 - 10.45 10.00 - 10.45	D SPT	5	N = 28 (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_07**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650724.41 N263306.39	Ground Elevation (m Datum)	-13.96	Sheet 3 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									10.00m to 10.45m (370mm recovery); moderately weak yellowish brown fine and medium grained sandstone (220mm), recovered as angular to subrounded fragments (<20mm), over yellowish brown, locally dark grey, possibly weakly cemented sand. Calcareous. Sand is fine and medium.			
								11		(23.30)		
12.00 - 12.45 12.00 - 12.45	D SPT	6	N = 16 (S)					12	12.00m to 12.45m (450mm recovery); light yellowish brown subangular and subrounded fragments (<20mm) of weakly cemented calcareous sandstone with occasional to frequent shell fragments (<10mm) (200mm) over possibly medium dense light yellowish brown becoming light to dark grey sand with subangular and subrounded fragments (<20mm) of calcareous sandstone with 3 No. extremely closely spaced thick laminae (<10mm) of dark greenish brown sand and with 1 No. intact shell (10mm x 10mm x 15mm). Sand is fine to coarse.			
								13				
14.00 - 14.45 14.00 - 14.45	D SPT	7	N = 22 (S)					14	14.00m to 14.45m (350mm recovery); dark grey fine to coarse sand with 1 No. subangular fragment (20mm x 35mm x 35mm) of fine and medium grained sandstone (100mm) over medium dense light grey fine and medium sand. Highly calcareous becoming calcareous.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			IT1_SPT_07	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650724.41 N263306.39	Ground Elevation (m Datum)	-13.96	Sheet 4 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
16.00 - 16.45 16.00 - 16.45	D SPT	8	N = 24 (S)					16	16.00m to 16.45m (390mm recovery); partially cemented light grey fine to coarse sand with occasional shell fragments (<10mm) and with subangular and subrounded fragments (<20mm) of calcareous sandstone (90mm) over medium dense light grey, locally dark grey, fine and medium sand. Calcareous.			
								17				
18.00 - 18.45 18.00 - 18.45	D SPT	9	N = 29 (S)					18	18.00m to 18.45m (450mm recovery); medium dense, locally weakly cemented, light grey, locally dark grey, with black speckling, sand, locally with abundant shell fragments (<5mm). Calcareous. Sand is mainly fine and medium.			
								19				
20.00 - 20.45 20.00 - 20.45	D SPT	10	N = 29 (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_07**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650724.41 N263306.39	Ground Elevation (m Datum)	-13.96	Sheet 5 of 11
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
								21	20.00m to 20.45m (420mm recovery); medium dense, locally weakly cemented, light grey with black speckling, sand with frequent shell fragments (<2mm). Calcareous. Sand is fine and medium.			
22.00 - 22.45 22.00 - 22.45	D SPT	11	N = 42 (S)					22	22.00m to 22.45m (450mm recovery); dense dark grey, locally mottled dark brownish grey, sand with occasional shell fragments (<2mm). Calcareous. Sand is fine and medium.			
								23				
									CLAY (Driller's description).	23.30	-37.26	
24.00 - 24.45 24.00 - 24.45	D SPT	12	N = 38 (S)					24	24.00m to 24.45m (400mm recovery); very stiff dark grey clay (150mm) over very stiff fissured dark greyish brown clay with 1 No. rounded black pebble (15mm x 15mm x 20mm) (120mm) over very stiff light brown clay. 1 No. subvertical, possibly planar, fissure.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_07**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650724.41 N263306.39	Ground Elevation (m Datum)	-13.96	Sheet 6 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
26.00 - 26.45 26.00 - 26.45	D SPT	13	N = 32 (S)					26	26.00m to 26.45m (280mm recovery); very stiff fissured dark grey clay. Micaceous.			
								27				
28.00 - 28.45 28.00 - 28.45	D SPT	14	N = 30 (S)					28	28.00m to 28.45m (280mm recovery); very stiff fissured dark grey clay, with possible subvertical fissure. Micaceous.			
								29				
30.00 - 30.45 30.00 - 30.45	D SPT	15	N = 31 (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_07**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650724.41 N263306.39	Ground Elevation (m Datum)	-13.96	Sheet 7 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									30.00m to 30.45m (300mm recovery); very stiff fissured dark grey clay with 1 No. pyritised wood fragment (5mm x 10mm x 20mm). Micaceous.			
								31				
32.00 - 32.45 32.00 - 32.45	D SPT	16	N = 26 (S)					32	32.00m to 32.45m (340mm recovery); very stiff fissured dark grey clay. Micaceous.			
								33				
34.00 - 34.45 34.00 - 34.45	D SPT	17	N = 27 (S)					34	34.00m to 34.45m (320mm recovery); very stiff fissured dark greyish brown clay. Micaceous.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_07**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650724.41 N263306.39	Ground Elevation (m Datum)	-13.96	Sheet 8 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
36.00 - 36.45 36.00 - 36.45	D SPT	18	N = 29 (S)					36	36.00m to 36.45m (380mm recovery). very stiff dark greyish brown silty clay. Micaceous.			
								37				
38.00 - 38.45 38.00 - 38.45	D SPT	19	N = 36 (S)					38	38.00m to 38.45m (430mm recovery); very stiff dark greyish brown silty clay. Micaceous.			
								39		(31.70)		
40.00 - 40.45 40.00 - 40.45	D SPT	20	N = 38 (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_07**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650724.41 N263306.39	Ground Elevation (m Datum)	-13.96	Sheet 9 of 11
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									40.00m to 40.45m (420mm recovery); stiff dark grey silty clay. Micaceous.			
								41				
42.00 - 42.45 42.00 - 42.45	D SPT	21	N = 34 (S)					42	42.00m to 42.45m (330mm recovery); bluish grey clayey silt (100mm) over very stiff brown micaceous silty clay (140mm) over very stiff bluish grey silty clay with 1 No. pyritised wood fragment (4mm x 15mm).			
								43				
44.00 - 44.45 44.00 - 44.45	D SPT	22	N = 44 (S)					44	44.00m to 44.45m (450mm recovery); very stiff brown silty clay with occasional pockets (<5mm x 5mm x 9mm) of light grey silt. Micaceous.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_07**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650724.41 N263306.39	Ground Elevation (m Datum)	-13.96	Sheet 10 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
46.00 - 46.45 46.00 - 46.45	D SPT	23	N = 43 (S)					46	46.00m to 46.45m (430mm recovery); very stiff dark grey silty clay. Micaceous.			
								47				
48.00 - 48.45 48.00 - 48.45	D SPT	24	N = 42 (S)					48	48.00m to 48.45m (400mm recovery); very stiff dark brownish grey silty clay with occasional pockets (<10mm x 10mm x 10mm) of bluish grey silt. Micaceous.			
								49				
50.00 - 50.45 50.00 - 50.45	D SPT	25	N = 41 (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT1_SPT_07**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650724.41 N263306.39	Ground Elevation (m Datum)	-13.96	Sheet 11 of 11
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									50.00m to 50.45m (430mm recovery); very stiff dark brownish grey silty clay. Micaceous.			
								51				
52.00 - 52.45 52.00 - 52.45	D SPT	26	N = 36 (S)					52	52.00m to 52.45m (450mm recovery); very stiff dark grey silty clay with occasional pockets (<2mm x 2mm x 5mm) of light grey silt. Micaceous.			
								53				
54.00 - 54.45 54.00 - 54.45	D SPT	27	N = 39 (S)					54	54.00m to 54.45m (280mm recovery); very stiff fissured dark grey clay with occasional pockets (<2mm) of light grey silt. Micaceous.			
									End of Borehole at 55.00 m	55.00	-68.96	

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT2_SB_01**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648125.64 N264200.43	Ground Elevation (m Datum)	-6.60	Sheet 1 of 1
Hole Type	Sonic Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	54.00	SD	09/06/2019	10/06/2019	LS600 : Excalibur	Sonic	118mm	TM/LM	DM/GDF/ MH/RL	

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
09/06/2019	00:00:00	0.00	0.00	
09/06/2019	11:45:00	15.00	15.00	
09/06/2019	12:00:00	15.00	15.00	
09/06/2019	23:45:00	33.00	33.00	
10/06/2019	00:00:00	33.00	33.00	
10/06/2019	11:45:00	46.50	46.50	
10/06/2019	12:00:00	46.50	46.50	
10/06/2019	20:45:00	54.00	54.00	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
54.00	118	54.00	150

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
0.00	1.50	100
1.50	3.00	100
3.00	4.50	100
4.50	6.00	100
6.00	7.50	100
7.50	9.00	100
9.00	10.50	100
10.50	12.00	100
12.00	13.50	100
13.50	15.00	100
15.00	16.50	100
16.50	18.00	100
18.00	19.50	100
19.50	21.00	100
21.00	22.50	100
22.50	24.00	100
24.00	25.50	100
25.50	27.00	100
27.00	28.50	100
28.50	30.00	100
30.00	31.50	100
31.50	33.00	100
33.00	34.50	100
34.50	36.00	100
36.00	37.50	100
37.50	39.00	100
39.00	40.50	100
40.50	42.00	100
42.00	43.50	100
43.50	45.00	100
45.00	46.50	100
46.50	48.00	100
48.00	49.50	100
49.50	51.00	100
51.00	52.50	100
52.50	54.00	100

General Remarks

1. Deck to mud was 16.70m; deck level was 10.10m above OD 2. Between 15.00m and 28.50m, and between 33.00m and 40.50m; driller noted blowing sand inside casing. 3. Between 33.00m and 34.50m; driller noted casing stuck; casing pulled back to clean base of borehole. 4. Between 43.25m and 43.50m; driller noted liner damaged due to strong ground (possible mudstone bed). 5. NNB instructed termination of borehole at 54.00m.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	CAY	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 27/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648125.64 N264200.43	Ground Elevation (m Datum)	-6.60	Sheet 1 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 1.50				73	N/A	N/A			Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.40)		
									Greyish brown (oxidising to orangish brown) slightly gravelly SAND with occasional to frequent becoming abundant shells (<5mm x 20mm x 20mm) and shell fragments (<1mm x 10mm x 10mm). Calcareous. Sand is mainly fine and medium. Gravel is subangular to rounded fine and medium of chert, flint, quartz and mudstone. [MARINE DEPOSITS, BANK DEPOSITS]	0.40	-7.00	
								1	At 0.60m; with 1 No. pocket (10mm x 10mm) of black silty fine and medium sand. At 0.70m; with 1 No. pocket (10mm x 10mm) of soft grey clay. 1.05m to 1.20m; with abundant shell fragments (<5mm x 10mm x 10mm).	(0.80)		
									Firm black pseudo-fiberous PEAT with extremely closely spaced laminae of grey clay. [PEAT]	1.20	-7.80	
									1.29m to 1.33m; very thin bed of soft grey clay.	(0.13)		
1.50 - 3.00				100	N/A	N/A		2	Greenish grey (oxidising to brownish grey) SAND, locally slightly gravelly sand, with occasional to frequent shell fragments (<5mm x 5mm) and rare pockets (<20mm x 20mm) of black silty sand. Calcareous. Sand is mainly fine and medium. Gravel is subangular and subrounded fine to coarse of chert, flint and quartz. Slight organic odour. Possible Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)]	1.33	-7.93	
									1.33m to 1.40m; slightly gravelly. At 1.96m; with 1 No. pocket (10mm x 20mm) of firm dark brown clay.	(2.52)		
3.00 - 4.50				100	N/A	N/A		3	3.50m to 3.70m; slightly gravelly. Gravel is fine and medium.			
								4	Light greenish grey (oxidising to light orangish brown and dark orangish brown) SAND with rare shell fragments (<2mm x 2mm). Calcareous. Sand is mainly fine and medium. Possible Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)]	3.85	-10.45	
									At 3.94m; with 1 No. iron concretion (5mm x full core diameter) and 1 No. thin lamina of grey clay. At 4.01m; with 1 No. iron concretion (5mm x full core diameter) and 1 No. thin lamina of grey clay. 4.12m to 4.25m; with frequent pockets (<20mm x 20mm) of soft grey clay and rare angular iron concretion fragments (<1mm x 5mm).			

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648125.64 N264200.43	Ground Elevation (m Datum)	-6.60	Sheet 2 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
4.50 - 6.00				100	N/A	N/A			5.00m to 6.85m; with occasional iron concretions (<10mm x 10mm) with inclusions of soft grey clay pockets.	(3.00)		
6.00 - 7.50				100	N/A	N/A		6				
7.50 - 9.00				100	N/A	N/A		7	Greenish grey (oxidising to light orangish brown and dark orangish brown) SAND with very closely and closely spaced interlaminae and very thin interbeds of light orangish brown and dark orangish brown sand, firm light grey and dark brown clay and dark brown iron concretion (<1mm thick), with occasional shell fragments (<5mm x 10mm). Calcareous. Possible Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)]	6.85	-13.45	
9.00 - 10.50				100	N/A	N/A		8		(1.90)		
								9	At 8.70m; with 1 No. subrounded chert fragment (5mm x 10mm x 10mm). Light greenish grey (oxidising to light orangish brown and dark orangish brown) SAND with occasional to locally frequent shell fragments (<5mm x 5mm), and rare becoming occasional pockets (<10mm x 10mm) of possibly grey (oxidising to brown) clay. Calcareous. Sand is mainly fine and medium. Possible Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)]	8.75	-15.35	
										(1.75)		
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648125.64 N264200.43	Ground Elevation (m Datum)	-6.60	Sheet 3 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									10.00m to 10.50m; interlaminated and very thinly interbedded with grey (oxidising to brown) clay, with occasional pockets (<10mm x 10mm) of possibly grey (oxidised to brown) clay.			
										10.50	-17.10	
								11	Dark greenish grey SAND with occasional to locally frequent pockets (<20mm x 30mm) of soft and firm grey clay, and rare to occasional shell fragments (<1mm x 10mm x 10mm). Calcareous. Sand is mainly fine and medium. Possible Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)]			
10.50 - 12.00				100	N/A	N/A				(1.50)		
									11.50m to 11.60m; with frequent pockets/lenses (possible discontinous flasers) (<10mm x 30mm) of soft grey clay. At 11.60m; with 1 No. thick lamina of soft grey clay and 1 No. subangular mudstone fragment (5mm x 10mm x 10mm).			
									11.82m to 11.88m; thin bed of soft grey clay.			
									11.93m to 12.00m; thin bed of firm grey clay.			
								12	Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	12.00	-18.60	
										(0.30)		
12.30 - 13.50	B	3								12.30	-18.90	
12.00 - 13.50				80	N/A	N/A			Greenish grey slightly silty SAND with rare shell fragments (<1mm x 5mm x 5mm), locally with frequent pockets/lenses (<5mm x 30mm) of firm grey clay. Calcareous. Sand is mainly fine and medium. Possible Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)]			
								13				
13.50 - 15.00	B	4										
									13.80m to 13.90m; with frequent pockets/lenses (possible discontinous flasers) (<5mm x 30mm) of soft grey clay.			
								14				
13.50 - 15.00				100	N/A	N/A						
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648125.64 N264200.43	Ground Elevation (m Datum)	-6.60	Sheet 4 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
										(5.75)		
15.00 - 16.50				100	N/A	N/A		16				
									16.50m to 16.60m; assumed zone of core loss.			
16.50 - 18.00				93	N/A	N/A		17				
								18	Dark greenish grey SAND with abundant shell fragments (<2mm x 20mm x 20mm). Calcareous. Sand is fine to coarse. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	18.05 (0.52)	-24.65	
									Cross-bedded very thinly and thinly interbedded greenish grey and dark greenish grey SAND, greenish grey fine and medium SAND and dark greenish grey medium and coarse SAND, with occasional to frequent shell fragments (<1mm x 5mm x 5mm). Calcareous. Sand is fine to coarse. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	18.57 (0.47)	-25.17	
18.00 - 19.50				90	N/A	N/A		19	Greenish grey slightly gravelly silty SAND with some to abundant shell fragments (mainly bivalves, possibly Pectin and Glycymeris) (<2mm x 30mm x 30mm). Calcareous. Sand is fine to coarse. Gravel is subangular and subrounded mainly fine and medium, of chert and brownish grey siltstone. [RED CRAG FORMATION (UNDIFFERENTIATED)]	19.04 (0.31)	-25.64	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	19.35 (0.15)	-25.95	
									Greenish grey slightly gravelly silty SAND with some to abundant shell fragments (mainly bivalves, possibly Pectin and Glycymeris) (<2mm x 30mm x 30mm). Calcareous. Sand is fine to coarse. Gravel is	19.50	-26.10	

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648125.64 N264200.43	Ground Elevation (m Datum)	-6.60	Sheet 5 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
19.50 - 21.00				93	N/A	N/A			subangular and subrounded mainly fine and medium, of chert and brownish grey siltstone.	(2.50)		
21.00 - 22.00	B	5						21	20.90m to 21.00m; assumed zone of core loss.			
21.00 - 22.50				67	N/A	N/A			At 21.60m; with 1 No. gastropod shell (possible Neptunea contraria) (20mm x 20mm x 30mm) .			
								22	Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	22.00 (0.50)	-28.60	
22.50 - 22.90	D	6							Greenish grey SAND with occasional shell fragments (<1mm x 10mm x 10mm), rare to locally frequent pockets/lenses (<10mm x 30mm) of grey clay. Calcareous. Sand is fine to coarse. [RED CRAG FORMATION (UNDIFFERENTIATED)]	22.50	-29.10	
22.90 - 23.65	B	7							At 22.60m; with 1 No. subangular strong brownish grey siltstone fragment (15mm x 20mm x 40mm).			
22.50 - 24.00				100	N/A	N/A		23	23.00m to 23.08m; with frequent pockets/lenses (<10mm x 10mm) of grey clay, and frequent subangular moderately weak grey mudstone fragments (<15mm x 30mm x 30mm) (possibly drilling fragmented very thin bed of mudstone). 23.35m to 23.45m; with frequent pockets (<10mm x 10mm) of grey clay and frequent subangular moderately weak grey mudstone fragments (<20mm x 30mm x 50mm) (possibly drilling fragmented very thin bed of mudstone).	(1.19)		
23.70 - 25.50	B	8							23.52m to 23.62m; with frequent pockets/lenses (<10mm x 10mm) of grey clay. 23.62m to 23.65m; very thin bed of stiff grey clay.	23.69	-30.29	
								24	Greenish grey slightly gravelly SAND with frequent becoming abundant shell fragments (mainly bivalves, possible Pectin and Glycymeris) (<2mm x 30mm x 30mm). Calcareous. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse of flint and light brown siltstone with frequent burrows (possibly Chondrites) (<2mm x 10mm). [RED CRAG FORMATION (UNDIFFERENTIATED)]			
24.00 - 25.50				100	N/A	N/A						

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648125.64 N264200.43	Ground Elevation (m Datum)	-6.60	Sheet 6 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									At 25.00m; with 1 No. gastropod shell (possible Neptunea contraria) (10mm x 10mm x 20mm).			
										(4.18)		
25.50 - 27.00				100	N/A	N/A		26				
								27	27.30m to 27.87m; gravel is mainly subrounded fine and medium of flint.			
27.00 - 28.50				100	N/A	N/A						
									Greenish grey slightly silty SAND with frequent to locally abundant shells (<5mm x 10mm x 10mm) and shell fragments (<2mm x 2mm x 2mm). Calcareous. Sand is fine to coarse. [RED CRAG FORMATION (UNDIFFERENTIATED)]	27.87	-34.47	
								28				
								29				
28.50 - 30.00				100	N/A	N/A						
30.00 - 31.50	B	10										

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648125.64 N264200.43	Ground Elevation (m Datum)	-6.60	Sheet 7 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
30.00 - 31.50				100	N/A	N/A		31	30.90m to 31.15m; with abundant shell fragments (<5mm x 10mm x 10mm).	(5.13)		
31.50 - 33.00				100	N/A	N/A		32				
33.00 - 34.50				0	N/A	N/A		33	Sand (Driller's description). No recovery. Driller noted loss of run due to casing stuck (casing pulled back to clean base of borehole).	33.00	-39.60	
								34		(1.50)		
									Greenish grey SAND with frequent to locally abundant shells (<5mm x 20mm x 30mm) and shell fragments (<2mm x 2mm x 2mm) . Calcareous. Sand is fine to coarse. [RED CRAG FORMATION (UNDIFFERENTIATED)] 34.59m to 34.69m; with 1 No. subrounded strong brown siltstone gravel (40mm x 60mm x 60mm).	34.50	-41.10	

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648125.64 N264200.43	Ground Elevation (m Datum)	-6.60	Sheet 8 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
34.50 - 36.00				100	N/A	N/A			34.69m to 35.41m; with abundant bivalve shells (<5mm x 20mm x 30mm) and shell fragments (<1mm x 10mm x 10mm). 35.41m to 35.44m; very thin bed of strong dark brown siltstone. 35.77m to 36.90m; with rare bivalve shells (<5mm x 10mm x 10mm) and gastropod shell fragments (<5mm x 5mm x 10mm), and rare pockets (<10mm x 40mm) of light grey silty fine and medium sand.	(2.40)		
36.00 - 37.50				60	N/A	N/A		36		36.90	-43.50	
								37	Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.60)		
									Greenish grey SAND with frequent shell fragments (<5mm x 10mm x 10mm). Calcareous. Sand is fine to coarse. [RED CRAG FORMATION (UNDIFFERENTIATED)]	37.50	-44.10	
37.50 - 39.00				87	N/A	N/A		38		(0.90)		
									Greenish grey slightly gravelly SAND with frequent shell fragments (<5mm x 10mm x 10mm). Calcareous. Sand is fine to coarse. Gravel is subangular and subrounded fine and medium of flint. [RED CRAG FORMATION (UNDIFFERENTIATED)]	38.40	-45.00	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.40)		
								39		38.80	-45.40	
									Greenish grey slightly gravelly SAND with frequent shell fragments (<5mm x 10mm x 10mm). Calcareous. Sand is fine to coarse. Gravel is subangular and subrounded fine and medium of flint. [RED CRAG FORMATION (UNDIFFERENTIATED)]	(0.20) 39.00	-45.60	
39.00 - 40.50				100	N/A	N/A			Dark greenish grey and brownish grey slightly gravelly becoming gravelly SAND with extremely closely to closely spaced very thin beds of dark grey silty fine to coarse sand, with abundant shell fragments (<1mm x 2mm x 2mm). Calcareous. Sand is fine to coarse. Gravel is subangular to rounded fine and medium of chert, flint, mudstone and siltstone. Slight organic odour.	(0.42) 39.42	-46.02	

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648125.64 N264200.43	Ground Elevation (m Datum)	-6.60	Sheet 9 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									[RED CRAG FORMATION (UNDIFFERENTIATED)]	(1.42)		
									40.65m to 40.84m; gravelly.			
									Firm and stiff fissured dark brown gravelly becoming slightly gravelly silty CLAY with frequent pockets (possible infilled burrows) (<40mm x 80mm) of greenish brown fine to coarse sand, and occasional shell fragments (<1mm x 5mm x 5mm). Gravel is subangular to rounded fine and medium of chert, flint, siltstone and dark brown possibly manganese coated pebbles. Micaceous. Probably reworked Harwich Formation.	40.84	-47.44	
40.50 - 42.00				100	N/A	N/A		41	[HARWICH FORMATION (UNDIFFERENTIATED)]	(0.86)		
41.70 - 42.00	C	9							41.00m to 41.70m; slightly gravelly. 41.58m to 41.70m; with 1 No. subrounded strong dark brown claystone cobble (100mm x 100mm x 120mm).	41.70	-48.30	
									Stiff dark brown mottled dark green (glauconitic) slightly sandy CLAY with occasional pockets (<10mm x 10mm x 10mm) of light grey silty fine sand. Micaceous. Sand is fine and medium.			
								42	[HARWICH FORMATION, WRABNESS MEMBER]	(1.24)		
42.00 - 43.50				93	N/A	N/A				42.94	-49.54	
								43	Stiff and very stiff dark brown and dark grey slightly sandy CLAY with closely and medium spaced thin beds of very stiff indistinctly fissured dark grey and black tuffaceous silty clay and clayey silt, with occasional burrows (<2mm x 2mm) infilled with light brown silt. Micaceous. Sand is fine. Fissures are possibly extremely closely spaced, randomly orientated, planar, smooth, polished, very tight.			
									[HARWICH FORMATION, WRABNESS MEMBER]			
									43.25m to 43.40m; assumed drilling disturbed possibly due to rock layer (driller noted liner damaged due to strong ground (possible mudstone bed)). 43.40m to 43.50m; assumed zone of core loss.			
								44		(2.06)		
43.50 - 45.00				100	N/A	N/A						
44.40 - 45.00	C	1										
									Continued next page	45.00	-51.60	

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648125.64 N264200.43	Ground Elevation (m Datum)	-6.60	Sheet 10 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
45.00 - 46.50				100	N/A	N/A			Strong dark grey and dark brown argillaceous LIMESTONE. Recovered as non intact (assumed drilling induced) core of angular and subangular fragments (<30mm x 85mm x 90mm). Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	(0.21)		
										45.21	-51.81	
									Very stiff dark brown and dark grey slightly sandy, locally sandy, silty CLAY with closely and medium spaced thin beds of very stiff indistinctly fissured dark grey and black tuffaceous silty clay/clayey silt, with occasional to frequent pockets (<10mm x 20mm) of light brown and light grey silty sand, occasional burrows (<5mm x 5mm) infilled with light brown silt. Micaceous. Locally glauconitic. Sand is fine and medium. Fissures are possibly extremely closely spaced, randomly orientated, planar, smooth, polished, very tight. [HARWICH FORMATION, WRABNESS MEMBER]			
								46	45.21m to 45.27m; with occasional subangular limestone fragments (<25mm x 30mm x 40mm).			
46.50 - 48.00				100	N/A	N/A			46.85m to 47.10m; dark greenish brown (glauconitic).			
								47	At 47.07m; with 1 No. lignite fragment (5mm x 10mm). 47.14m to 47.18m; very thin bed of stiff dark brown fine and medium sandy clay.	(4.09)		
									47.80m to 47.90m; dark greenish brown (glauconitic).			
48.00 - 49.50				100	N/A	N/A		48				
								49	48.97m to 49.30m; with occasional angular and subangular strong dark grey possible limestone fragments (<63mm).			
										49.30	-55.90	
									Possible LIMESTONE. Recovered as 3 No. angular and subangular strong dark grey possible limestone fragments (<100mm x 100mm x 100mm) (assumed drilling fragmented). Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	(0.16)		
										49.46	-56.06	
									Very stiff dark brown and dark grey slightly sandy, locally sandy, silty CLAY with closely and medium spaced thin beds of very stiff indistinctly fissured dark			

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648125.64 N264200.43	Ground Elevation (m Datum)	-6.60	Sheet 11 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
49.50 - 51.00				100	N/A	N/A			grey and black tuffaceous silty clay/clayey silt, with occasional to frequent pockets (<10mm x 20mm) of light brown and light grey silty sand, occasional burrows (<5mm x 5mm) infilled with light brown silt. Micaceous. Locally glauconitic. Sand is fine and medium. Fissures are possibly extremely closely spaced, randomly orientated, planar, smooth, polished, very tight. [HARWICH FORMATION, WRABNESS MEMBER]	(1.82)		
50.70 - 51.28	C	2							49.50m to 49.68m; dark greenish grey (glauconitic). 49.68m to 50.10m; sandy.			
								51				
										51.28	-57.88	
51.00 - 52.50				100	N/A	N/A			Very stiff dark brown silty CLAY with frequent burrows (<2mm x 10mm) infilled with brown and grey silt, and occasional pockets (<5mm x 10mm) of light brown and light grey fine sandy silt, Micaceous. [HARWICH FORMATION, ORWELL MEMBER]			
								52	At 51.88m; with 1 No. subrounded marcasite nodule (10mm x 10mm x 10mm).			
									52.20m to 52.40m; with extremely closely and very closely spaced thin laminae of light brown fine sandy silt.			
										(2.72)		
								53				
52.50 - 54.00				100	N/A	N/A			At 53.24m; with 1 No. subrounded marcasite nodule (10mm x 10mm x 10mm). 53.30m to 53.53m; with extremely closely and very closely spaced thin laminae of light brown fine sandy silt.			
									53.55m to 53.57m; with 1 No. subrounded marcasite nodule (10mm x 20mm).			
								54	End of Borehole at 54.00 m	54.00	-60.60	

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT2_SB_02**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E649751.37 N264233.15	Ground Elevation (m Datum)	-7.48	Sheet 1 of 1
Hole Type	Sonic Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	34.00	SD	13/07/2019	14/07/2019	LS600: Excalibur	Sonic	118mm	TM/PJ	MH/PC/ GDF	

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
13/07/2019	01:15:00	0.00	0.00	
13/07/2019	11:45:00	16.00	16.00	
13/07/2019	12:00:00	16.00	16.00	
13/07/2019	23:45:00	34.00	34.00	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
34.00	118	34.00	150

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
0.00	1.00	100
1.00	2.50	100
2.50	4.00	100
4.00	5.50	100
5.50	7.00	100
7.00	8.50	100
8.50	10.00	100
10.00	11.50	100
11.50	13.00	100
13.00	14.50	100
14.50	16.00	100
16.00	17.50	100
17.50	19.00	100
19.00	20.50	100
20.50	22.00	100
22.00	23.50	100
23.50	25.00	100
25.00	26.50	100
26.50	28.00	100
28.00	29.50	100
29.50	31.00	100
31.00	32.50	100
32.50	34.00	100

General Remarks

1. Deck to mud was 17.50m; deck level was 10.02m above OD. 2. Sample ES1 (0.00m-32.50m) was composite of material taken from ends of runs before liners were removed for core logging. 3. Driller noted casing snapped and lost below 25.00m (unable to retrieve) and borehole collapsed to 14.00m. 4. NNB instructed termination of borehole at 34.00m.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	CAY	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 28/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649751.37 N264233.15	Ground Elevation (m Datum)	-7.48	Sheet 1 of 7	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 32.50	ES	1							Grey mottled dark grey and black (oxidising to yellowish brown) silty SAND with rare pockets/lenses (<40mm x 40mm) of soft dark brownish grey and dark grey slightly calcareous clay. Sand is mainly fine and medium. Slight to moderate organic odour. Possible Marine Deposits, Bank Deposits. [MARINE DEPOSITS, BANK DEPOSITS]			
0.00 - 1.00				90	N/A	N/A			At 0.80m; with 1 No. thick lamina of soft dark brownish grey and dark grey slightly calcareous clay. 0.90m to 1.00m; assumed zone of core loss.	(1.00)		
								1	Grey and dark grey mottled dark greyish black (oxidising to yellowish brown) silty SAND. Slightly calcareous. Sand is mainly fine and medium. Slight to moderate organic odour. Possible Marine Deposits, Bank Deposits. [MARINE DEPOSITS, BANK DEPOSITS]	1.00	-8.48	
1.00 - 2.50				60	N/A	N/A				(0.90)		
								2	Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	1.90	-9.38	
										(0.60)		
								3	Grey and dark grey mottled dark greyish black (oxidising to yellowish brown) silty SAND, locally with occasional to some shell fragments (mainly bivalves) (<5mm x 5mm) and occasional bivalve shells (<15mm x 15mm). Slightly calcareous. Sand is mainly fine and medium. Possible Marine Deposits, Bank Deposits. [MARINE DEPOSITS, BANK DEPOSITS]	2.50	-9.98	
2.50 - 4.00				100	N/A	N/A			3.66m to 3.72m; very thin bed of soft dark greyish black possibly organic silty clay. Slight to moderate organic odour.			
								4	4.36m to 4.40m; very thin bed of soft dark greyish black possibly organic silty clay. Slight to moderate organic odour.	(3.69)		
4.00 - 5.50				100	N/A	N/A						

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649751.37 N264233.15	Ground Elevation (m Datum)	-7.48	Sheet 2 of 7	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									4.99m to 5.02m; very thin bed of soft dark greyish black possibly organic silty clay. Slight to moderate organic odour. 5.22m to 5.45m; sand is mainly medium and coarse.			
								6	At 5.57m; with 1 No. pocket/lens (20mm x 30mm) of soft dark greyish black possibly organic silty clay. Slight to moderate organic odour. 5.57m to 5.85m; slightly gravelly. Gravel is subrounded and rounded, rarely flat, mainly fine and medium dark brownish grey, black, yellowish brown chert, flint and other lithologies.			
5.50 - 7.00				100	N/A	N/A			Soft dark grey and black mottled yellowish brown and brown (possible oxidised colour) possibly organic silty CLAY with extremely closely and very closely spaced thin laminae of dark grey and black silty fine sand. Slightly calcareous and calcareous. Possible Marine Deposits, Bank Deposits/Tidal Flat Deposits. [MARINE DEPOSITS, BANK DEPOSITS]	6.19 (0.91)	-13.67	
									6.19m to 6.30m; with 2 No. pockets/lenses (<40mm x 85mm) of yellowish brown (possible oxidised colour) fine and medium sand with frequent shell fragments (<1mm x 2mm).			
								7				
7.00 - 8.50				100	N/A	N/A			Grey and dark grey mottled dark greyish black (oxidising to yellowish brown) slightly gravelly clayey SAND with occasional to some shell fragments (mainly bivalves) (<3mm x 3mm) and occasional bivalve shells (<10mm x 10mm). Slightly calcareous and calcareous. Sand is mainly fine and medium. Gravel is rounded and well rounded mainly medium of dark brownish grey fine and medium grained sandstone/possible quartizite and yellowish brown chert. Locally with slight organic odour. Possible Marine Deposits, Bank Deposits. [MARINE DEPOSITS, BANK DEPOSITS]	7.10 (0.27) 7.37	-14.58 -14.85	
								8	Grey and dark grey mottled dark greyish black (oxidising to yellowish brown and dark brownish yellow) SAND. Slightly calcareous. Sand is mainly fine and medium. Possible Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)]			
								9				
8.50 - 10.00				100	N/A	N/A				(3.93)		
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649751.37 N264233.15	Ground Elevation (m Datum)	-7.48	Sheet 3 of 7	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
10.00 - 11.50				87	N/A	N/A		11				
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	11.30 (0.20)	-18.78	
									Grey and dark grey mottled dark greyish black (oxidising to yellowish brown) slightly silty SAND. Slightly calcareous. Sand is mainly fine and medium. Possible Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)]	11.50	-18.98	
12.00 - 12.50	B	3						12				
11.50 - 13.00				83	N/A	N/A			12.20m to 12.30m; with occasional pockets (<30mm x 35mm) of soft and firm greenish grey clayey silt. 12.45m to 12.70m; with some shell fragments (mainly bivalves) (<4mm x 4mm).	(1.25)		
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	12.75 (0.25)	-20.23	
								13	Dark greenish grey (glauconitic) silty SAND with abundant shell fragments (mainly bivalves) (<10mm x 15mm). Slightly calcareous and calcareous. Sand is mainly fine and medium. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	13.00	-20.48	
13.00 - 14.50				87	N/A	N/A				(1.30)		
								14	At 14.00m; with 1 No. pocket (20mm x 25mm) of light grey fine sandy silt.			
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	14.30 (0.20)	-21.78	
									Grey SAND with extremely closely to closely spaced thin laminae of dark grey fine sand. Slightly calcareous and calcareous. Sand is mainly fine and medium. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	14.50	-21.98	

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649751.37 N264233.15	Ground Elevation (m Datum)	-7.48	Sheet 4 of 7	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
14.50 - 16.00				100	N/A	N/A			15.10m to 15.85m; with very closely and closely spaced thick laminae and very thin beds of soft and firm grey clay.	(1.50)		
								16	Grey silty SAND with frequent to abundant shell fragments (mainly bivalves) (<2mm x 10mm x 10mm). Slightly calcareous and calcareous. Sand is mainly fine and medium. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	16.00	-23.48	
16.00 - 17.50				87	N/A	N/A				(1.30)		
								17	16.90m to 17.30m; with extremely closely to closely spaced indistinct thin and thick laminae of soft and firm grey clay.			
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	17.30	-24.78	
										(0.20)		
									Greenish grey and dark grey (glauconitic) (oxidising to dark yellowish brown and brown) silty and very silty SAND with frequent to abundant shell fragments (mainly bivalves) (<2mm x 15mm x 25mm), locally with rare to occasional pockets/possible lenses (<40mm x 40mm x 50mm) of firm light greenish grey fine sandy silt. Slightly calcareous and calcareous. Sand is mainly fine and medium. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	17.50	-24.98	
								18				
17.50 - 19.00				100	N/A	N/A				(1.50)		
									18.80m to 18.95m; slightly gravelly. Gravel is angular and subangular, rarely flat, medium and coarse of moderately weak greenish grey slightly calcareous siltstone.			
								19	Greenish grey and dark grey (possibly glauconitic) (oxidising to dark yellowish brown and brown) slightly gravelly slightly silty SAND with frequent to abundant shell fragments (mainly bivalves) (<2mm x 20mm x 25mm). Slightly calcareous and calcareous. Sand is mainly fine and medium. Gravel is angular and subangular, rarely flat, fine to coarse of weak and moderately weak grey slightly calcareous siltstone. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	19.00	-26.48	
19.50 - 19.75	B	4								(0.80)		
19.00 - 20.50				53	N/A	N/A			19.20m to 19.30m; sand is medium and coarse. 19.67m to 19.80m; sand is medium and coarse.			
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	19.80	-27.28	
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649751.37 N264233.15	Ground Elevation (m Datum)	-7.48	Sheet 5 of 7	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
										(0.70)		
										20.50	-27.98	
20.50 - 22.00				93	N/A	N/A		21	Greenish grey and dark grey (glauconitic) (oxidising to dark yellowish brown and brown) slightly gravelly silty SAND with some to frequent, locally frequent to abundant, shell fragments (mainly bivalves) (<1mm x 10mm x 15mm). Slightly calcareous and calcareous. Sand is mainly fine and medium. Gravel is angular and subangular, rarely flat, medium and coarse of moderately weak greenish grey slightly calcareous siltstone and grey chert. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)] 20.50m to 21.09m; with frequent to abundant shell fragments. Sand is medium and coarse.			
									21.90m to 22.00m; assumed zone of core loss.	(2.75)		
22.00 - 23.50				83	N/A	N/A		22				
								23	22.90m to 23.25m; with possibly very closely and closely spaced indistinct thin laminae of dark grey silty fine and medium sand.			
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	23.25	-30.73	
										(0.25)		
									Dark grey (oxidising to dark yellowish brown and brown) SAND with some shell fragments (mainly bivalves) (<3mm). Slightly calcareous. Sand is mainly fine and medium. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	23.50	-30.98	
								24		(0.80)		
23.50 - 25.00				53	N/A	N/A				24.30	-31.78	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.70)		
										25.00	-32.48	
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649751.37 N264233.15	Ground Elevation (m Datum)	-7.48	Sheet 6 of 7	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
25.50 - 25.90	D	2							Dark grey (oxidising to dark yellowish brown and brown), indistinctly greenish grey (possibly glauconitic) slightly gravelly silty SAND with some shell fragments (mainly bivalves) (<5mm x 10mm). Slightly calcareous. Sand is mainly fine and medium. Gravel is angular and subangular, mainly flat, medium and coarse of moderately weak and medium strong greenish grey slightly calcareous siltstone, quartzite and grey chert. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]			
25.00 - 26.50				90	N/A	N/A				(1.50)		
25.90 - 26.30	B	5						26	25.90m to 26.35m; with possibly very closely and closely spaced indistinct thin laminae of dark grey silty fine and medium sand.			
									26.35m to 26.50m; assumed zone of core loss.			
										26.50	-33.98	
									Dark greenish grey (glauconitic) (oxidising to dark yellowish brown and brown) silty SAND with abundant, locally some to frequent, shell fragments (mainly bivalves) (<10mm x 20mm). Slightly calcareous. Sand is mainly medium and coarse. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]			
								27		(1.15)		
26.50 - 28.00				77	N/A	N/A			27.50m to 27.65m; with some to frequent shell fragments. Sand is fine and medium.			
										27.65	-35.13	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.35)		
								28		28.00	-35.48	
28.05 - 28.85	B	6							Dark greenish grey and dark grey (glauconitic) (oxidising to dark yellowish brown and brown) silty SAND with abundant shell fragments (mainly bivalves) (<15mm x 20mm). Slightly calcareous. Sand is mainly medium and coarse. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]			
28.00 - 29.50				83	N/A	N/A				(1.25)		
28.85 - 29.25	B	7						29	29.00m to 29.10m; recovered as moderately weak light greenish grey slightly calcareous siltstone fragments (assumed drilling fragmented), possible thin bed of siltstone.			
										29.25	-36.73	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.25)		
										29.50	-36.98	
									Dark greenish grey and dark grey (glauconitic) (oxidising to dark yellowish brown and brown) silty SAND with abundant becoming some shell fragments (mainly bivalves) (<15mm x 20mm), locally with rare gastropod fragments (<5mm x 5mm). Slightly calcareous. Sand is fine to coarse. Possible Red Crag Formation.			

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649751.37 N264233.15	Ground Elevation (m Datum)	-7.48	Sheet 7 of 7	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
29.50 - 31.00				100	N/A	N/A			[RED CRAG FORMATION (UNDIFFERENTIATED)] 29.50m to 29.68m; with rare gastropod fragments, with 1 No. angular moderately weak light greenish grey slightly calcareous siltstone fragment (<20mm). Sand is mainly fine and coarse. 29.68m to 30.23m; with very closely and closely spaced thick laminae and very thin beds of soft and firm brownish grey clay. 29.68m to 32.50m; with extremely closely to closely spaced thin laminae of dark grey fine sand, with some shell fragments (<3mm x 4mm). Sand is mainly fine and medium becoming medium and coarse. 30.70m to 30.80m; slightly gravelly. Gravel is angular and subangular fine and medium of moderately weak greenish grey slightly calcareous siltstone and dark brownish grey and black flint pebbles.			
								31		(3.00)		
31.00 - 32.50				100	N/A	N/A		32	32.05m to 32.27m; medium bed of soft and firm light greenish grey silty clay. 32.37m to 32.45m; intense dark yellowish brown (possible oxidised colour).			
									Sand (Driller's description). No recovery.	32.50	-39.98	
32.50 - 34.00				0	N/A	N/A		33		(1.50)		
								34	End of Borehole at 34.00 m	34.00	-41.48	

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT2_SB_03**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650826.31 N264254.26	Ground Elevation (m Datum)	-14.48	Sheet 1 of 1
Hole Type	Sonic Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	55.00	SD	07/07/2019	08/07/2019	LS600 : Excalibur	Sonic	118mm	LM/PJ	MH/PC/RL	

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
07/07/2019	00:00:00	0.00	0.00	
07/07/2019	11:45:00	19.00	19.00	
07/07/2019	12:00:00	19.00	19.00	
07/07/2019	23:45:00	38.50	38.50	
08/07/2019	00:00:00	38.50	38.50	
08/07/2019	10:00:00	55.00	55.00	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
55.00	118	55.00	150

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
0.00	1.00	100
1.00	2.50	100
2.50	4.00	100
4.00	5.50	100
5.50	7.00	100
7.00	8.50	100
8.50	10.00	100
10.00	11.50	100
11.50	13.00	100
13.00	14.50	100
14.50	16.00	100
16.00	17.50	100
17.50	19.00	100
19.00	20.50	100
20.50	22.00	100
22.00	23.50	100
23.50	25.00	100
25.00	26.50	100
26.50	28.00	100
28.00	29.50	100
29.50	31.00	100
31.00	32.50	100
32.50	34.00	100
34.00	35.50	100
35.50	37.00	100
37.00	38.50	100
38.50	40.00	100
40.00	41.50	100
41.50	43.00	100
43.00	44.50	100
44.50	46.00	100
46.00	47.50	100
47.50	49.00	100
49.00	50.50	100
50.50	52.00	100
52.00	53.50	100
53.50	55.00	100

General Remarks

1. Deck to mud was 24.50m; deck level was 10.02m. 2. Samples ES1 (0.00m-19.50m) and ES2 (19.50m-31.00m) were composite of material taken from ends of runs before liners were removed for core logging. 3. 2.50m to 19.00m; driller noted blowing sand inside casing. 4. 44.50m to 46.00m; clay, limestone chasing down hole. Drilled twice. 5. 47.50m to 49.00m; clay drilled twice, lexan barrel.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	CAY	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 28/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650826.31 N264254.26	Ground Elevation (m Datum)	-14.48	Sheet 1 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 0.50	ES	1							Interbedded soft dark grey sandy SILT and greenish grey SILT, locally gravelly sand. Slightly calcareous. Sand is fine and medium. Gravel is subangular and subrounded mainly medium and coarse of chert, flint and rare quartz. Possible Marine Deposits, Bank Deposits.			
0.00 - 0.50	ES	2										
0.00 - 19.50	ES	1										
0.50 - 0.60	ES	3		100	N/A	N/A			[MARINE DEPOSITS, BANK DEPOSITS]			
0.00 - 1.00									0.00m to 0.20m; with frequent shells (<20mm x 30mm x 30mm) and shell fragments (<1mm x 3mm x 7mm), and some pockets of fine to coarse sand. 0.20m to 0.50m; with occasional shell fragments (<1mm x 2mm x 2mm). Sand is fine. 0.50m to 0.80m; with some pockets (<30mm x 100mm) of soft dark grey clay. Sand is fine. 0.60m to 0.75m; gravelly sand, with 1 No. subrounded flint cobble (65mm x 70mm x 80mm). 0.80m to 1.00m; with occasional shell fragments (<1mm x 2mm x 3mm).	(1.10)		
								1				
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	1.10	-15.58	
										(0.30)		
1.40 - 1.90	ES	4								1.40	-15.88	
1.40 - 1.90	ES	5							Interbedded soft dark grey sandy SILT and greenish grey SILT, locally gravelly sand. Slightly calcareous. Sand is fine and medium. Gravel is subangular and subrounded mainly medium and coarse of chert, flint and rare quartz. Possible Marine Deposits, Bank Deposits.	(0.20)		
									[MARINE DEPOSITS, BANK DEPOSITS]	1.60	-16.08	
1.00 - 2.50				73	N/A	N/A			Greenish grey SAND with occasional shell fragments (<1mm x 3mm x 3mm). Slightly calcareous. Sand is fine and medium. Possible Crag Group.	(0.60)		
2.00 - 2.50	ES	6						2	[CRAG GROUP (UNDIFFERENTIATED)]			
2.00 - 2.50	ES	7								2.20	-16.68	
									Yellowish brown SAND with abundant shell fragments (<1mm x 3mm x 3mm). Slightly calcareous. Sand is fine to coarse.			
									[CRAG GROUP (UNDIFFERENTIATED)]			
									2.20m to 2.30m; with occasional pockets (<10mm x 20mm) of dark grey silty sand.			
									At 2.75m; with 1 No. thick lamina of orangish brown silty sand, and rare subangular iron concretion fragments (<10mm x 10mm x 15mm).			
								3				
									At 3.10m; with 1 No. thick lamina of orangish brown silty sand, and rare subangular iron concretion fragments (<10mm x 10mm x 15mm). 3.25m to 3.30m; very thin bed of orangish brown slightly silty sand with occasional shell fragments (<5mm x 5mm x 5mm).	(1.80)		
2.50 - 4.00				100	N/A	N/A						
								4		4.00	-18.48	
									Yellowish brown SAND with rare to occasional shell fragments (<5mm x 5mm x 5mm). Slightly calcareous. Sand is fine and medium.			
									[CRAG GROUP (UNDIFFERENTIATED)]			
									4.67m to 4.75m; with 1 No. pocket (10mm x 70mm) of dark grey and black very silty sand.	(1.30)		
4.00 - 5.50				97	N/A	N/A						
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650826.31 N264254.26	Ground Elevation (m Datum)	-14.48	Sheet 2 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
										5.30	-19.78	
5.50 - 7.00				100	N/A	N/A		6	Orangish brown becoming greenish brown SAND with rare to occasional shell fragments (<5mm x 5mm x 5mm). Sightly calcareous. Sand is fine and medium. [CRAG GROUP (UNDIFFERENTIATED)] 5.30m to 6.35m; with extremely closely to closely spaced thin and thick laminae of orangish brown silty sand, with occasional angular and subangular iron concretion fragments (<5mm x 5mm x5mm). 5.60m to 5.70m; slightly gravelly. Gravel is subangular and subrounded medium and coarse of flint. 6.35m to 7.00m; with extremely closely and very closely spaced very thin beds with abundant shell fragments (<5mm x 10mm x 10mm). 6.68m to 6.72m; very thin bed of very stiff light grey and dark grey sandy clay with occasional angular very weak grey mudstone fragments (<5mm x 5mm x 5mm). Possibly with mudstone laminae.	(1.70)		
								7		7.00	-21.48	
7.00 - 8.50				100	N/A	N/A		8	Orangish brown SAND with very closely spaced thick laminae and very thin beds of orangish brown and reddish brown slightly silty fine and medium sand, with frequent to abundant shell fragments (bivalve and rare gastropod) (<10mm x 10mm x 50mm). Slightly calcareous. Sand is fine to coarse. [CRAG GROUP (UNDIFFERENTIATED)] 7.40m to 7.85m; slightly gravelly. Gravel is subrounded fine and medium of chert and flint. 7.85m to 8.05m; medium bed orangish brown fine and medium sand with rare shell fragments (<5mm x 5mm x 5mm). 8.15m to 8.57m; medium bed orangish brown fine and medium sand with rare shell fragments (<5mm x 5mm x 5mm).	(3.00)		
8.50 - 10.00				100	N/A	N/A		9		10.00	-24.48	
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650826.31 N264254.26	Ground Elevation (m Datum)	-14.48	Sheet 3 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									Dark grey silty SAND with rare shell fragments (<5mm x 5mm x 5mm). Slightly calcareous. Sand is fine and medium. [CRAG GROUP (UNDIFFERENTIATED)]	(0.66)		
10.00 - 11.50				100	N/A	N/A			Orangish brown SAND with abundant shell fragments (<2mm x 5mm x 5mm). Slightly calcareous. Sand is fine to coarse. [CRAG GROUP (UNDIFFERENTIATED)]	10.66 (0.54)	-25.14	
								11	10.66m to 10.70m; very thin bed of dark orangish brown and grey silty sand with angular and subangular slightly weathered moderately weak grey siltstone fragments (<15mm x 20mm x 30mm).			
									Grey mottled dark grey slightly gravelly silty SAND with occasional shell fragments (<2mm x 5mm x 5mm). Slightly calcareous. Sand is fine to coarse. Gravel is angular and subangular fine and medium of grey calcarenite and mudstone. [CRAG GROUP (UNDIFFERENTIATED)]	11.20 (0.30)	-25.68	
12.00 - 12.55	B	10						12	Brownish grey mottled dark brownish grey (oxidising to yellowish brown) slightly gravelly silty SAND with abundant shell fragments (<1mm x 5mm x 5mm). Slightly calcareous. Sand is fine to coarse. Gravel is fine. [CRAG GROUP (UNDIFFERENTIATED)]	11.50 (1.05)	-25.98	
11.50 - 13.00				100	N/A	N/A						
12.55 - 12.95	D	8							Greenish grey SAND with abundant shell fragments (<1mm x 5mm x 5mm) and occasional pockets (<20mm x 20mm) of grey very silty sand. Calcareous. Sand is fine and coarse. [CRAG GROUP (UNDIFFERENTIATED)]	12.55	-27.03	
13.10 - 13.80	B	9						13				
13.00 - 14.50				100	N/A	N/A				(2.45)		
								14	At 14.30m; with 1 No. subrounded flint pebble (20mm x 20mm x 30mm).			
15.00 - 18.90	B	21							Continued next page	15.00	-29.48	

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650826.31 N264254.26	Ground Elevation (m Datum)	-14.48	Sheet 4 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
14.50 - 16.00				100	N/A	N/A			Greenish grey SAND with rare becoming occasional shell fragments (<1mm x 2mm x 2mm). Slightly calcareous. Sand is fine to coarse. [CRAG GROUP (UNDIFFERENTIATED)]			
									15.50m to 16.00m; with occasional shell fragments.	(1.00)		
								16	Grey and dark grey (possibly oxidising to greenish grey) slightly silty SAND with occasional shell fragments (<1mm x 2mm x 2mm). Slightly calcareous. Sand is fine to coarse. Slight organic odour. [CRAG GROUP (UNDIFFERENTIATED)]	16.00	-30.48	
									At 16.20m; with 1 No. subrounded slightly weathered possible siltstone concretion (15mm x 30mm x 30mm).			
16.00 - 17.50				100	N/A	N/A						
									16.85m to 16.95m; with occasional angular and subangular medium strong brown siltstone fragments (<30mm x 50mm x 80mm).			
								17				
										(2.90)		
								18				
17.50 - 19.00				93	N/A	N/A						
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	18.90	-33.38	
								19				
										(1.00)		
19.50 - 31.00	ES	2										
19.00 - 20.50				40	N/A	N/A						
									Dark grey and grey (possibly oxidising to greenish	19.90	-34.38	
20.00 - 20.40	D	19										

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650826.31 N264254.26	Ground Elevation (m Datum)	-14.48	Sheet 5 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									grey) slightly silty SAND, locally slightly gravelly slightly silty sand, with occasional to frequent shell fragments (<1mm x 2mm x 2mm). Slightly calcareous and calcareous. Sand is fine and medium. Gravel is angular and subangular fine to coarse of calcarenite. [CRAG GROUP (UNDIFFERENTIATED)] 19.90m to 20.40m; slightly gravelly.	(1.20)		
20.60 - 21.00	B	20							20.66m to 20.77m; with 1 No. subangular cobble (60mm x 70mm x 130mm) of calcarenite with abundant inclusions of bivalve, bryozoan and coral fragments.			
								21				
										21.10	-35.58	
20.50 - 22.00				40	N/A	N/A			Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.			
								22				
22.00 - 23.50				0	N/A	N/A						
								23				
										(5.40)		
								24				
23.50 - 25.00				0	N/A	N/A						
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650826.31 N264254.26	Ground Elevation (m Datum)	-14.48	Sheet 6 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
25.00 - 26.50				0	N/A	N/A		26				
									Greenish grey SAND with occasional shell fragments (<1mm x 2mm x 2mm). Slightly calcareous. Sand is fine and medium. [CRAG GROUP (UNDIFFERENTIATED)]	26.50 (0.70)	-40.98	
26.50 - 28.00				47	N/A	N/A		27				
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	27.20 (0.80)	-41.68	
28.00 - 29.50				83	N/A	N/A		28				
									Dark greenish grey SAND with occasional shell fragments (<1mm x 5mm x 5mm). Slightly calcareous. Sand is fine and medium. [CRAG GROUP (UNDIFFERENTIATED)]	28.00 (1.25)	-42.48	
								29				
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	29.25 (0.25)	-43.73	
29.74 - 29.81	D	11							Moderately weak and medium strong grey (oxidising to brown and orangish brown) fine to coarse grained calcareous SANDSTONE/CALCARENITE. Mainly recovered as non intact core (assumed drilling induced) of angular and subangular fragments (<50mm x 90mm x 10mm) with occasional grey and brownish grey weakly cemented slightly silty fine to	29.50 (0.90)	-43.98	
29.84 - 29.90	D	12										

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650826.31 N264254.26	Ground Elevation (m Datum)	-14.48	Sheet 7 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
29.50 - 31.00				93	N/A	N/A			coarse sand, with abundant shell fragments (<5mm x 5mm x 10mm), locally with occasional to frequent orange and brown staining. Possibly highly weathered becoming moderately weathered. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]			
30.36 - 30.43	D	13							29.70m to 30.40m; possibly moderately weathered.	30.40	-44.88	
									Dark grey and greenish grey (oxidising to brown and brownish grey) slightly silty SAND, recovered with occasional to locally frequent angular and subangular weak and moderately weak grey and brown calcareous sandstone/calcarenite fragments (<40mm x 60mm x 80mm), with abundant shell fragments (<5mm x 5mm x 5mm). Calcareous and highly calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	(0.74)		
								31				
									30.90m to 31.00m; assumed zone of core loss.	31.14	-45.62	
31.25 - 31.31	D	18							Weak and moderately weak light grey and off white fine to coarse grained calcareous SANDSTONE/ CALCARENITE. Mainly recovered as non intact core (assumed drilling induced) of angular and subangular fragments (<40mm x 50mm x 60mm), with occasional grey and off white weakly cemented silty fine to coarse sand and abundant shell fragments (<5mm x 5mm x 10mm). Possibly moderately weathered. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	(0.24)		
										31.38	-45.86	
31.00 - 32.50				100	N/A	N/A						
								32	Very stiff indistinctly fissured dark brownish grey slightly sandy CLAY with occasional burrows (<1mm x 3mm) infilled with brown silty clay, and rare tubular agglutinated foraminifera (<1mm x 1mm). Sand is fine. Fissures are possibly very closely and closely spaced, randomly orientated, very tight and tight, with occasional slight brown staining. [LONDON CLAY FORMATION, WALTON MEMBER]			
								33	At 32.95m; with 1 No. pyritised wood fragment (10mm x 10mm x 40mm).			
32.50 - 34.00				100	N/A	N/A				(3.64)		
33.38 - 33.90	B	15										
33.90 - 33.95	D	16										
33.95 - 34.00	D	14						34				
34.00 - 35.50				100	N/A	N/A						

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650826.31 N264254.26	Ground Elevation (m Datum)	-14.48	Sheet 8 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									Stiff and very stiff dark brown silty CLAY, locally sandy clay, with occasional to frequent pockets (<10mm x 20mm) of brown and light brown silty fine sand, and occasional burrows (<1mm x 2mm) infilled with brown silty clay. Micaceous. [HARWICH FORMATION, WRABNESS MEMBER]	35.02	-49.50	
									35.50m to 35.60m; with possibly extremely closely spaced indistinct laminae of light brown silty fine sand.			
								36				
35.50 - 37.00				100	N/A	N/A			36.10m to 36.40m; light brown and indistinctly greenish brown (possibly glauconitic).			
								37		(3.86)		
									37.00m to 37.30m; with possibly very closely spaced indistinct laminae of light brown silty fine sand. 37.09m to 37.15m; thin bed of brown fine and medium sandy clay.			
37.00 - 38.50				100	N/A	N/A			37.66m to 37.75m; with 1 No. inclined (45 degrees) fissure, planar, polished, very tight.			
								38				
									Very stiff dark brown silty CLAY with occasional burrows (<1mm x 2mm) infilled with brown silty clay, and rare pockets (<5mm x 10mm) of light brown silty fine sand. Micaceous. [HARWICH FORMATION, WRABNESS MEMBER]	38.88	-53.36	
								39				
38.50 - 40.00				100	N/A	N/A				(1.47)		
									Continued next page			

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650826.31 N264254.26	Ground Elevation (m Datum)	-14.48	Sheet 9 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
40.00 - 41.50				100	N/A	N/A				40.35	-54.83	
									Very stiff indistinctly fissured dark brown silty CLAY with closely becoming widely spaced very thin and thin beds of dark grey and black tuffaceous silty clay and clayey silt, rarely very weak black tuffaceous mudstone, with rare pockets (<5mm x 10mm) of light brown silty fine sand. Micaceous. Fissures are possibly closely and medium spaced, mainly inclined (40-60 degrees), planar, polished, very tight. [HARWICH FORMATION, WRABNESS MEMBER]			
								41	40.82m to 40.85m; very thin bed of dark brown mottled dark greyish brown slightly tuffaceous slightly sandy silty clay. Sand is fine.			
41.50 - 43.00				100	N/A	N/A			At 41.73m; with 1 No. burrow (5mm x 30mm) infilled with marcasite nodules.	(4.18)		
								42				
								43				
43.00 - 44.50				100	N/A	N/A						
								44	43.86m to 44.60m; with widely spaced very thin and thin beds of dark grey and black tuffaceous silty clay and clayey silt.			
									44.50m to 44.53m; recovered as soft and firm dark brown silty clay with frequent angular mudstone fragments (<15mm x 15mm x 20mm) (assumed drilling induced). Possible very thin bed of very weak dark grey tuffaceous mudstone.	44.53 (0.07) 44.60	-59.01 -59.08	
									Possible LIMESTONE. Recovered as 1 No. subangular medium strong grey, dark grey and brown limestone/argillaceous limestone fragments (80mm x			

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650826.31 N264254.26	Ground Elevation (m Datum)	-14.48	Sheet 10 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
44.50 - 46.00				7	N/A	N/A			90mm x 110mm). Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]			
									Clay with limestone (Driller's description). ASSUMED ZONE OF CORE LOSS.	(1.40)		
								46	Very stiff dark greyish brown silty CLAY with rare pockets (<5mm x 10mm) of brown silty fine sand. Micaceous. [HARWICH FORMATION, WRABNESS MEMBER]	46.00	-60.48	
46.00 - 47.50				100	N/A	N/A				(1.50)		
								47	47.07m to 47.15m; thin bed of very stiff dark grey and black tuffaceous silty clay with angular very weak black tuffaceous mudstone fragments (<20mm x 30mm x 30mm). 47.25m to 47.40m; thin bed of very stiff dark grey and black tuffaceous silty clay.			
									Recovered as soft and firm dark brown mottled grey silty CLAY. Micaceous. [HARWICH FORMATION, WRABNESS MEMBER]	47.50 (0.15) 47.65	-61.98 -62.13	
								48	Recovered as soft and firm dark brown mottled grey silty CLAY with rare to locally frequent angular and subangular medium strong dark grey limestone fragments (<20mm x 30mm x 50mm) (assumed drilling disturbed). Micaceous. Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	(0.53) 48.18	-62.66	
47.50 - 49.00				87	N/A	N/A			47.65m to 47.75m; with frequent limestone fragments. 48.09m to 48.18m; with 1 No. subangular medium strong greyish brown argillaceous limestone fragment (50mm x 90mm x 100mm).			
									Recovered as soft and firm dark brown mottled grey silty CLAY. Micaceous. [HARWICH FORMATION, WRABNESS MEMBER]	(0.62) 48.80	-63.28	
									Clay (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.20)		
								49	Recovered as soft and firm dark brown mottled grey silty CLAY. Micaceous. [HARWICH FORMATION, WRABNESS MEMBER]	49.00 (0.25) 49.25	-63.48 -63.73	
49.00 - 50.50				58	N/A	N/A			Possibly medium strong dark brownish grey argillaceous LIMESTONE. Recovered as non intact core (assumed drilling induced) of angular and subangular fragments (<30mm x 30mm x 30mm) with rare soft brown silty clay. Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	(0.20) 49.45 (0.42)	-63.93	
									Recovered as soft and firm dark brown mottled grey silty CLAY with occasional angular and subangular	49.87	-64.35	

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650826.31 N264254.26	Ground Elevation (m Datum)	-14.48	Sheet 11 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									limestone fragments (<20mm x 20mm x 20mm) (assumed drilling disturbed). Possibly with limestone bands. [HARWICH FORMATION, WRABNESS MEMBER] Clay (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.63)		
										50.50	-64.98	
50.50 - 52.00				100	N/A	N/A		51	Very stiff dark brown and greyish brown slightly tuffaceous CLAY with closely and medium spaced, rarely very closely spaced, very thin and thin beds of dark grey and black tuffaceous silty clay and clayey silt, with rare to occasional pockets (<5mm x 10mm) of light brown silty fine sand. Micaceous. [HARWICH FORMATION, WRABNESS MEMBER]	(2.30)		
52.00 - 52.05	D	17						52	At 52.60m; with 1 No. thin lamina of black pyritised wood.			
52.00 - 53.50				100	N/A	N/A				52.80	-67.28	
									Very stiff dark brown slightly sandy silty CLAY with occasional to frequent pockets (<5mm x 10mm) of brown and light brown silty fine sand. Micaceous. Sand is fine. Possible Harwich Formation, Orwell Member. [HARWICH FORMATION, ORWELL MEMBER]	(0.20)		
								53		53.00	-67.48	
									Very stiff dark brown silty CLAY becoming slightly sandy silty clay, locally possibly sandy and very sandy, with rare becoming occasional to frequent pockets (<5mm x 10mm) of brown and light brown silty fine sand. Micaceous. Sand is fine. Possible Harwich Formation, Orwell Member. [HARWICH FORMATION, ORWELL MEMBER] 53.50m to 53.85m; possibly sandy becoming very sandy, with extremely closely spaced thin laminae of light brown silty fine sand.	(1.79)		
								54				
53.50 - 55.00				100	N/A	N/A			54.40m to 54.79m; with possibly very closely and closely spaced indistinct laminae of brown and light brown silty fine sand, with occasional to frequent pockets of brown and light brown silty fine sand. 54.60m to 54.79m; slightly sandy.			
										54.79	-69.27	
									Very stiff dark brown CLAY with occasional pockets (<5mm x 5mm) of brown silty fine sand. Micaceous. Possible Harwich Formation, Orwell Member.	(0.21)		
										55.00	-69.48	

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Notes

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650826.31 N264254.26	Ground Elevation (m Datum)	-14.48	Sheet 12 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									[HARWICH FORMATION, ORWELL MEMBER] End of Borehole at 55.00 m			
								56				
								57				
								58				
								59				

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT2_SB_04**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650923.81 N264254.98	Ground Elevation (m Datum)	-14.51	Sheet 1 of 1
Hole Type	Sonic Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	55.00	SD	22/06/2019	24/06/2019	LS600 : Excalibur	Sonic	118mm	TM/PJ	DM/MH/ PC/RL/AF	

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
22/06/2019	19:00:00	0.00	0.00	
22/06/2019	23:45:00	7.00	7.00	
23/06/2019	00:15:00	7.00	7.00	
23/06/2019	11:45:00	28.00	28.00	
23/06/2019	12:15:00	28.00	28.00	
23/06/2019	23:45:00	44.50	44.50	
24/06/2019	00:15:00	44.50	44.50	
24/06/2019	06:00:00	55.00	55.00	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
55.00	118	55.00	150

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
0.00	1.00	100
1.00	2.50	100
2.50	4.00	100
4.00	5.50	100
5.50	7.00	100
7.00	8.50	100
8.50	10.00	100
10.00	11.50	100
11.50	13.00	100
13.00	14.50	100
14.50	16.00	100
16.00	17.50	100
17.50	19.00	100
19.00	20.50	100
20.50	22.00	100
22.00	23.50	100
23.50	25.00	100
25.00	26.50	100
26.50	28.00	100
28.00	29.50	100
29.50	31.00	100
31.00	34.00	100
34.00	37.00	100
37.00	38.50	100
38.50	40.00	100
40.00	41.50	100
41.50	43.00	100
43.00	44.50	100
44.50	46.00	100
46.00	47.50	100
47.50	49.00	100
49.00	50.50	100
50.50	52.00	100
52.00	53.50	100
53.50	55.00	100

General Remarks

1. Deck to mud was 24.50m; deck level was 9.99m above OD. 2. Driller noted casing stuck in adjacent paired borehole IT2_SPT_04 during parallel drilling, possibly causing disturbance to ground material between 28.00m and 36.40m. 3. Driller noted 3m run with bag was used (instead of liner) between 31.00m and 37.00m to aid recovery. 4. Point load tests cannot be performed at scheduled depths between 6.00m and 32.00m due to unsuitable material.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	CAY	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 29/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650923.81 N264254.98	Ground Elevation (m Datum)	-14.51	Sheet 1 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 1.00				15	N/A	N/A			Sand (Driller's description). ASSUMED ZONE OF CORE LOSS. Driller noted washed out.	(0.85)		
0.85 - 1.00	ES	1								0.85	-15.36	
1.00 - 1.50	ES	2						1	Dark grey silty SAND, locally slightly gravelly silty sand with abundant shell fragments (<1mm x 5mm x 19mm). Calcareous. Sand is mainly fine and medium. Gravel is subangular and subrounded medium and coarse of mudstone. [MARINE DEPOSITS, BANK DEPOSITS]			
1.00 - 1.50	ES	3								(1.10)		
1.50 - 1.95	ES	4										
1.50 - 1.95	ES	5										
1.00 - 2.50				100	N/A	N/A						
								2	Dark orangish brown slightly cemented SAND with abundant shell fragments (<2mm x 10mm x 10mm). Calcareous. Sand is fine to coarse. [CRAG GROUP (UNDIFFERENTIATED)]	1.95 (0.22)	-16.46	
									Orangish brown gravelly slightly silty SAND with very closely to medium spaced very thin and thin beds of dark orangish brown silty sand, with frequent shells (<2mm x 15mm x 15mm) and shell fragments (<2mm x 5mm x 5mm). Calcareous. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of flint, siltstone and sandstone. [CRAG GROUP (UNDIFFERENTIATED)]	2.17	-16.68	
								3				
2.50 - 4.00				100	N/A	N/A						
								4				
										(4.83)		
4.00 - 5.50				100	N/A	N/A						
									Continued next page			

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650923.81 N264254.98	Ground Elevation (m Datum)	-14.51	Sheet 2 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
6.10 - 6.70 5.50 - 7.00	B	9		100	N/A	N/A		6	6.10m to 6.70m; gravel is mainly fine and medium.			
								7	Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	7.00 (0.30)	-21.51	
7.30 - 8.50 7.00 - 8.50 7.90 - 8.50	B D	7 8		80	N/A	N/A		8	Orangish brown slightly gravelly silty SAND with occasional to frequent shell fragments (<2mm x 5mm x 10mm). Calcareous. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of flint, siltstone and sandstone. [CRAG GROUP (UNDIFFERENTIATED)] 7.65m to 7.80m; with very closely and closely spaced very thin beds of dark orangish brown silty sand.	7.30 (1.20)	-21.81	
8.50 - 10.00				27	N/A	N/A		9	Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	8.50 (1.10)	-23.01	
									Light greenish grey SAND. Slightly Calcareous. Sand is fine and medium. [CRAG GROUP (UNDIFFERENTIATED)]	9.60	-24.11	
									Continued next page			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_04**	
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Coordinates (m)	E650923.81 N264254.98	Ground Elevation (m Datum)	-14.51	Sheet 3 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
										(1.16)		
10.00 - 11.50				60	N/A	N/A				10.76	-25.27	
									Greenish grey slightly gravelly SAND with frequent shell fragments (<1mm x 5mm x 5mm). Calcareous. Sand is fine to coarse. Gravel is subrounded fine of flint. [CRAG GROUP (UNDIFFERENTIATED)]	(0.14)		
								11		10.90	-25.41	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.60)		
										11.50	-26.01	
									Greenish grey SAND with frequent shell fragments (<1mm x 5mm x 5mm). Calcareous. Sand is fine to coarse. [CRAG GROUP (UNDIFFERENTIATED)] 11.50m to 11.72m; greyish brown. Possible cuttings. At 11.72m; with 1 No. subrounded brown mudstone fragment (5mm x 10mm x 10mm).			
								12		(1.05)		
11.50 - 13.00 12.30 - 12.60	D	10		77	N/A	N/A						
										12.55	-27.06	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.			
								13		(1.00)		
										13.55	-28.06	
13.00 - 14.50				63	N/A	N/A			Greenish grey slightly gravelly silty SAND with frequent to abundant shell fragments (<2mm x 10mm x 15mm). Calcareous. Sand is fine to coarse. Gravel is subrounded fine to coarse of siltstone and rare quartz. [CRAG GROUP (UNDIFFERENTIATED)]			
								14		(1.93)		
14.90 - 15.30	B	14							14.90m to 15.30m; gravel is mainly fine and medium.			
									Continued next page			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650923.81 N264254.98	Ground Elevation (m Datum)	-14.51	Sheet 4 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
14.50 - 16.00 15.30 - 15.70	B	13		100	N/A	N/A						
									Greenish grey slightly gravelly SAND with very closely and closely spaced very thin beds of brown clay, with rare to occasional shell fragments (<1mm x 5mm x 5mm) and occasional pocket (<10mm x 10mm x 10mm) of brown clay. Calcareous. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse of brown mudstone. [CRAG GROUP (UNDIFFERENTIATED)]	15.48 (0.52)	-29.99	
								16	Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	16.00 (0.40)	-30.51	
16.40 - 17.40	B	12							Greenish grey gravelly SAND with rare to occasional shell fragments (<1mm x 5mm x 5mm) and occasional pocket (<10mm x 10mm x 10mm) of brown clay. Calcareous. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of brown mudstone. [CRAG GROUP (UNDIFFERENTIATED)]	16.40	-30.91	
16.00 - 17.50				73	N/A	N/A			At 16.82m; with 1 bivalve (Pectin) shell fragment (1mm x 10mm x 10mm).	(0.75)		
								17	Greenish grey SAND with rare to occasional shell fragments (<1mm x 5mm x 5mm) and rare bivalve (possible Pectin) shell fragments (<1mm x 5mm x 5mm) and gastropod shells (<2mm x 3mm x 3mm). Calcareous. Sand is fine to coarse. [CRAG GROUP (UNDIFFERENTIATED)]	17.15	-31.66	
									At 17.70m; with 1 No. wood fragment (5mm x 5mm x 20mm).	(1.35)		
17.50 - 19.00				80	N/A	N/A		18				
									Greenish grey slightly silty SAND. Slightly Calcareous. Sand is fine and medium. [CRAG GROUP (UNDIFFERENTIATED)]	18.50 (0.20)	-33.01	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS/NO RECOVERY.	18.70	-33.21	
								19				
19.00 - 20.50				0	N/A	N/A				(1.80)		
									Continued next page			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650923.81 N264254.98	Ground Elevation (m Datum)	-14.51	Sheet 5 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
										20.50	-35.01	
									Greenish grey slightly silty SAND. Slightly Calcareous. Sand is fine and medium. [CRAG GROUP (UNDIFFERENTIATED)]			
								21				
20.50 - 22.00				95	N/A	N/A				(2.30)		
								22	21.93m to 22.00m; assumed zone of core loss.			
									22.50m to 22.69m; thin bed of greenish grey slightly silty sand with frequent shell fragments (<1mm x 5mm x 10mm). Calcareous.			
22.00 - 23.50				53	N/A	N/A				22.80	-37.31	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.			
								23		(0.70)		
										23.50	-38.01	
									Greenish grey slightly silty SAND. Slightly Calcareous. Sand is mainly fine and medium. [CRAG GROUP (UNDIFFERENTIATED)]			
								24		(1.07)		
23.50 - 25.00				71	N/A	N/A				24.57	-39.08	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.			
										(0.43)		
										25.00	-39.51	
									Continued next page			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650923.81 N264254.98	Ground Elevation (m Datum)	-14.51	Sheet 6 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
25.40 - 25.80	B	11							Greenish grey slightly silty SAND. Slightly calcareous. Sand is mainly fine and medium. [CRAG GROUP (UNDIFFERENTIATED)]	(0.80)		
25.00 - 26.50				53	N/A	N/A				25.80	-40.31	
								26	Sand (Driller's description). ASSUMED ZONE OF CORE LOSS/NO RECOVERY.			
										(2.20)		
26.50 - 28.00				0	N/A	N/A		27				
								28	Sand with occasional boulders (Driller's description). POOR RECOVERY/NO RECOVERY. 28.00m to 29.50m (30mm recovery); recovered as subangular and subrounded strong light brown slightly calcareous siltstone fragments (<20mm x 45mm x 60mm) with brown staining.	28.00	-42.51	
28.00 - 29.50				2	N/A	N/A						
								29				
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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650923.81 N264254.98	Ground Elevation (m Datum)	-14.51	Sheet 7 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
29.50 - 31.00				0	N/A	N/A						
								31		(6.00)		MR/ AZCL
								32				
31.00 - 34.00				0	N/A	N/A						
								33				
34.00 - 34.50	B	15						34	Light grey becoming dark grey (oxidising to greenish brown and brown) slightly gravelly slightly silty SAND with occasional shell fragments (<1mm x 2mm x 2mm). Slightly calcareous. Sand is mainly fine and medium. Gravel is mainly fine and medium. [CRAG GROUP (UNDIFFERENTIATED)]	34.00	-48.51	

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650923.81 N264254.98	Ground Elevation (m Datum)	-14.51	Sheet 8 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
34.00 - 37.00				100	N/A	N/A			35.10m to 35.30m; with 3 No. subrounded dark brown (iron stained) siltstone fragments (<20mm x 30mm x 50mm).	(2.41)		
								36				
									Firm fissured brown slightly sandy silty CLAY. Micaceous. Pyritic. Sand is fine and medium. Fissures are extremely closely and very closely spaced, randomly orientated, planar and undulating, smooth, polished, very tight. Possibly reworked Harwich Formation. [HARWICH FORMATION (UNDIFFERENTIATED)]	36.41	-50.92	
									36.41m to 36.51m; with frequent pockets (possible burrows) (<30mm x 30mm) infilled with grey and brown fine and medium sand.	(0.20)		
										36.61	-51.12	
										(0.39)		
								37		37.00	-51.51	
									Stiff brown silty CLAY with occasional pockets/lenses (<2mm x 20mm) of grey silty fine sand and fine sand sized pyrite. Micaceous. Possible Harwich Formation. [HARWICH FORMATION (UNDIFFERENTIATED)]	(0.20)		
									36.60m to 36.70m; with abundant fine sand sized disseminated pyrite.	37.20	-51.71	
37.00 - 38.50				100	N/A	N/A			Brown SAND with occasional pockets (<20mm x 30mm) of soft brown clay. Possible Harwich Formation, Channel Sands. [HARWICH FORMATION (UNDIFFERENTIATED)]			
									At 37.13m; with 1 No. subrounded brown siltstone pebble (10mm x 15mm x 15mm).			
								38	Very stiff, locally fissured, brown, locally grey, silty CLAY, locally slightly sandy silty clay, with occasional becoming abundant pockets/lenses (<10mm x 20mm) of light brown, dark brown and grey silty fine sand. Sand is fine and medium. Possible Harwich Formation. [HARWICH FORMATION (UNDIFFERENTIATED)]			
									37.95m to 38.25m; grey, slightly sandy. Sand is mainly fine.	(2.15)		
									38.04m to 38.06m; very thin bed of sandy clay. Sand is mainly fine.			
									38.50m to 38.63m; with 1 No. inclined (60-70 degrees) very thin bed of light brown sandy clay.			
									38.50m to 38.85m; with abundant inclined (60-70 degrees) lenses/pockets (<10mm x 40mm) of light brown, dark brown and grey silty sand. Sand is mainly fine.			
								39				
38.50 - 40.00				100	N/A	N/A				39.35	-53.86	
									Very stiff, locally fissured, greyish brown, locally brown CLAY with closely and medium spaced very thin and thin beds of very stiff dark bluish grey and black tuffaceous silty clay, with rare lenses (<5mm x 40mm) of black tuffaceous silty clay. Micaceous. Fissures are very closely and closely spaced, locally extremely closely spaced, inclined (50-70 degrees, locally subvertical), planar, smooth, very tight. Possible Harwich Formation, Wrabness Member.			
39.70 - 39.80	D	16										
39.90 - 40.00	C	5										

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SB_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650923.81 N264254.98	Ground Elevation (m Datum)	-14.51	Sheet 9 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
40.00 - 41.50				100	N/A	N/A			[HARWICH FORMATION, WRABNESS MEMBER] At 39.70m; with 1 No. possibly pyritised burrow (<5mm x 5mm x 18mm).			
								41		(3.65)		
41.50 - 43.00				100	N/A	N/A			41.45m to 45.55m; with 2 No. medium strong, locally strong, light brownish grey limestone fragments (<70mm x 80mm x 90mm). Possible Harwich Stone Band.			
								42	42.70m to 43.00m; fissured. Fissures are extremely closely and very closely spaced, subvertical.			
								43	Recovered as soft and firm (possibly drilling disturbed) brown silty clay becoming stiff black tuffaceous silty CLAY. Possible Harwich Formation, Wrabness member.	43.00	-57.51	
									[HARWICH FORMATION, WRABNESS MEMBER] Below 43.10m; black tuffaceous silty clay.	(0.25) 43.25	-57.76	
43.00 - 44.50				100	N/A	N/A			Strong and very strong dark grey LIMESTONE. Recovered as partially non intact core (probably drilling induced) of angular and subangular fragments (<50mm x 50mm x 70mm) with very soft and soft dark grey clay. Possible Hawich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	(0.30) 43.55	-58.06	
								44	43.36m to 43.47m; thin bed of moderately weak, locally strong, black tuffaceous claystone/limestone with stiff and very stiff black tuffaceous clay.	(0.95)		
									Very stiff, locally fissured, greyish brown silty CLAY with medium spaced very thin and thin beds of greenish grey, bluish grey and black tuffaceous silty clay, with frequent indistinct pockets of black tuffaceous clay and rare pockets (<5mm x 5mm x 5mm) of fine sand sized pyrite. Locally micaceous. Fissures are rare, possibly widely spaced, inclined (40-70 degrees), planar, smooth, very tight. Possible Harwich Formation, Wrabness Member. [HARWICH FORMATION, WRABNESS MEMBER]	44.50	-59.01	
									Stiff, locally fissured, greyish brown silty CLAY with medium spaced very thin and thin beds of greenish			

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Client	NNB Generation Company (SZC) Limited			**IT2_SB_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650923.81 N264254.98	Ground Elevation (m Datum)	-14.51	Sheet 10 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
44.50 - 46.00				100	N/A	N/A			grey, bluish grey and black tuffaceous silty clay, with frequent indistinct pockets of black tuffaceous clay and rare pockets (<5mm x 5mm x 5mm) of fine sand sized pyrite. Locally micaceous. Fissures are rare, possibly widely spaced, locally very closely spaced, inclined (40-80 degrees), planar, smooth, very tight. Possible Harwich Formation, Wrabness Member. [HARWICH FORMATION, WRABNESS MEMBER]			
									45.10m to 46.00m; locally with indistinctly greenish brown (possibly glauconitic) clayey silt.			
								46				
									46.20m to 46.26m; possibly very thin bed of medium strong black claystone (25mm x full core diameter) over very thin bed (30mm) of very soft black tuffaceous clay.			
46.00 - 47.50				100	N/A	N/A				(4.50)		
								47				
									47.50m to 47.75m; fissured. Fissures are very closely spaced, inclined (60-80 degrees).			
								48				
									At 48.10m; with 1 No. pyrite nodule (20mm x 20mm x 25mm).			
47.50 - 49.00				100	N/A	N/A						
								49		49.00	-63.51	
									Very stiff, locally fissured, greyish brown CLAY with medium spaced very thin and thin beds of greenish grey, bluish grey and black tuffaceous silty clay, with frequent indistinct pockets of black tuffaceous clay and rare pockets (<5mm x 5mm x 5mm) of fine sand sized pyrite. Locally micaceous. Fissures are rare, possibly widely spaced, locally very closely spaced, inclined (40-70 degrees), planar, smooth, very tight. Possible Harwich Formation, Wrabness Member. [HARWICH FORMATION, WRABNESS MEMBER]	(1.40)		
49.00 - 50.50				100	N/A	N/A						
49.90 - 50.00	D	17										
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Client	NNB Generation Company (SZC) Limited			**IT2_SB_04**	
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Coordinates (m)	E650923.81 N264254.98	Ground Elevation (m Datum)	-14.51	Sheet 11 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
50.50 - 50.60	C	6							Medium strong grey LIMESTONE. Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	50.40 (0.10) 50.50	-64.91 -65.01	
50.50 - 52.00				100	N/A	N/A		51	Very stiff, locally fissured, greyish brown silty CLAY with medium spaced, locally very closely and closely spaced, very thin and thin beds of greenish grey, bluish grey and black tuffaceous silty clay, with frequent indistinct pockets of black tuffaceous clay and rare pockets (<5mm x 5mm x 5mm) of fine sand sized pyrite. Locally micaceous. Fissures are rare, possibly widely spaced, locally very closely spaced, inclined (40-70 degrees), planar, smooth, very tight. Possible Harwich Formation, Wrabness Member. [HARWICH FORMATION, WRABNESS MEMBER] 50.60m to 50.95m; with 3 No. very closely spaced very thin and thin beds (<80mm) of greenish black tuffaceous clay.	(2.70)		
52.00 - 53.50				100	N/A	N/A		52	52.00m to 52.10m; possibly thin bed of strong light greyish brown calcareous claystone (100mm x full core diameter). At 52.15m; with 1 No. subrounded black calcareous siltstone gravel (30mm x 30mm x 40mm). 52.85m to 53.20m; with 3 No. very closely and closely spaced very thin beds of greenish black tuffaceous clay.			
53.50 - 55.00				100	N/A	N/A		53	Stiff brown silty CLAY, locally slightly sandy silty clay, with occasional burrows (<2mm x 2mm x 30mm) infilled with light grey silt, and rare indistinct pockets (<15mm x 20mm x 20mm) of black tuffaceous clay. Sand is fine. Possible Harwich Formation, Orwell Member. [HARWICH FORMATION, ORWELL MEMBER] 53.25m to 53.28m; very thin bed (25mm) of brown silty fine sand. At 53.65m; with 1 No. subrounded moderately weak dark grey fine grained sandstone pebble (20mm x 30mm x 35mm).	53.20	-67.71	
								54	53.95m to 54.10m; with 2 No. subrounded black claystone gravel (<12mm x 12mm x 20mm). At 54.45m; with 1 No. very thin bed (25mm) of stiff black tuffaceous clay, with rare subrounded fine gravel of mudstone. 54.85m to 55.00m with occasional possibly extremely closely spaced indistinct laminae of light brown fine sandy silt.	(1.80)		
									End of Borehole at 55.00 m	55.00	-69.51	

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_01**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648131.21 N264197.55	Ground Elevation (m Datum)	-7.28	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	24.00	RO	09/06/2019	09/06/2019	Comacchio : Excalibur	NCD	102mm	JL/JW	GDF/DM/MH	
24.00	55.00	RC	09/06/2018	10/06/2019	Comacchio : Excalibur	Geobor	146mm	JL/JW	GDF/DM/MH	Switched to Geobor at 24.00m due to ground conditions; core not retained.

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
09/06/2019	04:30:00	0.00	1.10	Good
09/06/2019	10:55:00	22.00	22.00	
09/06/2019	12:07:00	22.00	22.00	
09/06/2019	23:00:00	42.00	42.00	
10/06/2019	00:10:00	42.00	42.00	
10/06/2019	08:45:00	55.00	55.00	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
24.00	178	1.10	250
55.00	146	24.00	178
		55.00	146

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)
0.00	2.00	P	0	Clear	
2.00	4.00	P	0	Clear	
4.00	6.00	P	0	Clear	
6.00	8.00	P	0	Clear	
8.00	10.00	P	0	Clear	
10.00	12.00	P	0	Clear	
12.00	14.00	P	0	Clear	
14.00	16.00	P	0	Clear	
16.00	18.00	P	0	Clear	
18.00	20.00	P	0	Clear	
20.00	22.00	P	0	Clear	
22.00	24.00	P	0	Clear	
24.00	26.00	W	100	Grey	
26.00	28.00	W	100	Grey	
28.00	30.00	W	100	Grey	
30.00	32.00	W	100	Grey	
32.00	34.00	W	100	Grey	
34.00	36.00	W	100	Grey	
36.00	38.00	W	100	Grey	
38.00	40.00	W	100	Grey	
40.00	42.00	W	100	Grey	
42.00	44.00	W	100	Grey	
44.00	46.00	W	100	Grey	
46.00	48.00	W	100	Grey	
48.00	50.00	W	100	Grey	
50.00	52.00	W	100	Grey	
52.00	54.00	W	100	Grey	
54.00	55.00	W	100	Grey	

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)

General Remarks

1. Deck to mud was 16.70m; deck level was 9.42m above OD. 2. The borehole was drilled adjacent to IT2_SB_01 to achieve the associated SPT data. 3. Geophysical borehole logging was carried out on completion of drilling; results reported separately. 4. Descriptions of the SPT D samples are based on the disturbed material recovered from the SPT liners; these descriptions alone cannot provide representative information to infer strata descriptions or boundaries; the strata descriptions and boundaries given are based on driller's records only. 5. Core logging/logging of ends of core liners was not required.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	ROR	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 29/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648131.21 N264197.55	Ground Elevation (m Datum)	-7.28	Sheet 1 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 0.34 0.00 - 0.34	D SPT	1	50/190 mm (S)						SAND (Driller's Description). 0.00m to 0.34m (340mm recovery); very dense yellowish brown slightly gravelly sand with some shell fragments (<3mm x 6mm). Slightly calcareous. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of flint and chert.			
								1				
2.00 - 2.45 2.00 - 2.45	D SPT	2	N = 45 (S)					2	2.00m to 2.45m (280mm recovery); dense greenish grey slightly gravelly sand with frequent shell fragments (<2mm x 4mm). Calcareous. Sand is fine to coarse. Gravel is angular to subrounded fine and medium of chert and flint.			
								3				
4.00 - 4.45 4.00 - 4.45	D SPT	3	N = 34 (S)					4	4.00m to 4.45m (300mm recovery); recovered as gravel (100mm) over possibly dense greenish grey sand with frequent shell fragments (<1mm x 3mm). Calcareous. Sand is fine to coarse. Gravel is rounded medium and coarse of chert and flint.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648131.21 N264197.55	Ground Elevation (m Datum)	-7.28	Sheet 2 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
6.00 - 6.45 6.00 - 6.45	D SPT	4	N = 30 (S)					6	6.00m to 6.45m (200mm recovery); medium dense to dense greenish grey sand with very closely spaced thin laminae of orangish brown clayey sand. Sand is fine to coarse.			
								7				
8.00 - 8.45 8.00 - 8.45	D SPT	5	N = 35 (S)					8	8.00m to 8.45m (240mm recovery); dense orangish brown sand with 1 No. thin lamina of black possible carbonaceous material. Slightly calcareous. Sand is fine.			
								9				
10.00 - 10.42 10.00 - 10.42	D SPT	6	50/270 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_01**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648131.21 N264197.55	Ground Elevation (m Datum)	-7.28	Sheet 3 of 11
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									10.00m to 10.42m (370mm recovery); very dense dark grey sand with extremely closely and very closely spaced thin and thick laminae of firm grey clay. Slightly calcareous. Sand is fine to coarse.			
								11				
12.00 - 12.39 12.00 - 12.39	D SPT	7	50/240 mm (S)					12	12.00m to 12.39m (310mm recovery); soft grey, locally orange, slightly gravelly clay (140mm) over very dense sand with very closely spaced laminae of firm grey clay. Slightly calcareous. Sand is fine to coarse. Gravel is subrounded fine and medium of flint.			
								13				
14.00 - 14.19	SPT		50/70 mm (S)					14	14.00m to 14.19mm; no recovery.			

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648131.21 N264197.55	Ground Elevation (m Datum)	-7.28	Sheet 4 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
16.00 - 16.33 16.00 - 16.33	D SPT	8	50/180 mm (S)					16	16.00m to 16.33m (180mm recovery); very dense grey sand with 1 No. thin lamina of black carbonaceous material (possibly lignite). Slightly calcareous. Sand is fine to coarse.			
								17				
18.00 - 18.31 18.00 - 18.31	D SPT	9	50/160 mm (S)					18	18.00m to 18.31m (190mm recovery); very dense greenish grey sand with abundant shell fragments (<2mm x 4mm). Calcareous. Sand is fine to coarse.			
								19				
20.00 - 20.23 20.00 - 20.23	D SPT	10	50/80 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_01**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648131.21 N264197.55	Ground Elevation (m Datum)	-7.28	Sheet 5 of 11
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									20.00m to 20.23m (230mm recovery); very dense grey sand with abundant shell fragments (<6mm x 10mm). Slightly calcareous. Sand is fine to coarse.	(41.00)		
								21				
22.00 - 22.23 22.00 - 22.23	D SPT	11	50/80 mm (S)					22	22.00m to 22.23m (230mm recovery); brownish grey slightly gravelly sand (40mm) over very dense grey silty sand with abundant shell fragments (<4mm x 5mm). Calcareous. Sand is fine to coarse. Gravel is subangular fine and medium of flint.			
								23				
24.00 - 24.21 24.00 - 24.21	D SPT	12	50/105 mm (S)					24	24.00m to 24.21m (210mm recovery); very dense grey becoming brownish grey sand with abundant shell fragments (<3mm x 4mm). Slightly calcareous. Sand is fine to coarse.			

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648131.21 N264197.55	Ground Elevation (m Datum)	-7.28	Sheet 6 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
26.00 - 26.18 26.00 - 26.18	D SPT	13	50/105 mm (S)					26	26.00m to 26.18m (180mm recovery); grey sand with abundant shell fragments (<3mm x 4mm) (110mm) over light brownish grey slightly gravelly sand with some shell fragments (<2mm x 3mm). Calcareous. Sand is fine to coarse. Gravel is subangular fine to coarse of mudstone.			
								27				
28.00 - 28.21 28.00 - 28.21	D SPT	14	50/95 mm (S)					28	28.00m to 28.21m (210mm recovery); very dense greenish grey, locally mottled dark grey, sand with abundant to frequent shell fragments (<1mm x 3mm x 4mm). Calcareous. Sand is fine to coarse.			
								29				
30.00 - 30.19 30.00 - 30.19	D SPT	15	50/105 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_01**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648131.21 N264197.55	Ground Elevation (m Datum)	-7.28	Sheet 7 of 11
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									30.00m to 30.19m (190mm recovery); very dense greenish grey sand with frequent shell fragments (<1mm x 2mm x 2mm). Calcareous. Sand is fine to coarse.			
								31				
32.00 - 32.16 32.00 - 32.16	D SPT	16	50/80 mm (S)					32	32.00m to 32.16m (160mm recovery); very dense greenish grey slightly gravelly sand with frequent shell fragments (<1mm x 2mm x 2mm). Calcareous. Sand is fine to coarse. Gravel is subangular fine of flint/chert.			
								33				
34.00 - 34.21 34.00 - 34.21	D SPT	17	50/85 mm (S)					34	34.00m to 34.21m (210mm recovery); very dense greenish grey sand with abundant becoming frequent shell fragments (<1mm x 3mm x 4mm). Calcareous. Sand is fine to coarse.			

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648131.21 N264197.55	Ground Elevation (m Datum)	-7.28	Sheet 8 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
36.00 - 36.17 36.00 - 36.17	D SPT	18	50/85 mm (S)					36	36.00m to 36.17m (170mm recovery); very dense greenish grey sand with frequent shell fragments (<1mm x 2mm x 3mm). Calcareous. Sand is fine to coarse.			
								37				
38.00 - 38.20 38.00 - 38.20	D SPT	19	50/105 mm (S)					38	38.00m to 38.20m (200mm recovery); very dense greenish grey slightly silty sand with abundant becoming frequent shell fragments (<1mm x 2mm x 2mm). Calcareous. Sand is fine to coarse.			
								39				
40.00 - 40.20 40.00 - 40.20	D SPT	20	50/100 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648131.21 N264197.55	Ground Elevation (m Datum)	-7.28	Sheet 9 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									40.00m to 40.20m (200mm recovery); very dense brownish grey sand with abundant shell fragments (<1mm x 2mm x 3mm) and 1 No. thick lamina of dark grey fine and medium sand. Calcareous. Sand is fine to coarse.			
								41	CLAY (Driller's Description).	41.00	-48.28	
42.00 - 42.45 42.00 - 42.45	D SPT	21	N = 33 (S)					42	42.00m to 42.45m (350mm SPT D recovery); very stiff fissured dark grey silty clay. Micaceous.			
								43				
44.00 - 44.45 44.00 - 44.45	D SPT	22	N = 30 (S)					44	44.00m to 44.45m (430mm SPT D recovery); very stiff dark grey silty clay. Micaceous.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648131.21 N264197.55	Ground Elevation (m Datum)	-7.28	Sheet 10 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									45.40m to 45.53m; possibly medium strong to strong black to dark grey mudstone.			
46.00 - 46.45 46.00 - 46.45	D SPT	23	N = 31 (S)					46	46.00m to 46.45m (350mm SPT D recovery); very stiff dark grey, locally brownish grey, silty clay. Micaceous.			
								47	47.00m to 47.05m; possibly extremely weak mudstone.			
48.00 - 48.45 48.00 - 48.45	D SPT	24	N = 28 (S)					48	48.00m to 48.45m (420mm SPT D recovery); very stiff dark grey silty clay. Micaceous.	(14.00)		
								49				
50.00 - 50.45 50.00 - 50.45	D SPT	25	N = 31 (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648131.21 N264197.55	Ground Elevation (m Datum)	-7.28	Sheet 11 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									50.00m to 50.45m (350mm SPT D recovery); very stiff dark grey, locally light grey, silty clay. Micaceous.			
								51				
52.00 - 52.45 52.00 - 52.45	D SPT	26	N = 39 (S)					52	52.00m to 52.45m (410mm SPT D recovery); very stiff fissured dark grey silty clay. Micaceous.			
								53				
54.00 - 54.45 54.00 - 54.45	D SPT	27	N = 49 (S)					54	54.00m to 54.45m (280mm SPT D recovery); very stiff dark grey silty clay with extremely closely spaced thin laminae of light grey silt. Micaceous.			
									End of Borehole at 55.00 m	55.00	-62.28	

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_02**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E649757.46 N264232.72	Ground Elevation (m Datum)	-7.42	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	24.00	RO	13/07/2019	13/07/2019	Comacchio : Excalibur	NCD	102mm	JL/JW	MH/PC	
24.00	55.00	RC	13/07/2019	14/07/2019	Comacchio : Excalibur	Geobor	146mm	JL/JW	MH/PC/ GDF	Switched to Geobor at 24.00m due to ground conditions; core retained from 46.00m as instructed by NNB.

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
13/07/2019	01:15:00	0.00	1.30	Good
13/07/2019	11:45:00	20.00	20.00	
13/07/2019	12:00:00	20.00	20.00	
13/07/2019	23:15:00	38.00	38.00	
14/07/2019	00:20:00	38.00	38.00	
14/07/2019	09:20:00	55.00	55.00	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
1.30	250	1.30	250
24.00	178	24.00	178
55.00	146	55.00	146

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)
0.00	2.00	P	100	Grey	00:08
2.00	4.00	P	100	Grey	00:05
4.00	6.00	P	100	Grey	00:05
6.00	8.00	P	100	Grey	00:06
8.00	10.00	P	100	Grey	00:03
10.00	12.00	P	100	Grey	00:09
12.00	14.00	P	100	Grey	00:08
14.00	16.00	P	100	Grey	00:11
16.00	18.00	P	100	Grey	
18.00	20.00	P	100	Grey	
20.00	22.00	P	100	Grey	
22.00	24.00	P	100	Grey	
24.00	26.00	P	100	Grey	
26.00	28.00	P	100	Grey	
28.00	30.00	P	100	Grey	
30.00	32.00	P	100	Grey	
32.00	34.00	P	100	Grey	
34.00	36.00	P	100	Grey	
36.00	38.00	P	100	Grey	
38.00	40.00	P	100	Grey	
40.00	42.00	P	100	Grey	
42.00	44.00	P	100	Grey	
44.00	46.00	P	100	Grey	
46.00	47.00	P	100	Grey	
47.00	48.00	P	100	Grey	
48.00	49.00	P	100	Grey	
49.00	50.00	P	100	Grey	
50.00	50.50	P	100	Grey	
50.50	52.00	P	100	Grey	
52.00	53.50	P	100	Grey	
53.50	55.00	P	100	Grey	

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
46.00	47.00	102
47.00	48.00	102
48.00	49.00	102
49.00	50.00	102
50.00	50.50	102
50.50	52.00	102
52.00	53.50	102
53.50	55.00	102

General Remarks

1. Deck to mud was 17.50m; deck level was 10.08m above OD. 2. The borehole was drilled adjacent to IT2_SB_02 to achieve the associated SPT data and to extend deeper by rotary coring. 3. Between 50.00m and 50.08m; core slipped and picked up from previous run. 4. Geophysical borehole logging was carried out on completion of drilling; results reported separately. 5. Checkshot survey was carried out downhole on completion of drilling; results reported separately. 6. Descriptions of the SPT D samples are based on the disturbed material recovered from the SPT liners; these descriptions alone cannot provide representative information to infer strata descriptions or boundaries; the strata descriptions and boundaries given are based on driller's records only. 7. Core logging/logging of ends of core liners was not required.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	ROR	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 29/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649757.46 N264232.72	Ground Elevation (m Datum)	-7.42	Sheet 1 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 0.45 0.00 - 0.45	D SPT	1	N = 39 (S)						SAND (Driller's description). 0.00m to 0.45m (450mm recovery); dense greyish brown, locally grey, silty sand. Sand is fine and medium.			
2.00 - 2.45 2.00 - 2.45	D SPT	2	N = 32 (S)					1 2	2.00m to 2.45m (360mm recovery); dense greyish brown, locally dark grey, silty sand. Sand is fine and medium.			
4.00 - 4.45 4.00 - 4.45	D SPT	3	N = 33 (S)					3 4	4.00m to 4.45m (360mm recovery); dense grey silty sand with 1 No. thin lamina (<2mm thick) of soft dark grey silt. Slightly calcareous. Sand is fine and medium.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649757.46 N264232.72	Ground Elevation (m Datum)	-7.42	Sheet 2 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
6.00 - 6.45 6.00 - 6.45	D SPT	4	N = 10 (S)					6	6.00m to 6.45m (340mm recovery); loose to medium dense grey, locally dark grey, silty sand with rare shell fragments (<1mm x 3mm x 4mm) and with 2 No. possibly closely spaced thin laminae (20mm and 4mm thick) of soft dark grey silt. Slightly calcareous. Sand is fine and medium.			
								7				
8.00 - 8.32 8.00 - 8.32	D SPT	5	50/170 mm (S)					8	8.00m to 8.32m (320mm recovery); possibly very dense dark yellowish brown sand with thin bed (70mm) of soft dark grey sandy silt with occasional shell fragments (<1mm x 2mm x 2mm). Slightly calcareous. Sand is fine and medium.	(16.00)		
								9				
10.00 - 10.29 10.00 - 10.29	D SPT	6	50/140 mm (S)									

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649757.46 N264232.72	Ground Elevation (m Datum)	-7.42	Sheet 3 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									10.00m to 10.29m (290mm recovery); very dense brown sand with occasional shell fragments (<1mm x 2mm x 2mm). Sand is fine to coarse.			
								11				
12.00 - 12.25 12.00 - 12.25	D SPT	7	50/100 mm (S)					12	12.00m to 12.25m (250mm recovery); very dense greenish brown sand with occasional shell fragments (<1mm x 5mm x 5mm). Sand is fine to coarse.			
								13				
14.00 - 14.28 14.00 - 14.28	D SPT	8	50/140 mm (S)					14	14.00m to 14.28m (280mm recovery); interbedded (30mm-100mm thick) very dense light grey silty sand and sand with abundant shell fragments (<2mm x 3mm x 4mm), with 1 No. very thin to thin bed of firm light grey clay.			

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649757.46 N264232.72	Ground Elevation (m Datum)	-7.42	Sheet 4 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
16.00 - 16.24 16.00 - 16.24	D SPT	9	50/100 mm (S)					16	SAND/SILTY CLAY (Driller's description). 16.00m to 16.24m (280mm recovery); possibly stiff light grey clay (50mm) over very dense light grey, locally dark grey, silty sand with abundant shell fragments (<1mm x 2mm x 3mm), 1 No. whole shell (1mm x 5mm x 25mm) and 1 No. thin lamina (<2mm). of grey silty clay. Calcareous. Sand is fine to coarse.	16.00	-23.42	
								17		(2.00)		
18.00 - 18.25 18.00 - 18.25	D SPT	10	50/110 mm (S)					18	SAND (Driller's description). 18.00m to 18.25m (250mm recovery); very dense light grey sand with abundant shell fragments (<1mm x 3mm x 3mm). Calcareous. Sand is fine to coarse.	18.00	-25.42	
								19				
20.00 - 20.26 20.00 - 20.26	D SPT	11	50/120 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649757.46 N264232.72	Ground Elevation (m Datum)	-7.42	Sheet 5 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									20.00m to 20.26m (250mm recovery); very dense greenish grey sand with abundant shell fragments (<1mm x 2mm x 6mm) and 1 No. claystone (<8mm x 8mm x 12mm). Sand is fine to coarse.			
								21				
22.00 - 22.25 22.00 - 22.25	D SPT	12	50/115 mm (S)					22	22.00m to 22.25m (240mm recovery); very dense greenish grey sand with occasional shell fragments (<1mm x 2mm x 6mm). Sand is fine to coarse.			
								23				
24.00 - 24.24 24.00 - 24.24	D SPT	13	50/105 mm (S)					24	24.00m to 24.24m (240mm recovery); very dense greenish grey sand with abundant shell fragments (<1mm x 2mm x 2mm) and 1 No. claystone (6mm x 10mm x 12mm). Sand is fine to coarse.			

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_02**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E649757.46 N264232.72	Ground Elevation (m Datum)	-7.42	Sheet 6 of 12
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
26.00 - 26.21 26.00 - 26.21	D SPT	14	50/85 mm (S)					26	26.00m to 26.21m (200mm recovery); very dense greenish grey sand with abundant shell fragments (<1mm x 2mm x 2mm). Sand is fine to coarse.			
								27				
28.00 - 28.24 28.00 - 28.24	D SPT	15	50/100 mm (S)					28	28.00m to 28.24m (240mm recovery); very dense greenish grey sand with abundant shell fragments (<1mm x 2mm x 2mm). Sand is fine to coarse.			
								29				
30.00 - 30.23 30.00 - 30.23	D SPT	16	50/100 mm (S)						Continued next page			

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649757.46 N264232.72	Ground Elevation (m Datum)	-7.42	Sheet 7 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									30.00m to 30.23m (190mm recovery); very dense greenish grey sand with abundant shell fragments (<1mm x 2mm x 2mm). Sand is fine to coarse.			
								31				
										(27.70)		
32.00 - 32.38 32.00 - 32.38	D SPT	17	50/235 mm (S)					32	32.00m to 32.38m (200mm recovery); very dense grey slightly clayey sand with occasional shell fragments (<1mm x 1mm x 2mm). Sand is fine to medium.			
								33				
34.00 - 34.35 34.00 - 34.35	D SPT	18	50/205 mm (S)					34	34.00m to 34.35m (250mm recovery); very dense grey silty sand with pockets (<2mm x 5mm x 10mm) of silt. Sand is fine to coarse.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649757.46 N264232.72	Ground Elevation (m Datum)	-7.42	Sheet 8 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
36.00 - 36.22 36.00 - 36.22	D SPT	19	50/100 mm (S)					36	36.00m to 36.22m (200mm recovery); very dense grey sand with abundant shell fragments (<2mm x 6mm x 12mm). Sand is fine to coarse.			
								37				
38.00 - 38.20 38.00 - 38.20	D SPT	20	50/95 mm (S)					38	38.00m to 38.20m (200mm recovery); very dense grey sand with abundant shell fragments (<2mm x 6mm x 12mm). Sand is fine to coarse.			
								39				
40.00 - 40.20 40.00 - 40.20	D SPT	21	50/100 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649757.46 N264232.72	Ground Elevation (m Datum)	-7.42	Sheet 9 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									40.00m to 40.20m (200mm recovery); very dense grey, locally dark grey, sand with abundant shell fragments (<1mm x 3mm x 4mm) and with 1 No. subrounded mudstone fragment (<6mm). Slightly calcareous. Sand is fine to coarse.			
								41				
42.00 - 42.26 42.00 - 42.26	D SPT	22	50/130 mm (S)					42	42.00m to 42.26m (260mm recovery); possibly very dense grey, locally dark grey, sand with abundant shell fragments (<1mm x 2mm x 2mm) and with 1 No. thick lamina (10mm thick) of possibly medium strong dark grey mudstone (recovered as angular fragments (<6mm)). Slightly calcareous. Sand is fine to coarse.			
								43				
44.00 - 44.13 44.00 - 44.13	D SPT	23	50/60 mm (S)					44	44.00m to 44.13m (130mm recovery); very dense, locally cemented, grey and dark grey, locally slightly gravelly, sand with frequent shell fragments (<1mm x 2mm x 4mm, locally 1mm x 10mm x 18mm). Slightly calcareous. Sand is fine to coarse. Gravel is subrounded fine of mudstone.			

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649757.46 N264232.72	Ground Elevation (m Datum)	-7.42	Sheet 10 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
										45.70	-53.12	
									CLAY (Driller's description).	(0.30)		
46.00 - 46.45	D	24						46		46.00	-53.42	
46.00 - 46.45	SPT		N = 50 (S)						Stiff and very stiff fissured dark greyish brown (slightly oxidising to dark brown) slightly sandy silty CLAY with very closely to widely spaced thick laminae to thin beds of dark grey and black tuffaceous silty clay, locally extremely weak dark grey and black tuffaceous claystone, with some to frequent burrows (<2mm x 25mm) infilled with grey silty clay, some pyrite concretions/nodules (<20mm x 20mm), and some pockets/lenses (<10mm x 35mm) of brown and light brown fine sandy silt. Micaceous. Sand is mainly fine. Fissures are very closely and closely spaced, inclined (20-25 degrees, locally 75-90 degrees), planar, locally undulating, smooth, polished, occasionally striated (possibly sheared), tight, with frequent to abundant dark brown, dark orangish brown and black staining. [HARWICH FORMATION, WRABNESS MEMBER]			
46.00 - 47.00				100	N/A	N/A						
								47	46.00m to 46.45m (280mm SPT D recovery); very stiff dark brownish grey clay. Micaceous.			
47.00 - 48.00				100	N/A	N/A						
48.00 - 48.45	D	25						48				
48.00 - 48.45	SPT		N = 30 (S)						48.00m to 48.20m; thin bed of very stiff dark grey and black indistinctly tuffaceous silty clay. 48.00m to 48.45m (340mm SPT D recovery); very stiff dark brownish grey clay with 1 No. very thin bed of stiff grey silty clay. Micaceous.			
48.00 - 49.00				100	N/A	N/A						
									48.65m to 49.00m; with 1 No. inclined (75 - 80 degrees) fissure, planar, locally undulating.	(5.87)		
								49				
									49.20m to 49.75m; with 1 No. vertical fissure, planar, locally undulating.			
49.00 - 50.00				100	N/A	N/A						
50.00 - 50.45	D	26										
50.00 - 50.45	SPT		N = 25 (S)						Continued next page			

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649757.46 N264232.72	Ground Elevation (m Datum)	-7.42	Sheet 11 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
50.00 - 50.50				100	N/A	N/A			49.95m to 50.00m; with 1 No. strong dark grey limestone fragment (60mm x 95mm x 95mm) (assumed drilling fragmented). 50.00m to 50.45m (340mm SPT D recovery); very weak dark grey siltstone (120mm thick) over interbedded (20mm-80mm thick) stiff dark grey silt, stiff dark grey clayey silt and very stiff dark brownish grey clay. 50.09m to 50.22m; thin bed of extremely weak and very weak dark grey and black tuffaceous silty clay/claystone.			
50.50 - 51.03	C	3										
51.08 - 51.13	D	4						51				
51.13 - 51.23	D	5							51.13m to 51.87m; with 1 No. subvertical fissure.			
50.50 - 52.00				100	N/A	N/A						
										51.87	-59.29	
								52	Strong and very strong grey, locally dark greyish black LIMESTONE. Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	(0.25)		
									51.93m to 52.04m; dark greyish black possibly tuffaceous.	52.12	-59.54	
52.00 - 53.50				100	N/A	N/A			Very stiff indistinctly fissured dark greyish brown (slightly oxidising to dark brown) slightly sandy silty CLAY with very closely to medium spaced very thin and thin beds of dark grey and black tuffaceous silty clay, with some to frequent burrows (<1mm x 10mm) infilled with grey silty clay, and occasional to some pockets/lenses (<10mm x 35mm) of brown and light brown fine sandy silt. Micaceous. Sand is mainly fine. [HARWICH FORMATION, WRABNESS MEMBER]			
								53	52.15m to 52.70m; with 1 No. vertical fissure, planar and curviplanar, smooth, locally polished, tight, with some dark brown staining.	(2.04)		
									53.57m to 54.16m; with 2 No. conjugating vertical fissures, planar, smooth, tight, with some dark brown staining.			
								54				
										54.16	-61.58	
53.50 - 55.00				96	N/A	N/A			Strong and very strong dark grey LIMESTONE with extremely closely and very closely spaced subparallel subvertical calcite veins (<4mm thick). Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	(0.17)		
										54.33	-61.75	
									Very stiff indistinctly fissured dark greyish brown (slightly oxidising to dark brown) slightly sandy silty CLAY with very closely and closely spaced thin laminae of brown and light brown fine sandy silt, and closely and medium spaced very thin beds of dark	(0.67)		
										55.00	-62.42	

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649757.46 N264232.72	Ground Elevation (m Datum)	-7.42	Sheet 12 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									grey and black tuffaceous silty clay, with occasional to some burrows (<2mm x 10mm) infilled with grey silty clay. Micaceous. Sand is mainly fine. [HARWICH FORMATION, WRABNESS MEMBER]			
									54.46m to 54.69m; with 2 No. conjugating vertical fissures, planar, smooth, tight, with occasional dark brown staining.			
									End of Borehole at 55.00 m			
56												
57												
58												
59												

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_03**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650832.02 N264252.10	Ground Elevation (m Datum)	-14.27	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	18.00	RO	07/07/2019	07/07/2019	Comacchio : Excalibur	NCD	178mm	AR/JS	MH/PC	
18.00	55.50	RC	07/07/2019	08/07/2019	Comacchio : Excalibur	Geobor	146mm	AR/JS	MH/PC	Switched to Geobor at 18.00m due to ground conditions. Cores retained from 34.00m as instructed by NNB.

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
07/07/2019	03:30:00	0.00	0.00	
07/07/2019	11:30:00	10.00	10.00	
07/07/2019	12:10:00	10.00	10.00	
07/07/2019	22:50:00	30.00	30.00	
08/07/2019	00:15:00	30.00	30.00	
08/07/2019	10:30:00	55.50	55.50	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
1.50	225	1.50	225
18.00	178	18.00	178
55.50	146	55.50	146

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)
0.00	2.00	P	0	Grey	00:08
2.00	4.00	P	0	Grey	00:09
4.00	6.00	P	0	Grey	00:07
6.00	8.00	P	0	Grey	00:06
8.00	10.00	P	0	Grey	00:06
10.00	12.00	P	0	Grey	00:10
12.00	14.00	P	0	Grey	00:12
14.00	16.00	P	0	Grey	00:09
16.00	18.00	P	0	Grey	00:10
18.00	20.00	P	0	Grey	00:08
20.00	22.00	P	0	Grey	00:09
22.00	24.00	P	0	Grey	00:13
24.00	26.00	P	0	Grey	00:13
26.00	28.00	P	0	Grey	00:08
28.00	30.00	P	0	Grey	00:07
30.00	32.00	P	0	Grey	00:06
32.00	34.00	P	0	Grey	
34.00	35.00	P	100	Grey	
35.00	36.00	P	100	Grey	
36.00	37.00	P	100	Grey	
37.00	38.00	P	100	Grey	
38.00	39.00	P	100	Grey	
39.00	40.50	P	100	Grey	
40.50	42.00	P	100	Grey	
42.00	43.50	P	100	Grey	
43.50	45.00	P	100	Grey	
45.00	46.50	P	100	Grey	
46.50	48.00	P	100	Grey	
48.00	49.50	P	100	Grey	
49.50	51.00	P	100	Grey	
51.00	52.50	P	100	Grey	
52.50	54.00	P	100	Grey	
54.00	55.50	P	100	Grey	

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
34.00	35.00	102
35.00	36.00	102
36.00	37.00	102
37.00	38.00	102
38.00	39.00	102
39.00	40.50	102
40.50	42.00	102
42.00	43.50	102
43.50	45.00	102
45.00	46.50	102
46.50	48.00	102
48.00	49.50	102
49.50	51.00	102
51.00	52.50	102
52.50	54.00	102
54.00	55.50	102

General Remarks

1. Deck to mud was 24.50m; deck level was 10.23m above OD. 2. The borehole was drilled adjacent to IT2_SB_03 to achieve the associated SPT data. 3. Between 36.00m and 38.00m, 40.50m and 43.50m, 48.00m and 51.00m core runs; core loss and core pickup. 4. Geophysical borehole logging was carried out on completion of drilling; results reported separately. 5. Checkshot survey was carried out downhole on completion of drilling; results reported separately. 6. Descriptions of the SPT D samples are based on the disturbed material recovered from the SPT liners; these descriptions alone cannot provide representative information to infer strata descriptions or boundaries; the strata descriptions and boundaries given are based on driller's records only. 7. Core logging/logging at end of core liners was not required.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	ROR	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 29/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_03**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650832.02 N264252.10	Ground Elevation (m Datum)	-14.27	Sheet 1 of 12
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 0.50	B	1							Possibly very soft dark grey, locally dark brownish grey, sandy SILT with frequent shell fragments (<2mm x 3mm x 3mm) and with some pockets (<40mm x 40mm x 60mm) of soft clay. (Recovered as slurry).	(0.50)		
0.00 - 0.50	ES	1										
0.00 - 0.50	ES	2										
0.00 - 0.45	SPT		N = 20 (S)									
0.50 - 1.00	B	2							Recovered as dark brownish grey, locally dark grey, silty SAND with frequent shell fragments (<2mm x 4mm x 4mm) and with some pockets (<30mm x 40mm x 60mm) of soft clay. (Recovered as slurry).	0.50 (0.50)	-14.77	
0.50 - 1.00	ES	3										
1.00 - 1.50	B	3						1	Possibly very soft dark grey slightly gravelly sandy SILT with occasional shell fragments (<2mm x 7mm x 10mm) and with some pockets (<40mm x 40mm x 40mm) of soft clay. Gravel is subrounded fine of mudstone. (Recovered as slurry).	1.00 (0.50)	-15.27	
1.00 - 1.50	ES	4										
1.00 - 1.50	ES	5										
									SAND (Driller's description).	1.50	-15.77	
2.00 - 2.45	D	4						2	2.00m to 2.45m (450mm recovery); soft dark grey fine sandy silt (400mm) over yellowish brown sand with occasional shell fragments (<1mm x 4mm x 7mm). Calcareous. Sand is fine to coarse.			
2.00 - 2.45	SPT		N = 15 (S)									
								3				
4.00 - 4.24	D	5						4	4.00m to 4.24m (240mm recovery); very dense orangish brown sand with occasional shell fragments (<1mm). Sand is fine and medium.			
4.00 - 4.24	SPT		50/100 mm (S)									

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650832.02 N264252.10	Ground Elevation (m Datum)	-14.27	Sheet 2 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
6.00 - 6.39 6.00 - 6.39	D SPT	6	50/240 mm (S)					6	6.00m to 6.39m (390mm recovery); very dense reddish brown and orangish brown sand with frequent and abundant shell fragments (<1mm x 3mm x 3mm). Sand is fine to coarse.			
								7				
8.00 - 8.31 8.00 - 8.31	D SPT	7	50/160 mm (S)					8	8.00m to 8.31m (310mm recovery); reddish brown, locally orange, sand with frequent shell fragments (<1mm x 2mm x 2mm). Sand is fine and medium (240mm) over grey sand (20mm) over yellowish brown sand with abundant shell fragments (<1mm x 2mm x 4mm). Sand is fine to coarse.			
								9				
10.00 - 10.31 10.00 - 10.31	D SPT	8	50/160 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650832.02 N264252.10	Ground Elevation (m Datum)	-14.27	Sheet 3 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									10.00m to 10.31m (310mm recovery); very dense reddish brown sand with rare shell fragments (<1mm x 2mm x 2mm). Sand is fine and medium.			
								11				
12.00 - 12.34 12.00 - 12.34	D SPT	9	50/195 mm (S)					12	12.00m to 12.34m (310mm recovery); subangular fragments (<2mm x 5mm x 6mm) of limestone (60mm) over very dense greenish grey sand with abundant shell fragments (<1mm x 3mm x 3mm). Sand is fine to coarse.			
								13				
14.00 - 14.26 14.00 - 14.26	D SPT	10	50/135 mm (S)					14	14.00m to 14.26m (260mm recovery); very dense greenish grey sand with abundant shell fragments (<1mm x 3mm x 3mm). Sand is fine to coarse.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650832.02 N264252.10	Ground Elevation (m Datum)	-14.27	Sheet 4 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
16.00 - 16.28 16.00 - 16.28	D SPT	11	50/130 mm (S)					16	16.00m to 16.28m (260mm recovery); very dense greenish grey sand with abundant shell fragments (<1mm x 1mm x 2mm). Sand is fine to coarse.			
								17		(32.50)		
18.00 - 18.19 18.00 - 18.19	D SPT	12	50/70 mm (S)					18	18.00m to 18.19m (160mm recovery); very dense greenish grey sand with occasional shell fragments (<1mm x 2mm x 2mm). Sand is fine to coarse.			
								19				
20.00 - 20.26 20.00 - 20.26	D SPT	13	50/125 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_03**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650832.02 N264252.10	Ground Elevation (m Datum)	-14.27	Sheet 5 of 12
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									20.00m to 20.26m (240mm recovery); very dense greenish grey sand with abundant shell fragments (<1mm x 2mm x 2mm). Sand is fine to coarse.			
								21				
22.00 - 22.18 22.00 - 22.18	D SPT	14	50/70 mm (S)					22	22.00m to 22.18m (180mm recovery); very dense greenish grey sand with occasional shell fragments (<1mm x 2mm x 2mm). Sand is fine to coarse.			
								23				
24.00 - 24.16 24.00 - 24.16	D SPT	15	50/65 mm (S)					24	24.00m to 24.16m (160mm recovery); very dense greenish grey sand with rare shell fragments (<1mm x 1mm x 1mm). Sand is fine to coarse.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_03**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650832.02 N264252.10	Ground Elevation (m Datum)	-14.27	Sheet 6 of 12
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
26.00 - 26.22 26.00 - 26.22	D SPT	16	50/100 mm (S)					26	26.00m to 26.22m (220mm recovery); very dense greenish grey sand with rare shell fragments (<1mm x 1mm x 1mm). Sand is fine and medium.			
								27				
28.00 - 28.22 28.00 - 28.22	D SPT	17	50/100 mm (S)					28	28.00m to 28.22m (220mm recovery); very dense greenish grey sand with abundant shell fragments (<1mm x 1mm x 2mm). Sand is fine and medium.			
								29				
30.00 - 30.17 30.00 - 30.17	D SPT	18	50/65 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_03**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650832.02 N264252.10	Ground Elevation (m Datum)	-14.27	Sheet 7 of 12
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
								31	30.00m to 30.17m (170mm recovery); very dense greenish grey sand with occasional shell fragments (<1mm x 2mm x 2mm). Sand is fine and medium.			
32.00 - 32.18 32.00 - 32.18	D SPT	19	50/85 mm (S)					32	32.00m to 32.18m (180mm recovery); very dense light greenish grey sand with frequent shell fragments (<1mm x 7mm x 9mm). Sand is fine to coarse.			
								33				
34.00 - 34.45 34.00 - 35.00 34.00 - 34.45	D ES SPT	20 3	N = 38 (S)					34	CLAY (Driller's description). 34.00m to 34.45m (270mm recovery); very stiff dark brownish grey silty clay with occasional shell fragments (<1mm).	34.00	-48.27	
34.00 - 35.00				100	N/A	N/A						
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650832.02 N264252.10	Ground Elevation (m Datum)	-14.27	Sheet 8 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
35.00 - 36.00				100	N/A	N/A						
36.00 - 36.45	D	21						36				
36.00 - 36.45	SPT		N = 33 (S)						36.00m to 36.45m (300mm recovery); very stiff dark brownish grey clay. Micaceous.			
36.35 - 36.90	C	4										
36.00 - 37.00				100	N/A	N/A						
								37				
37.00 - 38.00				100	N/A	N/A						
38.00 - 38.45	D	22						38				
38.00 - 38.45	SPT		N = 36 (S)						38.00m to 38.45m (300mm recovery); stiff to very stiff dark brownish grey clay. Micaceous.			
38.00 - 39.00				100	N/A	N/A						
								39				
39.00 - 40.50				100	N/A	N/A						

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650832.02 N264252.10	Ground Elevation (m Datum)	-14.27	Sheet 9 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
40.50 - 42.00				100	N/A	N/A		41		(15.75)		
42.00 - 43.50				100	N/A	N/A		42				
43.50 - 45.00				100	N/A	N/A		43				
								44				
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650832.02 N264252.10	Ground Elevation (m Datum)	-14.27	Sheet 10 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
45.00 - 46.50				100	N/A	N/A		46				
46.50 - 48.00				100	N/A	N/A		47				
48.00 - 49.50				100	N/A	N/A		48				
								49	Clay/limestone (Driller's description). ASSUMED ZONE OF CORE LOSS.	49.75	-64.02	

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650832.02 N264252.10	Ground Elevation (m Datum)	-14.27	Sheet 11 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
49.50 - 51.00				17	N/A	N/A				(1.25)		
								51	CLAY/LIMESTONE (Driller's description).	51.00	-65.27	
51.54 - 52.23	C	5										
51.00 - 52.50				97	N/A	N/A						
								52		(2.40)		
								53				
52.50 - 54.00				60	N/A	N/A						
									Clay/limestone (Driller's description); ASSUMED ZONE OF CORE LOSS.	53.40	-67.67	
										(0.60)		
								54	CLAY/LIMESTONE (Driller's description).	54.00	-68.27	
54.00 - 55.50				93	N/A	N/A				(1.50)		
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

	Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
	Client	NNB Generation Company (SZC) Limited			**IT2_SPT_03**
	Fugro Reference	G190016U	Water Depth (m Datum)	NR	
	Coordinates (m)	E650832.02 N264252.10	Ground Elevation (m Datum)	-14.27	Sheet 12 of 12
	Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									55.40m to 55.50m; assumed zone of core loss.	55.50	-69.77	
									End of Borehole at 55.50 m			
								56				
								57				
								58				
								59				

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_04**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650928.01 N264250.48	Ground Elevation (m Datum)	-14.30	Sheet 1 of 2
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	13.00	RO	18/06/2019	18/06/2019	Comacchio : Excalibur	NCD	102mm	JS/JL	DM/MH	
13.00	14.00	RC	18/06/2019	18/06/2019	Comacchio : Excalibur	Geobor	146mm	JS/JL	DM/MH	Switched to Geobor from 13.00m upon NNB's instruction. Core retained between 13.00m and 14.00m as instructed.
14.00	38.00	RO	18/06/2019	19/06/2019	Comacchio : Excalibur	NCD	102mm	JS/JL	DM/MH	
38.00	55.00	RC	19/06/2019	21/06/2019	Comacchio :	Geobor	146mm	JS/JL	DM/MH	Switched to Geobor at 38.00m due to ground conditions; core

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
18/06/2019	07:00:00	0.00	2.00	Dry
18/06/2019	11:20:00	12.00	12.00	
18/06/2019	12:50:00	12.00	12.00	
18/06/2019	20:40:00	24.00	24.00	
19/06/2019	03:10:00	24.00	24.00	
19/06/2019	05:40:00	30.00	30.00	
20/06/2019	06:55:00	30.00	30.00	
20/06/2019	10:20:00	38.00	38.00	
20/06/2019	12:10:00	38.00	38.00	
20/06/2019	22:30:00	50.00	50.00	
21/06/2019	00:30:00	50.00	50.00	
21/06/2019	06:30:00	55.00	55.00	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
38.00	178	2.00	250
55.00	146	38.00	178
		55.00	146

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)
0.00	2.00	P	0	Grey	
2.00	4.00	P	0	Grey	
4.00	6.00	P	0	Grey	
6.00	8.00	P	0	Grey	
8.00	10.00	P	0	Grey	
10.00	12.00	P	0	Grey	
12.00	14.00	P	0	Grey	
14.00	16.00	P	0	Grey	
16.00	18.00	P	0	Grey	
18.00	20.00	P	0	Grey	
20.00	22.00	P	0	Grey	
22.00	24.00	P	0	Grey	
24.00	26.00	P	0	Grey	
26.00	28.00	P	0	Grey	
28.00	30.00	P	0	Grey	
30.00	32.00	P	100	Grey	
32.00	34.00	P	100	Grey	
34.00	36.00	P	100	Grey	
36.00	38.00	P	100	Grey	
38.00	40.00	P	100	Grey	
40.00	42.00	P	100	Grey	
42.00	44.00	P	100	Grey	
44.00	46.00	P	100	Grey	
46.00	48.00	P	100	Grey	
48.00	50.00	P	100	Grey	
50.00	52.00	P	100	Grey	
52.00	54.00	P	100	Grey	
54.00	55.00	P	100	Grey	

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
13.00	14.00	102
38.00	39.00	102
39.00	40.00	102

General Remarks

1. Deck to mud was 24.50m; deck level was 10.20m above OD. 2. The borehole was drilled adjacent to IT2_SB_04 to achieve the associated SPT data. 3. Driller attempted Geobor coring between 13.00m and 14.00m upon NNB'S instruction; poor recovery; casing jammed and borehole collapsed; significant effort to free casing and redrill to depth; switched back to open hole until 38.00m as agreed with NNB. 4. Driller verified with the site engineer that strata change at 36.60m (instead of 38.00m). 5. Geophysical borehole logging was carried out on completion of drilling; results reported separately. 6. Checkshot survey was carried out downhole on completion of drilling; result reported separately 7. Descriptions of the SPT D samples are based on the disturbed material recovered from the SPT liners; these descriptions alone cannot provide representative information to infer strata descriptions or boundaries; the strata descriptions and boundaries given are based on driller's records only. 8. Core logging/logging at end of core liners was not required.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	ROR	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 29/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_04**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650928.01 N264250.48	Ground Elevation (m Datum)	-14.30	Sheet 2 of 2
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
					Excalibur					retained between 38.00m and 39.00m and 39.00m and 40.00m only as instructed by NNB.

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

General Remarks

1. Deck to mud was 24.50m; deck level was 10.20m above OD. 2. The borehole was drilled adjacent to IT2_SB_04 to achieve the associated SPT data. 3. Driller attempted Geobor coring between 13.00m and 14.00m upon NNB'S instruction; poor recovery; casing jammed and borehole collapsed; significant effort to free casing and redrill to depth; switched back to open hole until 38.00m as agreed with NNB. 4. Driller verified with the site engineer that strata change at 36.60m (instead of 38.00m). 5. Geophysical borehole logging was carried out on completion of drilling; results reported separately. 6. Checkshot survey was carried out downhole on completion of drilling; result reported separately 7. Descriptions of the SPT D samples are based on the disturbed material recovered from the SPT liners; these descriptions alone cannot provide representative information to infer strata descriptions or boundaries; the strata descriptions and boundaries given are based on driller's records only. 8. Core logging/logging at end of core liners was not required.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	ROR	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650928.01 N264250.48	Ground Elevation (m Datum)	-14.30	Sheet 1 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 0.45 0.00 - 0.45	D SPT	1	N = 9 (S)						SAND (Driller's description). 0.00m to 0.45m (300mm recovery); soft dark grey fine sandy silt (150mm) over loose dark brownish becoming dark grey sand with occasional shell fragments (<1mm x 2mm 3mm). Locally clayey. Sand is fine to coarse.			
								1				
2.00 - 2.42 2.00 - 2.42	D SPT	2	50/270 mm (S)					2	2.00m to 2.42m (420mm recovery); dark grey clayey fine to coarse sand. Calcareous. (80mm) over grey fine and medium sand with occasional shell fragments (<1mm x 3mm x 4mm). Slightly calcareous. (80mm) over yellowish brown sand with abundant shell fragments (<1mm x 4mm x 7mm) Slight organic odour. Highly calcareous. Sand is fine to coarse.			
								3				
4.00 - 4.35 4.00 - 4.35	D SPT	3	50/200 mm (S)					4	4.00m to 4.35m (350mm recovery); thin lamina of weak orange and brown mudstone (20mm) over possibly very dense orangish brown sand with occasional shell fragments (<1mm x 3mm x 5mm). Calcareous. Sand is fine to coarse.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650928.01 N264250.48	Ground Elevation (m Datum)	-14.30	Sheet 2 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
6.00 - 6.30 6.00 - 6.30	D SPT	4	50/150 mm (S)					6	6.00m to 6.30m (300mm recovery); very dense orangish brown, locally red, sand with abundant shell fragments (<1mm x 10mm x 10mm). Calcareous. Sand is fine to coarse.			
								7				
8.00 - 8.32 8.00 - 8.32	D SPT	5	50/170 mm (S)					8	8.00m to 8.32m (320mm recovery); very dense dark reddish brown sand with abundant shell fragments (<2mm x 10mm x 15mm). Sand is fine to coarse.			
								9				
10.00 - 10.30 10.00 - 10.30	D SPT	6	50/150 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650928.01 N264250.48	Ground Elevation (m Datum)	-14.30	Sheet 3 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
								11	10.00m to 10.30m (300mm recovery); very dense light grey sand with rare shell fragments (<1mm x 4mm x 5mm). Sand is fine and medium.			
12.00 - 12.25 12.00 - 12.25	D SPT	7	50/160 mm (S)					12	12.00m to 12.25m (250mm recovery); very dense greenish grey sand with abundant shell fragments (<1mm x 5mm x 8mm). Calcareous. Sand is fine to coarse.			
13.00 - 14.00				20	N/A	N/A		13	13.00m to 14.00m; poor core recovery (200mm recovery), brownish grey sand with abundant shell fragments (<1mm x 2mm x 3mm). Calcareous. Sand is fine to coarse.			
14.00 - 14.26 14.00 - 14.26	D SPT	8	50/115 mm (S)					14	14.00m to 14.26m (260mm recovery); very dense greenish grey, locally dark grey and light greenish grey, locally slightly gravelly, sand with abundant shell fragments (<1mm x 2mm x 3mm). Gravel is subangular and subrounded fine of flint. Calcareous. Sand is fine to coarse.			

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650928.01 N264250.48	Ground Elevation (m Datum)	-14.30	Sheet 4 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
16.00 - 16.30 16.00 - 16.30	D SPT	9	50/160 mm (S)					16	16.00m to 16.30m (300mm recovery); possibly very dense greenish grey sand with frequent shell fragments (<1mm x 6mm x 7mm), with extremely closely to closely spaced thin laminae of shell fragments (<1mm x 6mm x 9mm) and with very thin bed (30mm) of weak brownish grey mudstone. Slightly calcareous and calcareous. Sand is fine to coarse.			
								17				
18.00 - 18.26 18.00 - 18.26	D SPT	10	50/150 mm (S)					18	18.00m to 18.26m (260mm recovery); very dense greenish grey sand with frequent shell fragments (<1mm x 8mm x 8mm). Calcareous. Sand is fine to coarse.	(36.60)		
								19				
20.00 - 20.23 20.00 - 20.23	D SPT	11	50/95 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650928.01 N264250.48	Ground Elevation (m Datum)	-14.30	Sheet 5 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									20.00m to 20.23m (230mm recovery); very dense greenish grey sand with rare to occasional shell fragments (<2mm x 5mm x 5mm). Sand is fine to coarse.			
								21				
22.00 - 22.28 22.00 - 22.28	D SPT	12	50/155 mm (S)					22	22.00m to 22.28m (280mm recovery); very dense greenish grey sand with rare to occasional shell fragments (<1mm). Slightly calcareous. Sand is fine and medium.			
								23				
24.00 - 24.30 24.00 - 24.30	D SPT	13	50/155 mm (S)					24	24.00m to 24.30m (230mm recovery); very dense greenish grey sand with rare, locally frequent, shell fragments (<1mm x 3mm x 4mm). Slightly calcareous. Sand is fine and medium.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_04**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650928.01 N264250.48	Ground Elevation (m Datum)	-14.30	Sheet 6 of 11
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
26.00 - 26.22 26.00 - 26.22	D SPT	14	50/75 mm (S)					26	26.00m to 26.22m (210mm recovery): very dense bluish grey sand. Slightly calcareous. Sand is fine to coarse.			
								27				
28.00 - 28.22 28.00 - 28.22	D SPT	15	50/100 mm (S)					28	28.00m to 28.22m (220mm recovery): very dense bluish grey sand. Slightly calcareous. Sand is fine to coarse. Locally with possibly wood fragments and with 2 No. angular and subangular flint fragments (<20mm).			
								29				
30.00 - 30.15 30.00 - 30.15	D SPT	16	50/60 mm (S)						Continued next page			

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650928.01 N264250.48	Ground Elevation (m Datum)	-14.30	Sheet 7 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									30.00m to 30.15m (150mm recovery): very dense bluish grey sand with 2 No. subrounded and rounded flint fragments (<20mm). Sand is fine to coarse.			
								31				
32.00 - 32.19 32.00 - 32.19	D SPT	17	50/90 mm (S)					32	32.00m to 32.19m (190mm recovery); very dense bluish grey sand with occasional shell fragments (<1mm x 2mm x 3mm) and with 1 No. angular grey claystone fragment (<20mm). Sand is fine to coarse.			
								33				
34.00 - 34.13 34.00 - 34.13	D SPT	18	50/60 mm (S)					34	34.00m to 34.13m (130mm recovery); very dense greenish grey sand with abundant shell fragments (<2mm x 10mm x 13mm) and with 1 No. subrounded flint fragment (<20mm) Slightly calcareous. Sand is fine to coarse.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650928.01 N264250.48	Ground Elevation (m Datum)	-14.30	Sheet 8 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
36.00 - 36.26 36.00 - 36.26	D SPT	19	50/160 mm (S)					36	36.00m to 36.26m (260mm recovery); light grey sand with abundant shell fragments (<1mm x 2mm x 3mm). Sand is fine to coarse. (120mm) over dark grey sand. Sand is fine and medium.			
									CLAY (Driller's description).	36.60	-50.90	
								37				
38.00 - 38.45 38.00 - 38.45	D SPT	20	N = 33 (S)					38	38.00m; very stiff dark brownish grey clay. 38.00m to 38.32m (320mm SPT D recovery); stiff dark grey silty clay. Micaceous.			
38.00 - 39.00				100	N/A	N/A						
								39	39.00m; very stiff dark brownish grey clay. 39.01m; very stiff dark brownish grey clay.			
39.45 - 40.00 39.00 - 40.00	C	1		100	N/A	N/A						
40.00 - 40.45 40.00 - 40.45	D SPT	21	N = 30 (S)									

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650928.01 N264250.48	Ground Elevation (m Datum)	-14.30	Sheet 9 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									40.00m; very stiff dark brownish grey clay 40.00m to 40.45m (370mm SPT D recovery); very stiff dark brownish grey, locally dark grey, silty clay. Micaceous.			
								41				
42.00 - 42.45 42.00 - 42.45	D SPT	22	N = 35 (S)					42	42.00m to 42.45m (260mm SPT D recovery); very stiff dark brownish grey clay with 1 No. subangular claystone fragment (5mm x 8mm x 15mm). Micaceous.			
								43				
44.00 - 44.26 44.00 - 44.26	D SPT	23	50/115 mm (S)					44	44.00m to 44.26m (260mm SPT D recovery); very stiff fissured dark grey clay. Fissures are extremely closely spaced, inclined (70-85 degrees), planar, polished, clean. Locally with rare pyrite. Micaceous. At 44.50m; driller noted possible claystone/limestone bed (0.30m-0.40m thickness).			

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650928.01 N264250.48	Ground Elevation (m Datum)	-14.30	Sheet 10 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
46.00 - 46.45 46.00 - 46.45	D SPT	24	N = 34 (S)					46	46.00m to 46.45m (360mm SPT D recovery); very stiff dark brownish grey, locally grey, silty clay. Micaceous.	(18.40)		
								47				
48.00 - 48.45 48.00 - 48.45	D SPT	25	N = 40 (S)					48	48.00m to 48.45m (350mm SPT D recovery); very stiff dark brownish grey, locally grey, clay, locally silty clay. Micaceous.			
								49				
50.00 - 50.45 50.00 - 50.45	D SPT	26	N = 31 (S)						Continued next page			

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**IT2_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650928.01 N264250.48	Ground Elevation (m Datum)	-14.30	Sheet 11 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									50.00m to 50.45m (380mm SPT D recovery); very stiff dark brownish grey clay. Micaceous.			
								51				
52.00 - 52.40 52.00 - 52.40	D SPT	27	50/250 mm (S)					52	52.00m to 52.40m (380mm SPT D recovery): very stiff dark brownish grey silty clay, with weak claystone at base. Micaceous.			
									52.40m to 52.50m; driller noted possible claystone/ limestone bed.			
								53				
54.00 - 54.45 54.00 - 54.45	D SPT	28	N = 38 (S)					54	54.00m to 54.45m (320mm SPT D recovery): very stiff dark brownish grey silty clay with 1 No. possible wood fragment (5mm x 5mm x 15mm). Micaceous.			
									End of Borehole at 55.00 m	55.00	-69.30	

Notes

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SB_01**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648727.88 N264096.81	Ground Elevation (m Datum)	-10.18	Sheet 1 of 1
Hole Type	Sonic Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	55.50	SD	11/06/2019	13/06/2019	LS600 : Excalibur	Sonic	118mm	LM/TM/PJ	MH/DM/ GDF	

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
11/06/2019	15:00:00	0.00	0.00	
11/06/2019	23:45:00	16.50	16.50	
12/06/2019	00:00:00	16.50	16.50	
12/06/2019	11:45:00	24.00	24.00	
12/06/2019	12:00:00	24.00	24.00	
12/06/2019	23:45:00	40.50	40.50	
13/06/2019	00:00:00	40.50	40.50	
13/06/2019	10:00:00	55.50	55.50	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
55.50	118	55.50	150

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
0.00	1.50	100
1.50	3.00	100
3.00	4.50	100
4.50	6.00	100
6.00	7.50	100
7.50	9.00	100
9.00	10.50	100
10.50	12.00	100
12.00	13.50	100
13.50	15.00	100
15.00	16.50	100
16.50	18.00	100
18.00	19.50	100
19.50	21.00	100
21.00	22.50	100
22.50	24.00	100
24.00	25.50	100
25.50	27.00	100
27.00	28.50	100
28.50	30.00	100
30.00	31.50	100
31.50	33.00	100
33.00	34.50	100
34.50	36.00	100
36.00	37.50	100
37.50	39.00	100
39.00	40.50	100
40.50	42.00	100
42.00	43.50	100
43.50	45.00	100
45.00	46.50	100
46.50	48.00	100
48.00	49.50	100
49.50	51.00	100
51.00	52.50	100
52.50	54.00	100
54.00	55.50	100

General Remarks

1. Deck to mud was 20.10m; deck level was 9.92m above OD. 2. Between 7.50m and 40.50m; driller noted blowing sands inside casing for majority of runs resulting in redrilling a number of runs. 3. Core run between 52.50m and 54.00m was preserved and sent for testing at Laboratoire CEMETE-EDF-TEGG, as instructed by NNB; only non-destructive logging was carried out on core surface (treat descriptions with caution).

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	CAY	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 29/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648727.88 N264096.81	Ground Elevation (m Datum)	-10.18	Sheet 1 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.74)		
0.00 - 1.50				51	N/A	N/A				0.74	-10.92	
								1	Very soft and soft dark grey and black slightly sandy silty CLAY. Slightly calcareous. Sand is fine. Moderate organic odour. [TIDAL FLAT DEPOSITS] 1.00m to 1.10m; with frequent shell fragments (<5mm x 5mm x 5mm).	(0.46)		
									Very soft and soft dark grey, black and dark yellowish brown slightly sandy slightly gravelly silty CLAY with some to frequent shell fragments (<5mm x 10mm). Slightly calcareous. Sand is fine. Gravel is subrounded to well rounded medium and coarse of dark yellowish brown and black chert and flint. Moderate organic odour. Possible undifferentiated Recent Deposits/ reworked Crag Group. [CRAG GROUP (UNDIFFERENTIATED)]	1.20	-11.38	
										(0.30)		
										1.50	-11.68	
										(0.40)		
								2	Dark brownish grey, locally mottled grey and dark grey, SAND with frequent shell fragments (<5mm x 5mm). Slightly calcareous. Sand is fine and medium. Possible undifferentiated Recent Deposits/reworked Crag Group. [CRAG GROUP (UNDIFFERENTIATED)]	1.90	-12.08	
1.50 - 3.00				100	N/A	N/A			Very soft and soft dark grey and black silty CLAY, locally intermixed with dark yellowish brown and dark grey sand, with frequent to abundant pockets (<20mm x 30mm x 40mm) of dark grey sand, with frequent shell fragments (<4mm x 4mm). Slightly calcareous. Sand is fine and medium. Moderate organic odour. Possible undifferentiated Recent Deposits/reworked Crag Group. [CRAG GROUP (UNDIFFERENTIATED)] 2.20m to 2.50m; intermixed with sand.	(0.76)		
										2.66	-12.84	
								3	Dark yellowish brown and greyish brown becoming dark yellowish brown silty SAND with some to frequent shell fragments (<10mm x 10mm). Slightly calcareous. Sand is fine and medium. Possible undifferentiated Recent Deposits/reworked Crag Group. [CRAG GROUP (UNDIFFERENTIATED)] 2.66m to 2.78m; slightly gravelly. Gravel is mainly rounded mainly fine and medium of brown chert and flint. 3.00m to 3.37m; dark yellowish brown.	(0.71)		
										3.37	-13.55	
3.00 - 4.50				100	N/A	N/A			Yellowish grey and brownish grey SAND with closely and medium spaced thick laminae to thin beds of dark reddish brown slightly silty fine sand and locally clayey fine sand. Locally slightly calcareous. Sand is fine and medium. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)]	(1.13)		
								4	3.37m to 3.47m; thin bed of slightly silty fine sand and locally clayey fine sand, with rare to some fragmented ferruginous concretions (<10mm x 10mm x 10mm). Possible palaeosol horizon. 3.47m to 3.67m; mottled with dark reddish brown and brownish red. Possible cryoturbation. 3.80m to 3.88m; slightly calcareous. 3.88m to 3.96m; thin bed of slightly silty fine sand and locally clayey fine sand, with rare to some fragmented ferruginous concretions (<10mm x 10mm x 10mm). Possible palaeosol horizon. 3.96m to 4.07m; slightly calcareous. 4.40m to 4.50m; thin bed of slightly silty fine sand and locally clayey fine sand, with rare to some fragmented ferruginous concretions (<10mm x 10mm x 10mm). Possible palaeosol horizon.	4.50	-14.68	
										(0.27)		
										4.77	-14.95	
									Sand (Driller's description). ASSUMED ZONE OF			

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648727.88 N264096.81	Ground Elevation (m Datum)	-10.18	Sheet 2 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
4.50 - 6.00				82	N/A	N/A			CORE LOSS.			
									Yellowish brown mottled dark yellowish brown, locally light yellowish grey and brownish grey, SAND with occasional to locally some pockets (<10mm x 10mm) of soft dark yellowish brown clay, and rare to occasional shell fragments (<3mm x 3mm x 3mm). Slightly calcareous. Sand is fine and medium. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)]	(0.97)		
									5.50m to 5.74m; light yellowish grey and brownish grey, with some pockets (<20mm x 50mm) of soft clay.			
										5.74	-15.92	
									Yellowish brown and brown, locally mottled dark brown, silty SAND with frequent becoming some pockets (<20mm x 30mm) of soft dark yellowish brown clay. Slightly calcareous. Sand is fine and medium. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)]			
								6	5.74m to 6.00m; mottled dark brown.			
									6.30m to 9.83m; with some pockets (<10mm x 20mm x 30mm) of soft clay.			
6.00 - 7.50				97	N/A	N/A						
									6.78m to 7.45m; with very closely and closely spaced, locally extremely closely spaced, thick laminae of soft reddish brown and yellowish brown clay and rare thick laminae of dark brown and grey fine and medium sand.			
								7				
										(4.09)		
								8				
7.50 - 9.00				100	N/A	N/A						
									8.46m to 9.00m; with very closely and closely spaced, locally extremely closely spaced, thick laminae of soft reddish brown and yellowish brown clay and rare thick laminae of dark brown and grey fine and medium sand.			
								9				
9.00 - 10.50				93	N/A	N/A			9.68m to 9.83m; with very closely and closely spaced, locally extremely closely spaced, thick laminae of soft reddish brown and yellowish brown clay and rare thick laminae of dark brown and grey fine and medium sand.	9.83	-20.01	
									Grey mottled dark grey slightly silty SAND with rare to			
									Continued next page			

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Coordinates (m)	E648727.88 N264096.81	Ground Elevation (m Datum)	-10.18	Sheet 3 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									occasional pockets (<10mm x 10mm x 10mm) of soft grey clay, and rare to occasional shell fragments (<2mm x 2mm). Slightly calcareous. Sand is fine and medium. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)] 9.83m to 9.95m; with very closely and closely spaced thick laminae of soft grey clay. 10.40m to 10.50m; assumed zone of core loss.	(2.03)		
10.50 - 12.00				91	N/A	N/A		11				
								12	Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	11.86 (0.34)	-22.04	
12.20 - 12.60	D	6							Dark grey mottled black becoming grey, locally mottled black, slightly silty SAND with rare to some shell fragments (<4mm x 5mm). Slightly calcareous and locally calcareous. Sand is mainly fine and medium. Locally moderate organic odour. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)] 12.20m to 12.75m; moderate organic odour. 12.75m to 13.50m; grey, locally mottled black. Slightly calcareous.	12.20 (1.30)	-22.38	
12.60 - 13.50	B	7										
12.00 - 13.50				87	N/A	N/A		13				
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	13.50 (0.45)	-23.68	
								14	Grey and brownish grey mottled dark grey SAND with rare shell fragments (<2mm x 2mm). Slightly calcareous. Sand is fine and medium. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)]	13.95	-24.13	
13.50 - 15.00				70	N/A	N/A						
									Continued next page			

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Coordinates (m)	E648727.88 N264096.81	Ground Elevation (m Datum)	-10.18	Sheet 4 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
15.00 - 16.50				100	N/A	N/A		16		(2.55)		
16.50 - 18.00				93	N/A	N/A		17	Grey, locally mottled dark grey, SAND, locally with frequent shell fragments (<5mm x 5mm). Slightly calcareous. Sand is fine and medium. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)] 16.50m to 17.05m; with frequent shell fragments. 17.13m to 17.25m; with frequent shell fragments.	16.50 (1.02)	-26.68	
18.00 - 19.50				0	N/A	N/A		18	Grey and dark grey silty SAND. Slightly calcareous and calcareous. Sand is mainly fine. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)] Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	17.52 (0.38) 17.90 (1.85)	-27.70 -28.08	
								19	Grey, locally mottled dark grey and black, silty SAND with rare shell fragments (<1mm x 2mm). Slightly calcareous. Sand is fine and medium.	19.75	-29.93	

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Hole Type	Sonic Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
19.50 - 21.00				83	N/A	N/A			[NORWICH CRAG FORMATION (UNDIFFERENTIATED)] 19.75m to 20.25m; mottled dark grey and black.	(1.25)		
								21	Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	21.00 (0.30)	-31.18	
21.00 - 22.50				90	N/A	N/A			Grey and dark grey, locally mottled dark greenish grey (possibly glauconitic), silty SAND with frequent to abundant shell fragments (<1mm x 50mm x 65mm). Slightly calcareous becoming calcareous. Sand is fine and medium. Possible Norwich Crag Formation/Red Crag Formation. [RED CRAG FORMATION, THORPENESS MEMBER]	21.30 (0.60)	-31.48	
								22	Dark greenish grey SAND with abundant shell fragments (mainly bivalve) (<5mm x 10mm x 10mm). Slightly calcareous. Sand is mainly fine and medium. Possible Red Crag Formation, Thorpeness Member. [RED CRAG FORMATION, THORPENESS MEMBER]	21.90 (0.60)	-32.08	
22.50 - 24.00				100	N/A	N/A		23	Dark greenish grey slightly gravelly SAND with abundant bivalve and mollusc shell fragments (<5mm x 15mm x 18mm). Slightly calcareous. Sand is mainly fine and medium. Gravel is subrounded medium and coarse of chert, flint and brown siltstone. [RED CRAG FORMATION, THORPENESS MEMBER]	22.50 (1.15)	-32.68	
									Dark greenish grey SAND with abundant bivalve shell fragments (<1mm x 5mm x 10mm). Slightly calcareous. Sand is fine and medium. [RED CRAG FORMATION, THORPENESS MEMBER] At 23.65m; with 1 No. thick lamina of greenish grey (possibly glauconitic) fine and medium sand.	23.65 (0.35)	-33.83	
								24	Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	24.00 (0.85)	-34.18	
24.00 - 25.50				43	N/A	N/A			Dark greenish grey slightly gravelly SAND with frequent to abundant shell fragments (mainly bivalve)	24.85	-35.03	

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Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									(<1mm x 5mm x 5mm), and rare bivalve shells (<1mm x 20mm x 25mm). Slightly calcareous. Sand is fine and medium. Gravel is subrounded coarse of brown siltstone. [RED CRAG FORMATION, THORPENESS MEMBER]			
25.50 - 27.00				87	N/A	N/A		26		(1.95)		
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	26.80 (0.20)	-36.98	
27.00 - 28.50				100	N/A	N/A		27	Dark greenish grey slightly gravelly SAND with frequent to abundant shell fragments (mainly bivalve) (<1mm x 5mm x 5mm), and rare bivalve shells (<1mm x 20mm x 25mm). Slightly calcareous. Sand is fine and medium. Gravel is subrounded coarse of brown siltstone. [RED CRAG FORMATION, THORPENESS MEMBER] At 27.50m; with 1 No. flat subrounded brown slightly calcareous siltstone fragment (10mm x 50mm x 80mm) (assumed drilling fragmented).	27.00 (1.25)	-37.18	
								28				
									Dark greenish grey SAND, occasionally interlaminated and very thinly interbedded with soft light grey and grey silty clay and greenish grey fine sand, with frequent to abundant shell fragments (mainly bivalve) (<4mm x 10mm x 20mm), and occasional to some pockets (<30mm x 30mm x 35mm) of soft light grey and grey silty clay. Slightly calcareous. Sand is mainly fine and medium. [RED CRAG FORMATION, THORPENESS MEMBER] 28.25m to 28.30m; thinly interlaminated. 28.95m to 30.10m; very thinly interbedded.	28.25	-38.43	
28.50 - 30.00				100	N/A	N/A		29		(2.75)		
									Continued next page			

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Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
30.00 - 31.50				100	N/A	N/A		31	Dark greenish grey silty SAND, locally slightly clayey sand, with abundant pockets (<40mm x 50mm x 60mm) of soft and firm grey clay, and rare to some bivalve shell fragments (<2mm x 2mm x 2mm). Slightly calcareous and calcareous. Sand is mainly fine and medium. [RED CRAG FORMATION, SIZEWELL MEMBER]	31.00 (0.50)	-41.18	
									31.40m to 31.50m; thin bed of soft and firm light grey and grey slightly fine sandy silty clay. Calcareous.	31.50	-41.68	
31.50 - 33.00				100	N/A	N/A		32	Dark greenish grey silty SAND with occasional pockets (<30mm x 30mm x 40mm) of soft and firm grey slightly calcareous and calcareous clay, and rare bivalve shell fragments (<1mm x 1mm). Slightly calcareous. Sand is fine and medium. [RED CRAG FORMATION, SIZEWELL MEMBER]	(1.20)		
									Dark greenish grey silty SAND, locally slightly clayey sand, with abundant pockets (<40mm x 50mm x 50mm) of soft and firm grey clay, and rare bivalve shell fragments (<1mm x 5mm x 5mm). Slightly calcareous and calcareous. Sand is fine and medium. [RED CRAG FORMATION, SIZEWELL MEMBER]	32.70 (0.30)	-42.88	
								33	Dark greenish grey silty SAND with rare bivalve shell fragments (<1mm x 1mm). Slightly calcareous. Sand is fine and medium. [RED CRAG FORMATION, SIZEWELL MEMBER]	33.00 (0.70)	-43.18	
33.00 - 34.50				100	N/A	N/A		34	Dark greenish grey silty SAND, locally slightly clayey sand, with frequent shell fragments (mainly bivalve with some mollusc) (<1mm x 20mm x 20mm), and frequent pockets (<30mm x 30mm x 35mm) of soft grey calcareous silty clay. Slightly calcareous and calcareous. Sand is mainly fine and medium. [RED CRAG FORMATION, SIZEWELL MEMBER]	33.70	-43.88	
									34.20m to 34.40m; with very closely spaced, locally extremely closely spaced, thin and thick laminae of soft grey calcareous clay.			
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Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
34.50 - 36.00				100	N/A	N/A				(3.45)		
								36	At 35.80m; with 1 No. rounded fine gravel of light brownish grey chert.			
36.00 - 37.50				77	N/A	N/A						
								37				
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	37.15 (0.35)	-47.33	
										37.50	-47.68	
37.50 - 39.00				100	N/A	N/A		38	Dark greenish grey slightly gravelly silty SAND with frequent to abundant shell fragments (bivalve with some mollusc) (<2mm x 20mm x 25mm), locally with occasional pockets (<40mm x 40mm x 40mm) of soft grey calcareous silty clay. Slightly calcareous and calcareous. Sand is fine and medium. Gravel is subangular and subrounded medium and coarse of light brownish grey slightly calcareous siltstone and rare grey chert. [RED CRAG FORMATION, SIZEWELL MEMBER] 37.80m to 38.00m; with occasional pockets of silty clay.	(1.50)		
39.00 - 39.60	B	9						39		39.00	-49.18	
39.00 - 40.50	B	8							Dark greenish grey, locally mottled dark grey and black, slightly gravelly silty SAND with frequent to abundant shell fragments (bivalve with some mollusc) (<1mm x 25mm x 25mm). Slightly calcareous and calcareous. Sand is mainly fine and medium. Gravel is subangular fine and medium of light brownish grey slightly calcareous siltstone. [RED CRAG FORMATION, SIZEWELL MEMBER]			
39.60 - 40.10	B	10							At 39.65m ; with 1 No. subangular medium gravel of light brownish grey slightly calcareous siltstone.			
39.00 - 40.50				100	N/A	N/A			39.80m to 40.25m; mottled dark grey and black.	(1.50)		

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FUGRO	Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
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	Hole Type	Sonic Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
40.10 - 40.50	D	11							At 40.40m; with 1 No. subangular medium gravel of light brownish grey slightly calcareous siltstone.	40.50	-50.68	
40.50 - 42.00				100	N/A	N/A		41	Dark grey and dark greenish grey slightly gravelly silty SAND with abundant shell fragments (bivalve with some mollusc) (<3mm x 30mm x 30mm), locally with rare pockets (<20mm x 30mm x 40mm) of soft and firm greyish brown slightly calcareous slightly silty clay. Slightly calcareous and calcareous. Sand is fine and medium. Gravel is subangular mainly medium of light brownish grey slightly calcareous siltstone, with rounded medium and coarse of dark greyish black slightly calcareous possibly phosphatic/manganese coated pebbles. Possible Red Crag Formation, Sizewell Member. [RED CRAG FORMATION, SIZEWELL MEMBER] 41.40m to 41.60m; with rare pockets of silty clay. 41.60m to 41.65m; very thin bed of soft and firm greyish brown slightly calcareous slightly sandy silty clay. Sand is fine. At 41.70m; with 1 No. rounded medium gravel of light greyish white chalk.	(1.24)		
										41.74	-51.92	
								42	Stiff dark brownish grey silty CLAY, locally slightly gravelly silty clay, locally with bluish grey gleying. Slightly calcareous and calcareous. Gravel is subrounded to well rounded medium and coarse of brown and light brown slightly weathered chert. Possible Harwich Formation, Wrabness Member. [HARWICH FORMATION, WRABNESS MEMBER] 41.74m to 41.81m; slightly gravelly, with bluish grey gleying. 42.00m to 42.10m; recovered as subangular moderately strong brownish grey possibly argillaceous limestone fragments (<30mm x 40mm x 50mm) (assumed drilling fragmented).	(0.36)		
42.00 - 43.50				100	N/A	N/A				42.10	-52.28	
43.10 - 43.20	D	4						43	Stiff indistinctly fissured dark greyish brown CLAY with closely and medium spaced thick laminae to thin beds of dark greyish black, locally dark bluish grey, tuffaceous silty clay, with rare burrows (<1mm x 10mm) infilled with grey silty clay. Possible Harwich Formation, Wrabness Member. [HARWICH FORMATION, WRABNESS MEMBER]			
43.20 - 43.25	D	5										
										(2.77)		
								44				
43.50 - 45.00				100	N/A	N/A						
44.81 - 45.30	C	1							At 44.67m; with 1 No. pyrite concretion/nodule (20mm x 20mm).			
									Medium strong and strong brownish grey	44.87	-55.05	
										(0.13)		
										45.00	-55.18	

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Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
45.30 - 45.35	D	2							LIMESTONE. Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]			
45.35 - 45.41	D	3							Stiff and very stiff indistinctly fissured dark greyish brown and brown SILT with thin bed of very stiff/ extremely weak dark grey and black, locally dark bluish grey, tuffaceous silty clay/claystone, with rare burrows (<1mm x 10mm) infilled with grey silty clay. Fissures are mainly inclined (45-80 degrees), planar and undulating, smooth, polished and locally striated (possibly sheared), very tight and tight, with brown staining. [HARWICH FORMATION, WRABNESS MEMBER]	(0.61)		
									45.44m to 45.56m; thin bed of tuffaceous silty clay/ claystone.	45.61	-55.79	
45.00 - 46.50				100	N/A	N/A				(0.16)		
								46		45.77	-55.95	
									LIMESTONE. Recovered angular to subrounded strong and very strong brownish grey limestone fragments (<60mm x 70mm x 80mm) with possibly very soft and soft brown silty clay (assumed drilling disturbed). Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	(0.73)		
										46.50	-56.68	
									Stiff and very stiff indistinctly fissured dark greyish brown and brown SILT with medium bed of very stiff/ extremely weak dark grey and black, locally dark bluish grey, tuffaceous silty clay/claystone, with rare burrows (<1mm x 10mm) infilled with grey silty clay. Fissures are mainly inclined (45-80 degrees), planar and undulating, smooth, polished and locally striated (possibly sheared), very tight and tight, with brown staining. [HARWICH FORMATION, WRABNESS MEMBER]	(0.10)		
									45.77m to 45.98m; medium bed of dark bluish grey mottled dark brown tuffaceous claystone, with abundant dark brown staining.	46.60	-56.78	
46.50 - 48.00				100	N/A	N/A		47		(1.40)		
									LIMESTONE. Recovered as angular to subrounded strong and very strong brownish grey limestone fragments (<60mm x 70mm x 80mm) with possibly very soft and soft brown silty clay (assumed drilling induced). Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]			
								48		48.00	-58.18	
									Stiff and very stiff indistinctly fissured dark greyish brown and brown SILT with very thin and thin beds of very stiff/extremely weak dark grey and black, locally dark bluish grey, tuffaceous silty clay/claystone, with rare burrows (<1mm x 10mm) infilled with grey silty clay. Fissures are mainly inclined (45-80 degrees), planar and undulating, smooth, polished and locally striated (possibly sheared), very tight and tight, with brown staining. [HARWICH FORMATION, WRABNESS MEMBER]			
48.00 - 49.50				100	N/A	N/A			46.97m to 47.16m; thin bed of tuffaceous silty clay. 47.80m to 47.83m; very thin bed of strong and very strong dark greyish black calcareous claystone/ limestone.	(1.55)		
								49				
									Stiff becoming very stiff dark greyish brown clayey SILT with closely and medium spaced very thin and thick beds of stiff and very stiff dark grey and black tuffaceous silty clay. [HARWICH FORMATION, WRABNESS MEMBER]			
									49.35m to 49.55m; very stiff fissured silty clay. Fissures are mainly inclined (65-85 degrees), planar and undulating, smooth, polished and striated (possibly sheared), very tight and tight, with rare brown staining.	49.55	-59.73	
									Strong and very strong dark grey LIMESTONE. Recovered as non intact core (assumed drilling induced) of angular and subangular fragments (<70mm x 80mm x 100mm), locally with very soft to firm dark greyish brown and brown silty clay. Possible Harwich Formation, Wrabness Member, Harwich	(0.48)		

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Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
49.50 - 51.00				100	N/A	N/A			Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND] Stiff and very stiff dark greyish brown and brown silty CLAY with closely to possibly medium spaced thin beds of very stiff dark grey and black tuffaceous silty clay. [HARWICH FORMATION, WRABNESS MEMBER] At 50.17m; with 1 No. angular strong and very strong dark grey limestone fragment (30mm x 40mm) and 1 No. angular black (possibly carbonaceous) fragment (15mm x 35mm). 50.28m to 50.43m; thin bed of tuffaceous silty clay. 50.52m to 50.58m; thin bed of tuffaceous silty clay.	50.03 (0.57) 50.60 (0.40)	-60.21 -60.78	
51.00 - 52.50				100	N/A	N/A		51	Very stiff dark greyish brown and brown slightly sandy silty CLAY with frequent to abundant indistinct pockets (<30mm x 30mm) and lenses (<10mm x 20mm) of light brown and brown silty fine sand, with indistinct laminae of light brown and brown silty fine sand. Locally possibly glauconitic. Sand is fine. [HARWICH FORMATION, WRABNESS MEMBER] Very stiff indistinctly fissured dark greyish brown and brown silty CLAY with some to frequent pockets/lenses (<10mm x 15mm) of light brown and dark grey silty fine sand, and some burrows (<1mm x 10mm) infilled with grey silty clay. Possible Harwich Formation, Wrabness Member/Orwell Member. [HARWICH FORMATION, ORWELL MEMBER]	51.00 (1.50)	-61.18	
52.50 - 54.00	C			100	N/A	N/A		52	At 52.17m; with 2 No. flat subangular dark grey limestone fragments (6mm x 30mm x 30mm).	52.50	-62.68	
52.50 - 54.00				100	N/A	N/A		53	Possibly stiff and very stiff dark greyish brown and dark brownish grey silty CLAY. Core run sealed for laboratory testing. [HARWICH FORMATION, ORWELL MEMBER] At 53.20m; possibly with 1 No. indistinct thick lamina (10mm) of stiff and very stiff dark greyish black tuffaceous silty clay.	(1.50)		
54.00 - 55.50				100	N/A	N/A		54	Stiff dark greyish brown and brown sandy CLAY with abundant pockets (<30mm x 40mm) and lenses (<10mm x 20mm) of light brown, brown and dark grey silty fine sand. Sand is fine. [HARWICH FORMATION, ORWELL MEMBER]	54.00 (1.20)	-64.18	

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SB_01**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648727.88 N264096.81	Ground Elevation (m Datum)	-10.18	Sheet 12 of 12
Hole Type	Sonic Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									55.15m to 55.20m; slightly gravelly. Gravel is well rounded medium and coarse of greyish white and light brown slightly weathered chert/flint (pebbles), with dark grey and black coating (<1mm thick).	55.20	-65.38	
										(0.30)		
									Very stiff fissured brown and light brown mottled light grey and light bluish grey silty CLAY thinly laminated with light grey and greyish white calcareous silt. Slightly calcareous. Fissures are mainly inclined (50-75 degrees), planar, smooth, polished and striated (possibly sheared), very tight. Undifferentiated Mottled Beds (Reading Formation). [READING FORMATION]	55.50	-65.68	
								56	55.20m to 55.25m; with occasional subvertical burrows (<10mm x 50mm) infilled with dark greyish brown silty fine sand.			
									End of Borehole at 55.50 m			
								57				
								58				
								59				

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SB_02**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E649330.30 N264100.51	Ground Elevation (m Datum)	-7.93	Sheet 1 of 1
Hole Type	Sonic Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	55.50	SD	14/06/2019	16/06/2019	LS600 : Excalibur	Sonic	118mm	PJ/LM	RL/MH/DM	

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
14/06/2019	20:50:00	0.00	0.00	
14/06/2019	23:45:00	6.00	6.00	
15/06/2019	00:15:00	6.00	6.00	
15/06/2019	11:45:00	28.50	28.50	
15/06/2019	12:15:00	28.50	28.50	
15/06/2019	23:45:00	48.00	48.00	
16/06/2019	00:15:00	48.00	48.00	
16/06/2019	11:45:00	55.50	55.50	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
55.50	118	55.50	150

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
0.00	1.50	100
1.50	3.00	100
3.00	4.50	100
4.50	6.00	100
6.00	7.50	100
7.50	9.00	100
9.00	10.50	100
10.50	12.00	100
12.00	13.50	100
13.50	15.00	100
15.00	16.50	100
16.50	18.00	100
18.00	19.50	100
19.50	21.00	100
21.00	22.50	100
22.50	24.00	100
24.00	25.50	100
25.50	27.00	100
27.00	28.50	100
28.50	30.00	100
30.00	31.50	100
31.50	33.00	100
33.00	34.50	100
34.50	36.00	100
36.00	37.50	100
37.50	39.00	100
39.00	40.50	100
40.50	42.00	100
42.00	43.50	100
43.50	45.00	100
45.00	46.50	100
46.50	48.00	100
48.00	49.50	100
49.50	51.00	100
51.00	52.50	100
52.50	54.00	100
54.00	55.50	100

General Remarks

1. Deck to mud was 18.00m; deck level was 10.07m above OD. 2. Between 10.50m and 43.50m; driller noted blowing sands inside casing for majority of runs resulting in redrilling a number of runs. 3. Driller noted creased core liner in runs between 39.00m and 40.50m, and between 42.00m and 43.50m.

Notes

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Checked By	CAY	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 29/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649330.30 N264100.51	Ground Elevation (m Datum)	-7.93	Sheet 1 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 1.50				60	N/A	N/A			Dark greyish brown SAND with rare pockets (<20mm x 50mm) of dark grey and black silty fine sand. Slightly calcareous. Sand is fine and medium. Slight organic odour. [MARINE DEPOSITS, BANK DEPOSITS]	(0.90)		
									0.42m to 0.50m; thin bed of dark grey and black slightly silty fine sand. Slight organic odour.			
									0.83m to 0.90m; thin bed of dark grey and black slightly silty fine sand. Slight organic odour.	0.90	-8.83	
								1	Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.60)		
										1.50	-9.43	
1.50 - 3.00				100	N/A	N/A		2	Dark greyish brown SAND with occasional to locally frequent pockets (<20mm x 50mm) of dark grey and black silty fine sand. Slightly calcareous. Sand is fine and medium. Slight organic odour. [MARINE DEPOSITS, BANK DEPOSITS]	(2.30)		
								3				
3.00 - 4.50				53	N/A	N/A				3.80	-11.73	
									Sand (Driller's description). POOR RECOVERY. 3.80m to 4.50m; assumed zone of core loss.			
								4				
									4.50m to 6.00m (200mm recovery); recovered as dark grey silty sand. Slightly calcareous. Sand is fine. Organic odour.	(2.20)		MR/ AZCL
									Continued next page			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649330.30 N264100.51	Ground Elevation (m Datum)	-7.93	Sheet 2 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
4.50 - 6.00				13	N/A	N/A						
								6	Very stiff dark grey gravelly CLAY. Gravel is subangular to rounded fine to coarse of chalk, flint and quartz. [LOWESTOFT FORMATION] 6.00m to 6.08m; thin bed of dark greyish brown slightly silty sand. Sand is fine and medium.	6.00	-13.93	
6.00 - 7.50				100	N/A	N/A				(1.30)		
								7		7.30	-15.23	
									Brownish grey mottled light grey and dark grey slightly gravelly SAND with closely and medium spaced thin beds of light brown and dark brown gravelly sand. Calcareous. Sand is mainly fine and medium. Gravel is subangular to rounded fine to coarse of chalk and flint. [LOWESTOFT FORMATION]	(0.93)		
7.50 - 9.00				100	N/A	N/A		8		8.23	-16.16	
									Firm becoming stiff dark grey gravelly CLAY with occasional pockets (<20mm x 50mm) of light brownish grey gravelly slightly clayey fine and medium sand. Gravel is subangular to rounded fine to coarse of chalk. [LOWESTOFT FORMATION] 8.30m to 8.40m; thin bed of light brownish grey slightly gravelly slightly clayey sand. Sand is fine and medium. Gravel is angular to subrounded fine and medium of chalk.	(0.77)		
								9		9.00	-16.93	
									Reddish brown sandy GRAVEL. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of chalk, chert, flint and quartz. Possible Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)]	(0.50)		
										9.50	-17.43	
9.00 - 10.50				67	N/A	N/A			Reddish brown SAND. Sand is mainly fine and medium. Possible Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)]	(0.50)		
									Continued next page	10.00	-17.93	

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649330.30 N264100.51	Ground Elevation (m Datum)	-7.93	Sheet 3 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									Sand and gravel (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.50)		
										10.50	-18.43	
									Greyish brown SAND. Sand is fine to coarse. Possible Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATE D)]	(0.75)		
								11				
10.50 - 12.00				50	N/A	N/A			Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	11.25	-19.18	
										(0.75)		
								12	Reddish brown SAND, with abundant shell fragments (<5mm x 10mm, locally <32mm) and rare pockets (<10mm x 10mm) of soft orangish brown clay. Calcareous. Sand is mainly medium and coarse. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	12.00	-19.93	
									12.40m to 12.50m; with 5 No. angular iron concretion fragments (<5mm x 30mm).			
									12.56m to 12.64m; with 1 No. subrounded chert fragment (30mm x 70mm x 100mm).	(1.30)		
12.00 - 13.50				87	N/A	N/A			12.70m to 12.74m; with 1 No. subrounded iron concretion (30mm x 50mm x 60mm). 12.74m to 13.70m; greyish brown.			
								13				
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	13.30	-21.23	
										(0.20)		
									Reddish brown SAND, with abundant shell fragments (<5mm x 10mm, locally <32mm) and rare pockets (<10mm x 10mm) of soft orangish brown clay. Calcareous. Sand is mainly medium and coarse. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	13.50	-21.43	
										(0.20)		
										13.70	-21.63	
								14	Firm and stiff laminated grey, locally brown and reddish brown, CLAY with extremely closely and very closely spaced thin and thick laminae of dark grey fine to coarse sand. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	(0.80)		
13.50 - 15.00				100	N/A	N/A			13.70m to 13.83m; brown, with 1 No. subrounded reddish brown flint (20mm x 40mm x 60mm). 14.10m to 14.23m; thin bed of orangish brown fine to coarse sand. 14.23m to 14.27m; brown and reddish brown. 14.27m to 14.32m; very thin bed of orangish brown fine to coarse sand. 14.45m to 14.50m; brown and reddish brown.	14.50	-22.43	
									Reddish brown SAND with abundant shell fragments (<5mm x 10mm) and rare pockets (<10mm x 10mm) of soft orangish brown clay. Calcareous. Sand is mainly medium and coarse. Possible Red Crag Formation.			
									Continued next page			

Notes

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649330.30 N264100.51	Ground Elevation (m Datum)	-7.93	Sheet 4 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
15.00 - 16.50				100	N/A	N/A			[RED CRAG FORMATION (UNDIFFERENTIATED)]			
									15.50m to 15.65m; thin bed of firm laminated grey clay with extremely closely to closely spaced thin and thick laminae of dark grey fine to coarse sand.			
								16		(3.50)		
16.50 - 18.00				100	N/A	N/A						
								17	16.93m to 16.96m; with 1 No. subangular chert fragment (30mm x 50mm x 50mm).			
								18	17.87m to 17.95m; with 1 no. inclined (25 degrees) thin bed of firm laminated grey clay with extremely closely and very closely spaced thin and thick laminae of dark grey fine to coarse sand.	18.00	-25.93	
18.00 - 19.50				100	N/A	N/A			Light greenish grey slightly gravelly silty SAND with rare to occasional shell fragments (<2mm x 6mm). Slightly calcareous. Sand is mainly fine and medium. Gravel is possibly fine. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]			
								19				
19.50 - 21.00	B	1								(3.80)		
									Continued next page			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649330.30 N264100.51	Ground Elevation (m Datum)	-7.93	Sheet 5 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
19.50 - 21.00				100	N/A	N/A		21	At 21.20m; with 1 No. pocket (20mm x 20mm) of firm brown clay.			
21.00 - 22.50				53	N/A	N/A						
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	21.80 (0.70)	-29.73	
								22		22.50	-30.43	
									Light greenish grey SAND with rare to occasional shell fragments (<2mm x 15mm). Slightly calcareous. Sand is fine to coarse. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]			
22.50 - 24.00				87	N/A	N/A		23		(1.30)		
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	23.80 (0.20)	-31.73	
								24	Light greenish grey SAND with rare to occasional becoming abundant shell fragments (<2mm x 15mm). Slightly calcareous. Sand is fine to coarse. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	24.00	-31.93	
24.00 - 25.50				93	N/A	N/A			24.40m to 24.55m; with 2 No. subangular weak brown mudstone fragments (<30mm x 40mm x 40mm).			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649330.30 N264100.51	Ground Elevation (m Datum)	-7.93	Sheet 6 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
										(2.40)		
									25.40m to 25.50m; assumed zone of core loss.			
								26	25.90m to 26.40m; with abundant shell fragments (<2mm x 20mm).			
25.50 - 27.00				60	N/A	N/A						
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	26.40	-34.33	
										(0.60)		
27.00 - 28.40	B	9						27	Greenish grey, locally dark grey, SAND with frequent to abundant shell fragments (<2mm x 10mm, locally <5mm x 30mm). Slightly calcareous. Sand is fine to coarse. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	27.00	-34.93	
									27.20m to 27.50m; dark grey. Slight organic odour.			
27.00 - 28.50				93	N/A	N/A						
								28				
									28.40m to 28.50m; assumed zone of core loss.	(2.80)		
28.50 - 28.70	D	10										
								29				
28.50 - 30.00				87	N/A	N/A						
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	29.80	-37.73	
										(0.20)		
										30.00	-37.93	

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649330.30 N264100.51	Ground Elevation (m Datum)	-7.93	Sheet 7 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
30.00 - 31.50				100	N/A	N/A			Greenish grey mottled dark grey SAND with frequent to abundant shell fragments (<2mm x 10mm, locally <5mm x 30mm) and occasional pockets (<30mm x 40mm) of soft brown clay. Slightly calcareous. Sand is fine to coarse. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	(0.15)		
										30.15	-38.08	
									Greenish grey, locally mottled dark grey, slightly gravelly SAND with frequent to locally abundant shell fragments (<1mm x 20mm x 30mm) and rare pockets (<20mm x 20mm) of soft brown clay. Calcareous. Sand is mainly medium and coarse. Gravel is subangular and subrounded fine to coarse of weak brown mudstone. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]			
								31				
31.60 - 32.10	B	7							31.50m to 32.00m; mottled dark grey.	(2.95)		
32.10 - 32.15	D	8						32				
31.50 - 33.00				100	N/A	N/A			32.50m to 33.00m; with abundant shell fragments (<1mm x 20mm x 30mm) and 1 No. subrounded brown chert fragment (10mm x 20mm x 20mm).			
								33				
										33.10	-41.03	
33.00 - 34.50				100	N/A	N/A			Greenish grey SAND with closely and medium spaced thin and medium beds of interlaminated and very thinly interbedded light grey and dark grey slightly sandy clay and dark grey fine and medium sand, with rare to locally occasional shells (<1mm x 20mm) and shell fragments (<1mm x 10mm) and rare to occasional pockets/burrows (<20mm x 50mm) infilled with soft grey slightly sandy clay. Calcareous. Sand is fine to coarse. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]			
								34				
										(2.50)		

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649330.30 N264100.51	Ground Elevation (m Datum)	-7.93	Sheet 8 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
34.50 - 36.00				100	N/A	N/A						
										35.60	-43.53	
								36	Greenish grey, locally mottled brownish grey, slightly gravelly SAND with occasional shell fragments (<1mm x 5mm). Calcareous. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse of mudstone and brown chert. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	(1.20)		
36.00 - 37.50				100	N/A	N/A						
										36.80	-44.73	
								37	Greenish grey, locally mottled brownish grey, SAND with frequent to abundant shell fragments (<1mm x 10mm) and occasional pockets (<10mm x 20mm) of soft grey clay. Calcareous. Sand is fine to coarse. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]			
										(2.00)		
								38				
37.50 - 39.00				87	N/A	N/A						
										38.80	-46.73	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.20)		
								39		39.00	-46.93	
									Greenish grey SAND with frequent to abundant shell fragments (<1mm x 10mm) and occasional pockets (<10mm x 20mm) of clayey sand. Calcareous. Sand is fine to coarse. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)] 39.45m to 39.55m; thin bed of greenish grey slightly clayey sand.	(1.00)		
39.00 - 40.50				67	N/A	N/A						
										40.00	-47.93	

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649330.30 N264100.51	Ground Elevation (m Datum)	-7.93	Sheet 9 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.50)		
										40.50	-48.43	
									Greenish grey SAND with frequent to abundant shell fragments (<1mm x 10mm) and occasional pockets (<10mm x 20mm) of clayey sand. Calcareous. Sand is fine to coarse. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]			
								41				
40.50 - 42.00				100	N/A	N/A			41.20m to 41.55m; medium bed of greenish grey mottled black slightly gravelly sand. Calcareous. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse of chert and mudstone. Organic odour.	(2.80)		
								42				
42.00 - 43.50				87	N/A	N/A						
								43				
										43.30	-51.23	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.20)		
										43.50	-51.43	
									Greenish grey SAND with frequent to abundant shell fragments (<1mm x 10mm). Calcareous. Sand is fine to coarse. Possible Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]			
								44				
43.50 - 45.00				80	N/A	N/A			At 44.35m; with 1 No. subangular brown mudstone fragment (10mm x 20mm x 25mm).	(1.20)		
									44.50m to 44.67m; with extremely closely and very closely spaced very thin beds of dark grey fine to coarse sand. Organic odour.			
									44.67m to 44.70m; very thin bed of brown silty clay.	44.70	-52.63	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.30)		
										45.00	-52.93	
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649330.30 N264100.51	Ground Elevation (m Datum)	-7.93	Sheet 10 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									Greyish brown gravelly SAND. Sand is fine to coarse. Gravel is subangular and subrounded medium and coarse of limestone with calcite veins (<2mm) and claystone. Possibly reworked Red Crag Formation. [RED CRAG FORMATION (UNDIFFERENTIATED)]	(0.15)	45.15	-53.08
									Very stiff dark grey slightly sandy slightly gravelly CLAY. Calcareous. Sand is fine to coarse. Gravel subangular and subrounded is fine and medium of claystone. Possibly reworked Harwich Formation, Wrabness Member. [HARWICH FORMATION, WRABNESS MEMBER]	(0.25)	45.40	-53.33
45.00 - 46.50				100	N/A	N/A			45.30m to 45.40m; with 1 No. subangular brown possible claystone (90mm x 100mm).			
								46	Very stiff, locally fissured, brown, locally dark grey and light grey, slightly sandy silty CLAY. Micaceous. Locally tuffaceous. Sand is fine and medium. Possible Harwich Formation, Wrabness Member. [HARWICH FORMATION, WRABNESS MEMBER]			
46.50 - 48.00				100	N/A	N/A		47	47.20m to 47.40m; fissured. Fissures are very closely spaced, inclined (60-85 degrees), planar, polished, very tight and tight, locally with brown staining. 47.40m to 47.45m; dark grey and tuffaceous. 47.50m to 47.60m; fissured. Fissures are extremely closely spaced, randomly orientated, planar and undulating, polished, tight, with dark brown staining.			
48.10 - 48.40	B	2						48	47.75m to 47.80m; light grey. 47.75m to 47.90m; fissured. Fissures are extremely closely and very closely spaced, randomly orientated, planar, polished, tight, with brown staining. At 47.80m; possible thin lamina (<2mm) of white calcite. 47.80m to 47.90m; thin bed of dark grey bioturbated tuffaceous silty clay with abundant pockets (<2mm x 2mm) of greyish brown silt. 47.88m to 47.90m; with 1 No. pocket (20mm x 20mm x 20mm) of brownish green glauconitic slightly sandy clay. Sand is fine and medium.	(5.35)		
48.40 - 48.45	D	3										
48.65 - 48.90	C	11										
48.00 - 49.50				100	N/A	N/A			48.00m to 48.05m; recovered as angular and subangular claystone fragments (<50mm x 50mm x 80mm). Possibly whole strong greyish brown calcareous claystone (full core diameter). 48.10m to 48.20m; dark grey and tuffaceous. 48.23m to 48.28m; fissured. Fissures are extremely closely spaced, randomly orientated, planar and undulating, polished, tight, with brown staining. 48.34m to 48.37m; very thin bed of soft brown clay.			
								49	49.40m to 49.44m; dark grey and tuffaceous.			
									Continued next page			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649330.30 N264100.51	Ground Elevation (m Datum)	-7.93	Sheet 11 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
49.50 - 51.00				100	N/A	N/A			50.00m to 50.20m; fissured and dark grey. Fissures are extremely closely and very closely spaced, randomly orientated, planar, polished, tight, with brown staining. 50.12m to 50.15m; very thin bed of soft brown clay. 50.60m to 50.75m; fissured. Fissures are very closely and closely spaced, inclined (45-60 degrees), planar, polished, very tight.	50.75	-58.68	
51.00 - 51.30	B	4						51	Firm and stiff dark brown slightly sandy gravelly CLAY with low cobble content. Sand is fine and medium. Gravel is subangular and subrounded fine to coarse of dark grey possible limestone. Cobbles (<50mm x 60mm x 70mm) are subangular of dark grey possible limestone. Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	(0.25) 51.00	-58.93	
51.30 - 51.35	D	5										
51.35 - 51.65	C	12										
51.00 - 52.50				100	N/A	N/A			Stiff, locally fissured, brown, locally dark grey, slightly sandy SILT with rare to locally occasional pockets (<10mm x 30mm) of light brown fine and medium sand. Micaceous. Locally tuffaceous. Sand is fine and medium. Possible Harwich Formation, Wrabness Member/Orwell Member. [HARWICH FORMATION, ORWELL MEMBER] 51.00m to 51.05m; dark grey and tuffaceous. 51.25m to 51.37m; with occasional pockets (<10mm x 30mm) of light brown fine and medium sand. 51.72m to 51.78m; dark grey and tuffaceous. 52.10m to 52.40m; with 3 No. very closely and closely spaced thin beds of dark grey tuffaceous silty clay.			
								52		(2.60)		
52.50 - 52.55	D	6							52.50m to 52.60m; fissured. Fissures are extremely closely and very closely spaced, inclined (40-60 degrees), planar, polished, very tight. 52.60m to 52.70m; dark greenish grey (possibly glauconitic).			
								53				
52.50 - 54.00				100	N/A	N/A			53.07m to 53.17m; gravelly. Gravel is angular and subangular fine to coarse of dark grey limestone and calcite. 53.17m to 53.25m; with 1 No. subangular strong dark grey limestone fragment (60mm x 90mm x 90mm) with occasional inclined (40-70 degrees) calcite veins (<2mm). 53.25m to 53.30m; with occasional pockets (<10mm x 10mm) of brown fine and medium sand.			
									Very stiff becoming stiff brownish grey sandy CLAY. Micaceous. Sand is fine and medium. Possible Harwich Formation, Wrabness Member/Orwell Member. [HARWICH FORMATION, ORWELL MEMBER]	53.60	-61.53	
								54	At 53.80m; with 1 No. thin lamina of light brown fine sand. 54.00m to 54.30m; stiff. At 54.00m; with 1 No. thin lamina of light brown fine sand.	(0.70)		
									Very stiff and stiff brown slightly sandy becoming sandy CLAY with occasional pockets (<10mm x 30mm) of light brown fine and medium sand. Micaceous. Sand is fine and medium Possible Harwich Formation, Wrabness Member/Orwell Member. [HARWICH FORMATION, ORWELL MEMBER]	54.30	-62.23	
54.00 - 55.50				100	N/A	N/A				(1.20)		

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649330.30 N264100.51	Ground Elevation (m Datum)	-7.93	Sheet 12 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									55.20m to 55.50m; sandy. 55.30m to 55.40m; with extremely closely spaced thin laminae of brown fine sand.	55.50	-63.43	
									End of Borehole at 55.50 m			
								56				
								57				
								58				
								59				

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SB_03**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650382.79 N264107.33	Ground Elevation (m Datum)	-8.00	Sheet 1 of 1
Hole Type	Sonic Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	30.00	SD	09/07/2019	09/07/2019	LS600: Excalibur	Sonic	118mm	PJ/MW	PC/RL	

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
09/07/2019	12:00:00	0.00	0.00	
09/07/2019	23:45:00	30.00	30.00	

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
0.00	1.50	100
1.50	3.00	100
3.00	4.50	100
4.50	6.00	100
6.00	7.50	100
7.50	9.00	100
9.00	10.50	100
10.50	12.00	100
12.00	13.50	100
13.50	15.00	100
15.00	16.50	100
16.50	18.00	100
18.00	19.50	100
19.50	21.00	100
21.00	22.50	100
22.50	24.00	100
24.00	25.50	100
25.50	27.00	100
27.00	28.50	100
28.50	30.00	100

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
30.00	118	30.00	150

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

General Remarks

1. Deck to mudline was 18.00m; deck level was 10.00m above OD. 2. Core sample (C1) taken between 13.85m and 14.50m was preserved and sent for testing at Laboratoire CEMETE-EDF-TEGG, as instructed by NNB; only non-destructive logging was carried out on core surface (treat descriptions with caution).

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Checked By	CAY	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 29/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650382.79 N264107.33	Ground Elevation (m Datum)	-8.00	Sheet 1 of 6	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 1.50				87	N/A	N/A		1	Grey (oxidising to brown and dark brown) SAND. Slightly calcareous. Sand is fine and medium. [MARINE DEPOSITS, BANK DEPOSITS]	(1.30)		
									Silt (Driller's description). ASSUMED ZONE OF CORE LOSS.	1.30 (0.20)	-9.30	
1.50 - 3.00				93	N/A	N/A		2	Dark grey (oxidising to brown and dark brown), locally black and brownish grey, SAND, locally silty sand. Slightly calcareous. Sand is fine and medium. Undifferentiated Recent Deposits. [MARINE DEPOSITS, BANK DEPOSITS] 2.28m to 2.35m; black, slightly silty. Slight organic odour. 2.35m to 2.40m; brownish grey.	1.50 (0.90)	-9.50	
									Dark orangish brown silty SAND. Highly calcareous. Sand is fine to coarse. Possibly reworked Coralline Crag Formation. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	2.40 (0.20)	-10.40	
3.00 - 4.50 3.80 - 4.82	D	8		100	N/A	N/A		3 4	Yellowish brown slightly and moderately cemented silty SAND, recovered with occasional to locally frequent angular and subangular moderately weak calcarenite fragments (<50mm x 70mm x 80mm), with abundant shell fragments (<1mm x 10mm x 10mm). Highly calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)] 2.90m to 3.00m; assumed zone of core loss. 3.80m to 3.90m; recovered with frequent angular moderately weak orangish brown calcarenite fragments (<50mm x 70mm x 80mm). Possibly fragmented thin bed of calcarenite.	2.60 (3.20)	-10.60	
									Continued next page			

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650382.79 N264107.33	Ground Elevation (m Datum)	-8.00	Sheet 2 of 6	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
4.50 - 6.00				87	N/A	N/A						
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	5.80 (0.20)	-13.80	
6.00 - 6.70	B	12						6	Yellowish brown and orangish brown slightly cemented becoming moderately and well cemented silty SAND, recovered with occasional to locally frequent angular and subangular moderately weak calcarenite fragments (<30mm x 60mm x 70mm), with abundant shell fragments (<1mm x 10mm x 10mm). Highly calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	6.00	-14.00	
6.54 - 7.35	D	5										
6.70 - 7.40 6.00 - 7.50	B	2		93	N/A	N/A			6.45m to 8.75; moderately and well cemented. 6.55m to 7.40m; recovered with frequent angular moderately weak orangish brown calcarenite fragments (<30mm x 50mm x 70mm). Possibly fragmented 3 No. closely spaced thin beds of calcarenite.			
								7				
									7.40m to 7.50m; assumed zone of core loss.	(2.75)		
7.50 - 8.75	B	3										
									7.75m to 7.90m; recovered with frequent angular moderately weak orangish brown calcarenite fragments (<30mm x 60mm x 70mm). Possibly fragmented thin bed of calcarenite.			
								8				
7.50 - 9.00				83	N/A	N/A						
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	8.75 (0.25)	-16.75	
								9	Dark greenish grey (oxidising to yellowish brown and orangish brown) slightly and moderately cemented SAND, recovered with occasional angular and subangular moderately weak calcarenite fragments (<30mm x 40mm x 40mm), with abundant shell fragments (<1mm x 10mm x 10mm). Highly calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	9.00 (1.10)	-17.00	
9.40 - 9.80	D	4										
9.00 - 10.50				73	N/A	N/A						
9.91 - 10.10	D	6										
									Continued next page			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650382.79 N264107.33	Ground Elevation (m Datum)	-8.00	Sheet 3 of 6	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
										10.10	-18.10	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.40)		
										10.50	-18.50	
									Dark grey (oxidising to yellowish brown) slightly and moderately cemented SAND with abundant shell fragments (<1mm x 10mm x 10mm). Highly calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	(0.88)		
10.50 - 12.00				73	N/A	N/A		11	11.25m to 11.38m; dark grey (oxidising to dark orangish brown).	11.38	-19.38	
									Yellowish grey slightly cemented SAND with abundant shell fragments (<1mm x 5mm x 5mm). Highly calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	(0.22)		
										11.60	-19.60	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.40)		
								12	Yellowish grey becoming grey slightly cemented becoming moderately cemented SAND, recovered with occasional angular and subangular moderately weak calcarenite fragments (<30mm x 50mm x 70mm), with abundant shell fragments (<1mm x 5mm x 5mm). Highly calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	12.00	-20.00	
12.00 - 13.50				83	N/A	N/A				(1.25)		
								13		13.25	-21.25	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.25)		
										13.50	-21.50	
13.85 - 14.50	C	1							Grey slightly cemented SAND, recovered with occasional angular and subangular moderately weak calcarenite fragments (<30mm x 75mm x 85mm), with abundant shell fragments (<1mm x 5mm x 5mm). Highly calcareous. Sand is fine to coarse. Part of the core run (C1) sealed for laboratory testing. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]			
								14		(1.00)		
13.50 - 15.00				67	N/A	N/A			13.74m to 13.82m; recovered with 2 No. angular moderately weak grey calcarenite fragments (30mm x 30mm x 30mm and 30mm x 70mm x 80mm). Possibly fragmented very thin and thin bed of calcarenite.			
										14.50	-22.50	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.50)		
										15.00	-23.00	
									Continued next page			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650382.79 N264107.33	Ground Elevation (m Datum)	-8.00	Sheet 4 of 6	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
15.00 - 16.50				87	N/A	N/A			Grey and dark grey slightly and moderately cemented SAND, recovered with occasional angular and subangular moderately weak grey calcarenite fragments (<30mm x 30mm x 30mm), with abundant shell fragments (<2mm x 10mm x 10mm). Highly calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	(1.30)		
15.88 - 16.30	D	7						16	At 16.25m; with 1 No. coral fragment (3mm x 20mm x 40mm).	16.30	-24.30	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.20)		
									Grey slightly cemented slightly silty SAND, recovered with rare to occasional angular and subangular moderately weak grey calcarenite fragments (<20mm x 30mm x 30mm), with abundant shell fragments (<1mm x 5mm x 5mm). Highly calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	16.50	-24.50	
16.50 - 18.00				93	N/A	N/A		17	Grey slightly cemented silty SAND, recovered with rare becoming occasional angular and subangular moderately weak grey calcarenite fragments (<20mm x 30mm x 30mm), with abundant shell fragments (<1mm x 5mm x 5mm), locally with abundant coral fragments (<2mm x 20mm x 30mm). Highly calcareous. Sand is mainly fine and medium. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	(0.45)		
									17.00m to 17.10m; with abundant coral fragments. 17.30m to 18.95m; recovered with occasional calcarenite fragments. 17.90m to 18.00m; assumed zone of core loss.	16.95	-24.95	
18.66 - 18.77	D	9						18		(2.00)		
18.00 - 19.50				63	N/A	N/A						
								19	Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	18.95	-26.95	
										(0.55)		
19.50 - 20.10	B	14							Grey and dark grey moderately and well cemented silty SAND, recovered with occasional to frequent angular and subangular moderately weak grey calcarenite fragments (<20mm x 30mm x 30mm), with abundant shell fragments (<1mm x 5mm x 5mm). Highly calcareous. Sand is fine to coarse.	19.50	-27.50	
									Continued next page			

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SB_03**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650382.79 N264107.33	Ground Elevation (m Datum)	-8.00	Sheet 5 of 6
Hole Type	Sonic Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
20.10 - 20.70	B	15							[CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	(1.20)		
19.50 - 21.00				80	N/A	N/A						
										20.70	-28.70	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.30)		
21.00 - 22.30	B	13						21		21.00	-29.00	
									Grey and dark grey moderately and well cemented slightly silty SAND, recovered with occasional angular and subangular moderately weak grey calcarenite fragments (<30mm x 30mm x 40mm), with abundant shell fragments (<1mm x 5mm x 5mm). Highly calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	(1.30)		
21.00 - 22.50				87	N/A	N/A						
								22				
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	22.30	-30.30	
										(0.20)		
									Grey and dark grey slightly cemented silty SAND, recovered with rare to occasional angular and subangular moderately weak grey calcarenite fragments (<20mm x 30mm x 30mm), with occasional shell fragments (<1mm x 5mm x 5mm). Highly calcareous. Sand is mainly fine and medium. Possible Coralline Crag Formation, Ramsholt Member. [CORALLINE CRAG FORMATION, RAMSHOLT MEMBER]	22.50	-30.50	
22.90 - 23.20	D	11						23				
22.50 - 24.00				100	N/A	N/A				(1.50)		
24.02 - 24.06	D	10						24		24.00	-32.00	
									Dark grey and black very silty SAND with occasional shell fragments (<2mm x 2mm x 2mm). Highly calcareous. Sand is mainly fine and medium. Organic odour. Possible Coralline Crag Formation, Ramsholt Member. [CORALLINE CRAG FORMATION, RAMSHOLT MEMBER]	(0.35)		
										24.35	-32.35	
									Grey, dark grey and yellowish grey slightly cemented silty SAND, recovered with rare to occasional angular and subangular moderately weak grey calcarenite fragments (<20mm x 30mm x 30mm), with frequent to abundant becoming rare shell fragments (<1mm x 10mm x 10mm). Highly calcareous. Sand is mainly fine and medium. Possible Coralline Crag Formation,			
24.00 - 25.50				100	N/A	N/A						

Continued next page

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650382.79 N264107.33	Ground Elevation (m Datum)	-8.00	Sheet 6 of 6	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									Ramsholt Member. [CORALLINE CRAG FORMATION, RAMSHOLT MEMBER]	(1.49)		
									25.50m to 25.84m; with rare shell fragments (<2mm x 2mm x 2mm).			
										25.84	-33.84	
								26	Grey becoming dark greenish grey slightly gravelly becoming gravelly very silty SAND with occasional to locally frequent shell fragments (<5mm x 30mm x 50mm), and rare becoming occasional pockets (<30mm x 30mm) of brown clay. Calcareous. Glauconitic. Sand is fine and medium. Gravel is subangular and subrounded medium and coarse of dark brown possibly phosphatic coated pebbles. Possible Coralline Crag Formation, Ramsholt Member, Boxstone Bed. [CORALLINE CRAG FORMATION, RAMSHOLT MEMBER]	(1.09)		
25.50 - 27.00				100	N/A	N/A						
									25.84m to 26.00m; with occasional pockets (<5mm x 5mm) of white silt (possible comminuted chalk). 26.00m to 26.93m; dark greenish grey. 26.10m to 26.20m; with frequent bivalve shells (<5mm x 30mm x 50mm) and shell fragments (<2mm x 10mm x 10mm). 26.70m to 26.93m; gravelly, with frequent pockets (<30mm x 30mm) of firm brown clay.	26.93	-34.93	
								27	Very stiff brown, locally dark brown, fissured CLAY with occasional burrows (<2mm x 10mm) infilled with light brown silt. Micaceous. Fissures are extremely closely and very closely spaced, randomly orientated, planar, and undulating, smooth, polished, tight, with brown staining or grey gleying. [LONDON CLAY FORMATION, WALTON MEMBER]	(0.92)		
27.00 - 28.50				100	N/A	N/A						
									26.93m to 27.00m; dark brown, with extremely closely spaced thin laminae/partings of greenish grey silty fine and medium sand and occasional pockets (<10mm x 20mm) of greenish grey silty fine and medium sand. Probably reworked.	27.85	-35.85	
								28	Very stiff dark greyish brown fissured becoming indistinctly fissured CLAY with occasional burrows (<2mm x 10mm) infilled with light brown silt, and rare becoming occasional tubular agglutinated foraminifera (<1mm x 2mm). Micaceous. Fissures are extremely closely and very closely spaced becoming closely spaced, mainly inclined (45-90 degrees), planar and undulating, smooth, polished, very tight and tight, with some brown staining. [LONDON CLAY FORMATION, WALTON MEMBER]			
								29		(2.15)		
28.50 - 30.00				100	N/A	N/A						
									29.20m to 30.00m; with occasional tubular agglutinated foraminifera.			
									29.45m to 30.00m; fissures are mainly indistinct, possibly closely spaced.			
									At 29.75m; with 1 No. pocket (20mm x 20mm) of fine sand sized pyrite.			
									End of Borehole at 30.00 m	30.00	-38.00	

Notes

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SB_04**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E651081.19 N264112.23	Ground Elevation (m Datum)	-16.60	Sheet 1 of 1
Hole Type	Sonic Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	55.50	SD	04/07/2019	05/07/2019	LS600 : Excalibur	Sonic	118mm	PJ/LM	PC/MH/RL	

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
04/07/2019	12:00:00	0.00	0.00	
04/07/2019	23:45:00	19.50	19.50	
05/07/2019	00:00:00	19.50	19.50	
05/07/2019	11:45:00	43.50	43.50	
05/07/2019	12:00:00	43.50	43.50	
05/07/2019	18:00:00	55.50	55.50	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
55.50	118	55.50	150

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
0.00	1.50	100
1.50	3.00	100
3.00	4.50	100
4.50	6.00	100
6.00	7.50	100
7.50	9.00	100
9.00	10.50	100
10.50	12.00	100
12.00	13.50	100
13.50	15.00	100
15.00	16.50	100
16.50	18.00	100
18.00	19.50	100
19.50	21.00	100
21.00	22.50	100
22.50	24.00	100
24.00	25.50	100
25.50	27.00	100
27.00	28.50	100
28.50	30.00	100
30.00	31.50	100
31.50	33.00	100
33.00	34.50	100
34.50	36.00	100
36.00	37.50	100
37.50	39.00	100
39.00	40.50	100
40.50	42.00	100
42.00	43.50	100
43.50	45.00	100
45.00	46.50	100
46.50	48.00	100
48.00	49.50	100
49.50	51.00	100
51.00	52.50	100
52.50	54.00	100
54.00	55.50	100

General Remarks

1. Deck to mud was 26.20m; deck level was 9.60m above OD. 2. Samples ES1 (4.50m-19.50m) and ES2 (4.50m-22.70m) were composite of material taken from ends of runs before liners were removed for core logging.
3. Point load tests cannot be performed at any scheduled depths due to unsuitable material.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	CAY	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 29/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651081.19 N264112.23	Ground Elevation (m Datum)	-16.60	Sheet 1 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 0.50	ES	1							Dark brownish grey organic silty CLAY with abundant shell fragments (<5mm x 6mm x 7mm). [TIDAL FLAT DEPOSITS]			
0.00 - 0.50	ES	2								(0.55)		
0.50 - 1.00	ES	3							0.50m to 0.55m; soft brown slightly gravelly very sandy clay. Slightly calcareous. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse of black and brown flint.	0.55	-17.15	
0.00 - 1.50				100	N/A	N/A			Brown slightly clayey SAND with occasional to frequent shell fragments (<5mm x 6mm x 7mm). Slightly calcareous. Sand is fine to coarse. [TIDAL FLAT DEPOSITS]	(0.20) 0.75	-17.35	
1.00 - 1.25	ES	4						1	Soft dark brown slightly gravelly sandy CLAY with occasional shell fragments (<5mm x 6mm x 7mm) and rare gastropod shells (<15mm x 20mm x 30mm). Slightly calcareous. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of black and brown flint. [TIDAL FLAT DEPOSITS]	(0.25) 1.00	-17.60	
1.00 - 1.25	ES	5								(0.50)		
									Soft dark grey CLAY with extremely closely spaced thin laminae of dark brownish grey sandy clay, with occasional to abundant gastropod and bivalve shells (<5mm x 6mm x 7mm) and shell fragments (<5mm x 5mm x 5mm). Slightly calcareous. Sand is fine to coarse. [TIDAL FLAT DEPOSITS]	1.50	-18.10	
										(0.25)		
										1.75	-18.35	
										(0.25)		
2.00 - 2.25	ES	6						2	1.29m to 1.39m; firm black fibrous peat becoming fine to coarse sandy fibrous peat. 1.39m to 1.50m; thin bed of soft dark grey clay with rare pockets (<10mm x 10mm x 10mm) of brown calcareous fine to coarse sand.	2.00	-18.60	
2.00 - 2.25	ES	7								(0.25)		
1.50 - 3.00				100	N/A	N/A			Orangish brown slightly clayey SAND with abundant shell fragments (<3mm x 3mm x 3mm). Slightly calcareous. Sand is fine to coarse. [MARINE DEPOSITS, BANK DEPOSITS]	2.25	-18.85	
									Dark grey slightly gravelly silty SAND. Slightly Calcareous. Sand is fine and medium. Gravel is subangular to subrounded fine to coarse of black and brown flint. [MARINE DEPOSITS, BANK DEPOSITS]			
									1.75m to 1.77m; with 1 No. pocket (20mm x 30mm) of black organic silty sand.			
								3	Dark grey organic clayey SAND with abundant shell fragments (<2mm x 2mm x 3mm). [MARINE DEPOSITS, BANK DEPOSITS]			
3.00 - 4.50				97	N/A	N/A			Greenish grey and dark grey (oxidising to brown) slightly silty SAND with rare becoming occasional to frequent shell fragments (<2mm x 30mm x 40mm), and rare pockets (<5mm x 10mm x 10mm) of black silty fine and medium sand. Slightly Calcareous. Sand is mainly fine and medium. Possible Norwich Crag Formation. [CRAG GROUP (UNDIFFERENTIATED)]			
									2.60m to 3.00m; greenish grey silty fine and medium sand, with occasional shell fragments. 3.70m to 3.80m; gravelly. Gravel is subangular to rounded fine and medium of brown flint and rare quartz.			
								4		(4.20)		
4.50 - 19.50	ES	1										
4.50 - 22.70	ES	2							4.70m to 4.85m; gravelly. Gravel is subangular and subrounded fine to coarse of black flint with rare sandstone and chert. 4.85m to 5.60m; with occasional shell fragments.			

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Client	NNB Generation Company (SZC) Limited			**OT_SB_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651081.19 N264112.23	Ground Elevation (m Datum)	-16.60	Sheet 2 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
4.50 - 6.00				100	N/A	N/A			5.60m to 6.45m; with frequent shell fragments.			
								6	6.35m to 6.45m; gravelly. Gravel is subangular to rounded fine and medium of black flint and chert with rare sandstone and quartz.	6.45	-23.05	
									Greenish grey and locally dark grey (oxidising orangish brown) SAND. Slightly calcareous. Sand is mainly fine and medium. Possible Norwich Crag Formation. [CRAG GROUP (UNDIFFERENTIATED)]	(0.20)		
6.00 - 7.50				80	N/A	N/A			6.45m to 6.55m; greenish grey and dark grey.	6.65	-23.25	
									Greenish grey slightly gravelly SAND with abundant shell fragments (<1mm x 10mm x 10mm). Slightly calcareous. Sand is fine to coarse. Gravel is subrounded and rounded fine of flint and chert. Possible Norwich Crag Formation. [CRAG GROUP (UNDIFFERENTIATED)]	(0.20)		
								7		6.85	-23.45	
									Greenish grey silty SAND. Slightly calcareous. Sand is mainly fine and medium. Possible Norwich Crag Formation. [CRAG GROUP (UNDIFFERENTIATED)]	(0.35)		
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	7.20	-23.80	
									Greenish grey silty SAND. Slightly calcareous. Sand is mainly fine and medium. Possible Norwich Crag Formation. [CRAG GROUP (UNDIFFERENTIATED)]	(0.30)		
										7.50	-24.10	
								8		(1.10)		
7.50 - 9.00				73	N/A	N/A			8.09m to 8.10m; thick laminae of dark grey slightly silty fine and medium sand.			
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	8.60	-25.20	
										(0.40)		
								9		9.00	-25.60	
9.20 - 9.75	B	12							Greenish grey silty SAND. Slightly calcareous. Sand is mainly fine and medium. Possible Norwich Crag Formation. [CRAG GROUP (UNDIFFERENTIATED)]			
									9.35m to 9.40m; with occasional subangular moderately weak dark brown siltstone fragments (<10mm x 40mm x 40mm).	(1.20)		
9.75 - 10.20 9.00 - 10.50	B	13		80	N/A	N/A			At 9.80m; with 2 No. thin laminae of black organic silty sand.			

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

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Client	NNB Generation Company (SZC) Limited			**OT_SB_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651081.19 N264112.23	Ground Elevation (m Datum)	-16.60	Sheet 3 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
										10.20	-26.80	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.30)		
										10.50	-27.10	
10.90 - 11.05	D	15							Greenish grey very thinly to medium interbedded SAND and SAND with frequent to abundant shell fragments (<2mm x 10mm x 15mm). Slightly calcareous. Sand is fine and medium. Possible Norwich Crag Formation. [CRAG GROUP (UNDIFFERENTIATED)]			
11.05 - 11.60	B	14						11				
10.50 - 12.00				87	N/A	N/A				(1.30)		
										11.80	-28.40	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.20)		
								12		12.00	-28.60	
									Greenish grey SAND, possibly locally slightly gravelly sand, with frequent to abundant shell fragments (<1mm x 10mm x 10mm) and rare bivalve shells (<5mm x 20mm x 25mm). Slightly calcareous. Sand is fine to coarse. Possible Norwich Crag Formation. [CRAG GROUP (UNDIFFERENTIATED)]			
12.00 - 13.50				87	N/A	N/A				(1.30)		
								13	13.00m to 13.30m; greenish grey (oxidising to orangish brown).			
										13.30	-29.90	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.20)		
										13.50	-30.10	
									Very thinly to medium interbedded indistinctly cross-bedded (15-20 degrees) greenish grey fine and medium SAND and greenish grey (oxidising to brownish grey) fine to coarse SAND, with frequent to abundant shell fragments (<2mm x 10mm x 15mm). Slightly Calcareous. Possible Norwich Crag Formation. [CRAG GROUP (UNDIFFERENTIATED)]			
								14				
13.50 - 15.00				93	N/A	N/A			14.90m to 15.00m; assumed zone of core loss.			

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Client	NNB Generation Company (SZC) Limited			**OT_SB_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651081.19 N264112.23	Ground Elevation (m Datum)	-16.60	Sheet 4 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
15.00 - 16.50				100	N/A	N/A		16		(4.30)		
16.50 - 18.00				87	N/A	N/A		17	At 16.90m; with 1 No. subrounded brown siltstone fragment (5mm x 30mm x 50mm). 17.44m to 17.45m; with 1 No. subangular siltstone fragment (10mm x 30mm x 50mm). 17.54m to 17.56m; with 1 No. subangular siltstone fragment (15mm x 40mm x 40mm).			
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	17.80 (0.20)	-34.40	
18.10 - 18.33	D	16						18	Greenish grey gravelly silty SAND with occasional to frequent shell fragments (<2mm x 10mm x 15mm). Calcareous. Sand is fine to coarse. Gravel is fine and medium. Possible Norwich Crag Formation. [CRAG GROUP (UNDIFFERENTIATED)]	18.00	-34.60	
18.33 - 19.20	B	17										
18.00 - 19.50				100	N/A	N/A		19	18.90m to 18.95m; with 1 No. inclined (10 degrees) very thin bed (30mm) of brown clay and weak brown mudstone. 18.97m to 19.03m; with No 1. inclined (15 degrees) very thin bed of soft and firm brown clay.	(2.50)		
19.50 - 20.20	B	18										
									Continued next page			

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Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651081.19 N264112.23	Ground Elevation (m Datum)	-16.60	Sheet 5 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
19.50 - 21.00				67	N/A	N/A						
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	20.50 (0.50)	-37.10	
								21	Dark greenish grey SAND with frequent to abundant shell fragments (<1mm x 2mm x 2mm). Calcareous. Sand is fine to coarse. Possible Norwich Crag Formation. [CRAG GROUP (UNDIFFERENTIATED)]	21.00	-37.60	
21.00 - 22.50				100	N/A	N/A						
								22	22.05m to 22.40m; with extremely closely to closely spaced very thin and thin beds of firm and stiff grey clay (possible flasers).	(2.45)		
22.50 - 24.00				100	N/A	N/A		23	22.98m to 23.05m; with 1 No. inclined (60 degrees) lens (15mm x 80mm) of firm grey clay (possible flaser). 23.18m to 23.26m; with 1 No. inclined (80 degrees) lens (20mm x 80mm) of firm grey clay (possible flaser). 23.35m to 23.40m; with 1 No. inclined (20 degrees) lens (30mm x 60mm) of firm grey clay (possible flaser).	23.45	-40.05	
									Greyish brown SAND with extremely closely spaced very thin beds of brownish grey silty sand. Calcareous. Sand is fine and medium. Possible Norwich Crag Formation. [CRAG GROUP (UNDIFFERENTIATED)]	(0.18) 23.63	-40.23	
									Firm becoming stiff fissured grey slightly gravelly CLAY. Micaceous. Gravel is subangular to rounded fine to coarse of dark brown slightly calcareous possible siltstone, occasionally with greenish brown coating. Fissures are extremely closely spaced, randomly orientated, planar, smooth, tight to open, infilled with greenish grey fine to coarse sand, with slight brown staining. Probably reworked London Clay Formation, Walton Member. [LONDON CLAY FORMATION, WALTON MEMBER]	(0.37)		
								24	23.63m to 23.70m; thin bed of dark greyish brown very sandy gravelly clay with frequent shell fragments (<2mm x 10mm x 10mm). Calcareous. Sand is fine to coarse. Gravel is of possible siltstone with rare pyrite inclusions (<1mm x 1mm x 1mm). 23.70m to 23.78m; with frequent pockets (<20mm x 20mm x 20mm) of greenish grey calcareous fine to coarse sand. 23.78m to 24.00m; stiff.	24.00	-40.60	
24.00 - 25.50				100	N/A	N/A						

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
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Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651081.19 N264112.23	Ground Elevation (m Datum)	-16.60	Sheet 6 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									23.87m to 23.89m; with 1 No. pocket (20mm x 60mm x 60mm) of greenish grey calcareous fine to coarse sand.			
25.30 - 25.35	D	11							Very stiff fissured dark grey CLAY with occasional burrows (<1mm x 5mm) infilled with light brown silty clay, and rare to locally frequent tubular agglutinated foraminifera (<1mm x 3mm). Micaceous. Fissures are extremely closely and very closely spaced, randomly orientated, planar, smooth, polished, very tight and tight, with occasional brown staining. [LONDON CLAY FORMATION, WALTON MEMBER]			
25.35 - 25.44	C	8								(3.25)		
									24.37m to 24.70m; with frequent tubular agglutinated foraminifera.			
									25.00m to 25.05m; with 3 No. pockets (<10mm x 10mm x 20mm) of fine sand sized pyrite.			
								26	25.70m to 27.00m; with occasional pockets (<30mm x 50mm) of fine sand sized pyrite.			
25.50 - 27.00				100	N/A	N/A						
								27	27.00m to 27.15m; firm and stiff (possibly drilling disturbed).			
										27.25	-43.85	
									Stiff and very stiff fissured dark brownish grey CLAY with occasional burrows (<1mm x 5mm) infilled with light brown silty clay, and occasional to locally frequent tubular agglutinated foraminifera (<1mm x 3mm). Micaceous. Fissures are very closely and closely spaced, mainly inclined (60-90 degrees), planar, smooth, very tight and tight, with occasional brown staining. [LONDON CLAY FORMATION, WALTON MEMBER]			
27.00 - 28.50				100	N/A	N/A						
								28	28.10m to 28.11m; with 1 No. black possible pyritised wood fragment (30mm x full core diameter).			
									28.52m to 28.53m; with 1 No. pocket (10mm x 10mm) of fine sand sized pyrite.			
									28.58m to 28.86m; with frequent tubular agglutinated foraminifera (<1mm x 3mm).			
									28.61m to 28.62m; with 1 No. pocket (10mm x 10mm) of fine sand sized pyrite.			
								29	28.95m to 28.97m; with 1 No. pocket (20mm x 20mm) of fine sand sized pyrite.	(3.61)		
28.50 - 30.00				100	N/A	N/A			29.18m to 29.19m; with 1 No. pocket (10mm x 40mm) of fine sand sized pyrite.			
									29.54m to 29.55m; with 1 No. pocket (10mm x 20mm) of fine sand sized pyrite.			
									Continued next page			

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Client	NNB Generation Company (SZC) Limited			**OT_SB_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651081.19 N264112.23	Ground Elevation (m Datum)	-16.60	Sheet 7 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
30.00 - 31.50				100	N/A	N/A			30.13m to 30.16m; with 1 No. pocket (20mm x 40mm) of fine sand sized pyrite.			
										30.86	-47.46	
								31	Very stiff fissured dark grey CLAY with rare burrows (<1mm x 5mm) infilled with light brown silty clay, and rare to locally frequent tubular agglutinated foraminifera (<1mm x 2mm). Micaceous. Fissures are very closely and closely spaced, mainly inclined (70-90 degrees), planar, smooth, very tight and tight, with occasional brown staining or grey gleying. [LONDON CLAY FORMATION, WALTON MEMBER]			
									31.32m to 31.34m; with 1 No. pocket (20mm x 20mm) of fine sand sized oxidised pyrite.			
31.50 - 33.00				100	N/A	N/A		32				
									32.63m to 32.66m; with 1 No. black pyritised possible wood fragment (30mm x full core diameter).	(3.64)		
									32.90m to 32.93m; with occasional pockets (<5mm x 5mm x 5mm) of brown silt.			
								33				
									33.16m to 33.19m; with 2 No. black and gold pyrite nodules (possible pyritised wood fragment) (<30mm x 60mm x 80mm). 33.19m to 33.40m; with frequent tubular agglutinated foraminifera (<1mm x 3mm) and occasional black pyritised wood fragments (<5mm x 30mm).			
33.00 - 34.50				100	N/A	N/A						
								34				
									32.24m to 34.35m; with occasional cylindrical pyrite nodules (possible burrow casts) (<10mm x 20mm).			
										34.50	-51.10	
									Stiff dark brown, locally mottled greenish brown (glauconitic), silty CLAY with closely spaced indistinct laminae of light brown silty fine sand and dark brown silty clay, with occasional pockets/lenses (<5mm x 10mm) of light brown silty fine sand. Micaceous. [HARWICH FORMATION, WRABNESS MEMBER]			

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651081.19 N264112.23	Ground Elevation (m Datum)	-16.60	Sheet 8 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
34.50 - 36.00				100	N/A	N/A			35.30m to 35.50m; indistinctly mottled dark green (glauconitic).			
								36		(3.00)		
36.00 - 37.50				100	N/A	N/A			36.83m to 36.84m; with 1 No. pocket (20mm x 40mm) of fine sand sized pyrite.			
								37				
									Stiff, locally fissured, dark brown, locally brown, silty CLAY with closely to widely spaced, locally very closely spaced, very thin and thin beds of stiff and very stiff grey tuffaceous silty clay and clayey silt, with rare to occasional pockets/lenses (<5mm x 40mm) of light brown fine sandy silt. Micaceous. Fissures are inclined (60-90 degrees), planar, smooth, polished, very tight. [HARWICH FORMATION, WRABNESS MEMBER]	37.50	-54.10	
								38	37.57m to 37.59m; with abundant pockets/burrows (<2mm x 2mm) infilled with brown silty clay. 37.83m to 37.85m; with abundant pockets/burrows (<2mm x 2mm) infilled with brown silty clay.			
37.50 - 39.00				97	N/A	N/A			38.35m to 38.85m; fissured. Fissures are very closely and closely spaced.			
									38.78m to 38.82m; with 1 No. pyrite nodule (10mm x 15mm x 40mm).	(2.74)		
								39	39.00m to 39.13m; with abundant pockets/burrows (<1mm x 1mm) infilled with light brown silty clay.			
									39.32m to 39.40m; with abundant pockets/burrows (<1mm x 1mm) infilled with light brown silty clay.			
39.00 - 40.50				100	N/A	N/A						

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651081.19 N264112.23	Ground Elevation (m Datum)	-16.60	Sheet 9 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									Stiff dark brown, locally dark grey tuffaceous, silty CLAY thinly and medium interbedded with stiff and very stiff dark grey and black tuffaceous silty clay and clayey silt. Micaceous. [HARWICH FORMATION, WRABNESS MEMBER]	40.24	-56.84	
40.50 - 42.00				100	N/A	N/A		41		(1.53)		
									Very stiff fissured dark brown silty CLAY. Micaceous. Fissures are closely and medium spaced, locally extremely closely spaced, randomly orientated, planar, smooth, polished, very tight. [HARWICH FORMATION, WRABNESS MEMBER]	41.77	-58.37	
42.00 - 43.50				100	N/A	N/A		42	42.15m to 42.40m; fissures are extremely closely spaced. 42.60m to 42.70m; fissures are extremely closely spaced.	(1.68)		
								43	43.27m to 43.33m; thin bed of very stiff black tuffaceous clayey silt.			
									Possibly medium strong and strong dark brown, grey and black argillaceous LIMESTONE. Recovered as non intact core (assumed drilling induced) of angular and subangular fragments (<40mm x 60mm x 100mm) with rare randomly orientated orange calcite veins (<10mm), with occasional to frequent possibly soft and firm dark brown silty clay. Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	43.45	-60.05	
										(0.35)		
										43.80	-60.40	
								44		(0.30)		
										44.10	-60.70	
43.50 - 45.00				100	N/A	N/A			Stiff dark brown slightly tuffaceous silty CLAY with medium becoming widely spaced thin and medium beds of stiff and very stiff dark grey and black tuffaceous silty clay and clayey silt, with occasional burrows/pockets (<2mm x 2mm) of light brown silt. Micaceous. [HARWICH FORMATION, WRABNESS MEMBER] 43.80m to 44.00m; possibly firm and stiff (assumed drilling disturbed) and fissured. Fissures are extremely closely spaced, randomly orientated, planar, polished, very tight. At 44.04m; with 1 No. pocket (5mm x 5mm x 5mm) of fine sand sized pyrite.	(0.19)		
										44.29	-60.89	

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651081.19 N264112.23	Ground Elevation (m Datum)	-16.60	Sheet 10 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
45.00 - 46.50				100	N/A	N/A			LIMESTONE. Recovered as 2 No. angular strong dark grey limestone fragments (<50mm x 70mm x 100mm) with dark brown slight tuffaceous silty clay. Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	(2.21)		
									Stiff dark brown slightly tuffaceous silty CLAY with medium becoming widely spaced thin and medium beds of stiff and very stiff dark grey and black tuffaceous silty clay and clayey silt, with occasional burrows/pockets (<2mm x 2mm) of light brown silt. Micaceous. [HARWICH FORMATION, WRABNESS MEMBER]			
								46	At 44.89m; with 1 No. pyrite nodule (5mm x 40mm).			
										46.50	-63.10	
										(0.10)		
									LIMESTONE. Recovered as 1 No. subangular strong dark brown, dark grey and black argillaceous limestone fragment (70mm x 85mm x 100mm). Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	46.60	-63.20	
								47	Stiff dark brown slightly tuffaceous silty CLAY with medium becoming widely spaced thin and medium beds of stiff and very stiff dark grey and black tuffaceous silty clay and clayey silt, with occasional burrows/pockets (<2mm x 2mm) of light brown silt. Micaceous. [HARWICH FORMATION, WRABNESS MEMBER]			
46.50 - 48.00				100	N/A	N/A			46.95m to 48.00m; with widely spaced thin and medium beds of tuffaceous silty clay and clayey silt.	(1.40)		
47.80 - 47.90	D	10										
47.90 - 48.00	C	9										
								48		48.00	-64.60	
									Possibly medium strong and strong dark brown, grey and black argillaceous LIMESTONE. Recovered as non intact core (assumed drilling induced) of angular and subangular limestone fragments (<50mm x 95mm x 100mm) with rare to frequent possibly firm dark brown silty clay. Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	(0.25)		
										48.25	-64.85	
48.00 - 49.50				97	N/A	N/A			Stiff and very stiff dark brown tuffaceous silty CLAY with very closely and closely spaced becoming medium spaced thin beds of stiff and very stiff dark grey and black tuffaceous clayey silt and silty clay. Micaceous.			
								49	[HARWICH FORMATION, WRABNESS MEMBER]			
										(2.87)		
									Continued next page			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651081.19 N264112.23	Ground Elevation (m Datum)	-16.60	Sheet 11 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
49.50 - 51.00				100	N/A	N/A		51				
51.00 - 52.50				97	N/A	N/A		52	Stiff and very stiff dark brown, locally dark greyish brown tuffaceous, silty CLAY, locally slightly sandy silty clay, with very closely and closely spaced indistinct laminae of light brown fine sand, with occasional pockets/lenses (<5mm x 5mm x 5mm) of brown silty fine sand. Micaceous. Sand is fine and medium. Possible Harwich Formation, Wrabness Member/ Orwell Member. [HARWICH FORMATION, ORWELL MEMBER] 51.55m to 51.83m; slightly sandy. 52.10m to 52.45m; dark greyish brown tuffaceous. 52.50m to 53.90m; slightly sandy.	51.12 (2.78)	-67.72	
52.50 - 54.00				100	N/A	N/A		53				
54.00 - 55.50				100	N/A	N/A		54	Very stiff dark brown CLAY with very closely and closely spaced indistinct laminae of light brown fine sand, with occasional pockets/lenses (<5mm x 5mm x 5mm) of brown silty fine sand. Micaceous. Possible Harwich Formation, Wrabness Member/Orwell Member. [HARWICH FORMATION, ORWELL MEMBER]	53.90 (1.60)	-70.50	

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651081.19 N264112.23	Ground Elevation (m Datum)	-16.60	Sheet 12 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
										55.50	-72.10	
									End of Borehole at 55.50 m			
								56				
								57				
								58				
								59				

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SB_05**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E651153.93 N264113.56	Ground Elevation (m Datum)	-16.32	Sheet 1 of 1
Hole Type	Sonic Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	55.00	SD	24/06/2019	27/06/2019	LS600 : Excalibur	Sonic	118mm	TM/PJ/LM	PC/MH/ DM/GDF	

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
24/06/2019	23:30:00	0.00	0.00	
24/06/2019	23:45:00	1.00	1.00	
25/06/2019	00:00:00	1.00	1.00	
25/06/2019	11:45:00	13.00	13.00	
25/06/2019	12:00:00	13.00	13.00	
25/06/2019	23:45:00	16.00	16.00	
26/06/2019	00:00:00	16.00	16.00	
26/06/2019	11:45:00	28.00	28.00	
26/06/2019	12:00:00	28.00	28.00	
26/06/2019	23:45:00	41.50	41.50	
27/06/2019	00:00:00	41.50	41.50	
27/06/2019	08:20:00	55.00	55.00	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
55.00	118	55.00	150

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
0.00	1.00	100
1.00	2.50	100
2.50	4.00	100
4.00	5.50	100
5.50	7.00	100
7.00	8.50	100
8.50	10.00	100
10.00	11.50	100
11.50	13.00	100
13.00	14.50	100
14.50	16.00	100
16.00	17.50	100
17.50	19.00	100
19.00	20.50	100
20.50	22.00	100
22.00	23.50	100
23.50	25.00	100
25.00	26.50	100
26.50	28.00	100
28.00	29.50	100
29.50	31.00	100
31.00	32.50	100
32.50	34.00	100
34.00	35.50	100
35.50	37.00	100
37.00	38.50	100
38.50	40.00	100
40.00	41.50	100
41.50	43.00	100
43.00	44.50	100
44.50	46.00	100
46.00	47.50	100
47.50	49.00	100
49.00	50.50	100
50.50	52.00	100
52.00	53.50	100
53.50	55.00	100

General Remarks

1. Deck to mud was 26.50m; deck level was 10.18m above OD. 2. Between 47.50m and 52.00m; driller noted damaged liner through limestone. 3. Between 49.00m and 50.50m; driller noted chasing limestone down the borehole (split liner, drilled twice).

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	CAY	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 29/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651153.93 N264113.56	Ground Elevation (m Datum)	-16.32	Sheet 1 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 0.50	ES	1							Brownish grey silty SAND. Sand is fine and medium. Possibly reworked. [MARINE DEPOSITS, BANK DEPOSITS]	(0.20)		
0.00 - 0.50	ES	2								0.20	-16.52	
									Greenish grey silty SAND. Sand is fine to coarse. Possibly reworked. [MARINE DEPOSITS, BANK DEPOSITS]	(0.40)		
0.50 - 0.65	ES	3		100	N/A	N/A				0.60	-16.92	
0.00 - 1.00									Dark grey and grey mottled dark greenish grey and greyish green (oxidising to dark yellowish brown) silty SAND. Slightly calcareous and calcareous. Sand is mainly fine and medium. Possibly reworked. [MARINE DEPOSITS, BANK DEPOSITS]	(0.20)		
										0.80	-17.12	
										(0.20)		
1.00 - 1.30	ES	4						1	Yellowish brown and dark yellowish brown silty SAND. Slightly calcareous and calcareous. Sand is mainly fine and medium. Possibly reworked. [MARINE DEPOSITS, BANK DEPOSITS]	1.00	-17.32	
1.00 - 1.30	ES	5								(0.30)		
									Green and dark green, locally black, slightly gravelly SAND. Sand is fine to coarse. Gravel is subangular and subrounded fine and medium of black flint. Possibly reworked. [MARINE DEPOSITS, BANK DEPOSITS]	1.30	-17.62	
										(0.35)		
1.00 - 2.50				93	N/A	N/A			Dark grey and grey mottled dark greenish grey and greyish green (oxidising to dark yellowish brown) slightly gravelly silty SAND, with frequent bivalve shell fragments (<5mm x 5mm x 7mm). Slightly calcareous and calcareous. Sand is mainly fine and medium. Gravel is subrounded mainly medium and coarse of moderately weak dark greenish grey (oxidising to dark yellowish brown) siliceous fine and medium grained sandstone. Possibly reworked. [MARINE DEPOSITS, BANK DEPOSITS]	1.65	-17.97	
2.00 - 2.25	ES	6						2				
2.00 - 2.25	ES	7								(1.22)		
									Dark grey and grey mottled dark greenish grey and greyish green (oxidising to dark yellowish brown) silty SAND locally with some pockets (<15mm x 20mm x 30mm) of soft and firm dark greenish grey (oxidising to dark yellowish brown) fine sandy silt. Slightly calcareous and calcareous becoming slightly calcareous. Sand is mainly fine and medium. Possibly reworked. [MARINE DEPOSITS, BANK DEPOSITS] 1.80m to 2.00m; with some pockets of fine sandy silt. 2.40m to 2.50m; assumed zone of core loss.	2.87	-19.19	
										(0.23)		
								3	Dark grey and grey mottled dark greenish grey and greyish green (oxidising to dark yellowish brown) slightly gravelly and gravelly SAND with abundant bivalve shell fragments (<8mm x 15mm). Slightly calcareous. Sand is fine to coarse. Gravel is subrounded and rounded medium and coarse of flint and yellowish brown chert. Possibly reworked Marine Deposits, Bank Deposits/Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)]	3.10	-19.42	
2.50 - 4.00				67	N/A	N/A				(0.40)		
										3.50	-19.82	
									Grey mottled dark greenish grey (oxidising to dark yellowish brown) silty SAND with rare bivalve shell fragments (<2mm x 2mm). Slightly calcareous. Sand is fine and medium. Possible Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)]	(0.50)		
								4		4.00	-20.32	
									Sand and gravel (Driller's description). ASSUMED ZONE OF CORE LOSS.			
									Dark grey (oxidising to grey) silty SAND, locally with some to frequent bivalve shell fragments (<4mm x 5mm). Slightly calcareous. Sand mainly fine and medium. Moderate organic odour. Possible Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)] 4.57m to 4.85m; with some to frequent bivalve shell fragments (<4mm x 5mm).	(0.85)		
4.00 - 5.50				73	N/A	N/A				4.85	-21.17	
									Grey SAND. Slightly calcareous. Sand is mainly fine and medium. Possible Norwich Crag Formation.	(0.25)		

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651153.93 N264113.56	Ground Elevation (m Datum)	-16.32	Sheet 2 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									[NORWICH CRAG FORMATION (UNDIFFERENTIATED)] 4.85m to 5.10m; grey occasionally mottled dark grey. Sand and gravel (Driller's description). ASSUMED ZONE OF CORE LOSS.	5.10 (0.40)	-21.42	
									Grey and dark grey SAND. Slightly calcareous. Sand is mainly fine and medium. Possible Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)]	5.50 (0.70)	-21.82	
5.50 - 7.00				47	N/A	N/A		6	Silt (Driller's description). ASSUMED ZONE OF CORE LOSS.	6.20 (0.80)	-22.52	
								7	Grey and dark grey SAND. Slightly calcareous. Sand is fine and rarely medium. Possible Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)] 7.10m to 7.20m; slightly gravelly, with rare to occasional pockets (<5mm x 10mm x 10mm) of soft and firm brown clayey silt. Gravel is rounded mainly medium of extremely weak greyish brown calcareous siltstone.	7.00 (0.65)	-23.32	
7.00 - 8.50				43	N/A	N/A		8	Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	7.65 (0.85)	-23.97	
								9	Grey and dark grey SAND. Slightly calcareous. Sand is fine and rarely medium. Possible Norwich Crag Formation. [NORWICH CRAG FORMATION (UNDIFFERENTIATED)]	8.50 (0.74)	-24.82	
9.24 - 10.00 8.50 - 10.00	B	21		90	N/A	N/A			Grey SAND, recovered with abundant subrounded weak and moderately weak (weakly cemented) bioclastic sandstone/calcarenite fragments (<20mm x 35mm x 40mm), with some to frequent shell fragments (mainly bivalves) (<1mm x 2mm). Slightly calcareous and calcareous. Sand is mainly fine and medium. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)] 9.24m to 9.37m; dark grey. 9.85m to 10.00m; assumed zone of core loss.	9.24	-25.56	
10.00 - 11.00	D	12							Continued next page			

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651153.93 N264113.56	Ground Elevation (m Datum)	-16.32	Sheet 3 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
										(1.76)		
10.40 - 10.53	D	14										
10.70 - 10.84 10.00 - 11.50	D	15		67	N/A	N/A						
								11	Sand and gravel (Driller's description). ASSUMED ZONE OF CORE LOSS.	11.00	-27.32	
										(0.50)		
11.50 - 13.00	B	22								11.50	-27.82	
11.50 - 13.00	B	23						12	Grey and dark grey (oxidising to greyish brown), locally weakly cemented, silty SAND, recovered with some to abundant subrounded weak and moderately weak grey (weakly cemented) bioclastic sandstone/calcarenite fragments (<35mm x 40mm x 50mm), with some to frequent shell fragments (mainly bivalves) (<1mm x 2mm). Slightly calcareous and calcareous. Sand is mainly fine and medium. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]			
11.50 - 13.00				100	N/A	N/A						
									12.50m to 13.15m; locally weakly cemented.			
12.80 - 12.90	D	16										
13.00 - 13.15	C	20						13		(3.00)		
13.00 - 14.50				100	N/A	N/A						
14.00 - 14.12	D	17						14	14.00m to 14.50m; locally weakly cemented.			
14.16 - 14.30	D	18										
14.36 - 14.50	D	19							At 14.50m; with 1 No. bivalve shell fragment (2mm x 30mm x 50mm).	14.50	-30.82	
									Brownish grey, locally grey and dark grey, silty SAND with some shell fragments (mainly bivalves) (<1mm x 1mm). Calcareous. Sand is fine and medium. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]			
									14.80m to 15.20m; with possibly very closely and closely spaced subhorizontal indistinct thick laminae of grey and			

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651153.93 N264113.56	Ground Elevation (m Datum)	-16.32	Sheet 4 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									dark grey silty fine and medium sand.	(1.10)		
14.50 - 16.00				73	N/A	N/A						
									Light grey sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	15.60	-31.92	
										(0.40)		
								16	Brownish grey and grey silty SAND, locally recovered with some to abundant subrounded weak and moderately weak (weakly cemented) brownish grey bioclastic sandstone/calcarenite, with some shell fragments (mainly bivalves) (<1mm x 2mm 3mm, locally <1mm x 8mm x 28mm). Calcareous. Sand is fine and medium. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	16.00	-32.32	
16.10 - 16.50	D	13										
16.00 - 17.50				100	N/A	N/A			16.75m to 17.05m; weakly cemented, recovered with abundant bioclastic sandstone/calcarenite fragments (<20mm x 35mm x 35mm).			
								17		(2.70)		
								18				
17.50 - 19.00				80	N/A	N/A			18.10m to 18.20m; recovered with some bioclastic sandstone/calcarenite fragments (<20mm x 25mm x 25mm).			
									18.50m to 18.70m; shell fragments (<1mm x 8mm x 28mm) are dark grey and black.			
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	18.70	-35.02	
										(0.30)		
								19	Brownish grey and grey silty SAND, with some to frequent, locally abundant, shell fragments (mainly bivalves) (<1mm x 5mm x 8mm). Calcareous. Sand is mainly fine and medium. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	19.00	-35.32	
									19.00m to 19.30m; with abundant shell fragments.	(1.05)		
19.00 - 20.50				70	N/A	N/A						
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651153.93 N264113.56	Ground Elevation (m Datum)	-16.32	Sheet 5 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	20.05 (0.45)	-36.37	
20.50 - 22.00				93	N/A	N/A		21	Dark grey and grey, locally brownish grey, silty SAND with frequent shell fragments (mainly bivalves) (<1mm x 5mm x 8mm). Calcareous. Sandstone is mainly fine and medium. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)] 21.47m to 21.75m; brownish grey. 21.90m to 22.00m; assumed zone of core loss.	20.50 (1.80)	-36.82	
22.00 - 23.50				100	N/A	N/A		22	Dark grey silty SAND with frequent shell fragments (mainly bivalves) (<1mm x 8mm x 10mm). Calcareous. Sand is fine and medium. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	22.30 (0.50)	-38.62	
								23	Grey and greenish grey slightly gravelly very silty SAND with some bivalve shells (<3mm x 25mm x 25mm) and shell fragments (<8mm x 10mm x 20mm). Calcareous. Sand is fine and medium. Gravel is subangular to rarely rounded fine and medium of slightly weathered slightly calcareous and calcareous, possibly argillaceous, dark reddish brown limestone pebbles, with dark brownish grey and dark grey coating. [CORALLINE CRAG FORMATION, RAMSHOLT MEMBER]	22.80 (0.70)	-39.12	
23.50 - 25.00				100	N/A	N/A		24	Dark greenish grey and dark grey (slightly glauconitic and glauconitic) very sandy very silty GRAVEL. Calcareous. Sand is fine and medium. Gravel is mainly rounded and well rounded, locally elongated, mainly medium and coarse of slightly weathered dark reddish brown argillaceous limestone and calcareous claystone pebbles with dark brownish grey and dark grey and dark grey coating, and rare slightly weathered chert/flint. [CORALLINE CRAG FORMATION, RAMSHOLT MEMBER] At 23.50m; with abundant bivalve shell fragments (<4mm x 30mm x 30mm), and 1 No. subangular and subrounded concretion/nodule (40mm x 50mm x 65mm) of slightly weathered pyrite. Firm dark greenish grey (slightly glauconitic and glauconitic) very gravelly CLAY. Gravel is mainly rounded and well rounded, locally elongated, medium and coarse of slightly weathered dark reddish brown argillaceous limestone, calcareous claystone with dark brownish grey and dark grey coating, and rare slightly	23.50 (0.45) 23.95 (0.25) 24.20	-39.82 -40.27 -40.52	
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651153.93 N264113.56	Ground Elevation (m Datum)	-16.32	Sheet 6 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									weathered chert/flint. Reworked London Clay Formation. [LONDON CLAY FORMATION]	(1.70)		
25.00 - 26.50				100	N/A	N/A			Stiff and very stiff fissured dark greyish brown mottled brown silty CLAY with frequent to abundant burrows (<2mm x 25mm) infilled with dark greenish grey silty clay, rare to occasional remnants/streaks of agglutinated foraminifera (<1mm x 2mm). Fissures are extremely closely and very closely spaced, randomly orientated, planar, smooth, tight, with brown and dark brown staining. [LONDON CLAY FORMATION, WALTON MEMBER]			
										25.90	-42.22	
								26	Very stiff fissured dark brownish grey mottled brown slightly sandy CLAY with frequent to abundant burrows (<3mm x 50mm) infilled with grey silty clay, occasional to some remnants/streaks of agglutinated foraminifera (<1mm x 2mm), and occasional to some subangular and subrounded pyrite concretions/nodules (<20mm x 35mm). Sand is fine to coarse. Fissures are extremely closely to closely spaced, mainly inclined (0-45 degrees), planar, smooth, rarely polished, tight, with brown and dark brown staining. [LONDON CLAY FORMATION, WALTON MEMBER]			
27.00 - 27.60	B	24						27	27.00m to 27.60m; with rare gravel. Gravel is fine.			
26.50 - 28.00				100	N/A	N/A				(3.60)		
									27.80m to 28.00m; with possibly extremely closely and very closely spaced subhorizontal indistinct thin laminae of light brownish grey and greyish brown silty fine sand, locally with rare lignite fragments (<4mm x 4mm).			
28.00 - 28.06	D	8						28				
28.06 - 28.13	D	10										
28.00 - 29.50				100	N/A	N/A						
								29				
										29.50	-45.82	
									Very stiff indistinctly fissured dark brownish grey mottled brown CLAY with abundant agglutinated foraminifera (<1mm x 15mm), frequent burrows (<1mm x 25mm) infilled with grey silty clay, occasional to some subangular and subrounded pyrite concretions/ nodules (<10mm x 20mm), locally with frequent pockets/lenses (<5mm x 40mm) of light brownish grey			
29.90 - 30.00	D	11										
30.00 - 30.05	D	9										

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651153.93 N264113.56	Ground Elevation (m Datum)	-16.32	Sheet 7 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
29.50 - 31.00				100	N/A	N/A			and greyish brown silty fine sand. Fissures are indistinct, possibly very closely and closely spaced, randomly orientated, planar, smooth, tight, with brown and dark brown staining. [LONDON CLAY FORMATION, WALTON MEMBER] 29.50m to 29.60m; with frequent pockets/lenses of silty fine sand. Locally micaceous.	(1.50)		
31.00 - 32.50				100	N/A	N/A		31	Very stiff indistinctly fissured, locally fissured, dark brownish grey mottled brown silty CLAY with frequent burrows (<2mm x 20mm) infilled with grey silty clay, some to frequent subangular and subrounded, occasionally elongated, pyrite concretions/nodules (<40mm x 70mm), and some agglutinated foraminifera (<1mm x 5mm). Fissures are possibly very closely and closely spaced, randomly orientated, planar, smooth, occasionally polished, tight, with brown and dark brown staining. [LONDON CLAY FORMATION, WALTON MEMBER]	31.00	-47.32	
32.50 - 34.00				100	N/A	N/A		32	32.50m to 33.20m; fissured. Fissures are very closely and closely spaced, inclined (30-70 degrees) and rarely subvertical, planar, smooth, tight, with brown and dark brown staining.	(2.65)		
34.00 - 35.50				100	N/A	N/A		33	Very stiff indistinctly fissured dark brownish grey mottled brown becoming dark greyish brown silty CLAY with frequent burrows (<1mm x 35mm) infilled with grey silty clay, frequent pockets/lenses (<15mm x 40mm) of light brownish grey and greyish brown silty fine sand, and some agglutinated foraminifera (<1mm x 5mm). Micaceous. Possible London Clay Formation, Walton Member/Harwich Formation, Wrabness Member. [LONDON CLAY FORMATION, WALTON MEMBER] At 33.65m; possibly glauconitic.	33.65	-49.97	
								34	Stiff and very stiff indistinctly fissured dark greyish brown, locally mottled brown, slightly sandy silty CLAY becoming silty clay, locally sandy silty clay, with frequent pockets/lenses (<20mm x 35mm) of light brownish grey and greyish brown silty fine sand, some burrows (<3mm x 35mm) infilled with dark grey silty clay, and occasional subrounded elongated pyrite concretions/nodules (<25mm x 30mm). Micaceous.	(0.35) 34.00	-50.32	

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651153.93 N264113.56	Ground Elevation (m Datum)	-16.32	Sheet 8 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									Sand is fine and rarely medium. [HARWICH FORMATION, WRABNESS MEMBER] 34.72m to 35.03m; glauconitic. 35.03m to 36.15m; sandy silty clay.	(3.00)		
35.50 - 37.00				100	N/A	N/A		36	36.15m to 36.85m; silty clay. 36.85m to 37.00m; sandy silty clay.			
37.00 - 38.50				100	N/A	N/A		37	Stiff and very stiff indistinctly fissured dark greyish brown silty CLAY, locally slightly sandy and sandy silty clay, with closely to widely spaced very thin and thin beds of stiff dark grey and black tuffaceous silty clay, with some to frequent pockets/lenses (<20mm x 35mm) of light greyish brown and light brown silty fine sand, some burrows (<2mm x 25mm) infilled with dark grey and grey silty clay, and some subrounded, rarely elongated and flat, pyrite concretions/nodules (<20mm x 50mm). Micaceous. Sand is fine and rarely medium. [HARWICH FORMATION, WRABNESS MEMBER] 37.55m to 37.73m; slightly sandy and sandy.	37.00	-53.32	
38.50 - 40.00				100	N/A	N/A		38				
								39	39.00m to 39.11m; sandy silty clay. 39.40m to 39.62m; with possibly extremely closely and very closely spaced indistinct thin and thick laminae of light greyish brown and light brown silty fine sand. At 39.45m; with frequent possible lignite fragments (<5mm x 5mm) and 1 No. flat pyrite concretion (8mm x 45mm x 75mm). 39.93m to 40.00m; with 1 No. vertical fissure, planar,	(6.00)		

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651153.93 N264113.56	Ground Elevation (m Datum)	-16.32	Sheet 9 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
40.00 - 41.50				100	N/A	N/A			smooth, polished, possibly very tight. 40.00m to 40.05m; with 1 No. possibly subvertical indistinct fissure, planar, smooth, polished, possibly very tight.			
41.50 - 43.00				100	N/A	N/A		41 42	42.27m to 42.50m; with 1 No. inclined (60-75 degrees), fissure, planar, smooth, tight, with dark brown staining.			
43.00 - 44.50				80	N/A	N/A		43 44	LIMESTONE. Recovered as non intact core (assumed drilling induced) of soft and firm becoming stiff dark greyish brown silty clay with abundant angular and subangular medium strong brownish grey and dark grey slightly weathered limestone fragments (<20mm x 40mm x 50mm). Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	43.00 (0.50)	-59.32	
									Very stiff indistinctly fissured dark greyish brown silty CLAY with some to frequent burrows (<1mm x 8mm) infilled with dark grey and grey silty clay. [HARWICH FORMATION, WRABNESS MEMBER] At 43.80m; with 1 No. subrounded elongated pyrite concretion (5mm x 10mm). 44.05m to 44.09m; very thin bed of dark grey and black tuffaceous silty clay.	43.50 (0.70)	-59.82	
									Clay (Driller's description). ASSUMED ZONE OF CORE LOSS.	44.20 (0.30)	-60.52	
									Very stiff dark greyish brown silty CLAY, locally slightly sandy silty clay, with very closely to widely spaced inclined (0-15 degrees) very thin and thin beds of very stiff/extremely weak dark grey and black tuffaceous silty clay/claystone. Sand is fine and rarely medium. [HARWICH FORMATION, WRABNESS MEMBER] 44.50m to 44.90m; recovered as soft and firm (possibly	44.50	-60.82	

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651153.93 N264113.56	Ground Elevation (m Datum)	-16.32	Sheet 10 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
44.50 - 46.00				100	N/A	N/A			drilling disturbed). 44.90m to 45.40m; recovered as firm and stiff (possibly drilling disturbed). 45.40m to 45.48m; with 1 No. subangular and subrounded medium strong dark grey and grey limestone fragment (65mm x 80mm x 95mm) (possibly drilling fragmented). 45.48m to 46.75m; slightly sandy.			
								46		(3.33)		
46.00 - 47.50				100	N/A	N/A			46.23m to 46.31m; with 1 No. subangular and subrounded medium strong dark grey and grey limestone fragment (50mm x 80mm x 100mm) (possibly drilling fragmented).			
								47	47.16m to 47.50m; with extremely closely to closely spaced indistinct thin laminae of light greyish brown and light brown silty fine sand. At 47.36m; with 1 No. pyrite concretion/nodule (10mm x 10mm).			
										47.83	-64.15	
								48	Medium strong brownish grey and dark grey LIMESTONE. Possibly slightly weathered. Recovered as non intact core (assumed drilling induced) of angular and subangular fragments (<50mm x 95mm x 95mm). Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	(0.22)		
47.50 - 49.00				37	N/A	N/A				48.05	-64.37	
									Limestone/clay (Driller's description). ASSUMED ZONE OF CORE LOSS/NO RECOVERY.			
								49		(2.45)		
49.00 - 50.50				0	N/A	N/A						
									Continued next page			

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651153.93 N264113.56	Ground Elevation (m Datum)	-16.32	Sheet 11 of 12	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
										50.50	-66.82	
50.50 - 52.00				40	N/A	N/A		51	LIMESTONE. Recovered as non intact core (assumed drilling induced) of soft and firm dark greyish brown silty clay with some to frequent angular and subangular medium strong brownish grey and dark grey slightly weathered limestone fragments (<40mm x 90mm x 95mm). Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	(0.60)		
									Limestone/clay (Driller's description). ASSUMED ZONE OF CORE LOSS.	51.10	-67.42	
										(0.90)		
52.00 - 53.50				100	N/A	N/A		52	LIMESTONE. Recovered as non intact core (assumed drilling induced) of soft and firm dark greyish brown silty clay with some to frequent angular and subangular medium strong brownish grey and dark grey slightly weathered limestone fragments (<40mm x 90mm x 95mm). Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	52.00	-68.32	
										(0.26)		
										52.26	-68.58	
										(0.42)		
									Stiff and very stiff dark greyish brown slightly sandy silty CLAY. Sand is fine and rarely medium. [HARWICH FORMATION, WRABNESS MEMBER]	52.68	-69.00	
									52.34m to 52.52m; indistinct possible thin bed of firm and stiff dark greenish grey and bluish grey tuffaceous clayey silt.			
								53	52.58m to 52.68m; indistinct possible thin bed of firm and stiff dark greenish grey and bluish grey tuffaceous clayey silt.	(0.47)		
										53.15	-69.47	
									Stiff and very stiff dark greyish brown and light brown, locally mottled greenish grey (slightly glauconitic), slightly sandy clayey SILT with abundant pockets/ lenses (<25mm x 50mm) of brown and light brown very silty fine sand, and some burrows (<5mm x 25mm) infilled with grey fine sandy silt. Sand is fine and rarely medium. Possible Harwich Formation, Wrabness Member/Orwell Member. [HARWICH FORMATION, ORWELL MEMBER]	(0.35)		
									52.68m to 52.78m; mottled greenish grey (slightly glauconitic).	53.50	-69.82	
53.50 - 55.00				100	N/A	N/A		54	Very stiff indistinctly fissured dark greyish brown silty CLAY with possibly extremely closely and very closely spaced indistinct thin laminae of light greyish brown and light brown silty fine sand, with some burrows (<2mm x 10mm) infilled with grey silty clay. Possible Harwich Formation, Wrabness Member/Orwell Member. [HARWICH FORMATION, ORWELL MEMBER]	(1.50)		
									Very stiff, locally fissured, dark greyish brown silty CLAY. Fissures are closely spaced, inclined (5-60 degrees), planar, smooth, polished and striated (possibly sheared), very tight. Possible Harwich Formation, Wrabness Member/Orwell Member. [HARWICH FORMATION, ORWELL MEMBER]			
									53.80m to 53.90m; with 1 No. inclined (50 degrees) fissure.			
										55.00	-71.32	

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SB_05**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E651153.93 N264113.56	Ground Elevation (m Datum)	-16.32	Sheet 12 of 12
Hole Type	Sonic Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									53.98m; 54.00m; thick lamina of firm and stiff dark grey and black tuffaceous silty clay. 54.48m to 55.00m; with extremely closely and very closely spaced indistinct thin laminae of light greyish brown and light brown silty fine sand. At 54.83m; with 1 No. flat pyrite concretion (5mm x 35mm). 54.95m to 55.00m with 1 No. inclined (60 degrees) fissure. End of Borehole at 55.00 m			
								56				
								57				
								58				
								59				

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SB_06**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E651238.39 N264106.14	Ground Elevation (m Datum)	-17.39	Sheet 1 of 1
Hole Type	Sonic Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	54.50	SD	28/06/2019	30/06/2019	LS600 : Excalibur	Sonic	118mm	TM/LM	PC/DM/RL	

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
28/06/2019	16:10:00	0.00	0.00	
28/06/2019	23:45:00	14.00	14.00	
29/06/2019	00:10:00	14.00	14.00	
29/06/2019	11:45:00	41.00	41.00	
29/06/2019	12:00:00	41.00	41.00	
29/06/2019	23:45:00	51.50	51.50	
30/06/2019	00:00:00	51.50	51.50	
30/06/2019	06:00:00	54.50	54.50	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
54.50	118	54.50	150

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
0.00	0.50	100
0.50	2.00	100
2.00	3.50	100
3.50	5.00	100
5.00	6.50	100
6.50	8.00	100
8.00	9.50	100
9.50	11.00	100
11.00	12.50	100
12.50	14.00	100
14.00	15.50	100
15.50	17.00	100
17.00	18.50	100
18.50	20.00	100
20.00	21.50	100
21.50	23.00	100
23.00	24.50	100
24.50	26.00	100
26.00	27.50	100
27.50	29.00	100
29.00	30.50	100
30.50	32.00	100
32.00	33.50	100
33.50	35.00	100
35.00	36.50	100
36.50	38.00	100
38.00	39.50	100
39.50	41.00	100
41.00	42.50	100
42.50	44.00	100
44.00	45.50	100
45.50	47.00	100
47.00	48.50	100
48.50	50.00	100
50.00	51.50	100
51.50	53.00	100
53.00	54.50	100

General Remarks

1. Deck to mud was 26.60m; deck level was 9.21m above OD. 2. Point load tests cannot be performed at scheduled depths between 18.00m and 24.00m due to unsuitable material.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	CAY	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 29/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651238.39 N264106.14	Ground Elevation (m Datum)	-17.39	Sheet 1 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.10 - 0.15	ES	1							Very soft dark grey organic silty CLAY with occasional shell fragments (<1mm x 4mm x 5mm). [MARINE DEPOSITS, BANK DEPOSITS]	(0.15)		
										0.15	-17.54	
0.00 - 0.50				100	N/A	N/A			Orangish brown and greyish brown slightly silty SAND with frequent to abundant shell fragments (<5mm). Calcareous. Sand is mainly medium and coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]			
									0.15m to 0.42m; yellowish brown slightly gravelly sand, recovered with occasional angular to subrounded calcarenite fragments (<20mm). Slightly calcareous and calcareous. Sand is fine to coarse. Gravel is angular to subrounded fine and medium of quartz. Possibly reworked.	(0.85)		
								1		1.00	-18.39	
0.50 - 2.00				73	N/A	N/A			Orangish brown SAND with rare to occasional angular and subangular calcarenite fragments (<20mm x 30mm x 30mm), with frequent to abundant shell fragments (<3mm x 3mm), and frequent coral and bryozoan fragments (<2mm x 5mm). Calcareous. Sand is mainly medium and coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	(0.60)		
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	1.60	-18.99	
										(0.40)		
								2		2.00	-19.39	
2.41 - 2.53	D	3							Orangish brown, dark orangish brown and greyish brown slightly cemented slightly silty SAND, recovered with rare to locally frequent angular and subangular calcarenite fragments (<60mm x 80mm x 80mm), with frequent to abundant shell fragments (<5mm x 10mm), and occasional to frequent coral and bryozoan fragments (<5mm x 20mm). Calcareous. Sand is mainly medium and coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	(1.10)		
2.00 - 3.50				73	N/A	N/A			2.40m to 2.67m; recovered with frequent subangular calcarenite fragments.			
								3				
									3.03m to 3.10m; orangish brown and greyish brown very silty sand with rare to occasional shell fragments (<2mm x 2mm). Sand is fine to coarse.	3.10	-20.49	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.40)		
										3.50	-20.89	
									Greyish brown (oxidising to yellowish brown) becoming orangish brown slightly cemented slightly silty SAND, recovered with occasional angular and subangular calcarenite fragments (<10mm x 20mm x 20mm), with occasional to frequent shell fragments (<2mm x 2mm), and occasional pockets (<10mm x 20mm) of dark grey and black very silty fine and medium sand. Calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	(0.30)		
								4		3.80	-21.19	
3.50 - 5.00				67	N/A	N/A			Dark grey becoming grey and light grey slightly silty becoming silty SAND with occasional shell fragments (<2mm x 2mm). Calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	(0.70)		
									4.00m to 4.10m; recovered with occasional subangular calcarenite fragments (<20mm x 30mm x 50mm). 4.00m to 4.42m; grey. 4.42m to 4.50m; light grey and silty.	4.50	-21.89	
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.50)		
										5.00	-22.39	
									Continued next page			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651238.39 N264106.14	Ground Elevation (m Datum)	-17.39	Sheet 2 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
5.38 - 5.44	D	4							Light brownish grey, locally creamish grey, slightly cemented silty SAND, recovered with occasional to locally frequent angular and subangular calcarenite fragments (<40mm x 40mm x 60mm), with frequent to abundant shell fragments (<5mm x 10mm). Calcareous. Sand is mainly medium and coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]			
									5.36m to 5.44m; recovered with frequent calcarenite fragments.	(1.25)		
5.00 - 6.50				83	N/A	N/A						
								6	5.85m to 5.95m; creamish grey, with abundant shell and bryozoan fragments (<10mm x 20mm).			
									6.10m to 6.15m; with 2 No. bivalve shells (<2mm x 30mm x 30mm).			
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	6.25 (0.25)	-23.64	
									Light brownish grey slightly cemented slightly silty SAND, recovered with occasional angular and subangular calcarenite fragments (<40mm x 40mm x 60mm), with occasional to frequent shell fragments (<5mm x 5mm). Calcareous. Sand is mainly medium and coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	6.50 (0.60)	-23.89	
								7				
6.50 - 8.00				40	N/A	N/A			Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	7.10 (0.90)	-24.49	
								8	Light brownish grey slightly cemented silty SAND, recovered with rare to some angular and subangular calcarenite fragments (<30mm x 50mm x 50mm), with occasional to frequent shell fragments (<5mm x 5mm). Calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	8.00	-25.39	
8.50 - 9.65	B	7										
8.00 - 9.50				100	N/A	N/A						
								9				
9.45 - 9.48	D	8							At 9.45m; with 1 No. Pecton (bivalve) shell fragment (<1mm x 35mm x 45mm).	(3.00)		
9.65 - 10.20	B	6										
									Continued next page			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651238.39 N264106.14	Ground Elevation (m Datum)	-17.39	Sheet 3 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
10.20 - 10.50 9.50 - 11.00	D	5		100	N/A	N/A						
								11	Light brownish grey, locally grey, SAND, locally silty sand, with occasional shell fragments (<2mm x 2mm). Calcareous. Sand is mainly medium and coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	11.00	-28.39	
									11.36m to 11.37m; thick lamina of very soft grey and dark grey clay.	(1.00)		
11.00 - 12.50				67	N/A	N/A			11.70m to 11.84m; grey and silty.			
								12	Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	12.00	-29.39	
										(0.50)		
									Light brownish grey, locally light brown, becoming mottled dark grey SAND, locally slightly silty sand, with occasional shell fragments (<2mm x 2mm), and rare pockets/lenses (<5mm x 20mm) of light brown fine and medium sandy silt. Calcareous. Sand is mainly medium and coarse.	12.50	-29.89	
								13	[CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	(1.20)		
12.50 - 14.00				80	N/A	N/A			13.20m to 13.40m; light brown and slightly silty.			
									13.40m to 13.70m; mottled dark grey.			
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	13.70	-31.09	
										(0.30)		
								14	Light brownish grey slightly cemented slightly silty SAND, recovered with occasional angular and subangular calcarenite fragments (<30mm x 50mm x 50mm), with occasional shell fragments (<5mm x 5mm). Calcareous. Sand is mainly medium and coarse.	14.00	-31.39	
14.42 - 14.64	D	15							[CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	(1.20)		
14.00 - 15.50				80	N/A	N/A						

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Coordinates (m)	E651238.39 N264106.14	Ground Elevation (m Datum)	-17.39	Sheet 4 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	15.20 (0.30)	-32.59	
									Light brownish grey slightly silty SAND with occasional to frequent shell fragments (<5mm x 5mm). Calcareous. Sand is mainly medium and coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	15.50	-32.89	
								16		(0.92)		
15.50 - 17.00				100	N/A	N/A			16.41m to 16.42m; thick lamina of very soft light brown clay.	16.42	-33.81	
									Brownish grey slightly silty SAND with rare shell fragments (<2mm x 2mm) and rare bivalve shell fragments (possibly Pectin) (<1mm x 20mm x 20mm). Calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]			
								17				
17.00 - 18.50				100	N/A	N/A			17.74m to 17.77m; very thin bed of dark grey and black silty sand.	(2.68)		
									17.91m to 17.93m; very thin bed of dark grey and black silty sand.			
								18				
									18.90m to 19.10m; with rare pockets (<5mm x 5mm) of very soft grey clay.			
								19	18.95m to 19.00m; very thin bed of dark grey and black silty sand.	19.10	-36.49	
18.50 - 20.00				100	N/A	N/A			Dark greenish grey silty SAND with rare shell fragments (<1mm x 5mm), and rare pockets/lenses (<10mm x 10mm) of very soft grey clay. Calcareous. Sand is fine to coarse. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
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Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651238.39 N264106.14	Ground Elevation (m Datum)	-17.39	Sheet 5 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
20.50 - 21.00	D	12								(2.40)		
20.00 - 21.50				100	N/A	N/A						
21.00 - 21.50	B	11						21				
21.50 - 22.30	B	10							Dark greenish grey gravelly silty SAND with occasional becoming frequent to abundant bivalve shells (<15mm x 30mm x 30mm) and shell fragments (possible Pecten and Cardites ampla becoming mainly Laevastarte bipartita) (<3mm x 5mm x 5mm). Calcareous. Sand is fine to coarse. Gravel is subangular and subrounded, occasionally cylindrical, fine to coarse of dark brown pebbles. Possible Coralline Crag Formation, Ramsholt Member. [CORALLINE CRAG FORMATION, RAMSHOLT MEMBER]	21.50	-38.89	
21.50 - 23.00				100	N/A	N/A		22		(1.50)		
22.30 - 22.90	B	9							22.87m to 23.00m; with rare shells (mainly possible Laevastarte bipartita).			
								23	Firm becoming stiff fissured dark grey mottled/gleyed grey CLAY. Micaceous. Fissures are extremely closely spaced, randomly orientated, planar, polished, tight, with slight brown staining. [LONDON CLAY FORMATION, WALTON MEMBER]	23.00	-40.39	
									23.00m to 23.05m; with rare pockets (<10mm x 20mm) of greenish grey fine to coarse sand and 1 No. subrounded dark brown medium gravel pebble of possible siltstone. Possibly reworked. 23.03m to 23.23m; stiff.	(0.23)		
										23.23	-40.62	
23.00 - 24.50				100	N/A	N/A			Stiff fissured brown becoming dark brown CLAY with occasional burrows (<1mm x 3mm) infilled with brown silty clay. Micaceous. Fissures are extremely closely and very closely spaced, randomly orientated, planar, smooth, polished, very tight and tight, with occasional slight brown staining. [LONDON CLAY FORMATION, WALTON MEMBER]	(0.79)		
								24	23.45m to 24.02m; dark brown.	24.02	-41.41	
									Stiff and very stiff fissured dark brown CLAY with occasional burrows (<1mm x 3mm) infilled with grey silty clay, and rare to occasional, locally frequent, tubular agglutinated foraminifera (1mm x 1mm). Micaceous. Fissures are very closely and closely spaced, randomly orientated, planar, smooth, polished, very tight and tight, with occasional slight brown staining. [LONDON CLAY FORMATION, WALTON MEMBER]			
									At 24.16m; with 1 No. black pyritised possible wood fragment (5mm x 10mm x 50mm).	(1.93)		

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
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Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
24.50 - 26.00				100	N/A	N/A			25.35m to 25.95m; with occasional very closely spaced thin and thick laminae with abundant tubular agglutinated foraminifera (<1mm x 3mm).			
								26	Stiff and very stiff fissured dark brown CLAY with occasional burrows (<1mm x 3mm) infilled with brown silt, and rare tubular agglutinated foraminifera (<1mm x 1mm). Micaceous. Fissures are closely and medium spaced, mainly inclined (0-15 degrees and 40-60 degrees), planar, smooth, polished, very tight. [LONDON CLAY FORMATION, WALTON MEMBER]	25.95	-43.34	
26.00 - 27.50				100	N/A	N/A			26.85m to 26.88m; with 1 No. pocket (<20mm x 30mm) of fine sand sized pyrite.			
								27		(2.75)		
								28				
27.50 - 29.00				100	N/A	N/A						
										28.70	-46.09	
								29	Stiff and very stiff fissured dark greyish brown becoming dark greenish grey (glauconitic) CLAY with rare to occasional burrows (<2mm x 10mm) infilled with brown silt, and rare tubular agglutinated foraminifera (<1mm x 1mm). Micaceous. Fissures are closely and medium spaced, randomly orientated, planar, smooth, polished, very tight. [LONDON CLAY FORMATION, WALTON MEMBER] 28.93m to 28.96m; with 1 No. pyrite nodule (30mm x 40mm). 29.20m to 29.35m; dark greenish grey (glauconitic).	(0.65)		
									Stiff and very stiff dark brown CLAY with rare to occasional burrows (<2mm x 10mm) infilled with brown silt. Micaceous. [LONDON CLAY FORMATION, WALTON MEMBER] At 29.68m; with 1 No. pocket (10mm x 30mm) of fine sand sized pyrite.	29.35	-46.74	
29.00 - 30.50				100	N/A	N/A				(0.65)		
									Continued next page	30.00	-47.39	

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Coordinates (m)	E651238.39 N264106.14	Ground Elevation (m Datum)	-17.39	Sheet 7 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									29.97m to 29.99m; with 1 No. pocket (20mm x 40mm) of fine sand sized pyrite.			
									Stiff and very stiff fissured dark brownish grey CLAY with rare to occasional burrows/lenses (<2mm x 10mm) of brown silt, and rare becoming occasional, locally frequent, tubular agglutinated foraminifera (<1mm x 4mm). Micaceous. Fissures are closely and medium spaced, locally extremely closely spaced, inclined (0-15 degrees and 40-60 degrees), planar, smooth, polished, very tight. [LONDON CLAY FORMATION, WALTON MEMBER]			
									30.19m to 30.21m; with 1 No. pocket (20mm x 40mm) of fine sand sized pyrite.			
								31	30.93m to 30.96m; with frequent extremely closely spaced thin laminae of brown fine sandy silt.			
30.50 - 32.00				100	N/A	N/A						
									At 31.68m; with 1 No. possible pyritised infilled burrow (10mm x 20mm). 31.75m to 31.77m; with 1 No. pyritised infilled burrow (5mm x 30mm). 31.85m to 31.95m; fissures are extremely closely spaced, inclined (50 degrees).	(3.82)		
								32				
									32.55m to 32.65m; with frequent pockets/lenses (<5mm x 10mm) of brown fine sandy silt.			
32.00 - 33.50				100	N/A	N/A			32.70m to 33.90m; with occasional to frequent foraminifera.			
33.00 - 33.05	D	13						33				
33.50 - 33.55	D	1							33.47m to 33.50m; with frequent pockets/lenses (5mm x 5mm) of brown fine silty sand. 33.50m to 33.90m; dark brownish grey mottled dark brown.			
									33.73m to 33.90m; inclined (65-70 degrees) boundary. 37.73m to 33.90m; with 2 No. inclined (65-70 degrees) fissures, planar, polished, very tight.	33.82	-51.21	
								34	Stiff and very stiff dark brown, locally dark greenish brown (glauconitic), silty CLAY with frequent, locally abundant, lenses and indistinct pockets (<10mm x 30mm) of brown fine sandy silt and light brown silty fine sand. Micaceous. [HARWICH FORMATION, WRABNESS MEMBER]			
33.50 - 35.00				100	N/A	N/A						
									34.53m to 34.56m; with occasional black and gold possible pyritised wood fragments (<5mm x 10mm).			
									Continued next page			

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Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E651238.39 N264106.14	Ground Elevation (m Datum)	-17.39	Sheet 8 of 11
Hole Type	Sonic Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
35.00 - 36.50				100	N/A	N/A			35.34m to 35.44m; dark greenish brown (glauconitic). 35.58m to 35.68m; with frequent black and gold possible pyritised wood fragments (<10mm x 10mm), and abundant pockets (<5mm x 10mm) of light brown silty fine sand.	(4.35)		
								36				
36.50 - 38.00				100	N/A	N/A			At 36.14m; with 1 No. pyrite nodule (possible infilled burrow) (10mm x 40mm). 36.25m to 36.42m; indistinctly fissured. Fissures are extremely closely spaced, randomly orientated, planar, polished, very tight. 36.50m to 36.53m; very thin bed of very stiff dark grey pyritic clayey silt.			
								37				
									At 37.14m; with 1 No. marcasite nodule (5mm x 20mm). 37.58m to 37.68m; with 1 No. subvertical fissure, planar, smooth, very tight.			
								38				
38.00 - 39.50				93	N/A	N/A			Very stiff, locally fissured, dark brown silty CLAY with medium becoming widely spaced thin beds of grey and black tuffaceous silty clay and clayey silt, with occasional lenses and indistinct pockets (<10mm x 30mm) of brown fine sandy silt. Micaceous. Fissures are locally indistinct, extremely closely and very closely spaced, randomly orientated, planar, smooth, polished, very tight. [HARWICH FORMATION, WRABNESS MEMBER]	38.17	-55.56	
									38.58m to 38.70m; indistinctly fissured. 38.77m to 38.80m; with 1 No. pyrite nodule (possible infilled burrow) (5mm x 30mm).			
								39	38.98m to 39.00m; very thin bed of weak black tuffaceous mudstone with 1 No. inclined (15 degrees) fissure. 39.40m to 39.50m; assumed zone of core loss. 39.60m to 39.80m; indistinctly fissured. 39.75m to 41.05m; with widely spaced thin beds of dark grey and black tuffaceous silty clay and clayey silt.	(2.88)		

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Coordinates (m)	E651238.39 N264106.14	Ground Elevation (m Datum)	-17.39	Sheet 9 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
39.50 - 41.00				100	N/A	N/A			40.05m to 40.55m; fissured.			
								41	Possibly medium strong dark grey and black tuffaceous LIMESTONE. Recovered as non intact core (assumed drilling induced) of angular and subangular fragments (<20mm x 20mm) with frequent firm dark grey and brown silty clay. Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	41.05 (0.18) 41.23	-58.44 -58.62	
41.00 - 42.50				100	N/A	N/A		42	Very stiff dark brown, locally dark greenish brown (glauconitic), silty CLAY with medium and widely spaced becoming closely spaced very thin and thin beds of dark grey and black tuffaceous clayey silt and silty clay, with occasional lenses and indistinct pockets (<10mm x 30mm) of brown silt, and rare pockets/ burrows (<5mm x 5mm) infilled with brown silt. Micaceous becoming tuffaceous. [HARWICH FORMATION, WRABNESS MEMBER]			
42.40 - 42.50	D	14										
42.50 - 42.56	D	2										
42.50 - 44.00				100	N/A	N/A		43	43.35m to 43.40m; dark greenish brown (glauconitic).	(4.74)		
									43.63m to 43.70m; with 1 No. inclined (20 degrees) fissure, undulating, polished and striated, very tight.			
								44	44.10m to 45.97m; tuffaceous. 44.15m to 44.20m; indistinctly fissured. Fissures are extremely closely spaced, inclined (40-60 degrees), planar, polished, very tight.			
44.00 - 45.50				100	N/A	N/A			44.80m to 45.97m; with closely spaced very thin and thin beds of dark grey and black tuffaceous clayey silt and silty clay.			

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Coordinates (m)	E651238.39 N264106.14	Ground Elevation (m Datum)	-17.39	Sheet 10 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									45.50m to 45.60m; recovered as firm (assumed drilling disturbed).			
								46	Medium strong and strong dark grey argillaceous LIMESTONE. Recovered as non intact core (assumed drilling induced) of angular and subangular fragments (<40mm x 90mm x 100mm). Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	45.97 (0.13) 46.10	-63.36 -63.49	
45.50 - 47.00				40	N/A	N/A			Clay (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.90)		
								47	LIMESTONE. Recovered as frequent subangular strong dark brownish grey argillaceous limestone fragments (<20mm x 20mm x 20mm, locally 70mm x 100mm x 110mm) with stiff dark brown tuffaceous silty clay. Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	47.00 (0.11) 47.11	-64.39 -64.50	
47.00 - 48.50				100	N/A	N/A			Very stiff becoming stiff dark brown becoming dark grey and dark brown tuffaceous silty CLAY with very closely and closely spaced, locally medium spaced, very thin and thin beds of dark grey and black tuffaceous clayey silt and silty clay, with occasional to locally frequent lenses and indistinct pockets (<10mm x 30mm) of brown silt, and rare pockets/burrows (<5mm x 5mm) infilled with brown silt. Micaceous. [HARWICH FORMATION, WRABNESS MEMBER]			
								48	48.32m to 48.50m; with frequent lenses/pockets (<10mm x 30mm) of light brown and brown silty fine sand.			
								49		(4.13)		
48.50 - 50.00				93	N/A	N/A			49.90m to 50.00m; assumed zone of core loss.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651238.39 N264106.14	Ground Elevation (m Datum)	-17.39	Sheet 11 of 11	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
50.00 - 51.50				100	N/A	N/A		51	50.50m to 51.24m; dark grey and dark brown tuffaceous, with frequent pockets/burrows (<5mm x 5mm) infilled with light brown silt.			
									Stiff dark brown silty CLAY, locally slightly sandy silty clay, with very closely and closely spaced indistinct laminae of brown silty fine sand, with frequent lenses and indistinct pockets (<10mm x 30mm) of silty fine sand. Micaceous. Sand is fine and medium. Possible Harwich Formation, Wrabness Member. [HARWICH FORMATION, ORWELL MEMBER] 51.24m to 51.50m; slightly sandy. 51.47m to 51.54m; with 1 No. inclined (60 degrees) fissure, planar, smooth, very tight.	51.24	-68.63	
51.50 - 53.00				100	N/A	N/A		52		(2.33)		
								53	52.74m to 52.80m; with 2 No. extremely closely spaced very thin beds of very stiff black pyritic tuffaceous silty clay with frequent pockets/burrows (<5mm x 5mm) infilled with light brown silt. 53.27m to 53.30m; with thin bed of very stiff black pyritic tuffaceous silty clay, with frequent pockets/burrows (<5mm x 5mm) infilled with light brown silt.			
									Very stiff, indistinctly fissured, dark brown CLAY with closely and medium spaced thin laminae of brown silt. Micaceous. Possible Harwich Formation, Wrabness Member. [HARWICH FORMATION, ORWELL MEMBER] 53.85m to 53.87m; very thin bed of black pyritic tuffaceous silty clay.	53.57	-70.96	
53.00 - 54.50				100	N/A	N/A		54		(0.93)		
									End of Borehole at 54.50 m	54.50	-71.89	

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SB_07**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E651920.43 N264129.90	Ground Elevation (m Datum)	-16.22	Sheet 1 of 1
Hole Type	Sonic Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	28.50	SD	30/06/2019	01/07/2019	LS600 : Excalibur	Sonic	118mm	TM/LM	GDF	

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
30/06/2019	16:40:00	0.00	0.00	
30/06/2019	23:45:00	10.50	10.50	
01/07/2019	00:15:00	10.50	10.50	
01/07/2019	06:00:00	28.50	28.50	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
28.50	118	28.50	150

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
0.00	1.50	100
1.50	3.00	100
3.00	4.50	100
4.50	6.00	100
6.00	7.50	100
7.50	9.00	100
9.00	10.50	100
10.50	12.00	100
12.00	13.50	100
13.50	15.00	100
15.00	16.50	100
16.50	18.00	100
18.00	19.50	100
19.50	21.00	100
21.00	22.50	100
22.50	24.00	100
24.00	25.50	100
25.50	27.00	100
27.00	28.50	100

General Remarks

1. Deck to mud was 25.30m; deck level was 9.08m above OD. 2. Point load tests cannot be performed at scheduled depths 10.50m-12.00m, 15.00m-16.50m and 19.50m-21.00m, due to unsuitable material.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	CAY	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW — Print Date: 29/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_07**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651920.43 N264129.90	Ground Elevation (m Datum)	-16.22	Sheet 1 of 6	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 1.50				100	N/A	N/A		1	Very soft and soft dark grey organic slightly sandy and sandy clayey SILT, with some to frequent pockets (<20mm x 30mm) of very soft dark grey organic clay and some pockets (<20mm x 20mm) of dark grey fine and medium sand. Calcareous. Sand is fine and medium. Strong organic odour. [TIDAL FLAT DEPOSITS]	(1.50)		
										1.50	-17.72	
1.50 - 3.00				53	N/A	N/A		2	Soft sandy silty clay (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.70)		
										2.20	-18.42	
3.00 - 4.50				100	N/A	N/A		3	Very soft and soft dark grey organic slightly sandy and sandy clayey SILT, with some to frequent pockets (<20mm x 30mm) of very soft dark grey organic clay, some pockets (<20mm x 20mm) of dark grey fine and medium sand. Calcareous. Sand is fine and medium. Strong organic odour. [TIDAL FLAT DEPOSITS]	(2.30)		
								4				
									Dark grey slightly gravelly, locally gravelly, SAND, with abundant shell fragments (<1mm x 3mm). Calcareous. Sand is mainly fine and medium. Gravel is subangular to rounded fine to coarse of flint and rare yellowish brown chert. [TIDAL FLAT DEPOSITS] 4.50m to 4.80m; gravelly.	4.50	-20.72	
										(1.00)		
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_07**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651920.43 N264129.90	Ground Elevation (m Datum)	-16.22	Sheet 2 of 6	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
4.50 - 6.00				100	N/A	N/A			At 5.30m; with 1 No. shell (20mm x 30mm). 5.33m to 5.50m; thin bed of dark grey silty fine sand. Calcareous and highly calcareous.			
									Very soft and soft dark greenish grey silty CLAY with extremely closely and very closely spaced thin laminae of yellowish brown fragmented plant/leaf remains (<30mm x 35mm), with conical and rarely rounded gastropod shells (<5mm x 5mm) and bivalve shells (<5mm x 7mm). Calcareous and highly Calcareous. Strong organic odour. [TIDAL FLAT DEPOSITS]	5.50 (0.50)	-21.72	
								6	Very soft and soft dark greenish grey silty CLAY, with some to frequent yellowish brown fragmented plant/ leaf remains (<20mm x 30mm), some to frequent conical to locally rounded gastropod shells (<4mm x 5mm, locally <15mm x 15mm) and bivalve shell fragments (<25mm x 30mm). Calcareous and highly calcareous. Strong organic odour. [TIDAL FLAT DEPOSITS] 6.40m to 6.52m; thin bed of firm dark reddish brown fibrous peat with abundant partially decayed wood fragments (<45mm x 50mm). Strong distinctive organic odour.	6.00 (0.52)	-22.22	
6.00 - 7.50				97	N/A	N/A		7	Grey, locally dark grey mottled black, locally silty, SAND. Sand is fine. Possible undifferentiated Recent Deposits/reworked Crag Deposits. [REWORKED CRAG DEPOSITS] 6.52m to 6.70m; thin bed of dark grey silty fine sand, with 1 No. fragment (10mm x 40mm) of yellowish brown partially decayed plant remain. 7.40m to 7.45m; very thin bed of firm black fibrous peat. Strong distinctive organic odour.	6.52 (0.98) 7.50	-22.74 -23.72	
									Dark grey silty SAND, with some shell fragments (<1mm). Slightly calcareous. Sand is fine and medium. Possibly reworked Coralline Crag Formation. [REWORKED CRAG DEPOSITS]	(0.25) 7.75	-23.97	
								8	Dark grey SAND, with frequent to abundant shell fragments (<1mm x 20mm). Slightly calcareous and calcareous. Sand is fine to coarse. Possibly reworked Coralline Crag Formation. [REWORKED CRAG DEPOSITS]			
7.50 - 9.00				100	N/A	N/A				(0.90) 8.65	-24.87	
									Dark grey gravelly SAND, with abundant shell fragments (<1mm). Calcareous. Sand is fine to coarse. Gravel is subangular to rounded mainly medium and coarse of flint, chert, quartz and quartzite with some tabular moderately weak calcareous sandstone/ calcarenite. Reworked Coralline Crag Formation. [REWORKED CRAG DEPOSITS]	(0.35) 9.00	-25.22	
								9	Grey gravelly SAND, recovered with some to frequent subrounded moderately weak calcareous sandstone/ calcarenite fragments (<20mm x 35mm), with some to frequent shell fragments (<2mm). Calcareous. Sand is fine to medium. Possible Coralline Crag Formation. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)] 9.00m to 9.10m; assumed zone of core loss.	(1.15)		
9.00 - 10.50				93	N/A	N/A						

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_07**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651920.43 N264129.90	Ground Elevation (m Datum)	-16.22	Sheet 3 of 6	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									At 10.10m; with 1 No. rounded medium gravel of flint.	10.15	-26.37	
10.50 - 12.00				100	N/A	N/A		11	Greenish grey slightly gravelly silty SAND, recovered with occasional subrounded moderately weak greenish grey and grey calcareous sandstone/calcarenite fragments (<30mm x 35mm), with some shell fragments (<2mm x 3mm). Calcareous. Sand is mainly fine and medium. Possible Coralline Crag Formation. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)] 10.15m to 10.50m; sand is locally coarse.	(2.15)		
12.00 - 13.50				100	N/A	N/A		12		12.30	-28.52	
								13	Grey slightly gravelly silty SAND, recovered with occasional to some subangular and subrounded moderately weak grey calcareous sandstone/ calcarenite fragments (<20mm), with frequent to abundant shell fragments (<1mm x 5mm). Calcareous. Sand is fine and medium. Possible Coralline Crag Formation. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	(1.20)		
13.50 - 15.00				0	N/A	N/A		14	Sand (Driller's description). NO RECOVERY.	13.50	-29.72	
										(1.50)		
									Continued next page	15.00	-31.22	

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_07**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651920.43 N264129.90	Ground Elevation (m Datum)	-16.22	Sheet 4 of 6	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
15.00 - 16.50				93	N/A	N/A		16	Grey slightly gravelly silty SAND, recovered with occasional subangular and subrounded moderately weak calcareous sandstone/calcarenite fragments (<35mm x 40mm x 50mm), with some to frequent, locally frequent to abundant, shell fragments (<4mm x 5mm). Calcareous. Sand is mainly fine and medium. Possible Coralline Crag Formation. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)] 15.00m to 20.00m; locally mottled dark grey. 16.20m to 16.40m; sand is fine to coarse. 16.40m to 16.50m; assumed zone of core loss.			
16.50 - 18.00				93	N/A	N/A		17				
18.00 - 19.50				100	N/A	N/A		18	17.90m to 18.00m; assumed zone of core loss.	(7.20)		
19.50 - 20.50	B	1						19				
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_07**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651920.43 N264129.90	Ground Elevation (m Datum)	-16.22	Sheet 5 of 6	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
19.50 - 21.00				90	N/A	N/A			20.00m to 20.85m; with frequent to abundant shell fragments (<4mm x 5mm).			
20.50 - 20.60	D	2										
									20.85m to 21.00m; assumed zone of core loss.			
								21				
21.00 - 22.50				80	N/A	N/A						
								22				
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	22.20 (0.30)	-38.42	
									Grey, locally slightly gravelly, silty SAND, locally recovered with occasional subangular and subrounded moderately weak calcareous sandstone/calcarenite fragments (<20mm x 30mm), with some shell fragments (<2mm). Calcareous. Sand is fine and medium. Possible Coralline Crag Formation. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	22.50	-38.72	
								23		(1.10)		
22.50 - 24.00				73	N/A	N/A			At 23.30m; subhorizontal very thin bed of very stiff greenish grey silty clay.			
									23.50m to 23.60m; slightly gravelly.			
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	23.60 (0.40)	-39.82	
								24				
									Grey slightly gravelly silty SAND, recovered with rare to occasional subangular and subrounded moderately weak calcareous sandstone/calcarenite fragments (<20mm x 25mm), with some shell fragments (<1mm x 5mm). Calcareous. Sand is mainly fine and medium. Possible Coralline Crag Formation. [CORALLINE CRAG FORMATION (UNDIFFERENTIATED)]	24.00	-40.22	
24.00 - 25.50				93	N/A	N/A						

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SB_07**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651920.43 N264129.90	Ground Elevation (m Datum)	-16.22	Sheet 6 of 6	
Hole Type	Sonic Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
										(2.10)		
									25.10m to 25.25m; with extremely closely spaced subhorizontal thick laminae of stiff and very stiff greenish grey silty clay. 25.40m to 25.50m; assumed zone of core loss.			
								26		26.10	-42.32	
25.50 - 27.00				100	N/A	N/A			Grey gravelly silty SAND, recovered with rare to occasional subangular to subrounded moderately weak calcareous sandstone/calcarenite fragments (<30mm x 30mm), with frequent to abundant shell fragments (<3mm x 30mm) and occasional bivalve shells (<20mm x 20mm). Calcareous. Sand is fine and medium. Gravel is subangular to rounded medium and coarse of flint. Possible Coralline Crag Formation, Ramsholt Member. [CORALLINE CRAG FORMATION, RAMSHOLT MEMBER]	(0.33)		
									Stiff fissured dark grey slightly gravelly silty CLAY. Gravel is rounded and well rounded medium and coarse of possibly glauconitic flint, occasionally spheroidal weathered with yellowish brown staining. Fissures are possibly extremely closely spaced, randomly orientated, planar and undulating, smooth, occasionally polished and striated, very tight and tight. Possibly reworked London Clay Formation. [LONDON CLAY FORMATION]	26.43	-42.65	
									At 26.65m; possible subhorizontal thin lamina of pyrite grains/crystals (<1mm).	(0.27)		
								27		26.70	-42.92	
27.00 - 28.50				100	N/A	N/A			Stiff and very stiff fissured dark brown silty CLAY, with some to frequent burrows (<2mm x 15mm) infilled with brown pyritic silty clay. Fissures are extremely closely and very closely spaced, randomly orientated, planar and undulating, smooth, very tight and tight. [LONDON CLAY FORMATION, WALTON MEMBER]	(0.30)		
									At 26.85m; with 1 No. pyrite concretion/nodule (15mm x 25mm).	27.00	-43.22	
								28	Very stiff fissured dark grey, occasionally mottled reddish brown, silty CLAY, with frequent to abundant tubular foraminifera (<1mm x 5mm), abundant burrows (<1mm x 25mm) infilled with grey pyritic silty clay and rare pockets (<10mm x 20mm) of light grey silt. Fissures are very closely spaced, randomly orientated, planar, smooth, very tight and tight, with occasional reddish brown staining. [LONDON CLAY FORMATION, WALTON MEMBER]	(1.50)		
									28.16m to 28.20m; with frequent lignite fragments (<20mm x 25mm) and 1 No. flat (assumed drilling fragmented) pyrite concretion (20mm x 40mm x 55mm).	28.50	-44.72	
									End of Borehole at 28.50 m			
								29				

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_01**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648733.79 N264095.08	Ground Elevation (m Datum)	-10.14	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	42.00	RO	11/06/2019	13/06/2019	Comacchio : Excalibur	NCD	102mm	AR/JL	GDF/MH	
42.00	55.00	RC	13/06/2019	13/06/2019	Comacchio : Excalibur	Geobor	146mm	AR/JL	GDF/DM	Switched to Geobor at 42.00m due to ground conditions; core not retained.

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
11/06/2019	14:50:00	0.00	0.80	Fair/rain
11/06/2019	21:20:00	18.00	18.00	
12/06/2019	00:15:00	18.00	18.00	
12/06/2019	11:15:00	22.00	22.00	
12/06/2019	12:40:00	22.00	22.00	
12/06/2019	23:45:00	40.00	40.00	
13/06/2019	00:15:00	40.00	40.00	
13/06/2019	10:20:00	55.00	55.00	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
42.00	178	0.80	250
55.00	146	42.00	178
		55.00	146

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)
0.00	2.00	P	0	Grey	
2.00	4.00	P	0	Grey	
4.00	6.00	P	0	Grey	
6.00	8.00	P	0	Grey	
8.00	10.00	P	0	Grey	
10.00	12.00	P	0	Grey	
12.00	14.00	P	0	Grey	
14.00	16.00	P	0	Grey	
16.00	18.00	P	0	Grey	
18.00	20.00	P	0	Grey	
20.00	22.00	P	0	Grey	
22.00	24.00	P	0	Grey	
24.00	26.00	P	0	Grey	
26.00	28.00	P	0	Grey	
28.00	30.00	P	0	Grey	
30.00	32.00	P	0	Grey	
32.00	34.00	P	0	Grey	
34.00	36.00	P	0	Grey	
36.00	38.00	P	0	Grey	
38.00	40.20	P	0	Grey	
40.20	42.00	P	100	Grey	
42.00	44.00	P	100	Grey	
44.00	46.00	P	100	Grey	
46.00	48.00	P	100	Grey	
48.00	50.00	P	100	Grey	
50.00	52.00	P	100	Grey	
52.00	54.00	P	100	Grey	
54.00	55.00	P	100	Grey	

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)

General Remarks

1. Deck to mud was 20.00m; deck level was 9.86m above OD. 2. The borehole was drilled adjacent to OT_SB_01 to achieve the associated SPT data. 3. Geophysical borehole logging was carried out on completion of drilling; results reported separately. 4. Descriptions of the SPT D samples are based on the disturbed material recovered from the SPT liners; these descriptions alone cannot provide representative information to infer strata descriptions or boundaries; the strata descriptions and boundaries given are based on driller's records only. 5. Core logging/logging of ends of core liners was not required.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	ROR	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 29/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648733.79 N264095.08	Ground Elevation (m Datum)	-10.14	Sheet 1 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 0.45 0.00 - 0.45	D SPT	1	N = 5 (S)						SAND (Driller's description). 0.00m to 0.45m (450mm recovery); dark brown sandy silt (350mm) over dark grey sand and abundant shell fragments (<1mm x 3mm x 4mm). Slightly calcareous. Sand is fine and medium.			
								1				
2.00 - 2.45 2.00 - 2.45	D SPT	2	N = 36 (S)					2	2.00m to 2.45m (450mm recovery); dark grey fine slightly sandy clay (190mm) over light brown slightly gravelly sand with abundant shell fragments (<1mm x 2mm x 4mm) (210mm) over orange sand with frequent shell fragments (<1mm x 2mm x 3mm). Sand is fine to coarse. Gravel is subangular fine of flint.			
								3				
4.00 - 4.45 4.00 - 4.45	D SPT	3	N = 20 (S)					4	4.00m to 4.45m (450mm recovery); medium dense orangish yellow and reddish brown (colour banded) sand. Sand is fine and medium.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648733.79 N264095.08	Ground Elevation (m Datum)	-10.14	Sheet 2 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
6.00 - 6.38 6.00 - 6.38	D SPT	4	50/230 mm (S)					6	6.00m to 6.38m (380mm recovery); reddish brown slightly calcareous slightly silty sand with 1 No. subrounded medium gravel of limestone (140mm) over very dense yellowish brown becoming orangish brown sand. Sand is fine and medium.			
								7				
8.00 - 8.30 8.00 - 8.30	D SPT	5	50/150 mm (S)					8	8.00m to 8.30m (280mm recovery); reddish brown sand with 1 No. subrounded medium gravel of limestone (170mm) over yellowish brown silty sand. Calcareous. Sand is fine and medium.			
								9				
10.00 - 10.23 10.00 - 10.23	D SPT	6	50/105 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_01**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648733.79 N264095.08	Ground Elevation (m Datum)	-10.14	Sheet 3 of 11
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									10.00m to 10.23m (230mm recovery); brownish grey fine and medium sand (150mm) over brown medium and coarse sand with abundant shell fragments (<3mm x 3mm x 4mm) (70mm) over grey sand with 1 No. thin lamina (<5mm) of shell fragments (<1mm x 2mm x 2mm). Calcareous. Sand is fine to coarse.			
								11				
12.00 - 12.26 12.00 - 12.26	D SPT	7	50/105 mm (S)					12	12.00m to 12.26m (260mm recovery); very dense greenish grey sand with some shell fragments (<1mm). Slightly calcareous. Sand is fine to coarse.			
								13				
14.00 - 14.23 14.00 - 14.23	D SPT	8	50/95 mm (S)					14	14.00m to 14.23m (230mm recovery); greenish grey mottled dark grey sand (70mm) over brownish grey slightly gravelly coarse sand with abundant shell fragments (1mm x 4mm x 4mm) (100mm recovery) over greenish grey mottled dark grey sand. Calcareous. Sand is fine to coarse. Gravel is subangular and subrounded fine of limestone, mudstone and quartz.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648733.79 N264095.08	Ground Elevation (m Datum)	-10.14	Sheet 4 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
16.00 - 16.22 16.00 - 16.22	D SPT	9	50/85 mm (S)					16	16.00m to 16..22m (220mm recovery); brownish grey slightly sandy gravel with abundant shell fragments (<2mm x 3mm x 4mm) (160mm) over greenish grey fine and medium sand with some shell fragments (<1mm). Sand is fine to coarse. Gravel is subangular and subrounded fine of and limestone, mudstone and quartz.			
								17				
18.00 - 18.31 18.00 - 18.31	D SPT	10	50/160 mm (S)					18	18.00m to 18.31m (250mm recovery); very dense grey and greenish grey silty sand with occasional shell fragments (<2mm). Slightly calcareous. Sand is fine and medium.			
								19				
20.00 - 20.24 20.00 - 20.24	D SPT	11	50/90 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648733.79 N264095.08	Ground Elevation (m Datum)	-10.14	Sheet 5 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									20.00m to 20.24m (240mm recovery); very dense greenish grey sand with occasional shell fragments and with 1 No. rounded coarse gravel of flint. Sand is fine to coarse.			
								21		(42.00)		
22.00 - 22.25 22.00 - 22.25	D SPT	12	50/135 mm (S)					22	22.00m to 22.25m (250mm recovery); very dense greenish grey sand with abundant shell fragments (<1mm x 4mm x 7mm). Sand is fine to coarse.			
								23				
24.00 - 24.24 24.00 - 24.24	D SPT	13	50/105 mm (S)					24	24.00m to 24.24m (240mm recovery); very dense greenish grey sand with frequent shell fragments (<1mm x 3mm x 4mm) with 1 No. very thin bed (70mm) of strong greenish grey mudstone. Calcareous. Sand is fine to coarse.			

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648733.79 N264095.08	Ground Elevation (m Datum)	-10.14	Sheet 6 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
26.00 - 26.28 26.00 - 26.28	D SPT	14	50/160 mm (S)					26	26.00m to 26.28m (270mm recovery); very dense greenish grey, locally mottled dark grey sand with abundant shell fragments (<1mm x 2mm x 3mm). Calcareous. Sand is fine to coarse.			
								27				
28.00 - 28.25 28.00 - 28.25	D SPT	15	50/125 mm (S)					28	28.00m to 28.25m (250mm recovery); very dense greenish grey sand with abundant shell fragments (<1mm x 2mm x 2mm), locally with extremely closely spaced thick laminae of brownish grey silt. Sand is fine to coarse.			
								29				
30.00 - 30.21 30.00 - 30.21	D SPT	16	50/95 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648733.79 N264095.08	Ground Elevation (m Datum)	-10.14	Sheet 7 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									30.00m to 30.21m (210mm recovery); very dense bluish grey, locally mottled dark grey, sand with abundant shell fragments (<1mm). Calcareous. Sand is fine to coarse.			
								31				
32.00 - 32.45 32.00 - 32.45	D SPT	17	N = 49 (S)					32	32.00m to 32.45m (340mm recovery); dense bluish grey sand with rare shell fragments (<1mm). Calcareous. Sand is fine.			
								33				
34.00 - 34.28 34.00 - 34.28	D SPT	18	50/145 mm (S)					34	34.00m to 34.28m (280m recovery); very dense bluish grey sand with some shell fragments (<1mm). Highly calcareous. Sand is fine and medium.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_01**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648733.79 N264095.08	Ground Elevation (m Datum)	-10.14	Sheet 8 of 11
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
36.00 - 36.17 36.00 - 36.17	D SPT	19	50/95 mm (S)					36	36.00m to 36.17m (170mm recovery); very dense greenish grey, locally mottled dark grey, sand with frequent shell fragments (<1mm x 2mm x 2mm) and with 2 No. pockets (<5mm x 17mm) of brownish grey silt. Calcareous. Sand is fine coarse.			
								37				
38.00 - 38.22 38.00 - 38.22	D SPT	20	50/125 mm (S)					38	38.00m to 38.22m; very dense greenish grey, locally mottled dark grey, sand with abundant shell fragments (<1mm x 3mm x 3mm). Calcareous to highly calcareous. Sand is fine to coarse.			
								39				
40.00 - 40.20 40.00 - 40.20	D SPT	21	50/95 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_01**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648733.79 N264095.08	Ground Elevation (m Datum)	-10.14	Sheet 9 of 11
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									40.00m to 40.20m (190mm recovery); very dense greenish grey sand with abundant shell fragments (<1mm x 3mm x 5mm). Calcareous. Sand is fine to coarse.			
								41	At 41.50m; driller noted possible limestone/claystone.			
42.00 - 42.45 42.00 - 42.45	D SPT	22	N = 39 (S)					42	Silty CLAY (Drillers description). 42.00m to 42.45m (300mm recovery); stiff dark grey silty clay. Micaceous.	42.00	-52.14	
								43				
44.00 - 44.45 44.00 - 44.45	D SPT	23	N = 37 (S)					44	44.00m to 44.45m (410mm recovery); stiff dark grey silty clay with 1 No. pocket (<30mm) of bluish grey silt. Micaceous.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_01**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E648733.79 N264095.08	Ground Elevation (m Datum)	-10.14	Sheet 10 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
46.00 - 46.45 46.00 - 46.45	D SPT	24	N = 30 (S)					46	46.00m to 46.45m (350mm recovery); stiff dark grey, locally light brown, silty clay.			
								47				
48.00 - 48.45 48.00 - 48.45	D SPT	25	N = 32 (S)					48	48.00m to 48.45m (350mm recovery); stiff dark grey, locally light grey, silty clay.	(13.00)		
								49				
50.00 - 50.45 50.00 - 50.45	D SPT	26	N = 46 (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_01**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E648733.79 N264095.08	Ground Elevation (m Datum)	-10.14	Sheet 11 of 11
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									50.00m to 50.45m (430mm recovery); very stiff grey and blue silty clay interbedded with very closely to closely spaced very thin beds of bluish grey silt with 1 No. fissure. Fissure is inclined (70 degrees), planar, polished, very tight.			
								51				
52.00 - 52.45 52.00 - 52.45	D SPT	27	N = 39 (S)					52	52.00m to 52.45m (340mm recovery); stiff dark grey silty clay. Micaceous.			
								53				
54.00 - 54.40 54.00 - 54.40	D SPT	28	50/250 mm (S)					54	54.00m to 54.40m (300mm recovery); very stiff dark grey silty clay with very closely spaced thin laminae of brown silt. Micaceous.			
									End of Borehole at 55.00 m	55.00	-65.14	

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_02**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E649335.80 N264098.13	Ground Elevation (m Datum)	-7.93	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	46.00	RO	14/06/2019	15/06/2019	Comacchio : Excalibur	NCD	102mm	JS/JL	DM/MH	
46.00	55.00	RC	15/06/2019	16/06/2019	Comacchio : Excalibur	Geobor	146mm	JS/JL	DM/MH	Switched to Geobor at 46.00m due to ground conditions; core retained from 46.00m as instructed by NNB.

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
14/06/2019	21:50:00	0.00	2.00	Dry
14/06/2019	23:30:00	6.00	6.00	Dry
15/06/2019	00:05:00	6.00	6.00	
15/06/2019	10:35:00	30.00	30.00	
15/06/2019	11:20:00	30.00	30.00	
15/06/2019	23:45:00	50.00	50.00	
16/06/2019	00:30:00	50.00	50.00	
16/06/2019	04:30:00	55.00	55.00	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
46.00	178	2.00	250
55.00	146	46.00	178
		55.00	146

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)
0.00	2.00	P	0	Grey	00:10
2.00	4.00	P	100	Grey	00:10
4.00	6.00	P	100	Grey	00:10
6.00	8.00	P	100	Grey	00:10
8.00	10.00	P	100	Grey	00:15
10.00	12.00	P	100	Grey	00:13
12.00	14.00	P	100	Grey	00:10
14.00	16.00	P	100	Grey	00:10
16.00	18.00	P	100	Grey	00:10
18.00	20.00	P	100	Grey	
20.00	22.00	P	100	Grey	
22.00	24.00	P	100	Grey	
24.00	26.00	P	100	Grey	
26.00	28.00	P	100	Grey	
28.00	30.00	P	100	Grey	
30.00	32.00	P	100	Grey	
32.00	34.00	P	100	Grey	
34.00	36.00	P	100	Grey	
36.00	38.00	P	100	Grey	
38.00	40.00	P	100	Grey	
40.00	42.00	P	100	Grey	
42.00	44.00	P	100	Grey	
44.00	46.00	P	100	Grey	
46.00	47.00	P	0	Grey	
47.00	48.00	P	0	Grey	
48.00	49.00	P	0	Grey	
49.00	50.00	P	0	Grey	
50.00	51.00	P	0	Grey	
51.00	52.00	P	0	Grey	
52.00	53.00	P	0	Grey	
53.00	54.00	P	0	Grey	
54.00	55.00	P	0	Grey	

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
46.00	47.00	102
47.00	48.00	102
48.00	49.00	102
49.00	50.00	102
50.00	51.00	102
51.00	52.00	102
52.00	53.00	102
53.00	54.00	102
54.00	55.00	102

General Remarks

1. Deck to mud was 18.00m; deck level was 10.07m above OD. 2. The borehole was drilled adjacent to OT_SB_02 to achieve the associated SPT data. 3. SPT D samples D4 to D11 (8.00m to 22.17m) and D12 to D22 (24.00m to 44.18m) were depleted for subsampling of environmental samples ES1 and ES2 respectively. 4. Geophysical borehole logging was carried out on completion of drilling; results reported separately. 5. Descriptions of the SPT D samples are based on the disturbed material recovered from the SPT liners; these descriptions alone cannot provide representative information to infer strata descriptions or boundaries; the strata descriptions and boundaries given are based on driller's records only. 6. Core logging/logging of ends of core liners was not required.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	ROR	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649335.80 N264098.13	Ground Elevation (m Datum)	-7.93	Sheet 1 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 0.45	SPT		N = 17 (S)						SAND (Driller's description). 0.00m to 0.45m; no recovery.			
2.00 - 2.45	D	1						2	2.00m to 2.45m (450mm recovery); loose dark brownish grey, mottled dark grey, silty sand with 1 No. shell fragment (1mm x 15mm x 18mm). Slightly calcareous. Sand is fine and medium.			
2.00 - 2.45	SPT		N = 9 (S)									
4.00 - 4.45	D	2						4	4.00m to 4.45m (450mm recovery); soft dark grey silt (250mm) over dark brownish grey, mottled dark grey, silty sand with occasional very closely spaced thin laminae of soft dark grey silt. Micaceous. Slightly calcareous. Sand is fine and medium.			
4.00 - 4.45	SPT		N = 2 (S)									

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649335.80 N264098.13	Ground Elevation (m Datum)	-7.93	Sheet 2 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
6.00 - 6.45 6.00 - 6.45	D SPT	3	N = 11 (S)					6	6.00m to 6.45m (450mm recovery); thickly interlaminated grey mottled dark grey calcareous silty fine sand and silt (350mm) over greyish brown gravelly sand. Sand is fine and medium. Gravel is subrounded and rounded fine and medium of chalk.			
								7				
8.00 - 22.17 8.00 - 8.35 8.00 - 8.35	ES D SPT	1 4	50/200 mm (S)					8	8.00m to 8.35m (350mm recovery); firm grey, locally greenish grey, highly calcareous slightly gravelly clay (140mm) over very dense orangish brown slightly calcareous sand. Sand is fine and medium. Gravel is subangular to rounded fine of chalk.			
								9				
10.00 - 10.34 10.00 - 10.34	D SPT	5	50/190 mm (S)									

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_02**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E649335.80 N264098.13	Ground Elevation (m Datum)	-7.93	Sheet 3 of 11
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									10.00m to 10.34m (280mm recovery); firm grey highly calcareous slightly gravelly clay (100mm) over very dense orangish brown sand. Sand is fine and medium. Gravel is subrounded and rounded fine of chalk.			
								11				
12.00 - 12.30 12.00 - 12.30	D SPT	6	50/150 mm (S)					12	12.00m to 12.30m (300mm recovery); orangish brown, locally black sand (70mm) over firm dark grey highly calcareous slightly gravelly silty clay (90mm) over very dense orangish brown sand with occasional shell fragments (<1mm x 4mm x 5mm). Sand is fine to coarse. Gravel is angular to subrounded fine of chalk.			
								13				
14.00 - 14.33 14.00 - 14.33	D SPT	7	50/180 mm (S)					14	14.00m to 14.33m (330mm); thinly interlaminated firm grey, locally orange, slightly sandy, locally gravelly, silty clay and fine sand (260mm) over thinly interlaminated orangish brown sand and soft silty clay. Sand is fine. Gravel is subangular fine of chalk.			

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649335.80 N264098.13	Ground Elevation (m Datum)	-7.93	Sheet 4 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
16.00 - 16.24 16.00 - 16.24	D SPT	8	50/100 mm (S)					16	16.00m to 16.24m (240mm recovery); firm grey slightly gravelly silty clay (50mm) over thinly interlaminated firm grey calcareous silty clay and fine sand (50mm) over thinly interlaminated orange and greenish brown highly calcareous sand and soft silty clay with abundant shell fragments (<2mm x 3mm). Sand is fine to coarse. Gravel is angular to subrounded fine of chalk.			
								17				
18.00 - 18.32 18.00 - 18.32	D SPT	9	50/170 mm (S)					18	18.00m to 18.32m (300mm recovery); thinly interlaminated firm grey and orange silty clay and silt (90mm) over orangish brown becoming greenish brown sand with shell fragments (<1mm x 3mm x 4mm) with 1 No. very thin bed (30mm) of firm grey silty clay. Calcareous. Sand is fine to coarse.			
								19				
20.00 - 20.23 20.00 - 20.23	D SPT	10	50/80 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649335.80 N264098.13	Ground Elevation (m Datum)	-7.93	Sheet 5 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									20.00m to 20.23m (230mm recovery); firm dark grey, locally orange, silty clay (100mm) over very dense grey slightly calcareous sand. Sand is fine to coarse.			
								21				
22.00 - 22.17 22.00 - 22.17	D SPT	11	50/80 mm (S)					22	22.00m to 22.17m (170mm recovery); very dense greenish grey sand. Slightly calcareous. Sand is fine to coarse.			
										(45.50)		
								23				
24.00 - 24.22 24.00 - 44.18 24.00 - 24.22	D ES SPT	12 2	50/80 mm (S)					24	24.00m to 24.22m (220mm recovery); very dense grey sand with occasional shell fragments (<1mm x 2mm x 4mm). Slightly calcareous. Sand is fine to coarse.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649335.80 N264098.13	Ground Elevation (m Datum)	-7.93	Sheet 6 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
26.00 - 26.25 26.00 - 26.25	D SPT	13	50/120 mm (S)					26	26.00m to 26.25m (250mm); very dense grey sand with occasional shell fragments (<1mm x 5mm x 7mm) with 1 No. possible claystone fragment (20mm). Sand is fine to coarse.			
								27				
28.00 - 28.24 28.00 - 28.24	D SPT	14	50/110 mm (S)					28	28.00m to 28.24m (240mm recovery); very dense grey sand with abundant shell fragments (<1mm x 2mm x 4mm). Sand is fine to coarse.			
								29				
30.00 - 30.24 30.00 - 30.24	D SPT	15	50/110 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649335.80 N264098.13	Ground Elevation (m Datum)	-7.93	Sheet 7 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									30.00m to 30.24m (240mm recovery); very dense greenish grey sand with abundant shell fragments (<1mm x 2mm x 3mm) with 1 No. thick lamina (10mm) of dark grey sand with frequent shell fragments (<1mm x 2mm x 2mm) Calcareous. Sand is fine to coarse.			
								31				
32.00 - 32.30 32.00 - 32.30	D SPT	16	50/160 mm (S)					32	32.00m to 32.30m (290mm recovery); very dense dark grey, locally black, sand with frequent shell fragments (<1mm x 4mm x 8mm) with 1 No. thin lamina of soft dark brownish grey silt. Calcareous. Sand is fine and medium.			
								33				
34.00 - 34.38 34.00 - 34.38	D SPT	17	50/225 mm (S)					34	34.00m to 34.38m (330mm recovery); dark brownish grey, locally dark grey, sand with extremely closely and very closely spaced very thin beds of very stiff grey clay and with occasional shell fragments (<1mm x 5mm x 10mm). Sand is fine to coarse.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_02**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E649335.80 N264098.13	Ground Elevation (m Datum)	-7.93	Sheet 8 of 11
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
36.00 - 36.27 36.00 - 36.27	D SPT	18	50/165 mm (S)					36	36.00m to 36.27m (240mm recovery); soft grey clay (80mm) over very dense dark grey, locally dark brownish grey, slightly gravelly sand with frequent shell fragments (<1mm x 2mm x 4mm). Calcareous to highly calcareous. Sand is fine to coarse. Gravel is subrounded fine of mudstone.			
								37				
38.00 - 38.16 38.00 - 38.16	D SPT	19	50/85 mm (S)					38	38.00m to 38.16m (160mm recovery); very dense dark grey becoming brownish grey sand with abundant shell fragments (<1mm x 2mm x 2mm). Slightly calcareous. Sand is fine to coarse.			
								39				
40.00 - 40.22 40.00 - 40.22	D SPT	20	50/140 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649335.80 N264098.13	Ground Elevation (m Datum)	-7.93	Sheet 9 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									40.00m to 40.22m (220mm recovery); very dense greenish grey, locally brownish grey, sand with abundant shell fragments (<1mm x 2mm x 2mm). Sand is fine to coarse.			
								41				
42.00 - 42.22 42.00 - 42.22	D SPT	21	50/120 mm (S)					42	42.00m to 42.22m (220mm); very dense dark grey, locally brownish grey, sand with frequent to abundant shell fragments (<1mm x 2mm x 3mm). Calcareous. Sand is fine to coarse.			
								43				
44.00 - 44.18 44.00 - 44.18	D SPT	22	50/110 mm (S)					44	44.00m to 44.18m (180mm recovery); very dense dark brownish grey, locally mottled dark grey, sand with abundant shell fragments (<1mm) with 1 No. thin lamina (<6mm) of brownish grey silt. Slightly calcareous. Sand is fine to coarse.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_02**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E649335.80 N264098.13	Ground Elevation (m Datum)	-7.93	Sheet 10 of 11	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									CLAY (Driller's description).	45.50	-53.43	
46.00 - 46.45 46.00 - 46.45	D SPT	23	N = 34 (S)					46	46.00m to 46.45m (310mm SPT D recovery); very stiff dark brownish grey, locally grey, silty clay. Micaceous.			
46.00 - 47.00				100	N/A	N/A						
								47				
47.00 - 48.00				45	N/A	N/A				(4.50)		
48.00 - 48.42 48.00 - 48.42	D SPT	24	50/270 mm (S)					48	48.00m to 48.42m (390mm SPT D recovery); very stiff dark brownish grey, brown and bluish grey micaceous clay with closely spaced thick laminae to very thin beds (20mm-30mm) of dark bluish grey mudstone.			
48.00 - 49.00				100	N/A	N/A						
49.00 - 49.17	C	1						49				
49.00 - 50.00				100	N/A	N/A						
50.00 - 50.10 50.00 - 50.10	D SPT	25	50/25 mm (S)						Continued next page	50.00	-57.93	

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_02**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E649335.80 N264098.13	Ground Elevation (m Datum)	-7.93	Sheet 11 of 11
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
50.00 - 51.00				20	N/A	N/A			LIMESTONE (Driller's description). 50.00m to 50.10m (100mm SPT D recovery); strong dark grey possible limestone.	(1.00)		
								51	CLAY (Driller's description).	51.00	-58.93	
51.00 - 52.00				100	N/A	N/A						
52.00 - 52.45 52.00 - 52.45	D SPT	26	N = 41 (S)					52	52.00m to 52.45m (450mm SPT D recovery); stiff dark brownish grey mottled bluish grey silty clay. Micaceous.			
52.00 - 53.00				100	N/A	N/A						
53.00 - 53.60	C	2						53		(4.00)		
53.00 - 54.00				100	N/A	N/A						
54.00 - 54.45 54.00 - 54.45	D SPT	27	N = 41 (S)					54	54.00m to 54.45m (360mm SPT D recovery); stiff dark brownish grey silty clay. Micaceous			
54.00 - 55.00				100	N/A	N/A						
									End of Borehole at 55.00 m	55.00	-62.93	

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	27.40	RO	09/07/2019	10/07/2019	Comacchio : Excalibur	NCD	102mm	JS/JL	PC/MH/ GDF	
27.40	110.00	RC	10/07/2019	11/07/2019	Comacchio : Excalibur	Geobor	146mm	JS/JL	PC/MH/ GDF/RL	Switched to Geobor at 27.40m due to ground conditions; core retained as instructed by NNB.

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
09/07/2019	16:45:00	0.00	1.80	Dry
09/07/2019	23:45:00	20.00	20.00	
10/07/2019	00:00:00	20.00	20.00	
10/07/2019	11:45:00	45.50	45.50	
10/07/2019	12:00:00	45.50	45.50	
10/07/2019	23:45:00	81.50	81.50	
11/07/2019	00:15:00	81.50	81.50	
11/07/2019	11:00:00	110.00	110.00	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
27.40	178	1.80	250
110.00	146	27.40	178
		110.00	146

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)
27.40	28.00	P	100	Grey	00:10
28.00	29.00	P	100	Grey	00:08
29.00	30.50	P	100	Grey	00:13
30.50	32.00	P	100	Grey	00:14
32.00	33.50	P	100	Grey	00:12
33.50	35.00	P	100	Grey	00:12
35.00	36.50	P	100	Grey	00:09
36.50	38.00	P	100	Grey	00:09
38.00	39.50	P	100	Grey	00:10
39.50	41.00	P	100	Grey	00:10
41.00	42.50	P	100	Grey	00:11
42.50	44.00	P	100	Grey	00:11
44.00	45.50	P	100	Grey	00:10
45.50	47.00	P	100	Grey	00:10
47.00	48.50	P	100	Grey	00:09
48.50	50.00	P	100	Grey	00:12
50.00	51.50	P	100	Grey	00:08
51.50	53.00	P	100	Grey	00:08
53.00	54.50	P	100	Grey	00:11
54.50	56.00	P	100	Grey	00:11
56.00	57.50	P	100	Grey	00:07
57.50	59.00	P	100	Grey	00:07
59.00	60.50	P	100	Grey	00:07
60.50	62.00	P	100	Grey	00:06
62.00	63.50	P	100	Green	00:03
63.50	65.00	P	100	Green	00:02
65.00	66.50	P	100	Brown	00:09
66.50	68.00	P	100	Brown	00:07
68.00	69.50	P	100	Brown	00:07
69.50	71.00	P	100	Grey	00:12
71.00	72.50	P	100	Grey	00:03
72.50	74.00	P	100	Grey	00:06
74.00	75.50	P	100	Grey	00:14
75.50	77.00	P	100	Grey	00:09
77.00	78.50	P	100	Grey	00:12
78.50	80.00	P	100	Grey	00:12
80.00	81.50	P	100	Grey	00:11
81.50	83.00	P	100	Grey	00:11
83.00	84.50	P	100	Grey	00:12
84.50	86.00	P	100	Grey	00:12
86.00	87.50	P	100	White	00:08
87.50	89.00	P	100	White	00:03
89.00	90.50	P	100	White	00:04
90.50	92.00	P	100	White	00:05
92.00	93.50	P	100	White	00:03
93.50	95.00	P	100	White	00:01
95.00	95.75	P	100	White	00:02
95.75	96.50	P	100	White	00:01
96.50	98.00	P	100	White	00:02
98.00	99.50	P	100	White	00:02
99.50	101.00	P	100	White	00:02
101.00	102.50	P	100	White	00:02
102.50	104.00	P	100	White	00:02
104.00	105.50	P	100	White	00:01
105.50	107.00	P	100	White	00:02
107.00	108.50	P	100	White	00:01
108.50	110.00	P	100	White	00:01

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
27.40	28.00	102
28.00	29.00	102
29.00	30.50	102
30.50	32.00	102
32.00	33.50	102
33.50	35.00	102
35.00	36.50	102
36.50	38.00	102
38.00	39.50	102
39.50	41.00	102
41.00	42.50	102
42.50	44.00	102
44.00	45.50	102
45.50	47.00	102
47.00	48.50	102
48.50	50.00	102
50.00	51.50	102
51.50	53.00	102
53.00	54.50	102
54.50	56.00	102
56.00	57.50	102
57.50	59.00	102
59.00	60.50	102
60.50	62.00	102
62.00	63.50	102
63.50	65.00	102
65.00	66.50	102
66.50	68.00	102
68.00	69.50	102
69.50	71.00	102
71.00	72.50	102
72.50	74.00	102
74.00	75.50	102
75.50	77.00	102
77.00	78.50	102
78.50	80.00	102
80.00	81.50	102
81.50	83.00	102
83.00	84.50	102
84.50	86.00	102
86.00	87.50	102
87.50	89.00	102
89.00	90.50	102
90.50	92.00	102
92.00	93.50	102
93.50	95.00	102
95.00	95.60	102
95.60	96.50	102
96.50	98.00	102
98.00	99.50	102
99.50	101.00	102
101.00	102.50	102
102.50	104.00	102
104.00	105.50	102
105.50	107.00	102
107.00	108.50	102
108.50	110.00	102

General Remarks

1. Deck to mudline was 18.00m; deck level was 10.10m above OD. 2. The borehole was drilled adjacent to OT_SB_03 to achieve the associated SPT data and to extend deeper by rotary coring. 3. Driller verified with the site engineer that strata change at 27.20m (instead of 35.00m). 4. Driller noted disturbed core taken between 27.40m and 28.00m from redrilling. 5. Between 82.40m and 83.00m; core slipped and picked up from next run; between 85.75m and 86.00m; core slipped and picked up from next run. 6. Core runs between 30.50m and 32.00m, between 32.00m and 33.50m, and between 33.50m and 35.00m were preserved and sent for testing at Laboratoire CEMETE-EDF-TEGG, as instructed by NNB; only ends of liners were logged (treat descriptions with caution). 7. Geophysical borehole logging was carried out on completion of drilling; results reported separately. 8. Checkshot survey was carried out downhole on completion of drilling; results reported separately. 9. Descriptions of the SPT D samples are based on the disturbed material recovered from the SPT liners; these descriptions alone cannot provide representative information to infer strata descriptions or boundaries; the strata descriptions and boundaries given are based on driller's records only. 10. CIRIA grades are given for the Chalk strata if possible; subvertical fractures (85-90 degrees) were not included in CIRIA grading or fracture spacing calculations as spacing could not be reliably determined.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	CAY/ROR	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 29/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 1 of 22	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 0.26 0.00 - 0.26	D SPT	1	50/115 mm (S)						SAND (Driller's description). 0.00m to 0.26m (260mm recovery); very dense light brown sand with rare shell fragments (<1mm x 1mm x 2mm). Sand is fine and medium.			
								1				
2.00 - 2.45 2.00 - 2.45	D SPT	2	N = 14 (S)					2	2.00m to 2.45m (270mm recovery); brownish grey silt with rare shell fragments (<1mm x 1mm x 1mm).			
								3				
4.00 - 4.45 4.00 - 4.45	D SPT	3	N = 31 (S)					4	4.00m to 4.45m (350mm recovery); dense, locally cemented, yellowish brown sand with abundant shell fragments (<2mm x 5mm x 6mm). Sand is fine to coarse.			

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 2 of 22	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
6.00 - 6.45 6.00 - 6.45	D SPT	4	N = 34 (S)					6	6.00m to 6.45m (450mm recovery); dense, locally cemented, yellowish brown sand with abundant shell fragments (<1mm x 4mm x 5mm). Sand is fine to coarse.			
								7				
8.00 - 8.45 8.00 - 8.45	D SPT	5	N = 33 (S)					8	8.00m to 8.45m (450mm recovery); dense, locally cemented, yellowish brown sand with abundant shell fragments (<1mm x 4mm x 5mm). Sand is fine to coarse.			
								9				
10.00 - 10.45 10.00 - 10.45	D SPT	6	N = 50 (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 3 of 22
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									10.00m to 10.45m (450mm recovery); dense, locally cemented, yellowish brown sand with abundant shell fragments (<2mm x 5mm x 6mm). Sand is fine to coarse.			
								11				
12.00 - 12.45 12.00 - 12.45	D SPT	7	N = 33 (S)					12	12.00m to 12.45m (410mm recovery); dense, locally cemented, yellowish brown becoming whitish grey sand with abundant shell fragments (<1mm x 4mm x 5mm). Sand is fine to coarse.			
								13		(27.20)		
14.00 - 14.45 14.00 - 14.45	D SPT	8	N = 42 (S)					14	14.00m to 14.45m (360mm recovery); dense, locally cemented, whitish grey sand with abundant shell fragments (<1mm x 4mm x 5mm). Sand is fine to coarse.			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 4 of 22
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
16.00 - 16.45 16.00 - 16.45	D SPT	9	N = 33 (S)					16	16.00m to 16.45m (410mm recovery); dense, locally cemented, whitish grey sand with abundant shell fragments (<1mm x 4mm x 7mm). Sand is fine to coarse.			
								17				
18.00 - 18.45 18.00 - 18.45	D SPT	10	N = 29 (S)					18	18.00m to 18.45m (420mm recovery); medium dense, locally cemented, whitish grey sand with abundant shell fragments (<1mm x 3mm x 4mm). Sand is fine to coarse.			
								19				
20.00 - 20.45 20.00 - 20.45	D SPT	11	N = 35 (S)						Continued next page			

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Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 5 of 22	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									20.00m to 20.45m (450mm recovery); dense, locally cemented, whitish grey sand with abundant shell fragments (<1mm x 3mm x 4mm). Sand is fine to coarse.			
								21				
22.00 - 22.45 22.00 - 22.45	D SPT	12	N = 34 (S)					22	22.00m to 22.45m (450mm recovery); dense light yellowish grey sand with abundant shell fragments (<1mm x 4mm x 6mm). Slightly calcareous. Sand is fine to coarse.			
								23				
24.00 - 24.45 24.00 - 24.45	D SPT	13	N = 48 (S)					24	24.00m to 24.45m (370mm recovery); dense, cemented, light grey, locally grey, sand with frequent shell fragments (<1mm x 2mm x 3mm), and 1 No. subangular fine gravel of weak light grey siltstone. Slightly calcareous. With 1 No. thin bed of grey silty fine and medium sand. Sand is fine to coarse.			
									Continued next page			

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Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 6 of 22
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
26.00 - 26.45 26.00 - 26.45	D SPT	14	N = 38 (S)					26	26.00m to 26.45m (360mm recovery); dense, locally cemented, light grey sand with frequent shell fragments (<1mm x 3mm x 4mm), and 1 No. subrounded fine gravel of mudstone. Slightly calcareous. Sand is fine and medium.			
								27				
									CLAY (Driller's description).	27.20 (0.20)	-35.10	
27.40 - 28.00				100	N/A	N/A			Firm and stiff becoming very stiff fissured brown mottled orangish brown, locally light brown, CLAY. Micaceous. Fissures are extremely closely and very closely spaced, randomly orientated, planar and undulating, smooth, polished, tight, with orangish brown staining. [LONDON CLAY FORMATION, WALTON MEMBER]	27.40	-35.30	
28.00 - 28.45 28.00 - 28.45	D SPT	15	N = 31 (S)					28	28.00m to 28.45m (130mm SPT D recovery); very stiff dark brownish grey clay. 28.00m to 28.45m; recovered as soft and firm (core disturbed by SPT).	(1.20)		
28.00 - 29.00				100	N/A	N/A			28.45m to 28.60m; very stiff.			
									Very stiff fissured dark brown CLAY with rare tubular agglutinated foraminifera (<1mm x 2mm). Micaceous. Fissures are closely spaced, inclined (10-40 degrees and 80-90 degrees), planar, smooth, polished, very tight, locally partly open, occasionally infilled (<0.5mm) with soft brown clay. [LONDON CLAY FORMATION, WALTON MEMBER]	28.60	-36.50	
29.15 - 29.82	C	1						29				
									29.45m to 30.20m; with 1 No. subvertical fissure, partly open, infilled (<0.5mm) with soft brown clay.	(1.90)		
29.00 - 30.50				100	N/A	N/A						
									Continued next page			

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Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 7 of 22	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
30.50 - 32.00	C									30.50	-38.40	
									CLAY (Driller's description). Core runs sealed for laboratory testing. At 30.50m; stiff and very stiff dark brownish grey clay. Micaceous.			
								31				
30.50 - 32.00				100	N/A	N/A						
32.00 - 33.50	C							32	At 32.00m; stiff and very stiff dark brownish grey clay. Micaceous. At 32.01m; very stiff dark brownish grey clay. Micaceous.			
32.00 - 33.50				100	N/A	N/A				(4.50)		
								33				
33.50 - 35.00	C								At 33.50m; very stiff dark brownish grey clay. Micaceous.			
								34				
33.50 - 35.00				100	N/A	N/A						
									At 35.00m; very stiff dark brownish grey clay. Micaceous.	35.00	-42.90	
									Continued next page			

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Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 8 of 22
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
35.21 - 35.26	D	6							Very stiff fissured greyish brown CLAY with frequent becoming rare to locally occasional tubular agglutinated foraminifera (<1mm x 3mm), and rare pockets (<5mm x 10mm) of light grey silt. Micaceous. Fissures are closely and medium spaced, inclined (70-90 degrees), planar, smooth, polished, very tight and tight, occasionally with brown staining. [LONDON CLAY FORMATION, WALTON MEMBER]			
35.26 - 35.37	C	7							At 35.55m to 39.88m; with 2 No. marcasite nodules (10mm x 10mm x 10mm). Below 35.55m; with rare tubular agglutinated foraminifera.			
35.00 - 36.50				100	N/A	N/A		36				
37.03 - 37.43	C	9						37				
36.50 - 38.00				100	N/A	N/A				(4.88)		
								38	At 38.09m; with 1 No. thin lamina/parting of light brown silt.			
									At 38.46m; with 1 No. thin lamina/parting of light brown silt.			
38.00 - 39.50				100	N/A	N/A		39				
									A 39.28m; with 1 No. pyrite nodule (10mm x 30mm). 39.35m to 39.39m; with 1 No. black pyritised wood fragment (15mm x 15mm x 40mm). 39.45m to 39.52m; silty.			
									39.75m to 39.80m; with occasional tubular agglutinated foraminifera.			
									Very stiff dark brown, locally dark greenish brown	39.88	-47.78	
									Continued next page			

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Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**
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Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
39.50 - 41.00				100	N/A	N/A			(glauconitic), slightly sandy silty CLAY with closely and medium spaced thin and thick laminae of light brown fine sandy silt, with frequent to locally abundant pockets/burrows (<10mm x 20mm) infilled with grey silt, brown sandy clay and brown fine sandy silt. Micaceous. Sand is fine and medium. [HARWICH FORMATION, WRABNESS MEMBER] 40.20m to 40.30m; dark greenish brown (glauconitic). 40.45m to 40.47m; with 1 No. black possible pyritised burrow (20mm x 30mm). 40.60m to 40.70m; dark greenish brown (glauconitic).			
								41				
41.00 - 42.50				100	N/A	N/A			41.40m to 41.50m; dark greenish brown (glauconitic).	(3.20)		
								42	42.20m to 42.30m; with 1 No. inclined (30 degrees) fissure, planar, smooth, polished, very tight. 42.27m to 42.37m; with 1 No. inclined (80 degrees) fissure, planar, polished, very tight. 42.39m to 42.42m; very thin bed of pyritic black clay. 42.42m to 42.46m; with abundant pockets/burrows (<5mm x 5mm) infilled with grey silty fine sand.			
42.50 - 44.00				100	N/A	N/A			At 42.92m; with 1 No. pryite nodule (5mm x 10mm).			
								43		43.08	-50.98	
									Very stiff dark brown slightly sandy silty CLAY with occasional pockets (<10mm x 20mm) of grey silt, brown sandy clay and brown fine sandy silt. Micaceous. Sand is fine and medium. [HARWICH FORMATION, WRABNESS MEMBER] 43.08m to 43.11m; very thin bed of very stiff possibly tuffaceous grey clayey silt. 43.13m to 43.22m; with 1 No. inclined (60 degrees) fissure, planar, smooth, tight, with brown staining. At 43.38m; with 1 No. pyrite nodule/infilled burrow (5mm x 30mm).	(0.85)		
								44		43.93	-51.83	
44.00 - 45.50				100	N/A	N/A			Very stiff fissured dark brown silty CLAY with medium and widely spaced, locally very closely and closely spaced thin beds of very stiff grey and black tuffaceous silty clay and silt. Micaceous. Fissures are medium and widely spaced, subhorizontal and inclined (70-90 degrees), planar, smooth, occasionally polished, very tight and tight, occasionally with brown staining. [HARWICH FORMATION, WRABNESS MEMBER] At 43.93m; with 1 No. thin lamina (1mm) of pyrite.			

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Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 10 of 22	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									At 45.37m; with 1 No. thin lamina (3mm) of black possibly pyritic lignite.			
									At 45.63m; with 1 No. thin lamina of dark brown pyritic slightly fine sandy clay. 45.66m to 45.70m; with 1 No. marcasite nodule (20mm x 40mm).	(3.79)		
								46	45.93m to 47.20m; with very closely and closely spaced thin beds of tuffaceous silty clay and silt.			
45.50 - 47.00				100	N/A	N/A						
								47				
47.00 - 48.50				100	N/A	N/A			Very stiff dark greyish brown silty CLAY. Micaceous. [HARWICH FORMATION, WRABNESS MEMBER]	47.72	-55.62	
									At 47.72m; with 1 No. pyrite nodule (10mm x 30mm). 47.77m to 47.93m; with 1 No. subvertical fissure, planar, smooth, tight, with brown staining.			
								48	48.22m to 48.25m; very thin bed of very stiff dark grey tuffaceous clayey silt.	(1.16)		
									48.76m to 48.80m; very thin bed of very stiff dark grey tuffaceous clayey silt. 48.80m to 48.88m; with 1 No. inclined (45 degrees) fissure, planar, smooth, polished and striated, very tight.	48.88	-56.78	
									Medium strong grey, locally dark grey tuffaceous,	(0.12)		
								49	becoming light brown argillaceous LIMESTONE. Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	49.00	-56.90	
48.50 - 50.00				100	8	8			48.88m to 48.91m; slightly weathered. At 48.91m to 48.93m; with vertical, locally inclined (60 degrees), calcite veins (<5mm) (possibly en echelon). 49.93m to 48.95m; dark grey and tuffaceous. Below 48.95m to 49.00m; light brown.			
									Very stiff fissured dark brown and dark greyish brown, locally mottled dark greenish brown (glauconitic), CLAY with medium and widely spaced, locally very closely and closely spaced, very thin and thin beds of very stiff grey becoming dark grey and black			
49.95 - 50.00	D	8										

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Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 11 of 22	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
50.00 - 51.50				100	N/A	N/A			tuffaceous silty clay and silt, with rare to occasional pockets/burrows (<2mm x 2mm) infilled with light brown silty clay. Micaceous. Fissures are medium and widely spaced, inclined (70-90 degrees), planar, smooth, polished and rarely striated, very tight. [HARWICH FORMATION, WRABNESS MEMBER] 49.83m to 50.00m; with extremely closely spaced indistinct thin laminae/partings of brown fine sandy silty. 50.70m to 50.80m; mottled dark greenish brown (glauconitic).			
								51		(4.50)		
51.50 - 53.00				100	N/A	N/A			51.60m to 52.75m; with very closely and closely spaced very thin and thin beds of tuffaceous silty clay and silt. 52.75m to 53.08m; with extremely closely spaced indistinct thin laminae/partings of brown fine sandy silt.			
								52				
								53				
53.00 - 54.50				100	17	17			Strong grey, locally black tuffaceous, argillaceous LIMESTONE. Possible Harwich Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND] 53.57m to 53.65m; black and tuffaceous.	53.50 (0.25) 53.75	-61.40 -61.65	
53.85 - 54.25	C	10						54	Very stiff, locally fissured, dark brown slightly sandy silty CLAY with very closely to medium spaced very thin and thin beds of very stiff dark grey and black tuffaceous silty clay and silt, with rare to occasional pockets/burrows (<2mm x 2mm) infilled with light brown silty clay. Micaceous. Sand is fine and medium. Fissures are subhorizontal and subvertical, planar, smooth, very tight. [HARWICH FORMATION, WRABNESS MEMBER] 53.75m to 53.85m; recovered as soft and firm dark brown clay (assumed drilling disturbed). 54.25m to 54.30m; with 1 No. subvertical fissure. 54.30m to 54.35m; very thin bed of weak dark grey and black tuffaceous mudstone. 54.58m to 54.59m; with 1 No. fissure. 54.58m to 54.75m; with 1 No. fissure. 54.75m to 54.76m; with 1 No. subhorizontal fissure.	(2.04)		

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Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
54.50 - 56.00				100	11	11			55.17m to 55.22m; very thin bed of weak dark grey and black tuffaceous mudstone.			
									Strong dark grey and dark brown argillaceous LIMESTONE. Possibly with 1 No. subvertical incipient fracture. Possible Harwich Clay Formation, Wrabness Member, Harwich Stone Band. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	55.79 (0.16) 55.95	-63.69 -63.85	
56.00 - 57.50				100	N/A	N/A		56	Very stiff very thinly to medium interbedded fissured and locally indistinctly fissured dark brown, locally mottled dark greenish brown (glauconitic), silty CLAY and dark grey and black tuffaceous silty CLAY, with rare to occasional pockets/burrows (<2mm x 2mm) infilled with light brown silty clay. Micaceous. Fissures are extremely closely spaced, randomly orientated, planar, smooth, polished and striated, very tight. [HARWICH FORMATION, WRABNESS MEMBER]			
								57		(2.32)		
									57.40m to 58.27m; with occasional pockets (<10mm x 10mm) of brown fine sandy silt.			
								58	57.88m to 58.10m; mottled dark greenish brown (glauconitic).			
57.50 - 59.00				100	N/A	N/A			Very stiff indistinctly laminated dark brown slightly sandy silty CLAY with frequent becoming occasional pockets/lenses (<5mm x 5mm) of light brown silty fine sand. Micaceous. Sand is fine and medium. Possible Harwich Formation, Orwell Member. [HARWICH FORMATION, ORWELL MEMBER]	58.27	-66.17	
										(1.11)		
								59	59.00m to 59.38m; with occasional pockets/lenses (<2mm x 2mm) of light brown silty fine sand.			
									Very stiff indistinctly fissured dark brown CLAY with to occasional becoming frequent pockets (<5mm x 5mm) and partings (<1mm) of light brown fine sandy silt. Micaceous. Fissures are possibly closely and medium spaced, inclined (0-15 degrees and 40-60 degrees), planar, smooth, polished, very tight. Possible Harwich Clay Formation, Orwell Member. [HARWICH FORMATION, ORWELL MEMBER]	59.38	-67.28	
59.00 - 60.50				100	N/A	N/A						

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Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									At 60.47m; with 1 No. thick lamina of black pyritised tuffaceous silt.			
										(2.77)		
								61	At 60.94m; with 1 No. thick lamina of black pyritised tuffaceous silt. 60.94m to 61.00m; with frequent pockets and partings of light brown fine sandy silt.			
60.50 - 62.00				100	N/A	N/A						
									61.75m to 62.15m; with frequent pockets and partings of light brown fine sandy silt			
								62				
									Firm and stiff indistinctly laminated dark brown very sandy CLAY with frequent pockets (<10mm x 30mm) of light brown and grey silty fine sand. Sand is fine and medium. [HARWICH FORMATION, ORWELL MEMBER]	62.15	-70.05	
										(0.85)		
62.00 - 63.50				100	N/A	N/A			62.67m to 62.77m; with 3 No. subrounded and rounded coarse gravel of brown flint and black possible chert.			
								63		63.00	-70.90	
									Light brown sandy slightly silty GRAVEL. Sand is fine and medium. Gravel is subrounded and rounded, medium and coarse of brown flint and black possible chert. Harwich Formation, Ipswich Member/Ferry Cliff Member, Suffolk Pebble Bed. [HARWICH FORMATION, IPSWICH MEMBER]	(0.04)	-70.94	
									Brownish grey (oxidising to brown) silty SAND with extremely closely to closely spaced thin to thick laminae of light grey and dark grey silty sand and sandy silt. Slightly calcareous. Sand is fine and medium. Undifferentiated Mottled Beds (Reading Formation), Channels Sands. [READING FORMATION]	63.04		
										(1.78)		
								64				
63.50 - 65.00				100	N/A	N/A			64.15m to 64.82; with rare pockets (<5mm x 5mm) of grey, light brown and red clay.			
										64.82	-72.72	
									Firm and stiff brown mottled/gleyed bluish grey silty CLAY with extremely closely to closely spaced thin and	(0.18)		
										65.00	-72.90	

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Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
65.00 - 66.50				100	N/A	N/A			thick laminae of light grey and dark grey silty clay. Slightly calcareous. Slightly micaceous. Undifferentiated Mottled Beds. (Reading Formation). [READING FORMATION]	(0.30)		
									Dark grey mottled black (oxidising to brown) silty SAND. Slightly calcareous. Sand is fine and medium. Undifferentiated Mottled Beds, (Reading Formation), possible Channel Sands. [READING FORMATION] 65.08m to 65.13m; with 2 No. subrounded and rounded coarse gravel of brown flint and black possible chert. 65.28m to 65.30m; with 1 No. subrounded and rounded coarse gravel of brown flint and black possible chert.	65.30	-73.20	
										(0.63)		
								66	Firm and stiff becoming stiff and very stiff microfissured brown and dark brown mottled/gleyed bluish grey silty CLAY with rare to occasional pockets/lenses (<10mm x 30mm) of light brown calcareous silty fine sand. Slightly calcareous. Fissures are possibly extremely closely and very closely spaced, planar, smooth, polished, very tight. Undifferentiated Mottled Beds (Reading Formation). [READING FORMATION] 65.60m to 65.93m; stiff and very stiff. 65.80m to 65.93m; thinly interlaminated with light brown and dark brown calcareous silt.	65.93	-73.83	
										(0.57)		
66.50 - 68.00				77	N/A	N/A			Very stiff dark brown mottled/gleyed bluish grey, locally dark bluish grey and black, silty CLAY with occasional becoming frequent to abundant pockets/lenses (<5mm x 10mm) of light brown calcareous silt. Slightly calcareous. Undifferentiated Mottled Beds (Reading Formation). [READING FORMATION] 66.40m to 66.50m; with frequent to abundant pockets (<5mm x 5mm) of light brown silt.	66.50	-74.40	
										(0.34)		
								67	Clay (Driller's description). ASSUMED ZONE OF CORE LOSS.	66.84	-74.74	
										(0.26)		
									Light brown mottled grey slightly gravelly very silty SAND. Calcareous. Sand is fine and medium. Gravel is subangular fine and medium of light brown calcareous sandstone. Possibly completely weathered calcareous sandstone. Undifferentiated Mottled Beds. (Reading Formation) [READING FORMATION]	67.10	-75.00	
										(0.51)		
									Very strong light brown calcareous. medium grained SANDSTONE. Slightly weathered. Possible undifferentiated Mottled Beds. (Reading Formation). [READING FORMATION]	67.61	-75.51	
										(0.29)		
								68	Light brown slightly gravelly very silty SAND. Calcareous. Sand is fine and medium. Gravel is subangular fine to coarse of light brown calcareous sandstone. Possibly completely weathered calcareous sandstone. Undifferentiated mottled beds (Reading Formation). [READING FORMATION]	67.90	-75.80	
68.00 - 69.50				90	N/A	N/A			Stiff and very stiff dark brown and bluish grey slightly sandy SILT with extremely closely and very closely spaced thin and thick laminae of light brown, dark brown and bluish grey silt. Calcareous. Sand is fine. Undifferentiated Mottled Beds (Reading Formation). [READING FORMATION] 68.00 to 68.15m; assumed zone of core loss.	(1.10)		
								69	Very stiff dark brown mottled/gleyed bluish grey CLAY with extremely closely to closely spaced spaced thin laminae of white calcareous silt. Slightly calcareous. Undifferentiated Mottled Beds (Reading Formation). [READING FORMATION]	69.00	-76.90	
										(1.23)		
									Continued next page			

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FUGRO	Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
	Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**
	Fugro Reference	G190016U	Water Depth (m Datum)	NR	
	Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 15 of 22
	Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
69.50 - 71.00				100	N/A	N/A			Very stiff bluish grey mottled green and red silty CLAY becoming slightly sandy silty clay, with rare to locally frequent pockets (<10mm x 10mm) of white silt. Sand is fine and medium. Undifferentiated Mottled Beds (Reading Formation). [READING FORMATION] 70.23m to 70.29m; dark bluish grey, with frequent pockets (<10mm x 10mm) of white silt. 70.85m to 71.00m; slightly sandy.	70.23 (0.77)	-78.13	
71.00 - 72.50				83	N/A	N/A		71	Bluish grey mottled yellowish brown and red very silty SAND, locally with frequent weak red ferruginous concretions (<50mm x 200mm). Slightly calcareous. Sand is fine. Undifferentiated Mottled Beds (Reading Formation), possible Channel Sands. [UPNOR FORMATION] 71.20m to 71.65m; with frequent ferruginous concretions.	71.00 (1.10)	-78.90	
								72	71.97m to 72.10m; with extremely closely spaced thin laminae of light bluish grey, dark bluish grey and brown silty sand.	72.10	-80.00	
									Dark greyish brown very silty SAND. Sand is fine. Undifferentiated Mottled Beds (Reading formation), possible Channels Sands. [UPNOR FORMATION]	(0.15) 72.25	-80.15	
									Clay/sand (Lower Mottled Beds) (Driller's Description). ASSUMED ZONE OF CORE LOSS.	(0.25) 72.50	-80.40	
72.50 - 74.00				60	N/A	N/A		73	Greyish brown very silty SAND with extremely closely spaced cross-bedded (0-15 degrees) laminae of dark brown sandy clay. Sand is fine. Possible Woolwich Formation. [UPNOR FORMATION] 72.75m to 72.80m; very thin bed of very stiff dark brown clay. Micaceous. 72.98m to 73.06m; thin bed of very stiff dark brown clay with rare pockets (<10mm x 20mm) of light brown silty fine sand. Micaceous. 73.19m to 73.30m; thin bed of very stiff dark brown clay with rare pockets (<10mm x 30mm) of light brown silty fine sand. Micaceous.	(0.90) 73.40	-81.30	
									Clay/sand (Lower Mottled Beds) (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.60)		
74.00 - 75.50				100	100	90		74	Very weak and weak, locally very weak, dark brownish grey indistinctly mottled dark green (glauconitic), locally dark greenish grey and greyish green (glauconitic), MUDSTONE with frequent burrows (<3mm x 25mm) infilled with grey silty clay and pyritic silty clay, and some to frequent tubular agglutinated foraminifera (<1mm x 3mm). Fractures are very closely to medium spaced, randomly orientated, planar and locally undulating, smooth, polished and locally striated (possibly sheared), tight and occasionally very tight, with some dark brown, brown, dark grey and dark green staining. Partially weathered, locally distinctly weathered. [LISTA FORMATION, ORMESBY CLAY MEMBER,	74.00	-81.90	

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 16 of 22	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
74.00 - 77.00							20 130 310		OC3]	(3.00)		
75.50 - 77.00				100	100	82		76				
76.32 - 77.00							30 85 175		76.87m to 77.00m; thin bed of very weak dark greenish grey and greyish green (glauconitic) distinctly weathered arenaceous mudstone. Sand is fine and medium.			
77.00 - 77.37							50 85 150	77	Very weak and weak dark brownish grey indistinctly mottled dark greyish green (glauconitic) MUDSTONE with abundant pockets/lenses (<15mm x 25mm) of light greyish brown and light brown silty fine sand, frequent burrows (<3mm x 20mm) infilled with grey silty clay and pyritic silty clay, and some to frequent tubular agglutinated foraminifera (<1mm x 2mm). Fractures are closely and medium spaced, locally very closely spaced, inclined (30-90 degrees), planar, smooth, locally polished and striated (possibly sheared), tight, locally very tight, with black and brown staining. Partially weathered. [LISTA FORMATION, ORMESBY CLAY MEMBER, OC3]	77.00	-84.90	
77.37 - 77.80							-			(0.80)		
77.00 - 78.50				100	97	97	450 -	78	77.00m to 77.15m; with extremely closely spaced indistinctly thin laminae of light greyish brown and light brown silty fine sand.	77.80	-85.70	
77.80 - 80.16							40 200 405	79	Very weak and weak dark brownish grey MUDSTONE with extremely closely and very closely spaced thin laminae, locally indistinct thin laminae, of light greyish brown and light brown silty fine sand, with frequent pockets/lenses (<10mm x 20mm) of light greyish brown and light brown silty fine sand, frequent burrows (<2mm x 20mm) infilled with grey silty clay and pyritic silty clay, and some to frequent tubular agglutinated foraminifera (<1mm x 2mm). Locally slightly calcareous and calcareous. Fractures are closely and medium spaced, locally very closely spaced, randomly orientated, planar, locally curviplanar, rough, occasionally smooth, occasionally polished and locally striated (possibly sheared), partly open and open, occasionally tight, infilled (<1mm) with brown, locally dark greenish grey, silty fine sand, with brown, black and dark greenish grey staining. Partially weathered. [LISTA FORMATION, ORMESBY CLAY MEMBER, OC3]			
78.50 - 80.00				100	100	91			77.80m to 78.00m; with indistinct thin laminae. 78.50m to 79.00m; with indistinct thin laminae. 79.44m to 79.46m; thick lamina of dark greyish green (glauconitic) mudstone.			
									At 79.95m; with 1 No. elongated dark greyish black			
									Continued next page			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 17 of 22	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									possible lignite fragment (5mm x 50mm).			
										(4.70)		
									80.20m to 80.82m; with indistinct thin laminae.			
									80.44m to 81.70m; slightly calcareous and calcareous.			
80.00 - 81.50				100	97	89						
								81				
80.16 - 82.20							70 340 520		81.20m to 81.50m; with indistinct thin laminae.			
								82				
81.50 - 83.00				100	93	83			82.19m to 82.50m; medium bed of very weak dark greenish grey (glauconitic) distinctly weathered arenaceous mudstone. Sand is fine and medium.			
82.20 - 82.50							55 75 100					
									Very weak and weak dark brownish grey and dark grey becoming dark brownish grey mottled dark reddish brown MUDSTONE with extremely closely and very closely spaced indistinct thin laminae of light greyish brown and light brownish grey silty fine sand, with frequent burrows (<2mm x 20mm) infilled with light grey silty clay, some to frequent pockets/lenses (<10mm x 20mm) of light greyish brown and light brownish grey silty fine sand, and some tabular agglutinated foraminifera (<1mm x 2mm). Fractures are very closely to medium spaced, inclined (5-70 degrees), planar, smooth, very tight to partly open, locally infilled with brown and dark grey silty fine sand, locally with brown staining. Partially weathered. Possibly Lista Formation, Ormesby Clay Member, OC3/OC2. [LISTA FORMATION, ORMESBY CLAY MEMBER, OC3]	82.50	-90.40	
82.50 - 83.40							40 150 590	83		(0.90)		
									83.24m to 83.40m; dark browish grey mottled dark reddish brown.	83.40	-91.30	
83.00 - 84.50 83.40 - 84.20				80	80	80	30 265 630			(0.80)		
								84	Very weak and weak dark reddish brown and purplish brown mottled dark grey MUDSTONE with extremely closely and very closely spaced thin laminae of light reddish brown silty fine sand, with frequent burrows (<2mm x 20mm) infilled with light reddish brown and grey silty clay, rare to occasional tubular agglutinated foraminifera (<1mm x 2mm), and some to frequent pockets/lenses (<10mm x 20mm) of light reddish brown silty fine sand. Fractures are very closely to widely spaced, subhorizontal and inclined (35 degrees), planar, smooth, tight and partly open, locally infilled with brown and grey silty fine sand, locally with brown staining. Partially weathered. Possibly Lista Formation, Ormesby Clay Member, OC2. [LISTA FORMATION, ORMESBY CLAY MEMBER, OC2]	84.20	-92.10	
84.20 - 84.50							NR			(0.30)		
										84.50	-92.40	
84.50 - 84.82							- 310 -					
84.82 - 85.17										(1.00)		

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 18 of 22
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
							80 90 100		Clay (Driller's description). ASSUMED ZONE OF CORE LOSS.			
84.50 - 86.00 85.17 - 85.50				100	100	89	- 330 -		Very weak and weak dark reddish brown and purplish brown mottled dark brownish red MUDSTONE, with extremely closely and very closely spaced indistinct thin laminae of light reddish brown silty fine sand, with frequent burrows (<2mm x 20mm) infilled with light reddish brown and grey silty clay, and some pockets/ lenses (<10mm x 15mm) of light reddish brown silty fine sand. Fractures are closely and medium spaced, inclined (10-30 degrees) and subvertical, planar locally curviplanar, smooth, locally polished, tight and partly open, infilled (<0.5mm) with reddish brown silty fine sand, with dark grey and black staining. Partially weathered.	85.50	-93.40	
85.50 - 86.25							315 - 390	86	[LISTA FORMATION, ORMESBY CLAY MEMBER, OC2]	(1.20)		
									84.50m to 84.62m; non intact (assumed drilling induced). Recovered as angular and subrounded very weak and weak dark reddish brown and purplish brown mudstone fragments (<30mm x 35mm x 50mm).			
86.25 - 86.70							30 85 190		Very weak and weak becoming very weak dark greenish grey (slightly glauconitic) arenaceous MUDSTONE with extremely closely and very closely spaced indistinct thin laminae of light grey and grey silty fine sand, with some to frequent pockets/lenses (<10mm x 15mm) of light grey and grey silty fine sand, and occasional indistinct burrows (<1mm x 10mm) infilled with light grey silty fine sand. Sand is fine and medium. Fractures are closely and medium spaced, locally very closely spaced, inclined (20-70 degrees), planar and undulating, rough, polished and striated (possibly sheared), tight and partly open, infilled (<0.5mm) with grey and dark greenish grey (possibly glauconitic) silty fine sand, with dark greenish grey staining. Partially weathered becoming distinctly weathered.	86.70	-94.60	
86.00 - 87.50				100	93	90						
86.70 - 87.35							110 150 380	87		(0.65)		
87.35 - 87.50							NA			87.35 (0.15) 87.50	-95.25 -95.40	
									[LISTA FORMATION, ORMESBY CLAY MEMBER, OC1]			
									86.27m to 86.70m; very weak. Distinctly weathered.			
87.50 - 89.00 87.50 - 89.15				100	91	91	160 550 740	88	Weak dark greyish green mottled dark green (very glauconitic) arenaceous becoming conglomeratic MUDSTONE. Clasts are subrounded to well rounded mainly fine and medium gravel of yellowish brown slightly weathered chert/flint, and subangular and subrounded fine and rarely medium gravel of very weak dark green claystone. Fractures are closely and medium spaced, subhorizontal and inclined (35 degrees), planar, smooth, tight and partly open, locally infilled (<0.5mm) with dark greenish grey silty fine sand, with greyish green (glauconitic) staining. Partially weathered.			
									[LISTA FORMATION, ORMESBY CLAY MEMBER, OC1]			
									87.00m to 87.35m; conglomeratic.			
									Recovered as dark greyish green (glauconitic), locally brown, slightly sandy slightly clayey GRAVEL with low cobble content (possibly drilling disturbed). Sand is medium. Gravel is mainly angular and subangular medium and coarse of black and brown slightly weathered and moderately weathered flint. Ormesby Clay Member, OC1, Bullhead Beds.	(2.67)		
89.15 - 89.41							NI	89	[LISTA FORMATION, ORMESBY CLAY MEMBER, OC1]			
									87.40m to 87.50m; with 1 No. possibly large nodular flint (100mm x full core diameter).			
89.00 - 90.50 89.41 - 90.17				100	80	80	- 760 -		Very weak and weak medium density off white CHALK with rare flint fragments (<25mm x 60mm x 65mm) (assumed drilling fragmented, possibly whole medium nodular flint), and some burrows (<35mm x 70mm) infilled with grey marly chalk. Fractures are medium and wide spaced, inclined (65-85 degrees), planar and locally undulating, smooth and rough, occasionally polished and striated (possibly sheared), very tight and			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 19 of 22	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
90.17 - 90.60							- 430 -		tight, with dark grey staining. CIRIA Grade B2/B1. Possible Beeston Chalk.	90.17	-98.07	
90.60 - 91.09							NI	91	[BEESTON CHALK] 87.67m to 87.75m; non intact (assumed drilling disturbed). Recovered as subangular chalk fragments (<15mm x 20mm x 25mm). Possibly with fractures. 88.40m to 88.47m; partially non intact (assumed drilling induced). Recovered as subangular chalk fragments (<15mm x 20mm x 45mm) with 1 No. angular flint fragment (8mm x 10mm x 25mm). 88.67m to 88.80m; non intact (assumed drilling induced). Recovered as subangular chalk fragments (<10mm x 25mm x 35mm) with 1 No. angular possibly medium nodular flint (25mm x 60mm x 65mm). 89.15m to 89.41m; non intact (assumed drilling disturbed). Recovered as angular and subangular chalk fragments (<40mm x 70mm x 80mm), with occasional to some spiral-shaped worm cast fragments (<10mm x 10mm) and 1 No. intact brachiopod shell (20mm x 20mm), locally with greyish brown staining. At 89.72m; with occasional dark grey coral/sponge fragments (<3mm x 25mm x 25mm). At 89.90m; with rare grey bivalve (inoceramid) shell fragments (<5mm x 5mm). 90.00m to 90.08m; non intact. Recovered as subrounded and rounded fragments (<10mm x 20mm x 20mm) of firm and stiff grey plastic marly chalk. Probable marl seam.	(1.23)		
91.09 - 91.40 90.50 - 92.00				100	67	67	- 310 -			91.40	-99.30	
91.66 - 92.00	C	2							Moderately weak, locally very weak and weak, high and very high density, locally medium density, off white, locally mottled greyish brownish (phosphatic), bluish grey and dark green (glauconitic), CHALK (hardground), locally modular chalk, with frequent dark grey sponge fragments (<40mm x 60mm). Fracture is subvertical, planar and locally curviplanar, rough, possibly very tight. CIRIA Grade undetermined. Weybourne Chalk, Catton Sponge Bed.			
91.40 - 92.90							- 1500 -	92	[WEYBOURNE CHALK] At 90.17m; with 1 No. subrounded glauconite coated chalk nodule (40mm x 60mm). 90.28m to 90.45m; non intact (assumed drilling induced). Recovered as angular and subangular chalk/chalkstone fragments (<40mm x 50mm x 70mm). 90.50m to 90.60m; with abundant glauconite patches/ staining (<20mm x 40mm x 50mm). 90.60m to 91.09m; non intact. Recovered as angular to subrounded chalk/chalkstone fragments (<60mm x 70mm x 100mm), with frequent dark grey and light grey sponge fragments (<40mm x 60mm), locally with greyish brown (phosphatic), bluish grey and dark green (glauconitic) staining/motting. 91.09m to 91.29m; thin bed of weak and very weak medium density off white chalk. 91.27m to 91.29m; with 1 No. inclined (15 degrees) thick lamina of firm and stiff grey plastic marly chalk. Probable marl seam.	(1.50)		
92.00 - 93.50				60	51	51				92.90	-100.80	
92.90 - 93.50							NR	93	Extremely weak to weak low and medium density off white CHALK with some burrows (<35mm x 70mm) infilled with grey marly chalk, locally with some very small to medium nodular flint (<45mm x 60mm x 80mm). Natural fractures not observed. CIRIA Grade undetermined.			
93.50 - 93.65							- 150 -		[WEYBOURNE CHALK] 92.00m to 92.08m; non intact (assumed drilling induced). Recovered as moderately weak high and very high density off white, locally mottled greyish brown (phosphatic), angular and subangular chalk (hardground) fragments (<30mm x 50mm x 60mm). 92.08m to 92.12m; non intact (assumed drilling induced). Recovered as subrounded chalk fragments (<20mm x <40mm x 40mm). 92.42m to 92.50m; with 3 No. subrounded very small to medium (25mm x 25mm to 45mm x 60mm x 80mm) nodular flints. At 92.85m; with 1 No. subhorizontal burrow (possible Zoophycos streak) (5mm x 90mm) infilled with grey marly chalk.			
93.50 - 95.00				10	6	0		94		(2.70)		MR/ AZCL
93.65 - 95.75							NR		Chalk (Driller's description). ASSUMED ZONE OF CORE LOSS/POOR RECOVERY. 93.50m to 93.65m; recovered as 2 No. subangular flint fragments (<80mm x full core diameter).			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 20 of 22	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
95.00 - 95.60				0	0	0						
										95.60	-103.50	
									Extremely weak to weak low and medium density off white CHALK, with frequent burrows (<30mm x 80mm) infilled with grey marly chalk, and rare dark greyish black sponges. Fractures are medium and widely spaced, subhorizontal, planar, rough, very tight. CIRIA Grade A2/A1.			
95.98 - 96.27	C	3						96	[WEYBOURNE CHALK]			
95.60 - 96.50				100	100	100			95.75m to 95.81m; non intact (assumed drilling induced). Recovered as soft comminuted chalk (clayey silt) with 1 No. possibly branched flint (50mm x 90mm x 90mm).			
									96.45m to 96.50m; with 1 No. inclined (15-20 degrees) thick lamina (10mm) with abundant dark greyish black sponge fragments. 96.50m to 96.55m; non intact (assumed drilling induced). Recovered as subrounded off white chalk and grey marly chalk fragments (<35mm x 40mm x 45mm).			
								97				
96.50 - 98.00				100	100	100			97.15m to 97.35m; with abundant networked burrows (<30mm x 80mm) infilled with grey marly chalk.			
95.75 - 99.30							520 850 1180			(3.70)		
								98				
									98.30m to 98.40m; non intact (assumed drilling induced). Recovered as subrounded chalk fragments (<20mm x 20mm x 25mm), with 1 No. flint fragment (10mm x 30mm x 30mm), possibly small whole nodular flint.			
98.00 - 99.50				100	100	100						
								99				
										99.30	-107.20	
99.30 - 99.55							- 250		Possibly moderately weak high and very high density off white, locally mottled greyish brown and bluish grey (possibly phosphatic), CHALK and locally nodular chalk (hardground). Recovered as non intact core (assumed drilling induced) of angular and subangular fragments (<40mm x 50mm x 65mm). CIRIA Grade undetermined. Possible Pre-Weybourne Chalk.	(0.25)		
										99.55	-107.45	
99.86 - 100.26	C	4							[PRE-WEYBOURNE CHALK] Very weak and weak low and medium density off white CHALK with frequent becoming occasional burrows			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 21 of 22
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
99.50 - 101.00				100	100	100	- 2170 -		(<35mm x 65mm) infilled with grey marly chalk. Fractures are medium to very widely spaced, inclined (10-15 degrees), planar, rough, very tight. CIRIA Grade A2/A1. Possible Pre-Weybourne Chalk. [PRE-WEYBOURNE CHALK]			
99.55 - 101.73								101	At 100.39m; with 1 No. lens (5mm x 25mm) of glauconite.	(3.85)		
101.00 - 102.50				100	100	100	- 400 -		At 101.75m; with rare grey sponge remnants (20mm x 20mm).			
101.73 - 102.13								102	102.45m to 102.50m; non intact (assumed drilling induced). Recovered as firm off white comminuted chalk (clayey silt) with subangular and subrounded chalk fragments (<10mm x 10mm x 15mm). 102.50m to 103.94m; with rare to occasional possible belemnite fragments (Belemnitella) (<15mm x 45mm).			
102.13 - 103.40							- 1285 -					
102.50 - 104.00				100	100	100		103		103.40	-111.30	
									Very weak and weak low and medium density greyish white CHALK with occasional medium nodular flint (<100mm x 100mm), abundant burrows (<30mm x 45mm x 75mm) infilled with grey marly chalk, and rare to some black sponge remnants (35mm x 70mm). Fractures are widely and very widely spaced, inclined (5-15 degrees), planar and locally undulating, rough, very tight and tight, locally with light brown staining. CIRIA Grade B1/A1. Possible Pre-Weybourne Chalk. [PRE-WEYBOURNE CHALK]			
104.00 - 105.50				100	100	100		104	103.40m to 103.75m; with rare echinoid spines (<3mm x 20mm). 103.75m to 104.00m; non intact (assumed drilling induced). Recovered as subrounded chalk fragments (<15mm x 20mm x 45mm) and rare angular flint fragments (<10mm x 10mm x 10mm) with some off white comminuted chalk (clayey silt). 104.48m to 104.53m; non intact (assumed drilling induced). Recovered as subangular and subrounded chalk fragments (<15mm x 20mm x 45mm) with 1 No. medium nodular flint (50mm x 80mm x 90mm).			
103.40 - 106.60												

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 22 of 22	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
							630 750 1740					
									105.31m to 105.45m; grey marly chalk, locally recovered as soft and firm comminuted chalk (clayey silt) (assumed drilling induced). 105.45m to 105.50m; non intact (assumed drilling induced). Recovered as off white comminuted chalk (clayey silt).			
105.50 - 107.00 106.27 - 106.60	C	5		100	100	100		106	106.03m to 106.13m; non intact (assumed drilling induced). Recovered as off white comminuted chalk (clayey silt), with 1 No. medium nodular flint (100mm x full core diameter).	(6.60)		
107.00 - 108.50				100	100	100		107	106.85m to 107.00m; non intact (assumed drilling induced). Recovered as firm off white comminuted chalk (clayey silt) with some subrounded chalk fragments (<20mm x 20mm x 20mm).			
106.60 - 110.00							- 3400 -	108	At 108.25m; with 1 No. bivalve shell fragment (20mm x 20mm). 108.35m to 108.50m; non intact (assumed drilling induced). Recovered as firm off white comminuted chalk (clayey silt). At 108.60m; with 1 No. bivalve shell fragment (40mm x 40mm).			
108.50 - 110.00				100	100	100		109	108.92m to 109.04m; non intact (assumed drilling induced). Recovered as off white comminuted chalk (clayey silt) with subangular chalk fragments (<25mm x 25mm x 35mm) and 1 No. subrounded medium nodular flint (60mm x 70mm x 100mm).			
									109.91m to 110.00m; non intact (assumed drilling induced). Recovered as soft and firm off white comminuted chalk (clayey silt) with subangular and subrounded chalk fragments (<10mm x 10mm x 15mm) and rare flint fragments (<10mm x 10mm x 10mm).			
									End of Borehole at 110.00 m	110.00	-117.90	

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

	Contract Name	SZC 2019 Offshore Ground Investigation		Location ID
	Client	NNB Generation Company (SZC) Limited		**OT_SPT_03**
	Fugro Reference	G190016U		
	Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum) -7.90	Sheet 1 of 22
	Hole Type	Discontinuity Log		Status Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
0.00 - 27.40								Rotary drilling (NCD).			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**
Fugro Reference	G190016U			
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 2 of 22
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									6 7 8 9		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

	Contract Name	SZC 2019 Offshore Ground Investigation		Location ID
	Client	NNB Generation Company (SZC) Limited		**OT_SPT_03**
	Fugro Reference	G190016U		
	Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum) -7.90	Sheet 3 of 22
	Hole Type	Discontinuity Log		Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									11		
									12		
									13		
									14		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

	Contract Name	SZC 2019 Offshore Ground Investigation		Location ID
	Client	NNB Generation Company (SZC) Limited		**OT_SPT_03**
	Fugro Reference	G190016U		
	Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum) -7.90	Sheet 4 of 22
	Hole Type	Discontinuity Log		Status Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									16		
									17		
									18		
									19		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

	Contract Name	SZC 2019 Offshore Ground Investigation		Location ID
	Client	NNB Generation Company (SZC) Limited		**OT_SPT_03**
	Fugro Reference	G190016U		
	Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum) -7.90	Sheet 5 of 22
	Hole Type	Discontinuity Log		Status: Draft

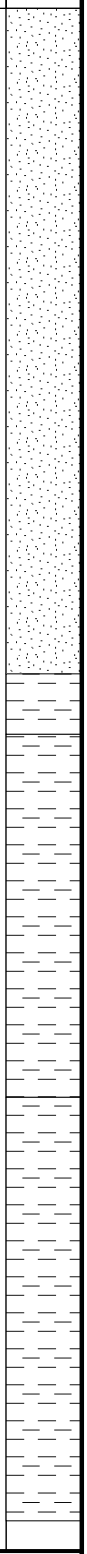
Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									21		
									22		
									23		
									24		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

	Contract Name	SZC 2019 Offshore Ground Investigation		Location ID
	Client	NNB Generation Company (SZC) Limited		**OT_SPT_03**
	Fugro Reference	G190016U		
	Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum) -7.90	Sheet 6 of 22
	Hole Type	Discontinuity Log		Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
27.40 - 110.00								Rotary drilling (Geobor).			



Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

	Contract Name	SZC 2019 Offshore Ground Investigation		Location ID
	Client	NNB Generation Company (SZC) Limited		**OT_SPT_03**
	Fugro Reference	G190016U		
	Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum) -7.90	Sheet 7 of 22
	Hole Type	Discontinuity Log		Status Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									31		
									32		
									33		
									34		

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**
Fugro Reference	G190016U			
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 8 of 22
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									36		
									37		
									38		
									39		

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

	Contract Name	SZC 2019 Offshore Ground Investigation		Location ID
	Client	NNB Generation Company (SZC) Limited		**OT_SPT_03**
	Fugro Reference	G190016U		
	Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum) -7.90	Sheet 9 of 22
	Hole Type	Discontinuity Log		Status Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									41 42 43 44		

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

	Contract Name	SZC 2019 Offshore Ground Investigation		Location ID
	Client	NNB Generation Company (SZC) Limited		**OT_SPT_03**
	Fugro Reference	G190016U		
	Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum) -7.90	Sheet 10 of 22
	Hole Type	Discontinuity Log		Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									46 47 48 49		

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**
Fugro Reference	G190016U			
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 11 of 22
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									51		
									52		
									53		
									54		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**
Fugro Reference	G190016U			
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 12 of 22
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									56 57 58 59		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**
Fugro Reference	G190016U			
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 13 of 22
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									61 62 63 64		

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**
Fugro Reference	G190016U			
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 14 of 22
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									66		
									67		
									68		
									69		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**
Fugro Reference	G190016U			
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 15 of 22
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
74.00								Top of mudstone.	74	45 °	
74.00 - 74.05	J	45		Tight	Planar	Polished		Planar and locally undulating, polished and striated (possibly sheared), locally with dark blue and dark brown staining.		50 °	
74.06 - 74.14	J	50		Very tight	Planar	Polished		Polished and striated (possibly sheared).			
74.35 - 74.36	J	20		Very tight	Planar	Polished		Polished and striated (possibly sheared).		20 °	
74.37 - 74.43	J	45		Tight	Planar	Polished		Planar and locally undulating, locally with dark brown staining.		45 °	
74.50 - 74.60	J	75		Very tight	Planar	Polished		Polished and striated (possibly sheared).		75 °	
74.63 - 74.67	J	30		Tight	Undulating	Polished		Polished and striated (possibly sheared), locally with dark brown staining.		30 °	
74.81 - 74.83	J	20		Tight	Planar	Smooth		With brown staining.		20 °	
75.00 - 75.06	J	60		Very tight	Planar	Polished				60 °	

Notes

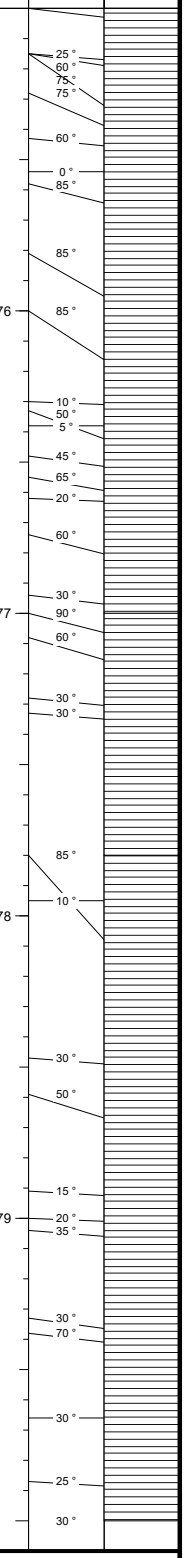
- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**
Fugro Reference	G190016U			
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 16 of 22
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details

Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks
75.15 - 75.19	J	25		Tight	Planar	Polished		Locally with brown and black staining.
75.15 - 75.23	J	60		Tight	Planar	Smooth		Smooth, locally polished, locally with brown staining.
75.15 - 75.50	J	75		Tight	Planar	Smooth		Planar and locally undulating, locally with dark brown, black and green (glauconitic) staining.
75.28 - 75.50	J	75		Tight	Planar	Smooth		Planar and locally undulating, locally with dark brown and black staining.
75.43 - 75.48	J	60		Tight	Planar	Polished		Polished and striated (possibly sheared), locally with dark brown staining.
75.54	J	0		Very tight	Planar	Polished		
75.58 - 75.71	J	85		Tight	Planar	Polished		Locally with brown and black staining.
75.81 - 76.10	J	85		Tight	Curviplanar	Polished		Inclined (75-90 degrees), locally with brown and black staining.
76.00 - 76.33	J	85		Tight	Curviplanar	Polished		Inclined (80-90 degrees), locally with black staining.
76.30 - 76.32	J	10		Tight	Planar	Polished		Planar and locally undulating, with brown and black staining.
76.33 - 76.52	J	50		Tight	Planar	Polished		Polished and striated (possibly sheared), locally dark brown and black staining.
76.38	J	5		Tight	Planar	Polished		With brown and black staining.
76.48 - 76.55	J	45		Tight	Undulating	Polished		Locally with brown and black staining.
76.55 - 76.64	J	65		Tight	Planar	Polished		Polished and striated (possibly sheared), locally black and brown staining.
76.62 - 76.64	J	20		Tight	Planar	Smooth		Locally with dark greyish green (possibly glauconitic) staining.
76.74 - 76.87	J	60		Tight	Planar	Polished		Polished and striated (possibly sheared), with slightly dark grey staining.
76.94 - 77.00	J	30		Tight	Planar	Smooth		With brown and dark green staining.
77.00 - 77.13	J	90		Tight	Planar	Smooth		Locally with brown and black staining.
77.08 - 77.23	J	60		Very tight	Planar	Polished		Polished and striated (possibly sheared).
77.28 - 77.33	J	30		Tight	Planar	Smooth		Locally with brown and black staining.
77.33 - 77.37	J	30		Tight	Planar	Smooth		Locally with brown and black staining.
77.80 - 78.37	J	85		Partly Open	Planar	Rough		Locally infilled (<0.5mm) with brown silty fine sand, locally with black and reddish brown staining.
77.95	J	10	1	Open	Planar	Rough		Locally infilled (<1mm) with brown silty fine sand, locally with black and reddish brown staining.
78.47 - 78.51	J	30		Partly Open	Planar	Rough		Locally infilled (<0.5mm) with brown silty fine sand, locally with black and brown staining.
78.59 - 78.75	J	50		Very tight	Planar	Polished		
78.91 - 78.94	J	15		Partly Open	Planar	Rough		Locally infilled (<0.5mm) with brown silty fine sand, locally with black and brown staining.
79.00 - 79.02	J	20		Tight	Planar	Polished		Locally with brown and dark bluish grey staining.
79.04 - 79.08	J	35		Partly Open	Planar	Rough		Rough, locally polished and striated (possibly sheared), infilled (<0.5mm) with brown silty fine sand, locally with dark brownish green (possibly glauconitic) staining.
79.33 - 79.40	J	30		Partly Open	Planar	Rough		Infilled (<0.5mm) with greenish brown (possibly glauconitic) silty fine sand.
79.38 - 79.44	J	70		Partly Open	Planar	Rough		Infilled (<0.5mm) with greenish brown (possibly glauconitic) silty fine sand, locally with dark green (glauconitic) staining.
79.66	J	30	1	Open	Planar	Rough		Locally infilled (<1mm) with brown silty fine sand, locally with black and dark greyish green (possibly glauconitic) staining.
79.87 - 79.90	J	25		Partly Open	Planar	Rough		Locally infilled (<0.5mm) with brown silty fine sand, locally with black and dark greyish green (possibly glauconitic) staining.
80.00 - 80.03	J	30		Partly Open	Planar	Rough		Locally infilled (<0.5mm) with brown silty fine sand, locally with black and dark greyish green (possibly glauconitic) staining.

Discontinuity Information



Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**
Fugro Reference	G190016U			
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 17 of 22
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
80.05 - 80.10	J	30		Partly Open	Planar	Smooth		Smooth and locally undulating, locally infilled (<0.5mm) with brown silty fine sand, locally with dark greyish green (possibly glauconitic) staining.		30 °	
80.14 - 80.16	J	20		Partly Open	Planar	Smooth		Planar and locally undulating, smooth, polished, locally infilled (<0.5mm) with greyish brown silty fine sand.		20 °	
80.45 - 80.89	J	80		Tight	Curviplanar	Polished		Inclined (70-90 degrees), locally with black and brown staining.		80 °	
80.92	J	5		Partly Open	Planar	Rough		Infilled (<0.5mm) with brownish grey and light grey silty fine sand.		5 °	
									81		
81.08 - 81.20	J	70		Tight	Curviplanar	Smooth		Locally with brown and black staining.		70 °	
81.20 - 81.22	J	10		Tight	Planar	Polished		Locally with brown and black staining.		10 °	
81.70	J	5		Partly Open	Planar	Rough		Locally infilled (<0.5mm) with brown and grey silty fine sand.		5 °	
									82		
82.19 - 82.20	J	15		Partly Open	Planar	Rough		Locally infilled (<0.5mm) with dark greenish brown (possibly glauconitic) and grey silty fine sand.		15 ° 50 °	
82.22 - 82.35	J	50		Open	Planar	Polished		Polished and locally striated (possibly sheared), infilled (<1mm) with dark greenish grey (possibly glauconitic) clayey fine sand.		65 °	
82.26 - 82.42	J	65	1	Open	Planar	Rough		Locally infilled (<1mm) with dark greenish grey (possibly glauconitic) silty fine sand.		30 °	
82.42 - 82.46	J	30		Partly Open	Planar	Rough		Locally infilled (<0.5mm) with brown and dark greenish grey (possibly glauconitic) silty fine sand.			
82.69 - 82.71	J	5		Very tight	Planar	Smooth				5 °	
									83		
83.27 - 83.31	J	30		Partly Open	Planar	Smooth		Locally infilled (<0.5mm) with brown and dark grey silty fine sand.		30 ° 70 °	
83.29 - 83.43	J	70		Tight	Planar	Smooth		Locally with brown staining.			
83.40 - 83.46	J	35		Tight	Planar	Smooth		Locally with brown staining.		35 °	
									84		
84.04 - 84.08	J	10		Partly Open	Planar	Smooth		Locally infilled (<0.5mm) with brown and grey silty fine sand.		10 °	
84.20 - 84.50								Assumed zone of core loss.			
84.80 - 84.82	J	15		Tight	Planar	Smooth		Locally with dark grey and black staining.		15 °	
84.80 - 85.00	J	80		Tight	Curviplanar	Polished		Locally with dark grey and black staining.		80 °	
85.00	J	5		Partly Open	Planar	Smooth		Locally infilled (<0.5mm) with reddish brown silty fine sand.		5 °	

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**
Fugro Reference	G190016U			
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 18 of 22
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
85.05 - 85.11	J	30		Partly Open	Planar	Smooth		Locally infilled (<0.5mm) with reddish brown silty fine sand.		30 °	
85.16 - 85.18	J	0		Tight	Planar	Smooth		Smooth, locally polished, locally with dark grey and black staining.		0 °	
85.76 - 85.87	J	70		Tight	Planar	Polished		Polished and striated (possibly sheared), locally with dark greenish grey (possibly glauconitic) staining.		70 °	
									86		
86.16 - 86.25	J	40		Partly Open	Undulating	Rough		Locally infilled (<0.5mm) with grey and dark greenish grey (locally possibly glauconitic) silty fine sand.		40 °	
86.21 - 86.30	J	40		Partly Open	Undulating	Rough		Locally infilled (<0.5mm) with grey and dark greenish grey (locally possibly glauconitic) silty fine sand.		40 °	
86.38	J	25		Tight	Undulating	Polished		Polished and striated (possibly sheared), locally with dark greenish grey (possibly glauconitic) staining.		25 °	
86.38 - 86.43	J	30		Tight	Planar	Polished		Polished and striated (possibly sheared), locally with dark greenish grey (possibly glauconitic) staining.		30 °	
86.43 - 86.52	J	70		Partly Open	Planar	Rough		Locally infilled (<0.5mm) with grey and dark greenish grey (locally possibly glauconitic) silty fine sand.		70 °	
86.65 - 86.68	J	20		Partly Open	Planar	Rough		Locally infilled (<0.5mm) with grey and dark greenish grey (locally possibly glauconitic) silty fine sand..		20 °	
									87		
87.06 - 87.10	J	35		Tight	Planar	Smooth		With dark greyish green (glauconitic) staining.		35 °	
87.19 - 87.20	J	10		Partly Open	Planar	Smooth		Locally infilled (<0.5mm) with dark greenish grey (possibly glauconitic) silty fine sand.		10 °	
87.50								Top of chalk.			
87.67 - 87.75								Non intact (assumed drilling disturbed). Recovered as subangular chalk fragments (<15mm x 20mm x 25mm). Possibly with fractures.		85 °	
87.67 - 88.17	J	85		Tight	Planar	Polished		Planar and locally undulating, polished and striated (possibly sheared), with dark greyish brown staining.		65 °	
87.70 - 87.81	J	65		Tight	Planar	Polished		Polished and striated (possibly sheared), with dark greyish brown staining.			
									88		
88.34 - 88.49	J	70		Very tight	Planar	Rough		Planar and undulating.		70 °	
									89		
89.15 - 89.41								Non intact (assumed drilling disturbed). Recovered as angular and subangular chalk fragments (<40mm x 70mm x 80mm), with occasional to some spiral-shaped worm cast fragments (<10mm x 10mm) and 1 No. brachiopod shell (20mm x 20mm), locally with greyish brown staining.		85 °	
89.15 - 89.41	J	85		Very tight	Planar	Rough		Planar and curviplanar, possibly very tight.			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**
Fugro Reference	G190016U			
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 19 of 22
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
90.00 - 90.08								Non intact. Recovered as subrounded and rounded fragments (<10mm x 20mm x 20mm) of firm and stiff grey plastic marly chalk. Probable marl seam.			
90.60 - 91.09								Non intact. Recovered as angular to subrounded chalk/chalkstone fragments (<60mm x 70mm x 100mm), with frequent dark grey and light grey sponge fragments (<40mm x 60mm), locally with greyish brown, bluish grey and dark green staining/mottling.		85 °	
90.60 - 91.09	J	85		Very tight	Planar	Rough		Planar and locally curviplanar, possibly very tight.	91		
91.40 - 92.90								Natural fractures not observed.	92		
92.90 - 95.75								Assumed zone of core loss/poor recovery.	93		
									94		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**
Fugro Reference	G190016U			
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 20 of 22
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
96.27	BF	5		Very tight	Planar	Rough			96	5 °	
97.05	BF	5		Very tight	Planar	Rough			97	5 °	
97.05	BF	5		Very tight	Planar	Rough				5 °	
98.12	BF	10		Very tight	Planar	Rough			98	10 °	
99.30 - 99.55								Natural fractures not observed within non intact core (assumed drilling induced).	99		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**
Fugro Reference	G190016U			
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 21 of 22
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
101.70 - 101.73	BF	15		Very tight	Planar	Rough			101	15 °	
102.10 - 102.13	BF	10		Very tight	Planar	Rough			102	10 °	
									103		
									104		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_03**
Fugro Reference	G190016U			
Coordinates (m)	E650388.42 N264104.86	Ground Elevation (m Datum)	-7.90	Sheet 22 of 22
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
105.14	BF	5		Tight	Planar	Rough		Planar and locally undulating, with slight light brown staining.		5 °	
105.76 - 105.78	BF	15		Very tight	Planar	Rough				15 °	
									106		
106.60	BF	5		Tight	Planar	Rough		With light brown staining.		5 °	
									107		
									108		
									109		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_04**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E651086.69 N264109.59	Ground Elevation (m Datum)	-16.19	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	16.00	RO	04/07/2019	05/07/2019	Comacchio : Excalibur	NCD	102mm	JS/JL	PC/MH	
16.00	55.30	RC	05/07/2019	05/07/2019	Comacchio : Excalibur	Geobor	146mm	JS/JL	PC/MH	Switched to Geobor at 16.00m due to ground conditions and borehole collapse; core retained from 24.00m as instructed by NNB.

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
04/07/2019	14:20:00	0.00	0.00	
04/07/2019	23:45:00	16.00	16.00	
05/07/2019	00:00:00	16.00	16.00	
05/07/2019	11:45:00	32.80	32.80	
05/07/2019	12:05:00	32.80	32.80	
05/07/2019	19:30:00	55.30	53.80	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
16.00	178	16.00	178
55.30	146	55.30	146

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)
24.00	25.00	P	100	Grey	00:08
25.00	26.00	P	100	Grey	00:12
26.00	27.00	P	100	Grey	00:07
27.00	28.00	P	100	Grey	00:08
28.00	28.90	P	100	Grey	00:08
28.90	29.80	P	100	Grey	00:08
29.80	31.30	P	100	Grey	00:10
31.30	32.80	P	100	Grey	00:14
32.80	34.30	P	100	Grey	00:12
34.30	35.80	P	100	Grey	00:10
35.80	37.30	P	100	Grey	00:10
37.30	38.80	P	100	Grey	00:09
38.80	40.30	P	100	Grey	00:11
40.30	41.80	P	100	Grey	00:12
41.80	43.30	P	100	Grey	00:09
43.30	44.80	P	100	Grey	00:09
44.80	46.30	P	100	Grey	00:09
46.30	47.80	P	100	Grey	00:11
47.80	49.30	P	100	Grey	00:08
49.30	50.80	P	100	Grey	00:07
50.80	52.30	P	100	Grey	00:13
52.30	53.80	P	100	Grey	00:07
53.80	55.30	P	100	Grey	00:07

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
24.00	25.00	102
25.00	26.00	102
26.00	27.00	102
27.00	28.00	102
28.00	28.90	102
28.90	29.80	102
29.80	31.30	102
31.30	32.80	102
32.80	34.30	102
34.30	35.80	102
35.80	37.30	102
37.30	38.80	102
38.80	40.30	102
40.30	41.80	102
41.80	43.30	102
43.30	44.80	102
44.80	46.30	102
46.30	47.80	102
47.80	49.30	102
49.30	50.80	102
50.80	52.30	102
52.30	53.80	102
53.80	55.30	102

General Remarks

1. Deck to mud was 26.00m; deck level was 9.81m above OD. 2. The borehole was drilled adjacent to OT_SB_04 to achieve the associated SPT data. 3. Geophysical borehole logging was carried out on completion of drilling; results reported separately. 4. Checkshot survey was carried out downhole on completion of drilling; results reported separately.5. Descriptions of the SPT D samples are based on the disturbed material recovered from the SPT liners; these descriptions alone cannot provide representative information to infer strata descriptions or boundaries; the strata descriptions and boundaries given are based on driller's records only. 6. Core logging/logging of ends of core liners was not required.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	ROR	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 27/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651086.69 N264109.59	Ground Elevation (m Datum)	-16.19	Sheet 1 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 0.45 0.00 - 0.45	D SPT	1							SAND (Driller's description). 0.00m to 0.45m (450mm recovery); very soft dark grey organic silty clay with abundant shell fragments (<2mm x 2mm x 3mm).			
								1		(2.00)		
2.00 - 2.45 2.00 - 2.45	D SPT	2	N = 30 (S)					2	SAND (Driller's description). 2.00m to 2.45m (360mm recovery); medium dense to dense grey organic clayey sand with occasional shell fragments (<1mm x 2mm x 2mm).	2.00	-18.19	
								3				
4.00 - 4.43 4.00 - 4.43	D SPT	3	50/280 mm (S)					4	4.00m to 4.43m (430mm recovery); very dense yellowish brown silty sand with abundant shell fragments (<2mm x 5mm x 6mm). Sand is fine and medium.			

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651086.69 N264109.59	Ground Elevation (m Datum)	-16.19	Sheet 2 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
6.00 - 6.32 6.00 - 6.32	D SPT	4	50/170 mm (S)					6	6.00m to 6.32m (320mm recovery); very dense brownish grey sand with abundant shell fragments (<2mm x 9mm x 10mm). Sand is fine and medium.			
								7				
8.00 - 8.29 8.00 - 8.29	D SPT	5	50/140 mm (S)					8	8.00m to 8.29m (290mm recovery); very dense brownish grey sand with occasional shell fragments (<1mm x 3mm x 4mm). Sand is fine and medium.			
								9				
10.00 - 10.27 10.00 - 10.27	D SPT	6	50/120 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651086.69 N264109.59	Ground Elevation (m Datum)	-16.19	Sheet 3 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
								11	10.00m to 10.27m (270mm recovery); yellowish brown sand with abundant shell fragments (<2mm x 6mm x 10mm) (120mm) over very dense greyish brown sand with rare fragments (<1mm x 1mm x 2mm). Sand is fine to medium			
12.00 - 12.18 12.00 - 12.18	D SPT	7	50/65 mm (S)					12	12.00m to 12.18m (180mm recovery); very dense greyish brown sand with rare shell fragments (<1mm x 1mm x 2mm). Sand is fine and medium.			
								13		(21.60)		
14.00 - 14.30 14.00 - 14.30	D SPT	8	50/145 mm (S)					14	14.00m to 14.30m (200mm recovery); very dense greenish grey, locally gravelly, sand with abundant shell fragments (<2mm x 5mm x 6mm). Sand is fine and medium. Gravel is of mudstone and siltstone.			

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_04**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E651086.69 N264109.59	Ground Elevation (m Datum)	-16.19	Sheet 4 of 12
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
16.00 - 16.31 16.00 - 16.31	D SPT	9	50/160 mm (S)					16	16.00m to 16.31m (240mm recovery); very dense greenish grey, locally yellowish grey, locally gravelly, sand with frequent shell fragments (<1mm x 3mm x 3mm). Sand is fine to coarse. Gravel is of dark grey mudstone.			
								17				
18.00 - 18.31 18.00 - 18.31	D SPT	10	50/160 mm (S)					18	18.00m to 18.31m (290mm recovery); very dense greenish grey, locally brownish grey, sand with abundant shell fragments (<1mm x 7mm x 11mm) and with closely spaced thick laminae of brownish grey sand. Sand is fine to coarse.			
								19				
20.00 - 20.28	SPT		50/130 mm (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_04**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E651086.69 N264109.59	Ground Elevation (m Datum)	-16.19	Sheet 5 of 12
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									20.00m to 20.28m; no recovery.			
								21				
22.00 - 22.29	SPT		50/140 mm (S)					22	22.00m to 22.29m; no recovery.			
								23				
									CLAY (Driller's description).	23.60	-39.79	
24.00 - 24.45 24.00 - 25.00 24.00 - 24.45	D ES SPT	11 3	N = 36 (S)					24	24.00m to 24.45m (240mm SPT D recovery); very stiff dark brownish grey clay with occasional shell fragments (<1mm). Micaceous.			
24.00 - 25.00				100	N/A	N/A						
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651086.69 N264109.59	Ground Elevation (m Datum)	-16.19	Sheet 6 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
25.40 - 25.87	C	2										
25.00 - 26.00				100	N/A	N/A						
26.00 - 26.45	D	12						26				
26.00 - 26.45	SPT		N = 37 (S)						26.00m to 26.45m (250mm SPT D recovery); very stiff dark brownish grey clay. Micaceous.			
26.00 - 27.00				100	N/A	N/A						
								27				
27.00 - 28.00				100	N/A	N/A						
28.00 - 28.45	D	13						28				
28.00 - 28.45	SPT		N = 27 (S)						28.00m to 28.45m (310mm SPT D recovery); very stiff dark brownish grey clay with 1 No. subangular fragment (3mm x 5mm x 6mm) of mudstone. Micaceous.			
28.00 - 28.90				100	N/A	N/A						
								29				
28.90 - 29.80				100	N/A	N/A						

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651086.69 N264109.59	Ground Elevation (m Datum)	-16.19	Sheet 7 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
29.80 - 31.30				100	N/A	N/A		31				
31.30 - 32.80				100	N/A	N/A		32				
32.80 - 34.30				100	N/A	N/A		33				
								34				
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651086.69 N264109.59	Ground Elevation (m Datum)	-16.19	Sheet 8 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
34.30 - 35.80				100	N/A	N/A						
35.80 - 37.30				100	N/A	N/A		36				
37.30 - 38.80				100	N/A	N/A		37				
38.80 - 40.30				100	N/A	N/A		38				
								39		(31.70)		
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651086.69 N264109.59	Ground Elevation (m Datum)	-16.19	Sheet 9 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
40.30 - 41.80				100	N/A	N/A		41				
41.80 - 43.30				100	N/A	N/A		42				
43.30 - 44.80				100	N/A	N/A		43				
								44				
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651086.69 N264109.59	Ground Elevation (m Datum)	-16.19	Sheet 10 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
44.80 - 46.30				100	N/A	N/A		46				
									46.30m to 46.40m; assumed zone of core loss (due to claystone band).			
46.30 - 47.80				93	N/A	N/A		47				
								48				
47.80 - 49.30				100	N/A	N/A						
48.90 - 49.30	C	1						49				
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651086.69 N264109.59	Ground Elevation (m Datum)	-16.19	Sheet 11 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
49.30 - 50.80				100	N/A	N/A						
50.80 - 52.30				100	N/A	N/A		51				
52.30 - 53.80				100	N/A	N/A		52				
53.80 - 55.30				100	N/A	N/A		53				
								54				
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_04**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651086.69 N264109.59	Ground Elevation (m Datum)	-16.19	Sheet 12 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									End of Borehole at 55.30 m	55.30	-71.49	
								56				
								57				
								58				
								59				

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_05**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E651158.86 N264109.83	Ground Elevation (m Datum)	-16.32	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	26.00	RO	24/06/2019	25/06/2019	Comacchio : Excalibur	NCD	102mm	JS/JW/JL	DM/MH/PC	
26.00	55.50	RC	25/06/2019	26/06/2019	Comacchio : Excalibur	Geobor	146mm	JS/JW/JL	DM/MH/PC	Switched to Geobor at 26.00m due to ground conditions. Cores retained as instructed by NNB.

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
24/06/2019	22:15:00	0.00	2.00	Wet
24/06/2019	23:45:00	4.00	4.00	Dry/windy
25/06/2019	00:15:00	4.00	4.00	
25/06/2019	11:30:00	27.00	27.00	
25/06/2019	12:15:00	27.00	27.00	
25/06/2019	23:30:00	48.00	48.00	
26/06/2019	00:15:00	48.00	48.00	
26/06/2019	03:20:00	55.50	55.50	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
26.00	178	2.00	250
55.50	146	26.00	178
		55.50	146

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)
0.00	2.00	P	0	Grey	00:10
2.00	4.00	P	0	Grey	00:10
4.00	6.00	P	0	Grey	00:10
6.00	8.00	P	0	Grey	00:10
8.00	10.00	P	0	Grey	00:10
10.00	12.00	P	0	Grey	00:10
12.00	14.00	P	0	Grey	00:15
14.00	16.00	P	0	Grey	00:15
16.00	18.00	P	0	Grey	00:15
18.00	20.00	P	0	Grey	00:15
20.00	22.00	P	0	Grey	00:15
22.00	24.00	P	0	Grey	00:17
24.00	25.50	P	0	Grey	00:16
25.50	26.00	P	100	Grey	00:15
26.00	27.00	P	100	Grey	00:09
27.00	28.00	P	100	Grey	00:10
28.00	29.00	P	100	Grey	00:10
29.00	30.00	P	100	Grey	00:10
30.00	31.50	P	100	Grey	00:10
31.50	33.00	P	100	Grey	00:10
					00:10

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
26.00	27.00	102
27.00	28.00	102
28.00	29.00	102
29.00	30.00	102
30.00	31.50	102
31.50	33.00	102
33.00	34.50	102
34.50	36.00	102
36.00	37.50	102
37.50	39.00	102
39.00	40.50	102
40.50	42.00	102
42.00	43.50	102
43.50	45.00	102
45.00	46.50	102
46.50	48.00	102
48.00	49.50	102
49.50	51.00	102
51.00	52.50	102
52.50	54.00	102
54.00	55.50	102

General Remarks

1. Deck to mud was 26.50m; deck level was 10.18m above OD. 2. The borehole was drilled adjacent to OT_SB_05 to achieve the associated SPT data. 3. Geophysical borehole logging was carried out on completion of drilling; results reported separately. 4. Descriptions of the SPT D samples are based on the disturbed material recovered from the SPT liners; these descriptions alone cannot provide representative information to infer strata descriptions or boundaries; the strata descriptions and boundaries given are based on driller's records only. 5. Core logging/logging of ends of core liners was not required.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	ROR	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 22/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651158.86 N264109.83	Ground Elevation (m Datum)	-16.32	Sheet 1 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 1.00	B	1							Recovered as very soft dark grey sandy SILT (slurry). Sand is fine and medium. Driller noted silty sand.	(1.00)		
								1	SAND (Driller's description).	1.00	-17.32	
2.00 - 2.45 2.00 - 2.45	D SPT	2	N = 33 (S)					2	2.00m to 2.45m (430mm recovery); dense brownish grey, locally mottled dark grey, sand with rare shell fragments (<1mm x 2mm x 3mm). Sand is fine and medium.			
								3				
4.00 - 4.38 4.00 - 4.38	D SPT	3	50/225 mm (S)					4	4.00m to 4.38m (370mm recovery); greyish green fine and medium sand (110mm) over greyish green fine to coarse sand with abundant shell fragments (<1mm x 4mm x 7mm) (140mm) over green sand. Sand is fine.	(6.00)		
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651158.86 N264109.83	Ground Elevation (m Datum)	-16.32	Sheet 2 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
6.00 - 6.39 6.00 - 6.39	D SPT	4	50/240 mm (S)					6	6.00m to 6.39m (390mm recovery); very dense bluish grey sand. Sand is fine and medium.			
								7	SAND with sandstone fragments (Driller's description).	7.00	-23.32	
8.00 - 8.32 8.00 - 8.32	D SPT	5	50/170 mm (S)					8	8.00m to 8.32m (320mm recovery); very dense bluish grey sand. Sand is fine and medium.			
								9				
10.00 - 10.45 10.00 - 10.45	D SPT	6	N = 22 (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651158.86 N264109.83	Ground Elevation (m Datum)	-16.32	Sheet 3 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									10.00m to 10.45m (380mm recovery); greyish white (120mm) over medium dense greyish white becoming grey sandy gravel. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of weak sandstone.			
								11				
12.00 - 12.45 12.00 - 12.45	D SPT	7	N = 42 (S)					12	12.00m to 12.45m (420mm recovery); greyish white sand (220mm) over white sandy gravel. Gravel is angular to subrounded fine and medium of flint. Sand is fine to coarse. Gravel is angular to subrounded fine and medium of flint.			
								13				
14.00 - 14.45 14.00 - 14.45	D SPT	8	N = 28 (S)					14	14.00m to 14.45m (290mm recovery); whitish grey sand (230mm) over strong yellowish brown fine to coarse grained sandstone. Sand is fine to coarse.			
										(15.00)		
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651158.86 N264109.83	Ground Elevation (m Datum)	-16.32	Sheet 4 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
16.00 - 16.45 16.00 - 16.45	D SPT	9	N = 30 (S)					16	16.00m to 16.45m (430mm recovery); medium dense to dense whitish grey sand with 1 No. possible wood fragment. Highly calcareous. Sand is fine to coarse.			
								17				
18.00 - 18.45 18.00 - 18.45	D SPT	10	N = 36 (S)					18	18.00m to 18.45m (360mm recovery); greyish white sand with abundant shell fragments (<1mm x 2mm x 3mm) (320mm) over weak yellowish brown fine and medium grained sandstone. Highly calcareous. Sand is fine to coarse.			
								19				
20.00 - 20.45 20.00 - 20.45	D SPT	11	N = 50 (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651158.86 N264109.83	Ground Elevation (m Datum)	-16.32	Sheet 5 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									20.00m to 20.45m (450mm recovery); dense light grey sand with rare shell fragments (<1mm x 3mm x 5mm). Sand is fine to coarse.			
								21				
22.00 - 22.45 22.00 - 22.45	D SPT	12	N = 45 (S)					22	SAND (Driller's description). 22.00m to 22.45m; dense light grey sand with rare shell fragments (<1mm x 2mm x 2mm). Sand is fine to coarse.	22.00	-38.32	
								23		(2.00)		
24.00 - 24.45 24.00 - 24.45	D SPT	13	N = 47 (S)					24	Clayey/silty SAND (Driller's description). 24.00m to 24.45m (250mm recovery); dense bluish green, locally brown, clayey very gravelly sand. Sand is fine to coarse. Gravel is angular to rounded fine to coarse of black flint.	24.00	-40.32	
										(1.00)		
									Continued next page	25.00	-41.32	

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651158.86 N264109.83	Ground Elevation (m Datum)	-16.32	Sheet 6 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									CLAY (Driller's description).			
26.00 - 26.45	D	14						26				
26.00 - 26.45	SPT		N = 33 (S)						26.00m to 26.45m (280mm recovery); stiff dark brownish grey clay with occasional shell fragments (<1mm x 1mm x 2mm). Micaceous.			
26.00 - 27.00				100	N/A	N/A						
27.00 - 27.57	C	1						27				
27.00 - 28.00				100	N/A	N/A						
28.00 - 28.45	D	15						28				
28.00 - 28.45	SPT		N = 34 (S)						28.00m to 28.25m; assumed zone of core loss. 28.00m to 28.45m (300mm recovery); very stiff dark brownish grey clay with 1 No. subrounded pyrite fragment (8mm x 8mm x 9mm). Micaceous.			
28.00 - 29.00				75	N/A	N/A						
								29				
29.00 - 30.00				100	N/A	N/A						
30.00 - 30.45	D	16										
30.00 - 30.45	SPT		N = 21 (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651158.86 N264109.83	Ground Elevation (m Datum)	-16.32	Sheet 7 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
30.00 - 31.50 30.81 - 31.34	C	2		100	N/A	N/A		31	30.00m to 30.45m (260mm recovery); stiff fissured dark brownish grey clay with 1 No. thin bed (80mm) of very stiff dark grey clay. Micaceous. Fissures are extremely closely spaced, inclined (60-70 degrees), planar, smooth, locally polished, very tight, clean.			
31.50 - 33.00				100	N/A	N/A		32				
33.00 - 34.50				100	N/A	N/A		33				
								34				

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651158.86 N264109.83	Ground Elevation (m Datum)	-16.32	Sheet 8 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
34.50 - 36.00				100	N/A	N/A		36		(23.00)		
36.00 - 37.50				100	N/A	N/A		37				
37.50 - 39.00				100	N/A	N/A		38				
39.00 - 40.50				100	N/A	N/A		39				

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651158.86 N264109.83	Ground Elevation (m Datum)	-16.32	Sheet 9 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
40.50 - 42.00				100	N/A	N/A		41				
42.00 - 43.50				100	N/A	N/A		42				
43.50 - 45.00				100	N/A	N/A		43				
								44				
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_05**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E651158.86 N264109.83	Ground Elevation (m Datum)	-16.32	Sheet 10 of 12
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
45.00 - 46.50				100	N/A	N/A		46				
46.50 - 48.00				100	N/A	N/A		47				
								48	LIMESTONE (Driller's description)	48.00	-64.32	
										(0.75)		
48.00 - 49.50				50	N/A	N/A			Limestone (Driller's description). ASSUMED ZONE OF CORE LOSS.	48.75	-65.07	
								49		(0.75)		
									Clay/Limestone (Driller's description). ASSUMED ZONE OF CORE LOSS.	49.50	-65.82	
										(0.20)		
									CLAY/LIMESTONE (Driller's description).	49.70	-66.02	
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_05**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651158.86 N264109.83	Ground Elevation (m Datum)	-16.32	Sheet 11 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
49.50 - 51.00				87	N/A	N/A		51		(2.80)		
51.00 - 52.50				100	N/A	N/A		52				
52.50 - 54.00				100	N/A	N/A		53	CLAY (Driller's description).	52.50	-68.82	
54.00 - 55.50				100	N/A	N/A		54		(3.00)		
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_05**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E651158.86 N264109.83	Ground Elevation (m Datum)	-16.32	Sheet 12 of 12
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
										55.50	-71.82	
									End of Borehole at 55.50 m			
								56				
								57				
								58				
								59				

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_06**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E651244.40 N264105.06	Ground Elevation (m Datum)	-17.26	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	26.00	RO	28/06/2019	29/06/2019	Comacchio : Excalibur	NCD	102mm	JS/JL	DM/PC	
26.00	55.50	RC	29/06/2019	29/06/2019	Comacchio : Excalibur	Geobor	146mm	JS/JL	DM/PC	Switched to Geobor at 26.00m due to ground conditions. Cores retained as instructed by NNB.

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
28/06/2019	15:20:00	0.00	1.00	Dry
28/06/2019	23:45:00	18.00	18.00	
29/06/2019	00:00:00	18.00	18.00	
29/06/2019	11:45:00	42.00	42.00	
29/06/2019	12:10:00	42.00	42.00	
29/06/2019	16:30:00	55.50	55.50	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
26.00	178	1.00	250
55.50	146	26.00	178
		55.50	146

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)
0.00	1.00	P	0	Grey	00:10
1.00	2.00	P	0	Grey	00:10
2.00	4.00	P	0	Grey	00:10
4.00	6.00	P	0	Grey	00:05
6.00	8.00	P	0	Grey	00:13
8.00	10.00	P	0	Grey	00:15
10.00	12.00	P	0	Grey	00:09
12.00	14.00	P	0	Grey	00:06
14.00	16.00	P	0	Grey	00:05
16.00	18.00	P	0	Grey	00:05
18.00	20.00	P	0	Grey	00:05
20.00	22.00	P	0	Grey	00:07
22.00	24.00	P	0	Grey	00:06
24.00	26.00	P	0	Grey	00:09
26.00	27.00	P	100	Grey	00:10
27.00	28.00	P	100	Grey	00:12
28.00	29.00	P	100	Grey	00:08
29.00	30.00	P	100	Grey	00:09
30.00	31.50	P	100	Grey	00:10
31.50	33.00	P	100	Grey	00:11
33.00	34.50	W	100	Grey	00:11
34.50	36.00	W	100	Grey	
36.00	37.50	W	100	Grey	
37.50	39.00	W	100	Grey	
39.00	40.50	W	100	Grey	
40.50	42.00	W	100	Grey	
42.00	43.50	W	100	Grey	
43.50	45.00	W	100	Grey	
45.00	46.50	W	100	Grey	
46.50	48.00	W	100	Grey	
48.00	49.50	W	100	Grey	
49.50	51.00	W	100	Grey	
51.00	52.50	W	100	Grey	
52.50	54.00	W	100	Grey	
54.00	55.50	W	100	Grey	

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
26.00	27.00	102
27.00	28.00	102
28.00	29.00	102
29.00	30.00	102
30.00	31.50	102
31.50	33.00	102
33.00	34.50	102
34.50	36.00	102
36.00	37.50	102
37.50	39.00	102
39.00	40.50	102
40.50	42.00	102
42.00	43.50	102
43.50	45.00	102
45.00	46.50	102
46.50	48.00	102
48.00	49.50	102
49.50	51.00	102
51.00	52.50	102
52.50	54.00	102
54.00	55.50	102

General Remarks

1. Deck to mud was 26.50m; deck level was 9.24m above OD. 2. The borehole was drilled adjacent to OT_SB_06 to achieve the associated SPT data. 3. Geophysical borehole logging was carried out on completion of drilling; results reported separately. 4. Descriptions of the SPT D samples are based on the disturbed material recovered from the SPT liners; these descriptions alone cannot provide representative information to infer strata descriptions or boundaries; the strata descriptions and boundaries given are based on driller's records only. 5. Core logging/logging of ends of core liners was not recognised.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	ROR	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 22/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651244.40 N264105.06	Ground Elevation (m Datum)	-17.26	Sheet 1 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
0.00 - 0.45 0.00 - 1.00 0.00 - 0.45	D B SPT	1 2	N = 31 (S)						Yellowish brown gravelly SAND with abundant shell fragments (<2mm x 7mm x 9mm). Sand is fine to coarse. Gravel is subrounded and rounded fine to coarse of mudstone, flint and calcarenite. 0.00m to 0.45m (450mm recovery); very soft dark grey organic silty clay with abundant shell fragments (<1mm x 6mm x 7mm) (200mm) over light grey becoming yellow brown silty sand with abundant shell fragments. Sand is fine to coarse.	(1.00)		
								1	SAND (Driller's description).	1.00	-18.26	
2.00 - 2.45 2.00 - 2.45	D SPT	3	N = 33 (S)					2	2.00m to 2.45m (300mm recovery); dense yellowish brown slightly gravelly fine to coarse sand with occasional shell fragments (<1mm x 3mm x 4mm). Sand is fine to coarse. Gravel is subangular and subrounded fine and medium of flint.			
								3				
4.00 - 4.45 4.00 - 4.45	D SPT	4	N = 36 (S)					4	4.00m to 4.45m (310mm recovery); dense, locally cemented, yellowish brown sand with abundant shell fragments (<1mm x 3mm x 4mm). Sand is fine to coarse.			

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651244.40 N264105.06	Ground Elevation (m Datum)	-17.26	Sheet 2 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
6.00 - 6.45 6.00 - 6.45	D SPT	5	N = 24 (S)					6	6.00m to 6.45m (450mm recovery); medium dense whitish grey sand with abundant shell fragments (<2mm x 6mm x 6mm). Sand is fine to coarse.			
								7				
8.00 - 8.45 8.00 - 8.45	D SPT	6	N = 21 (S)					8	8.00m to 8.45m (450mm recovery); medium dense, locally cemented, whitish grey sand with abundant shell fragments (<1mm x 2mm x 2mm). Sand is fine to coarse.			
								9				
10.00 - 10.45 10.00 - 10.45	D SPT	7	N = 23 (S)									

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651244.40 N264105.06	Ground Elevation (m Datum)	-17.26	Sheet 3 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									10.00m to 10.45m (450mm recovery); medium dense, locally cemented, whitish grey sand with abundant shell fragments (<1mm x 3mm x 3mm). Sand is fine to coarse.			
								11				
12.00 - 12.45 12.00 - 12.45	D SPT	8	N = 14 (S)					12	12.00m to 12.45m (450mm recovery); medium dense, locally cemented, whitish grey sand with abundant shell fragments (<2mm x 3mm x 4mm). Sand is fine to coarse.			
								13		(25.00)		
14.00 - 14.45 14.00 - 14.45	D SPT	9	N = 45 (S)					14	14.00m to 14.45m (450mm recovery); dense, locally cemented, whitish grey sand with abundant shell fragments (<1mm x 3mm x 5mm). Sand is fine to coarse.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651244.40 N264105.06	Ground Elevation (m Datum)	-17.26	Sheet 4 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
16.00 - 16.45 16.00 - 16.45	D SPT	10	N = 39 (S)					16	16.00m to 16.45m (450mm recovery); dense greenish grey sand with occasional shell fragments (<1mm x 1mm x 2mm). Sand is fine to coarse.			
								17				
18.00 - 18.45 18.00 - 18.45	D SPT	11	N = 35 (S)					18	18.00m to 18.45m (450mm recovery); dense greenish grey sand with occasional shell fragments (<1mm x 1mm x 2mm). Sand is fine to coarse.			
								19				
20.00 - 20.45 20.00 - 20.45	D SPT	12	N = 46 (S)						Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651244.40 N264105.06	Ground Elevation (m Datum)	-17.26	Sheet 5 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									20.00m to 20.45m; (400mm recovery) dense, locally cemented, grey becoming light grey sand with 1 No. shell fragment (2mm x 5mm x 20mm). Sand is fine to coarse.			
								21				
22.00 - 22.45 22.00 - 22.45	D SPT	13	N = 50 (S)					22	22.00m to 22.45m (400mm recovery); dense grey sand with abundant shell fragments (1mm x 5mm x 9mm). Sand is fine to coarse.			
								23				
24.00 - 24.44 24.00 - 24.44	D SPT	14	50/290 mm (S)					24	24.00m to 24.44m (230mm recovery); very dense gravelly sand. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of flint and limestone.			
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651244.40 N264105.06	Ground Elevation (m Datum)	-17.26	Sheet 6 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
26.00 - 26.45	D	15						26	CLAY (Driller's description).	26.00	-43.26	
26.00 - 26.45	SPT		N = 29 (S)						26.00m to 26.45m (280mm recovery); stiff dark grey silty clay with 1 No. orangish brown possible claystone.			
26.00 - 27.00				100	N/A	N/A						
								27				
27.00 - 28.00				100	N/A	N/A						
28.00 - 28.45	D	16						28				
28.00 - 28.45	SPT		N = 33 (S)						28.00m to 28.45m (270mm recovery); stiff dark grey silty clay.			
28.00 - 29.00				100	N/A	N/A						
								29				
29.00 - 30.00				95	N/A	N/A						
30.00 - 30.45	D	17										
30.00 - 30.45	SPT		N = 31 (S)									

Continued next page

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651244.40 N264105.06	Ground Elevation (m Datum)	-17.26	Sheet 7 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
30.00 - 31.50				100	N/A	N/A			30.00m to 30.45m (200mm recovery); stiff dark grey silty clay.			
								31				
								32				
31.50 - 33.00				100	N/A	N/A						
32.51 - 32.91	C	1										
								33				
33.00 - 34.50				100	N/A	N/A						
								34				
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651244.40 N264105.06	Ground Elevation (m Datum)	-17.26	Sheet 8 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
34.50 - 36.00				100	N/A	N/A		36				
36.00 - 37.50				100	N/A	N/A		37				
37.50 - 39.00				100	N/A	N/A		38				
39.00 - 40.50				100	N/A	N/A		39				

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651244.40 N264105.06	Ground Elevation (m Datum)	-17.26	Sheet 9 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
										(29.50)		
								41				
40.50 - 42.00				97	N/A	N/A						
								42				
42.14 - 42.56	C	2										
42.00 - 43.50				100	N/A	N/A						
								43				
								44				
43.50 - 45.00				100	N/A	N/A						
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651244.40 N264105.06	Ground Elevation (m Datum)	-17.26	Sheet 10 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
45.00 - 46.50				100	N/A	N/A		46				
46.50 - 48.00				100	N/A	N/A		47				
48.00 - 49.50				100	N/A	N/A		48				
								49				
									Continued next page			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_SPT_06**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651244.40 N264105.06	Ground Elevation (m Datum)	-17.26	Sheet 11 of 12	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
49.50 - 51.00				100	N/A	N/A		51				
51.00 - 52.50				100	N/A	N/A		52				
52.50 - 54.00				100	N/A	N/A		53				
54.00 - 55.50				100	N/A	N/A		54				

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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_SPT_06**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E651244.40 N264105.06	Ground Elevation (m Datum)	-17.26	Sheet 12 of 12
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
										55.50	-72.76	
									End of Borehole at 55.50 m			
								56				
								57				
								58				
								59				

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 1 of 1
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Equipment

Depth From (m)	Depth To (m)	Hole Type	Date From	Date To	Equipment	Core Barrel	Core Bit	Drilling Crew	Logged By	Remarks
0.00	26.50	RO	01/07/2019	01/07/2019	Comacchio : Excalibur	NCD	102mm	AR/JS	PC/DM	
26.50	111.20	RC	01/07/2019	02/07/2019	Comacchio : Excalibur	Geobor	146mm	AR/JS	GDF	Switched to Geobor at 26.50m due to ground conditions; core retained as instructed by NNB.

Progress

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Hole Depth (m)	Casing Depth (m)	Weather
01/07/2019	06:30:00	0.00	0.00	Good
01/07/2019	11:45:00	29.20	29.20	
01/07/2019	12:05:00	29.20	29.20	
01/07/2019	23:45:00	60.70	60.70	
02/07/2019	00:00:00	60.70	60.70	
02/07/2019	11:20:00	85.70	85.70	
02/07/2019	12:15:00	85.70	85.70	
02/07/2019	23:45:00	111.20	111.20	

Hole and Casing

Depth To (m)	Hole Diameter (mm)	Depth To (m)	Casing Diameter (mm)
26.50	178	26.50	178
111.20	146	111.20	146

Chiselling / Slow Progress

Depth From (m)	Depth To (m)	Duration (hh:mm)	Tool/Remark

Rotary Details

Depth From (m)	Depth To (m)	Flush Type	Flush Return (%)	Flush Colour	Run Time (hh:mm)
26.50	27.70	W	100	Grey	00:12
27.70	29.20	W	100	Grey	00:13
29.20	30.70	W	100	Grey	00:11
30.70	32.20	W	100	Grey	00:11
32.20	33.70	W	100	Grey	00:13
33.70	35.20	W	100	Grey	00:10
35.20	36.70	W	100	Grey	00:10
36.70	38.20	W	100	Grey	00:09
38.20	39.70	W	100	Grey	00:11
39.70	41.20	W	100	Grey	00:11
41.20	42.70	W	100	Grey	00:13
42.70	44.20	W	100	Grey	00:11
44.20	45.70	W	100	Grey	00:12
45.70	47.20	W	100	Grey	00:12
47.20	48.70	W	100	Grey	00:16
48.70	50.20	W	100	Grey	00:27
50.20	51.70	W	100	Grey	00:13
51.70	53.20	W	100	Grey	00:12
53.20	54.70	W	100	Grey	00:09
54.70	56.20	W	100	Grey	00:16
56.20	57.70	W	100	Grey	00:13
57.70	59.20	W	100	Grey	00:07
59.20	60.70	W	100	Grey	00:18
60.70	62.20	W	100	Grey	00:10
62.20	63.70	W	100	Grey	00:05
63.70	65.20	W	100	Grey	00:15
65.20	66.70	W	100	Grey	00:21
66.70	68.20	W	100	Grey	00:14
68.20	69.70	W	100	Grey	00:08
69.70	71.20	W	100	Grey	00:16
71.20	72.70	W	100	Grey	00:14
72.70	74.20	W	100	Grey	00:14
74.20	75.70	W	100	Grey	00:16
75.70	77.20	W	100	Grey	00:17
77.20	78.70	W	100	Grey	00:17
78.70	80.20	W	100	Grey	00:17
80.20	81.70	W	100	Grey	00:16
81.70	82.70	W	100	Grey	00:09
82.70	84.20	W	100	Grey	00:12
84.20	85.70	W	100	White	00:06
85.70	87.20	W	100	White	00:05
87.20	88.70	W	100	White	00:03
88.70	89.70	W	100	White	00:02
89.70	90.20	W	100	White	00:02
90.20	91.70	W	100	White	00:02
91.70	93.20	W	100	White	00:02
93.20	94.70	W	100	White	00:02
94.70	96.20	W	100	White	00:02
96.20	97.70	W	100	White	00:01
97.70	99.20	W	100	White	00:02
99.20	100.70	W	100	White	00:01
100.70	102.20	W	100	White	00:01
102.20	103.70	W	100	White	00:01
103.70	105.20	W	100	White	00:02
105.20	106.70	W	100	White	00:03
106.70	108.20	W	100	White	00:02
108.20	109.70	W	0	White	00:12
109.70	111.20	W	0	White	00:02

Core Details

Depth From (m)	Depth To (m)	Diameter (mm)
26.50	27.70	102
27.70	29.20	102
29.20	30.70	102
30.70	32.20	102
32.20	33.70	102
33.70	35.20	102
35.20	36.70	102
36.70	38.20	102
38.20	39.70	102
39.70	41.20	102
41.20	42.70	102
42.70	44.20	102
44.20	45.70	102
45.70	47.20	102
47.20	48.70	102
48.70	50.20	102
50.20	51.70	102
51.70	53.20	102
53.20	54.70	102
54.70	56.20	102
56.20	57.70	102
57.70	59.20	102
59.20	60.70	102
60.70	62.20	102
62.20	63.70	102
63.70	65.20	102
65.20	66.70	102
66.70	68.20	102
68.20	69.70	102
69.70	71.20	102
71.20	72.70	102
72.70	74.20	102
74.20	75.70	102
75.70	77.20	102
77.20	78.70	102
78.70	80.20	102
80.20	81.70	102
81.70	82.70	102
82.70	84.20	102
84.20	85.70	102
85.70	87.20	102
87.20	88.70	102
88.70	89.70	102
89.70	90.20	102
90.20	91.70	102
91.70	93.20	102
93.20	94.70	102
94.70	96.20	102
96.20	97.70	102
97.70	99.20	102
99.20	100.70	102
100.70	102.20	102
102.20	103.70	102
103.70	105.20	102
105.20	106.70	102
106.70	108.20	102
108.20	109.70	102
109.70	111.20	102

General Remarks

1. Deck to mud was 25.30m; deck level was 9.05m above OD. 2. The borehole was drilled adjacent to OT_SB_07 to extend deeper by rotary coring. 3. Geophysical borehole logging was carried out on completion of drilling; results reported separately. 4. CIRIA grades are given for the Chalk strata if possible; subvertical fractures (85-90 degrees) were not included in CIRIA grading or fracture spacing calculations as spacing could not be reliably determined.

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Checked By	CAY	Water Datum	Not Recorded	Elevation Datum	Ordnance Datum (Newlyn)	Grid Coordinate System	OSGB

Template: FGSL/HBSI/FGSL Nearshore BH Summary_Sizewell.hbt/Config Fugro Rev5/30/08/2019/TS+AW | Print Date: 29/01/2020

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 1 of 23
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									Sand (Driller's description). ASSUMED ZONE OF CORE LOSS.			
								1				
								2				
								3				
								4				
									Continued next page			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 2 of 23
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
								6				
								7				
								8				
								9				
									Continued next page			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 3 of 23
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
								11				
								12				
								13		(26.50)		
								14				
									Continued next page			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 4 of 23
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
								16				
								17				
								18				
								19				
									Continued next page			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 5 of 23
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
								21				
								22				
								23				
								24				
									Continued next page			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 6 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
								26				
										26.50	-42.75	
26.50 - 27.70				100	N/A	N/A		27	Firm becoming very stiff fissured dark brownish grey, locally mottled brown, silty CLAY with rare to occasional pyrite nodules/concretions (<15mm x 20mm x 30mm), locally with some to frequent tubular foraminifera (<1mm x 1mm x 4mm). Micaceous. Fissures are extremely closely spaced, locally very closely spaced, inclined (0-85 degrees), planar and undulating, smooth, locally polished, very tight and tight, locally with brown staining. [LONDON CLAY FORMATION, WALTON MEMBER] 27.10m to 27.30m; with some to frequent tubular foraminifera (<1mm x 1mm x 4mm). At 27.40m; with 1 No. dark grey pyrite nodule/concretion (15mm x 20mm x 30mm). At 27.60m; with 1 No. dark yellowish grey pyrite nodule/concretion (20mm x 20mm). 27.70m to 28.60m; very stiff.	(2.10)		
27.70 - 29.20				100	N/A	N/A		28	At 28.30m; with 1 No. dark greenish grey pyrite nodule/concretion (10mm x 10mm).			
										28.60	-44.85	
29.20 - 30.70				100	N/A	N/A		29	Very stiff fissured dark brownish grey, locally mottled brown and black, silty CLAY with some to frequent tubular foraminifera (<1mm x 1mm x 4mm) and occasional dark yellowish grey and grey pyrite nodules/concretions (<5mm x 10mm x 20mm). Micaceous. Fissures are extremely closely to medium spaced, subhorizontal, inclined (30-60 degrees) and subvertical, planar and undulating, smooth and polished, very tight and tight, with black and brown staining. [LONDON CLAY FORMATION, WALTON MEMBER] 29.85m to 30.10m; with 3 No. pyrite nodules/concretions (<5mm x 10mm x 20mm).	(1.75)		

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 7 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
										30.35	-46.60	
								31	Very stiff fissured grey and dark grey, locally mottled brown and black, silty CLAY, locally with extremely closely to closely spaced thin laminae/partings of light brownish grey fine sandy silt/silt, with some to frequent burrows (<2mm x 35mm) infilled with dark greenish grey pyritic silty clay, locally with frequent tubular foraminifera (<2mm x 2mm x 15mm), with some dark yellowish grey and greenish grey pyrite nodules/ concretions (<15mm x 20mm x 35mm). Micaceous. Fissures are extremely closely becoming widely spaced, randomly orientated, planar and undulating, smooth, locally polished and striated, very tight and tight, with occasional to abundant brown and black staining. [LONDON CLAY FORMATION, WALTON MEMBER]			
30.70 - 32.20				100	N/A	N/A			31.30m to 31.35m; with 2 No. dark yellowish grey pyrite nodules (10mm x 10mm). 31.46m to 31.67m; fissures are mainly extremely closely spaced, polished and striated (possible sheared zone).			
								32	32.20m to 32.35m; with 1 No. inclined (75 degrees) fissure, polished and striated (possibly sheared).			
32.20 - 33.70				100	N/A	N/A			32.70m to 32.90m; with extremely closely and very closely spaced thin laminae/partings of light brownish grey fine sandy silt and silt.			
								33		(5.30)		
									At 33.35m; with 1 No. subhorizontal possible burrow (5mm x 15mm x 55mm) infilled with dark grey pyrite.			
								34	At 34.00m; with 1 No. subhorizontal possible burrow (5mm x 15mm x 65mm) infilled with dark grey pyrite. 34.10m to 34.50m; with extremely closely to closely spaced thin laminae/partings of light brownish grey fine sandy silt and silt.			
33.70 - 35.20				100	N/A	N/A			At 34.40m; with 1 No. dark yellowish grey pyrite concretion (5mm x 10mm x 30mm).			
									Continued next page			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 8 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
										35.65	-51.90	
35.20 - 36.70				100	N/A	N/A		36	Very stiff, locally fissured, grey and dark grey silty CLAY with abundant pockets/lenses (<30mm x 35mm) and rare thin laminae/partings of light brownish grey fine sandy silt. Micaceous. [LONDON CLAY FORMATION, WALTON MEMBER] 35.68m to 35.95m; with 1 No. inclined (50-60 degrees) fissure, planar, smooth, polished, tight, locally with brown and black staining At 35.80m; with 1 No. burrow (10mm x 10mm x 30mm) infilled with dark yellowish grey pyrite. At 36.00m; with 1 No. dark yellowish grey pyrite nodule/ concretion (10mm x 10mm).	(0.55)		
										36.20	-52.45	
36.70 - 38.20				100	N/A	N/A		37	Very stiff grey mottled brown, locally mottled dark green (glauconitic), silty CLAY with extremely closely to closely spaced thin laminae/partings of light brownish grey fine sandy silt, with abundant pockets/ lenses (<20mm x 35mm) of light brownish grey fine sandy silt/silt, frequent burrows (<2mm x 25mm) infilled with brownish grey silty clay, some lignite fragments (<10mm x 20mm) and pyrite nodules (<5mm x 5mm), and rare burrows (<10mm x 10mm x 50mm) infilled with pyrite. Micaceous. [HARWICH FORMATION, WRABNESS MEMBER] 36.25m to 36.40m; mottled dark green (glauconitic). 37.30m to 37.40m; mottled dark green (glauconitic).	(1.50)		
										37.70	-53.95	
38.20 - 39.70				93	N/A	N/A		38	Very stiff brownish grey, locally mottled brown and black, silty CLAY with very closely and closely spaced thin laminae of light brownish grey silt, with some burrows (<2mm x 15mm) infilled with light brownish grey silty clay, some lignite fragments (<10mm x 15mm), locally with occasional pockets/lenses (<20mm x 30mm) of light brownish grey fine sandy silt/ silt. Micaceous. [HARWICH FORMATION, WRABNESS MEMBER] 38.20m to 38.30m; assumed zone of core loss. 38.48m to 38.75m; with 2 No. conjugating fissures, subvertical and inclined (70 degrees), planar, smooth, polished, tight, with brown staining.	(1.15)		
										38.85	-55.10	
								39	Strong grey and dark grey CLAYSTONE/MUDSTONE. Fresh. Slightly calcareous and calcareous. [HARWICH FORMATION, WRABNESS MEMBER]	(0.20)		
										39.05	-55.30	
									Very stiff brownish grey and greyish brown silty CLAY with some burrows (<2mm x 60mm) infilled with brownish grey silty clay, rare lignite fragments (<10mm x 10mm), locally with occasional to some pockets/ lenses (<20mm x 30mm) of light brownish grey fine sandy silt. Micaceous. [HARWICH FORMATION, WRABNESS MEMBER] 39.05m to 39.40m; with very closely and closely spaced thin laminae of light brownish grey silt. 39.20m to 39.40m; with 1 No. inclined (45 degrees) fissure, planar, smooth, polished and striated (possibly sheared), tight, with brown staining.	(0.95)		
										40.00	-56.25	
									Continued next page			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 9 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
39.70 - 41.20				100	N/A	N/A		41	Very stiff, locally fissured, brown mottled black, locally dark grey, silty CLAY with closely to widely spaced very thin and thin beds of very stiff dark grey tuffaceous silty clay (locally extremely weak claystone), with some burrows (<2mm x 40mm) infilled with dark grey pyritic silty clay, and rare pyrite nodules/ concretions (<75mm). Fissures are inclined (45-90 degrees), planar, smooth, tight, locally very tight, with black staining. [HARWICH FORMATION, WRABNESS MEMBER] At 40.15m; with 1 No. dark yellowish grey pyrite nodule/ concretion (15mm 20mm x 35mm). At 40.21m; with 1 No. black fibrous plant remain (2mm x 20mm x 100mm). 40.49m to 40.88m; with 1 No. subvertical fissure.			
41.20 - 42.70				100	N/A	N/A		42	41.56m to 41.60m; very thin bed of claystone. 41.60m to 41.85m; with 1 No. subvertical fissure. 41.85m to 43.30m; with closely spaced very thin and thin beds of silty clay.			
42.70 - 44.20				100	N/A	N/A		43				
44.20 - 45.70				100	N/A	N/A		44	44.40m to 44.80m; with 3 No. closely spaced thin beds of silty clay.	(9.20)		
									Continued next page			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
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Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 10 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									45.05m to 45.30m; with 1 No. inclined (65 degrees) fissure.			
									At 45.30m; with 1 No. subhorizontal flat dark yellowish grey pyrite concretion (25mm x 75mm x 75mm).			
									45.84m to 45.93m; with 1 No. thin bed silty clay/ claystone.			
								46				
45.70 - 47.20				100	N/A	N/A			46.27m to 46.80m; with very closely and closely spaced thin laminae of light greyish brown and light brownish grey fine sandy silt, with frequent pockets/lenses (<15mm x 20mm) of light greyish brown and light brownish grey fine sandy silt.			
								47	46.94m to 46.98m; very thin bed of silty clay/claystone.			
									47.20m to 47.65m; with 3 No. closely spaced very thin beds and thin beds of silty clay.			
									47.46m to 47.55m; with 1 No. inclined (45 degrees) fissure, tight, possibly very tight.			
47.20 - 48.70				100	N/A	N/A		48	At 47.73m; with 1 No. strong and very strong dark grey limestone fragment (50mm x 60mm x 90mm) (possibly drilling fragmented). 47.90m to 48.40m; locally dark grey, with indistinct laminae/beds of possibly highly tuffaceous silty clay.			
								49	48.90m to 49.00m; with 1 No. inclined (45 degrees) fissure.			
									Strong and very strong, locally moderately weak, grey and dark grey LIMESTONE with frequent subvertical white calcite veins (<2mm x 200mm). Possibly fresh, locally slightly weathered. [HARWICH FORMATION, WRABNESS MEMBER, HARWICH STONE BAND]	49.20 (0.33) 49.53	-65.45 -65.78	
48.70 - 50.20				100	N/A	N/A			49.20m to 49.23m; moderately weak, with slight discolouration to light brownish grey. Slightly weathered. 49.50m to 49.53m; moderately weak, with slight discolouration to light brownish grey. Slightly weathered.			
									Very stiff dark greyish brown silty CLAY with very closely to medium spaced very thin and thin beds of			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 11 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									very stiff dark grey tuffaceous silty clay. Possible Harwich Formation, Wrabness Member. [HARWICH FORMATION, WRABNESS MEMBER]	(2.03)		
50.20 - 51.70				100	N/A	N/A		51	51.12m to 51.30m; thin bed of very stiff dark grey tuffaceous silty clay.			
									Very stiff, locally fissured, dark greyish brown, locally dark grey, silty CLAY, locally slightly sandy silty clay, with very closely to widely spaced thick laminae and very thin beds of very stiff dark grey tuffaceous silty clay, locally with extremely closely and very closely spaced thin and thick laminae of light greyish brown fine sandy silt/silt. Sand is fine. [HARWICH FORMATION, ORWELL MEMBER]	51.56	-67.81	
								52	51.56m to 51.70m; with extremely closely and very closely spaced thin and thick laminae of fine sandy silt/ silt.			
51.70 - 53.20				100	N/A	N/A			52.75m to 53.20m; with extremely closely and very closely spaced thin and thick laminae of fine sandy silt/ silt.			
								53	53.10m to 53.20m; with occasional to some fine sand sized glauconite.			
53.20 - 54.70				100	N/A	N/A		54	54.00m to 55.00m; with extremely closely and very closely spaced thin and thick laminae of fine sandy silt/ silt.	(5.84)		
									Continued next page			

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Contract Name	SZC 2019 Offshore Ground Investigation			Location ID	
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**	
Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 12 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
54.70 - 56.20				100	N/A	N/A			55.50m to 56.20m; with extremely closely and very closely spaced thin and thick laminae of fine sandy silt/ silt.			
								56				
56.20 - 57.70				100	N/A	N/A			56.75m to 57.40m; with extremely closely and very closely spaced thin and thick laminae of fine sandy silt/ silt.			
								57				
									Stiff dark brownish grey and light greyish brown slightly sandy silty CLAY with extremely closely and very closely spaced thin laminae of light greyish brown fine sandy silt, with frequent to abundant pockets/lenses (<10mm x 20mm) of light greyish brown fine sandy silt and frequent burrows (<2mm x 35mm) infilled with light greyish brown clayey silt. Sand is fine. [HARWICH FORMATION, ORWELL MEMBER]	57.40	-73.65	
										(0.30)		
										57.70	-73.95	
								58	Greyish brown silty SAND with some becoming frequent irregular burrows (<30mm x 50mm) and pockets (<35mm x 40mm) of soft brown clay. Possible Harwich Formation, Orwell Member. [HARWICH FORMATION, ORWELL MEMBER]			
57.70 - 59.20				100	N/A	N/A				(1.50)		
								59				
									59.10m to 59.20m; thinly laminated firm brown clayey silt, locally micro cross-bedded (15-20 degrees) with light brownish grey and light grey silt.	59.20	-75.45	
									Clay/fine sand (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.40)		
										59.60	-75.85	
59.20 - 60.70				73	N/A	N/A			Very stiff indistinctly microfissured brown and light brown mottled bluish grey silty CLAY with extremely closely and very closely spaced subhorizontal thin and thick laminae of light brown and light grey calcareous and highly calcareous silt, with frequent burrows			

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- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**
Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 13 of 23
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									(<3mm x 50mm) infilled with light grey silt. Slightly calcareous. Microfissures are possibly extremely closely spaced, randomly orientated. Possibly locally reworked, weathered horizon of undifferentiated Mottled Beds (Reading Formation). [READING FORMATION] 59.60m to 59.70m; recovered as firm and stiff dark greyish brown and grey slightly gravelly silty clay. Slightly calcareous. Gravel is rounded medium of flint (possibly reworked). 59.73m to 59.77m; very thin bed of moderately weak and medium strong brown and light brown mottled bluish grey mudstone. Calcareous and highly calcareous. 59.81m to 59.92m; thin bed of moderately weak and medium strong brown and light brown mottled bluish grey mudstone. Calcareous and highly calcareous. 60.10m to 60.21m; thin bed of moderately weak and medium strong brown and light brown mottled bluish grey mudstone. Calcareous and highly calcareous.	(1.10)		
										60.70	-76.95	
								61		(0.65)		
									Clay/fine sand (Driller's description). ASSUMED ZONE OF CORE LOSS.			
60.70 - 62.20				57	N/A	N/A			Firm brown, locally dark grey, sandy SILT, locally sandy clayey silt, with extremely closely and very closely spaced micro cross-bedded (20 degrees) thin laminae of dark grey clayey silt. Locally calcareous. Sand is fine. Undifferentiated Mottled Beds (Reading Formation), possible Channel Sands. [READING FORMATION]	61.35 (0.25)	-77.60	
										61.60	-77.85	
								62	Stiff and very stiff brown, light bluish grey and light grey, silty CLAY. Undifferentiated Mottled Beds (Reading Formation). [READING FORMATION] 61.60m to 62.15m; with extremely closely and very closely spaced micro cross-bedded (10-20 degrees) thin and thick laminae of light bluish grey and light grey silt. Calcareous and highly calcareous. 62.15m to 62.30m; dark grey and black (possibly organic) silty clay.	(0.70)		
										62.30	-78.55	
62.20 - 63.70				90	N/A	N/A			Dark yellowish brown silty SAND. Slightly calcareous and calcareous. Sand is fine and medium. Undifferentiated Mottled Beds (Reading formation), possible Channel Sands. [READING FORMATION] 62.30m to 62.60m; medium bed of dark greyish brown fine sandy silt.			
								63		(1.40)		
									63.40m to 63.55m; thin bed of dark greyish brown, locally mottled yellowish brown, fine sandy silt. 63.55m to 63.70m; assumed zone of core loss.			
										63.70	-79.95	
								64	Firm brown, locally dark grey, sandy SILT, locally sandy clayey silt, with extremely closely and very closely spaced micro cross-bedded (20 degrees) thin laminae of dark grey clayey silt. Calcareous. Sand is fine. Undifferentiated Mottled Beds (Reading Formation), possible Channel Sands. [READING FORMATION]	(0.60)		
										64.30	-80.55	
63.70 - 65.20				97	N/A	N/A			Very stiff microfissured brown and light brown mottled bluish grey silty CLAY with extremely closely to closely spaced thin and thick laminae of light brown and light grey calcareous and highly calcareous silt, with frequent burrows (<4mm x 60mm) infilled with light grey silt. Slightly calcareous. Microfissures are extremely closely spaced, randomly orientated. Possibly weathered horizon of undifferentiated Mottled Beds (Reading Formation). [READING FORMATION]			

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Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 14 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
										(1.80)		
65.20 - 66.70				100	N/A	N/A		66	66.00m to 66.10m; with 1 No. inclined (65 degrees) fissure, planar, smooth, very tight.	66.10	-82.35	
									Very stiff indistinctly fissured and microfissured dark bluish grey mottled brown silty CLAY. Fissures are possibly closely spaced, mainly inclined (45-60 degrees), planar, smooth, polished and striated (possibly sheared), very tight. Microfissures are extremely closely spaced, randomly orientated. Possibly weathered horizon of undifferentiated Mottled Beds (Reading Formation). [READING FORMATION]	(0.60)		
									Very stiff microfissured dark bluish grey silty CLAY. Undifferentiated Mottled Beds (Reading Formation). [READING FORMATION]	66.70	-82.95	
								67		(0.70)		
66.70 - 68.20				100	N/A	N/A			Stiff and very stiff dark grey and greenish grey, locally mottled purplish red, slightly sandy SILT, locally slightly sandy clayey silt. Sand is fine. (Undifferentiated Mottled Beds - Red Mottled Unit). [READING FORMATION]	67.40	-83.65	
									67.40m to 67.75m; dark grey, locally mottled purplish red, slightly clayey silt.			
								68	68.00m to 68.60m; greenish grey mottled purplish red.	(1.20)		
									Dark brownish grey and dark grey mottled yellowish brown and dark grey SAND with extremely closely spaced micro cross-bedded (10-15 degrees) thin laminae of dark grey fine sand. Sand is fine and medium. Undifferentiated Mottled Beds (Reading Formation), possible Channel Sands. [READING FORMATION]	68.60	-84.85	
68.20 - 69.70				90	N/A	N/A		69	69.25m to 69.47m; medium bed of firm and stiff brown clay.	(1.25)		
									69.55m to 69.70m; assumed zone of core loss.			
									69.70m to 69.85m; highly bioturbated, with abundant randomly orientated burrows (<10mm x 55mm) infilled with firm dark grey clay.	69.85	-86.10	
									Very stiff fissured dark greyish brown and dark			

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Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 15 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
69.70 - 71.20				100	N/A	N/A			greenish brown (glauconitic) silty CLAY with frequent burrows (<2mm x 35mm) infilled with grey silty clay, some to frequent tubular foraminifera (<1mm x 5mm), and frequent glauconite grains (<2mm). Fissures are mainly indistinct, possibly very closely spaced, randomly orientated, planar and undulating, smooth, locally polished and striated (possibly sheared), very tight and tight, with some brown and black staining. [LISTA FORMATION, ORMESBY CLAY MEMBER, OC3]			
									70.17m to 70.53m; with 1 No. subvertical fissure, polished and striated (possibly sheared).			
								71	70.93m to 71.15m; with 2 No. conjugating, inclined (60 degrees and 70 degrees) fissure, polished.			
71.20 - 72.70				100	N/A	N/A		72		(4.10)		
									72.60m to 72.80m; thin bed of glauconitic slightly fine sandy silty clay.			
								73				
72.70 - 74.20				100	N/A	N/A			73.15m to 73.28m; with 1 No. inclined (75 degrees) fissure, polished.			
									At 73.30m; with 1 No. pocket (20mm x 20mm) of dark green glauconite.			
								74	Very stiff fissured dark brownish grey mottled dark green (glauconitic) slightly sandy silty CLAY with some to frequent burrows (<1mm x 20mm) infilled with light grey and white possible silt, locally with frequent to abundant possible tubular foraminifera (<1mm x 4mm). Sand is fine. Fissures are mainly indistinct, possibly very closely to medium spaced, subhorizontal and inclined (30-70 degrees), planar and undulating, smooth, locally polished and striated (possibly sheared), very tight and tight, with some brown and black speckling. [LISTA FORMATION, ORMESBY CLAY MEMBER, OC3]	73.95	-90.20	
74.20 - 75.70				93	N/A	N/A						

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Fugro Reference	G190016U	Water Depth (m Datum)	NR		
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 16 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details				
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									75.60m to 75.70m; assumed zone of core loss.			
									75.70m to 75.90m; with abundant dark green mottling (highly glauconitic). 75.70m to 77.30m; slightly calcareous.			
								76	76.00m to 76.20m; with 1 No. inclined (60 degrees) fissure, polished.			
75.70 - 77.20				100	N/A	N/A			76.40m to 76.60m; with 1 No. inclined (50-60 degrees) fissure, polished.			
										(5.55)		
								77				
77.20 - 78.70				100	N/A	N/A		78	78.20m to 78.40m; with 1 No. inclined (60 degrees) fissure, polished and striated (possibly sheared).			
								79	79.14m to 79.30m; with 1 No. subvertical fissure, planar, smooth, tight, with dark greyish green staining. 79.30m to 79.50m; dark greenish grey.			
78.70 - 80.20				100	N/A	N/A				79.50	-95.75	
									Very stiff dark brownish grey silty CLAY with frequent burrows (<1mm x 10mm) infilled with light grey silt. [LISTA FORMATION, ORMESBY CLAY MEMBER, OC3]	(0.35)		
									79.60m to 79.85m; with 1 No. subvertical becoming inclined (45-50 degrees) fissure, curved, smooth, polished and striated (possibly sheared), tight, with slight	79.85	-96.10	

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Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 17 of 23
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									dark grey staining.			
									Very stiff fissured dark reddish brown mottled dark grey silty CLAY with abundant randomly orientated burrows (<1mm x 40mm) (possibly with tubular foraminifera) infilled with white and light grey silt. Fissures are mainly medium spaced, locally conjugating, inclined (40-70 degrees), planar and undulating, smooth, polished and striated (possibly sheared), tight, with brown and black staining. [LISTA FORMATION, ORMESBY CLAY MEMBER, OC2]	(1.55)		
80.20 - 81.70				100	N/A	N/A		81				
										81.40	-97.65	
									Very stiff fissured dark grey becoming dark greyish green (glauconitic) silty CLAY (possibly extremely weak mudstone) with frequent to abundant burrows (<2mm x 35mm) (possibly with tubular foraminifera) infilled with grey and white silt. Locally slightly calcareous. Fissures are very closely and closely spaced, inclined (0-40 degrees), planar, rough, locally smooth, locally polished and striated (possibly sheared), tight, locally very tight, with some dark green staining. [LISTA FORMATION, ORMESBY CLAY MEMBER, OC1]			
81.70 - 82.70				100	N/A	N/A		82	81.40m to 81.70m; dark greenish grey, locally mottled reddish brown. At 81.55m; with 1 No. inclined (35 degrees) fissure, smooth, polished and striated (possibly sheared), very tight. 82.60m to 82.70m; with 1 No. subvertical fissure, planar, rough, tight, with dark green staining. 82.70m to 84.00m; dark greyish green (glauconitic).	(2.80)		
82.70 - 84.20				100	N/A	N/A		83	83.50m to 83.85m; with 1 No. subvertical fissure, undulating, rough, possibly partly open, infilled (<0.3mm) with white slightly calcareous material.			
								84	84.00m to 84.20m; dark greyish green (highly glauconitic) slightly gravelly silty clay. Gravel is subrounded to well rounded fine and medium of brown and grey chert and flint.	84.20	-100.45	
									Clay/silt/flint (Driller's description). ASSUMED ZONE OF CORE LOSS.	(0.45)		
										84.65	-100.90	
									Dark greenish grey (glauconitic) slightly sandy clayey GRAVEL. Sand is fine to coarse. Gravel is angular to subrounded mainly medium and coarse of brown, reddish brown and black flint. Ormesby Clay Member, OC1, Bullhead Beds.	(0.15)		
84.20 - 85.70				70	60	60				84.80	-101.05	

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Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
84.80 - 85.70							- 900 -		[LISTA FORMATION, ORMESBY CLAY MEMBER, OC1] Weak high density white CHALK with rare light grey mottling (possible burrows). Natural fractures not observed. CIRIA Grade undetermined. Possible Weybourne Chalk. [BEESTON CHALK] At 84.89m; with 1 No. bivalve shell (1mm x 10mm x 20mm). 84.89m to 84.99m; with 2 No. subangular flint fragments (<50mm x 100mm x 100mm), possible medium whole nodular flint.	(0.90) 85.70	-101.95	
85.70 - 87.20				0	0	0		86 87	Chalk with flints (Driller's description). ASSUMED ZONE OF CORE LOSS/POOR RECOVERY. Driller noted flint fragments (<80mm x 90mm x 100mm) jammed in core barrel. 87.20m to 88.70m (100mm recovery); recovered as 1 No. subangular flint fragment (100mm x full core diameter).	(4.00)		MR/ AZCL
85.70 - 89.70							NR					
87.20 - 88.70				7	0	0		88				
88.70 - 89.70				3	0	0		89	88.70m to 89.70m (30mm recovery); recovered as 1 No. subangular flint fragment (30mm x 80mm x 100mm).			
89.70 - 90.20				100	100	100			Moderately weak very high density white CHALK (chalkstone) with rare bivalve shell fragments (<1mm x 30mm). Natural fractures not observed. CIRIA Grade undetermined. Possible Weybourne Chalk, Catton	89.70	-105.95	

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Fugro Reference	G190016U	Water Depth (m Datum)	NR	
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 19 of 23
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
89.70 - 90.50							- 800 -		Sponge Bed. [WEYBOURNE CHALK] 89.70m to 89.94m; non intact (assumed drilling induced). Recovered as subangular flint fragments (<80mm x 80mm x 100mm), possibly large and very large whole flint, with angular chalkstone fragments (<20mm x 30mm x 40mm). At 90.05m; with 1 No. light brown phosphatic nodule (5mm x 5mm). 90.13m to 90.20m; non intact (assumed drilling induced). Recovered as angular and subangular chalkstone fragments (<30mm x 40mm x 60mm) with occasional dark green glauconitic mineralisation. 90.42m to 90.50m; non intact (assumed drilling induced). Recovered as subangular chalk and chalkstone fragments (<50mm x 60mm x 60mm).	(0.80)		
90.20 - 91.70				93	93	93	120 300 340	91	Very weak and weak medium and high density white CHALK with occasional light grey and dark grey mottling (possible burrows). Fractures are closely and medium spaced, subhorizontal and locally inclined (45 degrees), planar, locally stepped, smooth, locally rough, very tight, locally wide, locally infilled (<20mm) with soft dark brown communited chalk (sandy clay) with occasional chalk fragments (<20mm). CIRIA Grade A3/A2, locally C2. Possible Weybourne Chalk. [WEYBOURNE CHALK] 90.74m to 90.76m; non intact (assumed drilling induced). Recovered as angular and subangular chalk fragments (<10mm x 10mm x 10mm). At 91.00m; with 1 No. echinoid spine fragment (1mm x 5mm x 5mm). 91.60m to 91.70m; assumed zone of core loss. At 91.95m; with 1 No. possible oyster (hyotissa) shell fragment (1mm x 25mm x 50mm).	90.50	-106.75	
90.50 - 91.52												
91.52 - 91.60							- 80 -					
91.60 - 91.70												
91.70 - 92.11							NR - 410 -	92		(2.77)		
92.11 - 92.39							100 - 165					
91.70 - 93.20				100	98	98			92.36m to 92.39m; possibly with extremely closely spaced subhorizontal fractures producing non intact core. Recovered as angular chalk fragments (<10mm x 10mm x 10mm). CIRIA Grade undetermined. 92.59m to 92.64m; non intact (assumed drilling induced). Recovered as angular chalk fragments (<5mm x 10mm x 10mm) and 1 No. subrounded small to medium nodular flint (50mm x 50mm x 100mm) with rare comminuted chalk.			
92.39 - 93.27							315 - 580	93	92.94m to 93.03m; with 1 No. possibly medium nodular flint (90mm x 100mm x 100mm).			
93.20 - 93.44	C	1							93.15m to 93.20m; non intact (assumed drilling induced). Recovered as comminuted chalk with occasional angular chalk fragments (<10mm x 10mm x 10mm) and 1 No. angular flint fragment (30mm x 30mm x 30mm).	93.27	-109.52	
93.27 - 93.79							15 160 185		Very weak and weak low to high density white CHALK with occasional to frequent light greyish brown and dark greyish brown mottling (possible burrows) and rare black sponge (<5mm x 30mm). Fractures are closely spaced, locally extremely closely spaced, becoming widely and very widely spaced, inclined (0-15 degrees), planar, smooth, very tight. CIRIA Grade A3, locally A5, becoming A1. Possible Weybourne Chalk. [WEYBOURNE CHALK] At 94.03m; with 1 No. bivalve shell (10mm x 10mm).			
93.79 - 94.26	C	2										
93.20 - 94.70				100	100	99		94				
93.79 - 95.84							- 2050 -		94.57m to 94.63m; with 2 No. burrows (<10mm x 60mm) infilled with dark green and grey glauconitic material and 2 No. angular flint fragments (<5mm x 10mm x 10mm). At 94.60m; with 1 No. shell fragment (5mm x 5mm x 5mm). 94.67m to 94.70m; non intact (assumed drilling induced). Recovered as angular chalk fragments (<30mm x 30mm			

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Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
									x 40mm).			
94.70 - 96.20				93	93	93				(4.51)		
							-					
95.84 - 96.10							260	96	95.99m to 96.10m; non intact (assumed drilling induced). Recovered as angular and subangular flint fragments (<50mm x 60mm x 90mm) and chalk fragments (<10mm x 10mm x 10mm).			
							-					
96.10 - 96.20							NR		96.10m to 96.20m; assumed zone of core loss.			
96.20 - 97.60							570					
96.20 - 97.70				93	93	93	-	97	96.94m to 96.98m; possibly with 1 No. small whole nodular flint (25mm x 50mm x 85mm).			
							830		97.21m to 97.32m; with 1 No. medium to large whole nodular flint (80mm x 100mm x 100mm).			
97.60 - 97.70							NR		97.60m to 97.70m; assumed zone of core loss.			
97.70 - 97.78							-		97.70m to 97.78m; non intact (assumed drilling induced). Recovered as subangular moderately weak possibly very high density chalk and chalkstone fragments (<50mm x 50mm x 50mm) with occasional dark green (glauconitic) nodules (<5mm x 5mm x 5mm). Possible hardground.	97.78	-114.03	
							80	98	Very weak low to high density white CHALK with occasional to frequent light greyish brown and dark greyish brown mottling (possible burrows) and occasional black sponge (<5mm x 100mm). Fractures are widely and very widely spaced, subhorizontal, planar, smooth, very tight. CIRIA Grade A1. Possible Weybourne Chalk.			
							-		[PRE-WEYBOURNE CHALK]			
97.78 - 99.10				93	93	93	-		97.92m to 98.00m; with angular and subangular flint fragments (<25mm x 30mm x 50mm), possibly small whole nodular flint.			
97.70 - 99.20							1320		98.10m to 98.13m; with 1 No. subangular small nodular flint (30mm x 50mm x 100m).			
							-		At 98.89m; with 1 No. brachiopod (Cretirhynchia) shell (10mm x 10mm x 10mm).			
								99	98.89m to 98.98m; non intact (assumed drilling induced). Recovered as angular chalk fragments (<10mm x 10mm x 10mm) and angular and subangular flint fragments (<40mm x 60mm x 70mm), possibly small to medium whole nodular flint, with rare comminuted chalk.			
99.10 - 99.20							NR		99.10m to 99.20m; assumed zone of core loss.			
99.45 - 99.94	C	3							At 99.62m; with 1 No. possible coral fragment (2mm x 3mm x 11mm).			
99.94 - 100.36	C	4		100	100	100						
99.20 - 100.70												

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Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
99.20 - 103.65 100.70 - 102.20				100	100	100	1070 - 2220	101	At 100.13m; with 1 No. shell fragment (1mm x 1mm x 2mm). At 100.70m; with 1 No. burrow (15mm x 15mm x 20mm) infilled with dark green glauconitic material. 101.08m to 101.13m; with 1 No. belemnite (Belemnitella) (10mm x 10mm x 50mm). 101.12m to 101.13m; with 1 No. dark green glauconite nodule (10mm x 10mm x 10mm).	(5.87)		
102.20 - 103.70				97	97	97		102 103	At 101.93m; with 1 No. belemnite (Belemnitella) fragment (10mm x 10mm x 20mm) and 1 No. bivalve shell fragment (1mm x 5mm x 5mm). At 102.25m; with 2 No. belemnite (Belemnitella) fragments (<10mm x 10mm x 10mm).			
103.65 - 105.20 103.70 - 105.20				0	0	0	NR	104	Chalk with flints (Driller's description). ASSUMED ZONE OF CORE LOSS/NO RECOVERY.	103.65 (1.55)	-119.90	
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Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 22 of 23	
Hole Type	Rotary Open Hole and Rotary Coring			Status	Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
										105.20	-121.45	
105.20 - 105.80							- 600 -		Very weak low and medium density white CHALK with frequent light grey and dark grey mottling (possible burrows). Natural fractures not observed. CIRIA Grade undetermined. Possible Weybourne Chalk. [PRE-WEYBOURNE CHALK] 105.37m to 105.45m; with angular and subangular flint fragments (<5mm x 15mm x 20mm), possibly medium whole nodular flint (65mm x 75mm x 100mm). At 105.64m; with 1 No. dark grey sponge (40mm x 45mm). 105.69m to 105.80m; with 1 No. subrounded possibly large nodular/tabular flint (110mm x full diameter).	(0.60)		
105.20 - 106.70				40	40	40		106	Chalk with flints (Driller's description). ASSUMED ZONE OF CORE LOSS.	105.80	-122.05	
105.80 - 106.70							NR			(0.90)		
										106.70	-122.95	
106.70 - 108.20				100	100	100	740 - 760	107	Extremely weak low and medium density white CHALK with frequent to abundant light grey mottling (possible burrows). Fractures are possibly widely spaced, inclined (70 degrees), planar, smooth, very tight. Possible CIRIA Grade A1. Possible Weybourne Chalk. [PRE-WEYBOURNE CHALK]	(1.50)		
106.70 - 108.20									At 107.73m; with 1 No. dark green glauconite nodule (1mm x 2mm).			
								108		108.20	-124.45	
108.20 - 109.70				0	0	0		109	Chalk with flints (Driller's description). NO RECOVERY/ASSUMED ZONE OF CORE LOSS.			
108.20 - 110.80							NR			(2.60)		

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Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 23 of 23
Hole Type	Rotary Open Hole and Rotary Coring			Status: Draft

Depth (m)	Sampling and In Situ Testing			Core Recovery				Strata Details					
	Type	No.	Test Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Depth (m)	Strata Descriptions	Depth (Thickness) (m)	Level (m Datum)	Legend
109.70 - 111.20				27	27	27						
110.80 - 111.20							100 - 300	111	Very weak medium density white CHALK with occasional light grey mottling (possible burrows). Fractures are possibly subvertical, planar, smooth, very tight. CIRIA Grade undetermined. Possible Weybourne Chalk. [PRE-WEYBOURNE CHALK] 110.80m to 110.88m; with 1 No. subrounded possibly medium nodular flint (80mm x full diameter). 110.88m to 110.00m; non intact (assumed drilling induced). Recovered as light brown comminuted chalk (fine and medium sand) with occasional angular chalk fragments (<5mm x 15mm x 15mm) and abundant angular and subangular flint fragments (<15mm x 20mm x 30mm), possibly medium whole flint (50mm x 70mm x 120mm).	110.80 (0.40) 111.20	-127.05 -127.45	
									End of Borehole at 111.20 m			
								112				
								113				
								114				

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

	Contract Name	SZC 2019 Offshore Ground Investigation		Location ID
	Client	NNB Generation Company (SZC) Limited		**OT_RB_07**
	Fugro Reference	G190016U		
	Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum) -16.25	Sheet 1 of 23
	Hole Type	Discontinuity Log		Status Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
0.00 - 26.50								Rotary drilling (NCD).			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

	Contract Name	SZC 2019 Offshore Ground Investigation		Location ID
	Client	NNB Generation Company (SZC) Limited		**OT_RB_07**
	Fugro Reference	G190016U		
	Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum) -16.25	Sheet 2 of 23
	Hole Type	Discontinuity Log		Status Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									6		
									7		
									8		
									9		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

	Contract Name	SZC 2019 Offshore Ground Investigation		Location ID
	Client	NNB Generation Company (SZC) Limited		**OT_RB_07**
	Fugro Reference	G190016U		
	Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum) -16.25	Sheet 3 of 23
	Hole Type	Discontinuity Log		Status Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									11		
									12		
									13		
									14		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

	Contract Name	SZC 2019 Offshore Ground Investigation		Location ID
	Client	NNB Generation Company (SZC) Limited		**OT_RB_07**
	Fugro Reference	G190016U		
	Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum) -16.25	Sheet 4 of 23
	Hole Type	Discontinuity Log		Status Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									16		
									17		
									18		
									19		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**
Fugro Reference	G190016U			
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 5 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									21		
									22		
									23		
									24		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**
Fugro Reference	G190016U			
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 6 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
26.50 - 111.20								Rotary drilling (Geobor).	26 27 28 29		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

	Contract Name	SZC 2019 Offshore Ground Investigation		Location ID
	Client	NNB Generation Company (SZC) Limited		**OT_RB_07**
	Fugro Reference	G190016U		
	Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum) -16.25	Sheet 7 of 23
	Hole Type	Discontinuity Log		Status Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									31 32 33 34		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**
Fugro Reference	G190016U			
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 8 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									36 37 38 39		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**
Fugro Reference	G190016U			
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 9 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									41 42 43 44		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**
Fugro Reference	G190016U			
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 10 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									46 47 48 49		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**
Fugro Reference	G190016U			
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 11 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									51		
									52		
									53		
									54		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**
Fugro Reference	G190016U			
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 12 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									56 57 58 59		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**
Fugro Reference	G190016U			
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 13 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									61 62 63 64		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**
Fugro Reference	G190016U			
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 14 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									66 67 68 69		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**
Fugro Reference	G190016U			
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 15 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									71 72 73 74		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**
Fugro Reference	G190016U			
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 16 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
									76 77 78 79		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**
Fugro Reference	G190016U			
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 17 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
84.80 84.80 - 85.70								Top of chalk. Natural fractures not observed.	81 82 83 84		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**
Fugro Reference	G190016U			
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 18 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
85.70 - 89.70								Assumed zone of core loss / poor recovery.	86 87 88 89		
89.70 - 90.50								Natural fractures not observed.			

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**
Fugro Reference	G190016U			
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 19 of 23
Hole Type	Discontinuity Log			Status: Draft

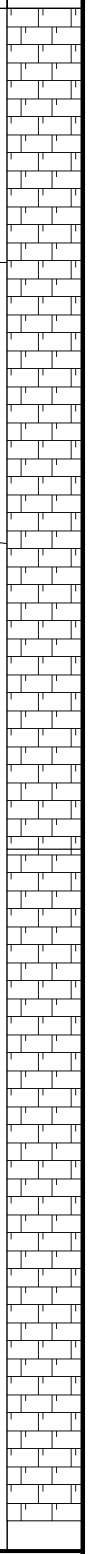
Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
90.50	BF	0		Very tight	Planar	Smooth		Slightly scrubbed (assumed drilling disturbed).		0 °	
90.62	BF	0		Very tight	Planar	Smooth		Slightly scrubbed (assumed drilling disturbed).		0 °	
90.96	BF	0		Very tight	Planar	Smooth		Slightly scrubbed (assumed drilling disturbed).	91	0 °	
91.25	BF	0		Very tight	Planar	Smooth		Slightly scrubbed (assumed drilling disturbed).		0 °	
91.42 - 91.52	J	45	20	Wide	Stepped	Rough		Infilled (<20mm) with soft dark brown comminuted chalk (sandy clay) with occasional angular and subangular chalk fragments (<20mm).		45 °	
92.11	BF	0		Very tight	Planar	Smooth			92	0 °	
92.21	BF	0		Very tight	Planar	Smooth				0 °	
92.36 - 92.39								Possibly with extremely closely spaced subhorizontal fractures producing non intact core. Recovered as angular chalk fragments (<10mm x 10mm x 10mm).			
92.69	BF	0		Very tight	Planar	Smooth				0 °	
93.44	BF	0		Very tight	Planar	Smooth			93	0 °	
93.59	BF	0		Very tight	Planar	Smooth				0 °	
93.59 - 93.62	J	15		Very tight	Planar	Smooth				15 °	
93.79	BF	0		Very tight	Planar	Smooth				0 °	
									94		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**
Fugro Reference	G190016U			
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 20 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
95.84	BF	5		Very tight	Planar	Smooth					
96.74 - 96.80	J	15		Very tight	Undulating	Smooth					

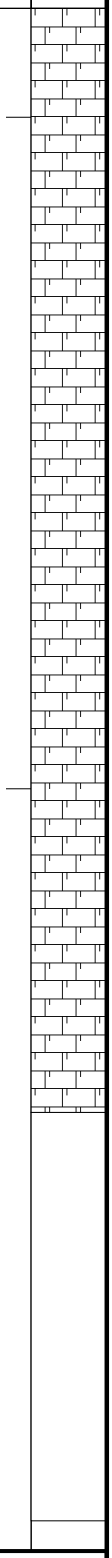


Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**
Fugro Reference	G190016U			
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 21 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
100.36	BF	5		Very tight	Planar	Smooth					
102.58	BF	5		Very tight	Planar	Smooth					
103.65 - 105.20								Assumed zone of core loss / no recovery.			



Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**
Fugro Reference	G190016U			
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 22 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
105.20 - 105.80								Natural fractures not observed.			
105.80 - 106.70								Assumed zone of core loss.			
									106		
									107		
107.31 - 107.61	J	70		Very tight	Planar	Smooth				70 °	
									108		
108.20 - 110.80								No recovery / assumed zone of core loss.			
									109		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Contract Name	SZC 2019 Offshore Ground Investigation			Location ID
Client	NNB Generation Company (SZC) Limited			**OT_RB_07**
Fugro Reference	G190016U			
Coordinates (m)	E651925.35 N264126.19	Ground Elevation (m Datum)	-16.25	Sheet 23 of 23
Hole Type	Discontinuity Log			Status: Draft

Discontinuity Details									Discontinuity Information		
Depth (m)	Type	Dip (°)	Aperture (mm)	Aperture Observation	Medium Scale Roughness	Small Scale Roughness	Set Reference	Remarks	Depth (m)	Discontinuity Log	Legend
111.00 - 111.20	J	80		Very tight	Planar	Smooth			111	80 °	
									112		
									113		
									114		

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Appendix D

Photographic Records

Appendix D Contents

D.1 Core Photographs – Intake 1
D.2 Core Photographs – Intake 2
D.3 Core Photographs – Outfall

D.1 Core Photographs – Intake 1

IT1_SB_01

IT1_SB_02

IT1_SB_03

IT1_SB_04

IT1_SB_05

IT1_SB_06

IT1_SB_07

IT1_SPT_04

D.2 Core Photographs – Intake 2

IT2_SB_01

IT2_SB_02

IT2_SB_03

IT2_SB_04

IT2_SPT_02

D.3 Core Photographs – Outfall

OT_SB_01

OT_SB_02

OT_SB_03

OT_SB_04

OT_SB_05

OT_SB_06

OT_SB_07

OT_SPT_03

OT_RB_07

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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SB-01
SAMPLE REF: CR 01
DEPTH TOP: 0.00 (m)
DATE: 06/10/19
BOX REF: 01
DEPTH BASE: 1.50 (m)
BASE
-CR01-
0.00m
1.50m
ESWAC1 COMPOSITE SAMPLES; 0.00-19.50m

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CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 02
DEPTH TOP: 1.50 (m)

DATE: 06 / 10 / 19
BOX REF: 02
DEPTH BASE: 3.00 (m)

BASE

-CR02-

2.90mt AZCL

1.50m

3.00m

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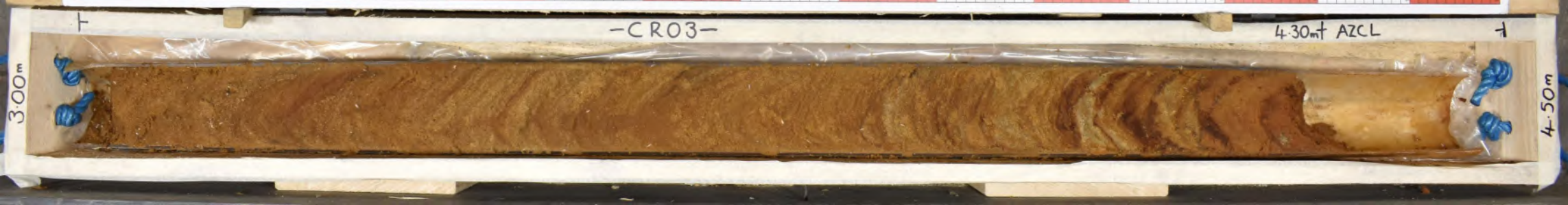
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 03
DEPTH TOP: 3·00 (m)

DATE: 06 / 10 /19
BOX REF: 03
DEPTH BASE: 4·50 (m)

BASE



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CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 04
DEPTH TOP: 4·50 (m)

DATE: 06 / 10 /19
BOX REF: 04
DEPTH BASE: 6·00 (m)

BASE

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CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 05
DEPTH TOP: 6.00 (m)

DATE: 06 / 10 / 19
BOX REF: 05
DEPTH BASE: 7.50 (m)

BASE

-CR05-

7.40m AZCL

6.00m

7.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 06
DEPTH TOP: 7.50 (m)

DATE: 06 / 10 /19
BOX REF: 06
DEPTH BASE: 9.00 (m)

BASE

T

-CR06-

8.90m AZCL

7.50m

9.00m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01

SAMPLE REF: CR 07

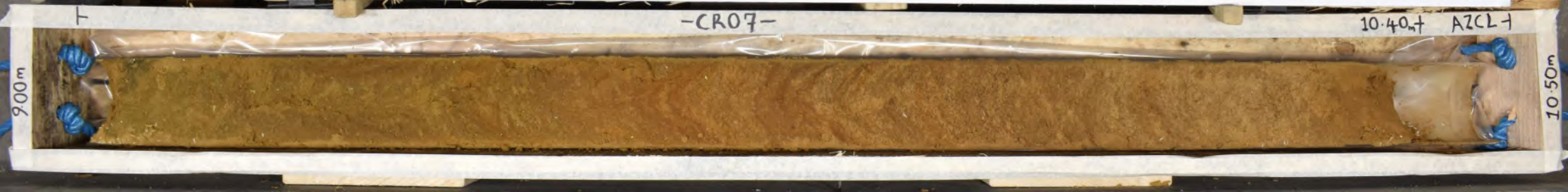
DEPTH TOP: 9.00 (m)

DATE: 06/10/19

BOX REF: 07

DEPTH BASE: 10.50 (m)

BASE



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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 08
DEPTH TOP: 10.50 (m)

DATE: 06 / 10 /19
BOX REF: 08
DEPTH BASE: 12.00 (m)

BASE

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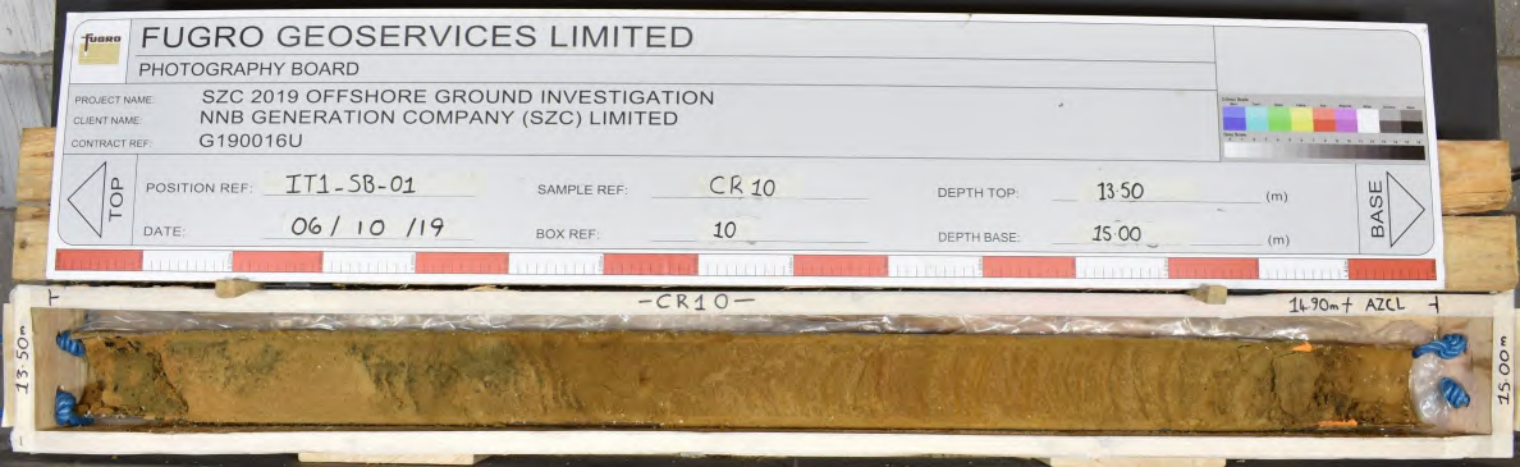
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 09
DEPTH TOP: 12.00 (m)
DATE: 06 / 10 /19
BOX REF: 09
DEPTH BASE: 13.50 (m)

BASE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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SB-01
SAMPLE REF: CR 10
DEPTH TOP: 13.50 (m)
DATE: 06 / 10 /19
BOX REF: 10
DEPTH BASE: 15.00 (m)
BASE
-CR10-
14.90m + AZCL
13.50m
15.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 11
DEPTH TOP: 15.00 (m)

DATE: 06 / 10 / 19
BOX REF: 11
DEPTH BASE: 16.50 (m)

BASE

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PHOTOGRAPHY BOARD

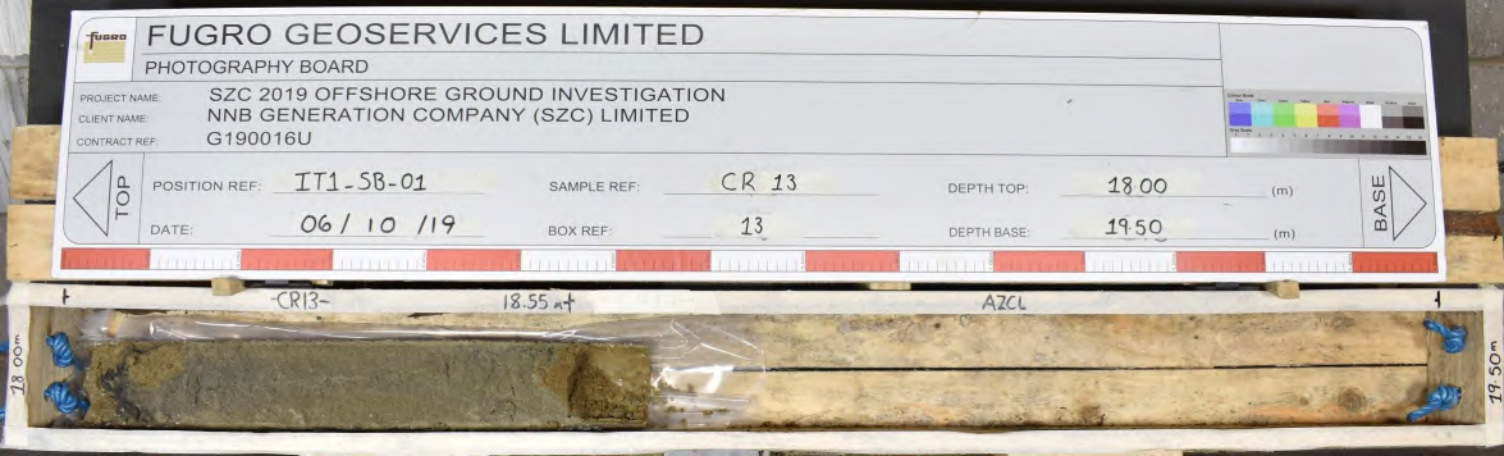
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 12
DEPTH TOP: 16.50 (m)

DATE: 06 / 10 /19
BOX REF: 12
DEPTH BASE: 18.00 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SB-01
SAMPLE REF: CR 13
DEPTH TOP: 18.00 (m)
DATE: 06/10/19
BOX REF: 13
DEPTH BASE: 19.50 (m)
BASE
-CR13-
18.55 m
AZCL
18.00m
19.50m

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PHOTOGRAPHY BOARD

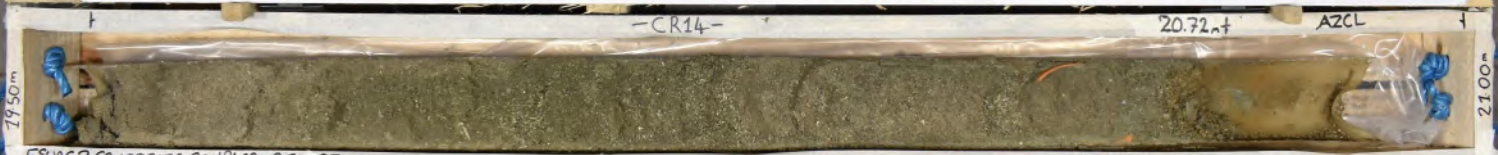
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01 SAMPLE REF: CR 14 DEPTH TOP: 19.50 (m)

DATE: 06 / 10 /19 BOX REF: 14 DEPTH BASE: 21.00 (m)

BASE



ESVAC2 COMPOSITE SAMPLES; 19.50-37.00M

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 15
DEPTH TOP: 21.00 (m)
DATE: 06 / 10 /19
BOX REF: 15
DEPTH BASE: 22.50 (m)

BASE

-CR15-

2220mt AZCL

21.00m

22.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01 SAMPLE REF: CR 16 DEPTH TOP: 22.50 (m)

DATE: 06 / 10 /19 BOX REF: 16 DEPTH BASE: 24.00 (m)

BASE

-CR16- +23.22m AZCL

22.50m

24.00m

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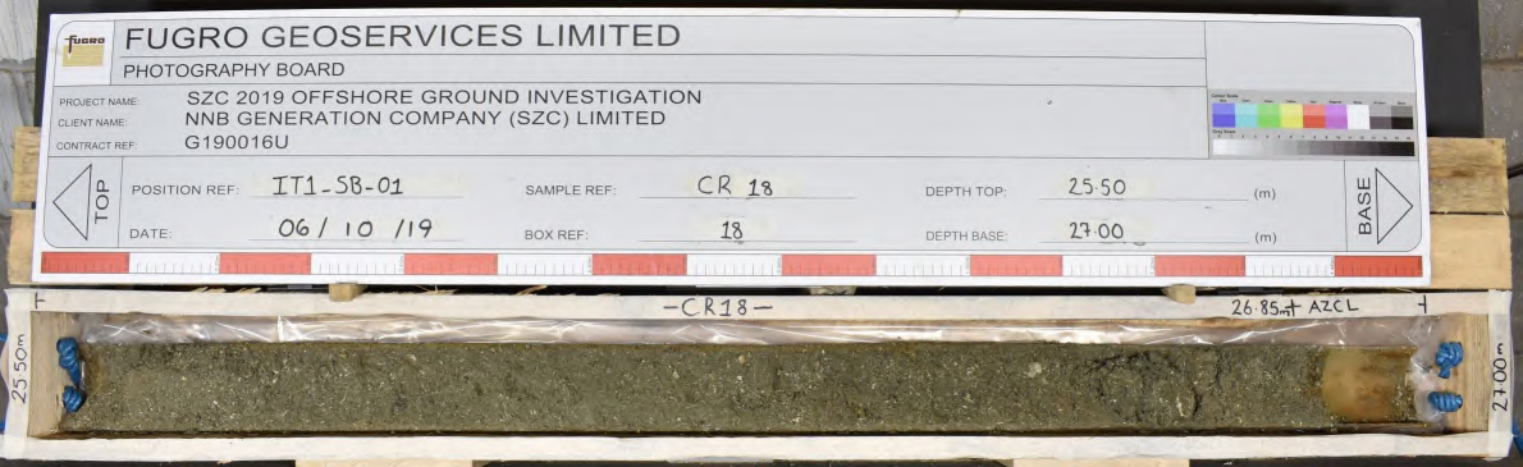
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 17
DEPTH TOP: 24.00 (m)
DATE: 06/10/19
BOX REF: 17
DEPTH BASE: 25.50 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SB-01
SAMPLE REF: CR 18
DEPTH TOP: 25.50 (m)
DATE: 06 / 10 /19
BOX REF: 18
DEPTH BASE: 27.00 (m)
BASE
-CR18-
26.85m AZCL
25.50m
27.00m

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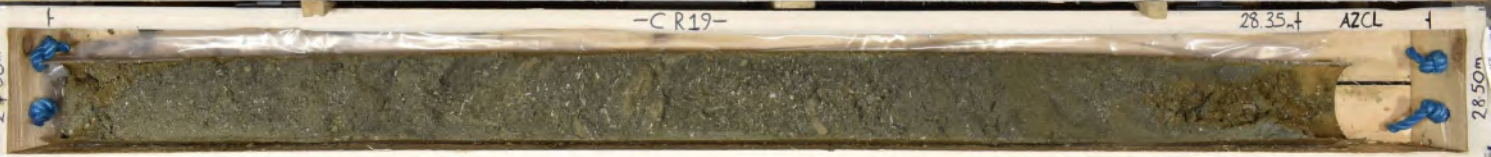
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 19
DEPTH TOP: 27.00 (m)
DATE: 06 / 10 /19
BOX REF: 19
DEPTH BASE: 28.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 20
DEPTH TOP: 28.50 (m)

DATE: 06 / 10 / 19
BOX REF: 20
DEPTH BASE: 30.00 (m)

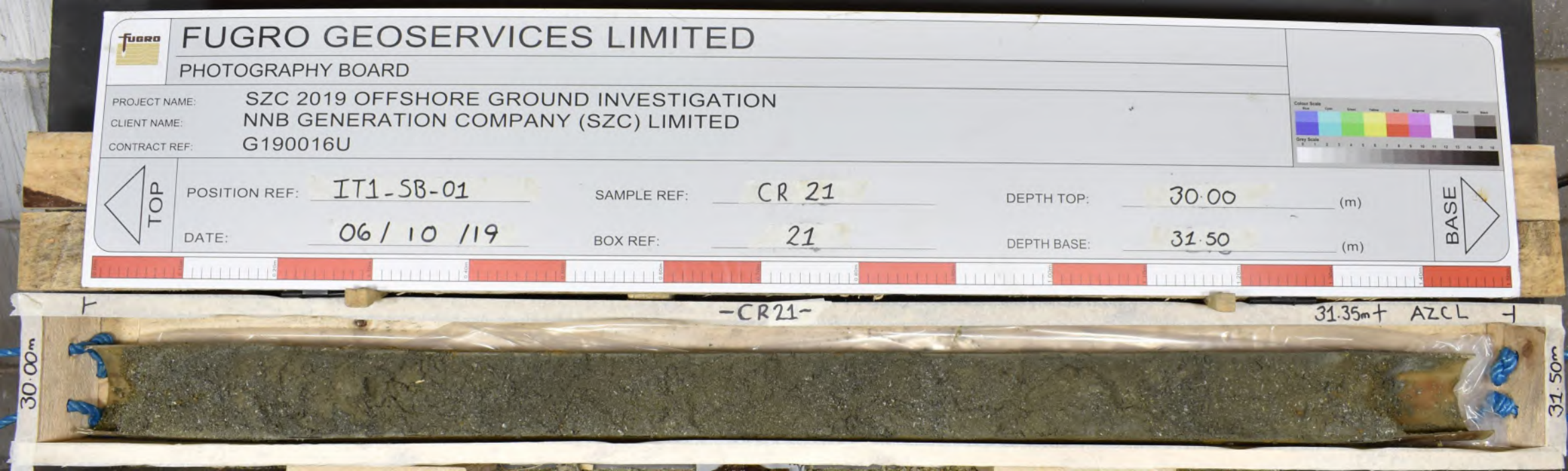
BASE

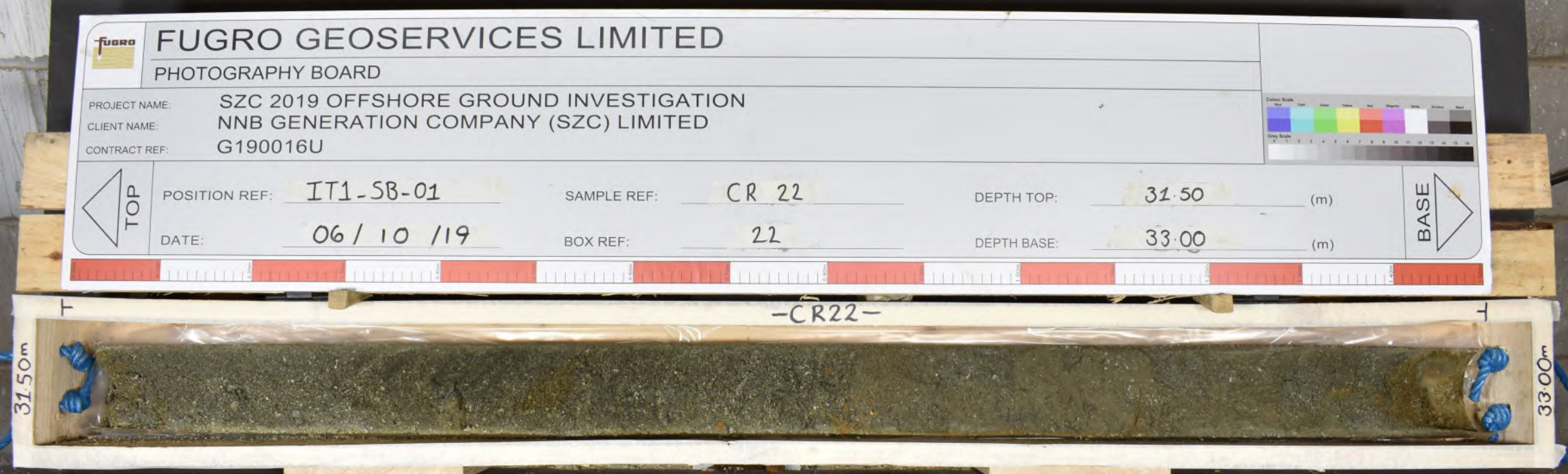
28.50m

-CR20-

29.90m+ AZCL

30.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SB-01
SAMPLE REF: CR 21
DEPTH TOP: 30.00 (m)
DATE: 06/10/19
BOX REF: 21
DEPTH BASE: 31.50 (m)
BASE
-CR21-
31.35m + AZCL
30.00m
31.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SB-01
SAMPLE REF: CR 22
DEPTH TOP: 31.50 (m)
DATE: 06/10/19
BOX REF: 22
DEPTH BASE: 33.00 (m)
BASE
-CR22-
31.50m
33.00m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
DATE: 06/10/19
SAMPLE REF: CR 23
BOX REF: 23
DEPTH TOP: 33.00 (m)
DEPTH BASE: 34.50 (m)

BASE

-CR23-

34.40mt AZCL

33.00m

34.50m

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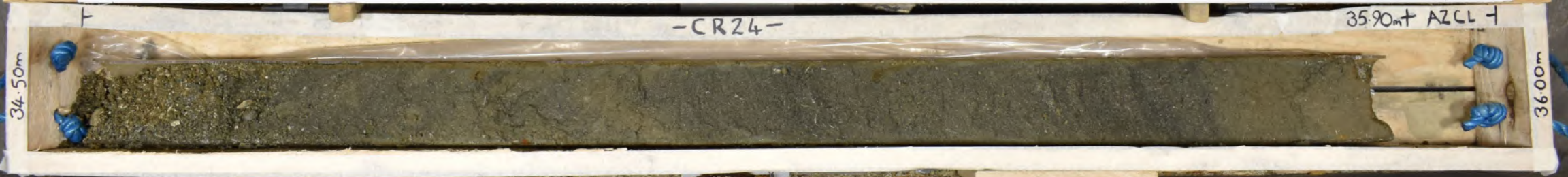
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 24
DEPTH TOP: 34·50 (m)

DATE: 06 / 10 /19
BOX REF: 24
DEPTH BASE: 36·00 (m)

BASE



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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 25
DEPTH TOP: 36.00 (m)
DATE: 07/10/19
BOX REF: 25
DEPTH BASE: 37.50 (m)

BASE

-CR25-

37.40m AZCL

36.00m

37.50m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

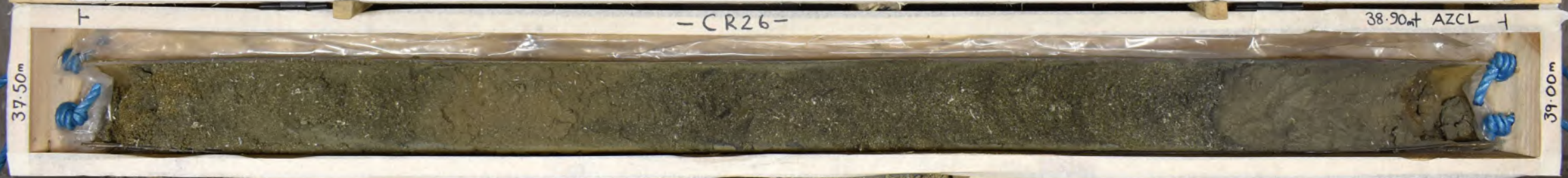
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01 SAMPLE REF: CR 26 DEPTH TOP: 37.50 (m)

DATE: 07/10/19 BOX REF: 26 DEPTH BASE: 39.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 27
DEPTH TOP: 39.00 (m)
DATE: 07/10/19
BOX REF: 27
DEPTH BASE: 40.50 (m)

BASE

-CR27-

39.00m

40.50m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 27
DEPTH TOP: 39.00 (m)

DATE: 07/10/19
BOX REF: 27
DEPTH BASE: 40.50 (m)

BASE

-CR27-

39.00m

40.50m

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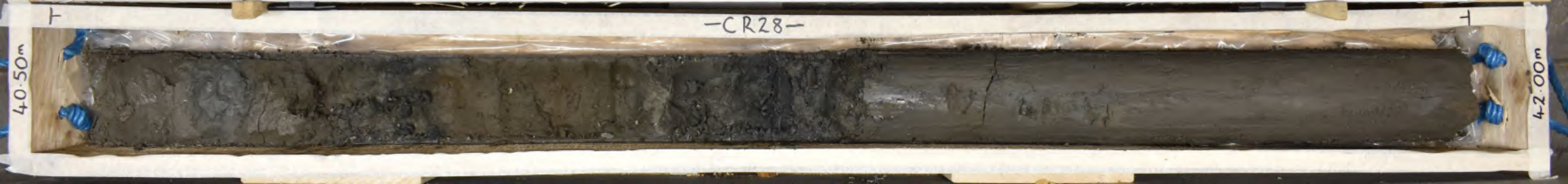
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 28
DEPTH TOP: 40·50 (m)

DATE: 07/10/19
BOX REF: 28
DEPTH BASE: 42·00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 28
DEPTH TOP: 40.50 (m)

DATE: 07/10/19
BOX REF: 28
DEPTH BASE: 42.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 29
DEPTH TOP: 42.00 (m)

DATE: 07/10/19
BOX REF: 29
DEPTH BASE: 43.50 (m)

BASE

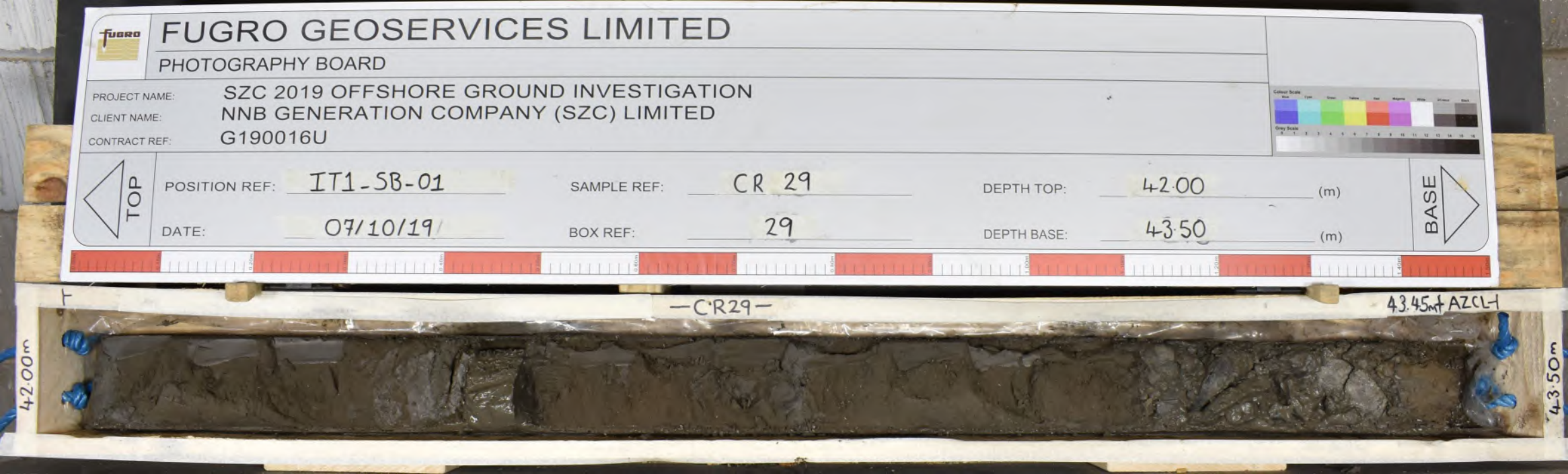
T

—CR29—

43.45mt AZCL-1

42.00m

43.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SB-01
SAMPLE REF: CR 29
DEPTH TOP: 42.00 (m)
DATE: 07/10/19
BOX REF: 29
DEPTH BASE: 43.50 (m)
BASE
T
—CR29—
43.45mt AZCL-H
42.00m
43.50m

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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SB-01
SAMPLE REF: CR 30
DEPTH TOP: 43.50 (m)
DATE: 07/10/19
BOX REF: 30
DEPTH BASE: 45.00 (m)
BASE
T
-CR30-
44.95 AZCL
43.50m
45.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 30
DEPTH TOP: 43.50 (m)

DATE: 07/10/19
BOX REF: 30
DEPTH BASE: 45.00 (m)

BASE

T

-CR30-

44.95+AZCL+

43.50m

45.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 31
DEPTH TOP: 45.00 (m)

DATE: 07/10/19
BOX REF: 31
DEPTH BASE: 46.50 (m)

BASE

-CR31-

45.00m

46.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 31
DEPTH TOP: 45.00 (m)

DATE: 07/10/19
BOX REF: 31
DEPTH BASE: 46.50 (m)

BASE

-CR31-

45.00m

46.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 32
DEPTH TOP: 46.50 (m)
DATE: 07/10/19
BOX REF: 32
DEPTH BASE: 48.00 (m)

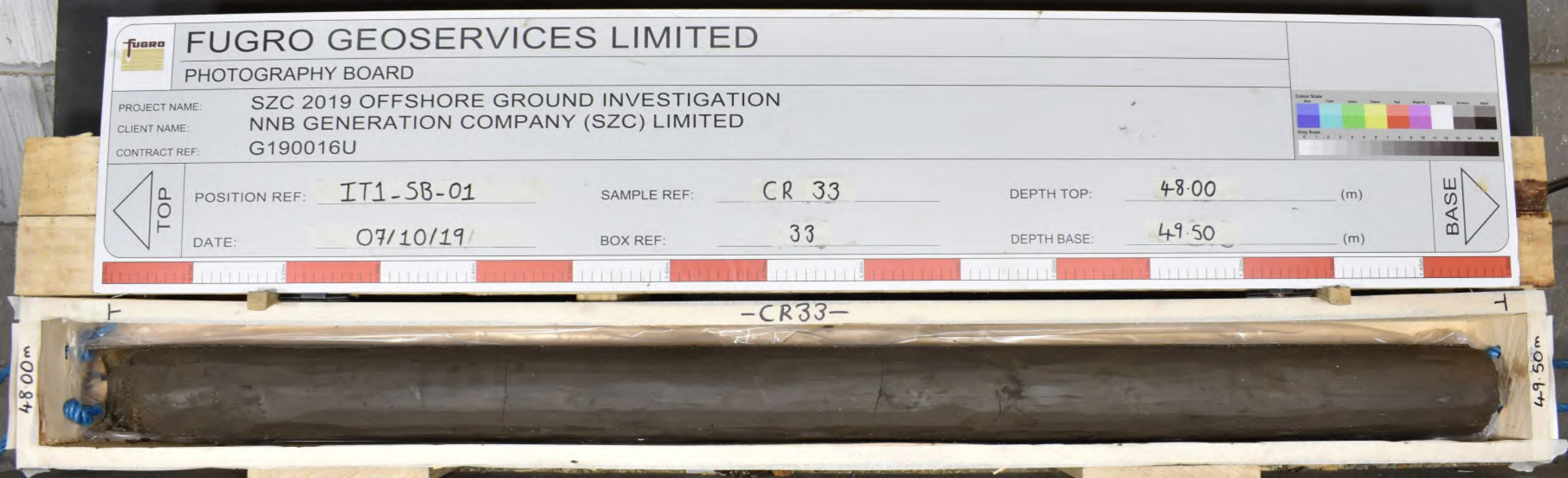
BASE

-CR32-

47.95m+AZCL

46.50m

48.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SB-01
SAMPLE REF: CR 33
DEPTH TOP: 48.00 (m)
DATE: 07/10/19
BOX REF: 33
DEPTH BASE: 49.50 (m)
BASE
-CR33-
48.00m
49.50m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 33
DEPTH TOP: 48.00 (m)

DATE: 07/10/19
BOX REF: 33
DEPTH BASE: 49.50 (m)

BASE

-CR33-

48.00m

49.50m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 34
DEPTH TOP: 49.50 (m)

DATE: 07/10/19
BOX REF: 34
DEPTH BASE: 51.00 (m)

BASE

T

-CR34-

T

49.50m

51.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 35
DEPTH TOP: 51.00 (m)

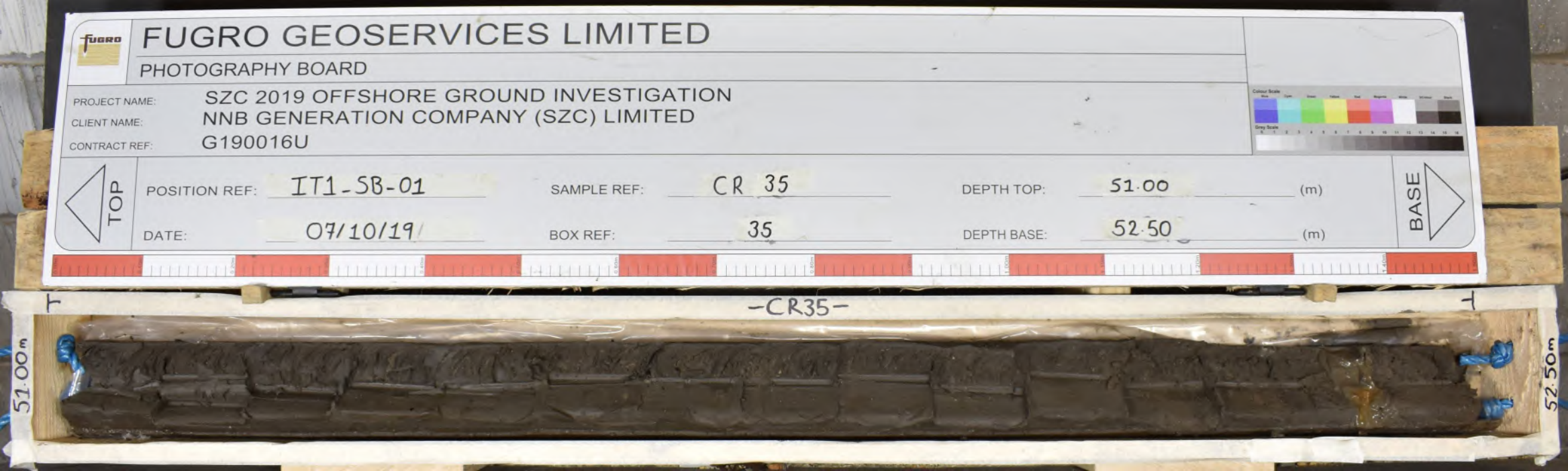
DATE: 07/10/19
BOX REF: 35
DEPTH BASE: 52.50 (m)

BASE

-CR35-

51.00m

52.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SB-01
SAMPLE REF: CR 35
DEPTH TOP: 51.00 (m)
DATE: 07/10/19
BOX REF: 35
DEPTH BASE: 52.50 (m)
BASE
-CR35-
51.00m
52.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 36
DEPTH TOP: 52.50 (m)

DATE: 07/10/19
BOX REF: 36
DEPTH BASE: 54.00 (m)

BASE

T

-CR36-

TEOH

52.50m

54.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 36
DEPTH TOP: 52.50 (m)

DATE: 07/10/19
BOX REF: 36
DEPTH BASE: 54.00 (m)

BASE

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PHOTOGRAPHY BOARD

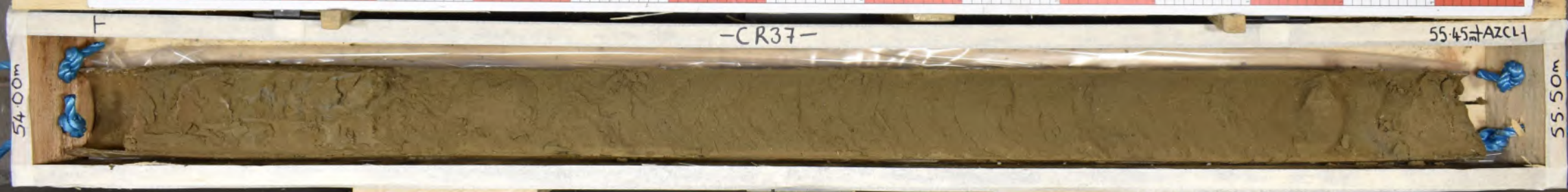
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_01
SAMPLE REF: CR 37
DEPTH TOP: 54.00 (m)

DATE: 08/10/19
BOX REF: 37
DEPTH BASE: 55.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SB-01
SAMPLE REF: CR 37
DEPTH TOP: 54.00 (m)

DATE: 08/10/19
BOX REF: 37
DEPTH BASE: 55.50 (m)

BASE

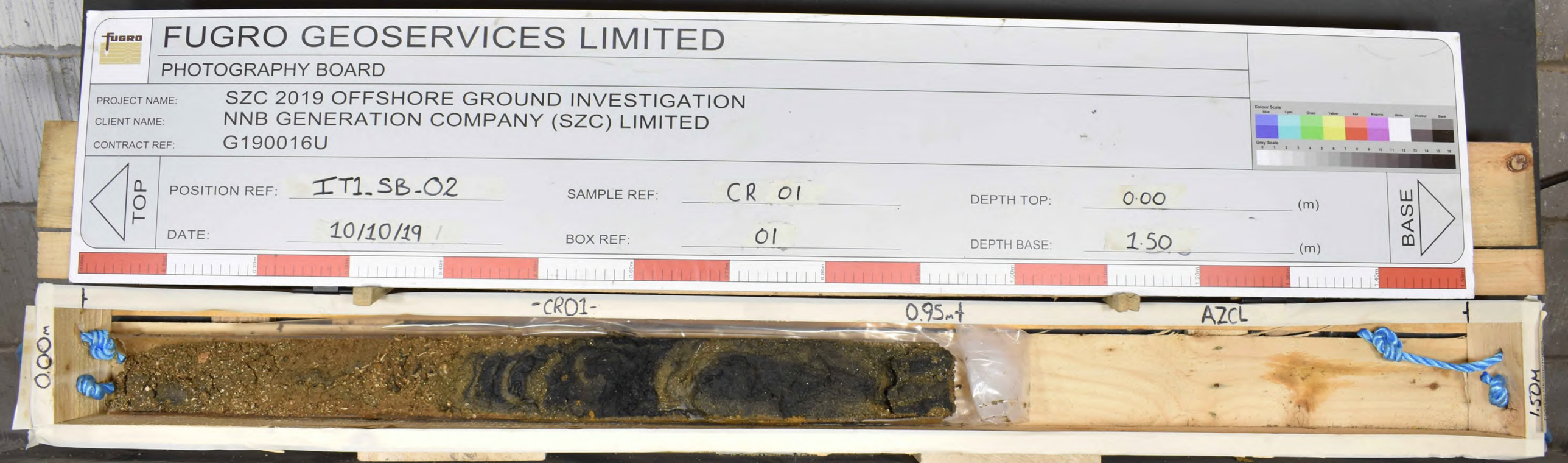
T

-CR37-

55.45m AZCL

54.00m

55.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB-02
SAMPLE REF: CR 01
DEPTH TOP: 0·00 (m)
DATE: 10/10/19
BOX REF: 01
DEPTH BASE: 1·50 (m)
BASE
-CR01-
0.95mt
AZCL
0.00m
1.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 02
DEPTH TOP: 1·50 (m)
DATE: 10/10/19
BOX REF: 02
DEPTH BASE: 3·00 (m)

BASE

-CR02-

1·50m

3·00m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02

SAMPLE REF: CR 03

DEPTH TOP: 3·00 (m)

DATE: 10/10/19

BOX REF: 03

DEPTH BASE: 4·50 (m)

BASE

-CR03-

4.45m AZCL

3.00m

4.50m

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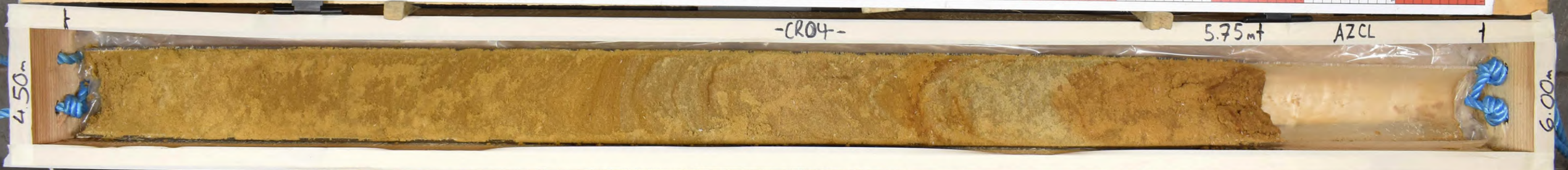
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 04
DEPTH TOP: 4·50 (m)
DATE: 10/10/19
BOX REF: 04
DEPTH BASE: 6·00 (m)

BASE



FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02

SAMPLE REF: CR 05

DEPTH TOP: 6.00 (m)

DATE: 10/10/19

BOX REF: 05

DEPTH BASE: 7.50 (m)

BASE

-CR05-

7.30mt AZCL

6.00m

7.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 06
DEPTH TOP: 7.50 (m)
DATE: 10/10/19
BOX REF: 06
DEPTH BASE: 9.00 (m)

BASE

-CR06-

8.75mt

AZCL

7.50m

9.00m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02

SAMPLE REF: CR 07

DEPTH TOP: 9.00 (m)

DATE: 10/10/19

BOX REF: 07

DEPTH BASE: 10.50 (m)

BASE

-CR07-

10.00mt

AZCL

9.00m

10.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02

SAMPLE REF: CR 08

DEPTH TOP: 10·50 (m)

DATE: 10/10/19

BOX REF: 08

DEPTH BASE: 12·00 (m)

BASE

-CR08-

11.95mt AZCL

10·50m

12·00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 09
DEPTH TOP: 12.00 (m)
DATE: 10/10/19
BOX REF: 09
DEPTH BASE: 13.50 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 10
DEPTH TOP: 13.50 (m)
DATE: 10/10/19
BOX REF: 10
DEPTH BASE: 15.00 (m)

BASE

T

-CR10-

T

13.50m

15.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 11
DEPTH TOP: 15.00 (m)
DATE: 10/10/19
BOX REF: 11
DEPTH BASE: 16.50 (m)

BASE

Colour Scale
Blue Cyan Green Yellow Red Magenta White 3/Colour Black

Grey Scale
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0.20m 0.40m 0.60m 0.80m 1.00m 1.20m 1.40m

T

15.00m

-CR11-

16.30mt AZCL

T

16.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 12
DEPTH TOP: 16.50 (m)

DATE: 10/10/19
BOX REF: 12
DEPTH BASE: 18.00 (m)

BASE

-CR12-

17.90m AZCL

16.50m

18.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02

SAMPLE REF: CR 13

DEPTH TOP: 18.00 (m)

DATE: 10/10/19

BOX REF: 13

DEPTH BASE: 19.50 (m)

BASE

-CR13-

19.40m + AZCL +

18.00m

19.50m

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PHOTOGRAPHY BOARD

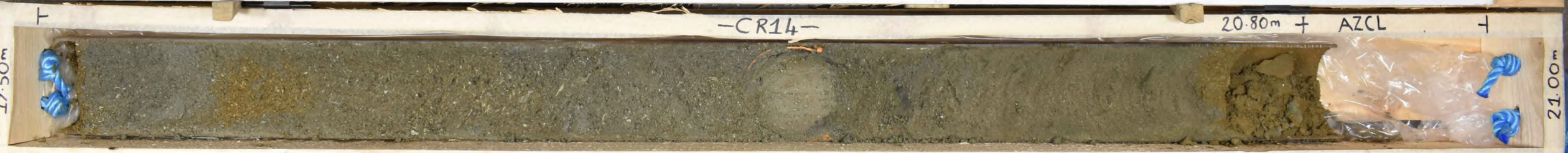
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 14
DEPTH TOP: 19.50 (m)

DATE: 10/10/19
BOX REF: 14
DEPTH BASE: 21.00 (m)

BASE



FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02

SAMPLE REF: CR 15

DEPTH TOP: 21.00 (m)

DATE: 10/10/19

BOX REF: 15

DEPTH BASE: 22.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 16
DEPTH TOP: 22.50 (m)

DATE: 10/10/19
BOX REF: 16
DEPTH BASE: 24.00 (m)

BASE

-CR16-

23.85m↓ AZCL

22.50m

24.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 17
DEPTH TOP: 24.00 (m)
DATE: 10/10/19
BOX REF: 17
DEPTH BASE: 25.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 18
DEPTH TOP: 25.50 (m)
DATE: 10/10/19
BOX REF: 18
DEPTH BASE: 27.00 (m)

BASE

T

-CR18-

26.95m+ AZCL+

25.50m

27.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02

SAMPLE REF: CR 19

DEPTH TOP: 27.00 (m)

DATE: 10/10/19

BOX REF: 19

DEPTH BASE: 28.50 (m)

BASE

-CR19-

27.00m

28.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02

SAMPLE REF: CR 20

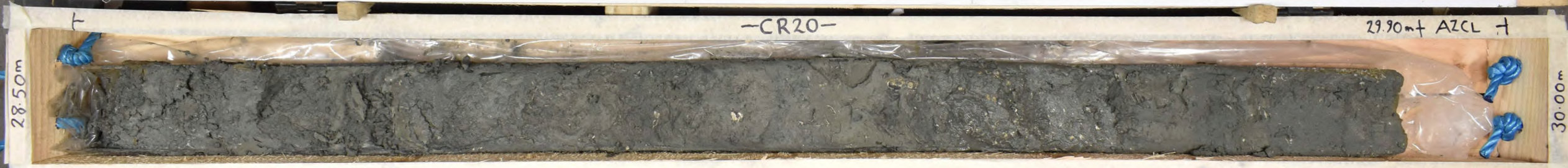
DEPTH TOP: 28·50 (m)

DATE: 10/10/19

BOX REF: 20

DEPTH BASE: 30·00 (m)

BASE



FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 21
DEPTH TOP: 30.00 (m)

DATE: 10/10/19
BOX REF: 21
DEPTH BASE: 31.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02

SAMPLE REF: CR 22

DEPTH TOP: 31.50 (m)

DATE: 10/10/19

BOX REF: 22

DEPTH BASE: 33.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02

SAMPLE REF: CR 23

DEPTH TOP: 33·00 (m)

DATE: 10/10/19

BOX REF: 23

DEPTH BASE: 34·50 (m)

BASE

-CR23-

33.00m

34.50

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 24
DEPTH TOP: 34.50 (m)

DATE: 10/10/19
BOX REF: 24
DEPTH BASE: 36.00 (m)

BASE

-CR24

35.90mt AZCL

34.50m

36.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 25
DEPTH TOP: 36.00 (m)

DATE: 10/10/19
BOX REF: 25
DEPTH BASE: 37.50 (m)

BASE

-CR25- 37.00m↑ AZCL

36.00m

37.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02

SAMPLE REF: CR 26

DEPTH TOP: 37.50 (m)

DATE: 10/10/19

BOX REF: 26

DEPTH BASE: 39.00 (m)

BASE

-CR26-

37.50m

39.00m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 27
DEPTH TOP: 39.00 (m)
DATE: 09/10/19
BOX REF: 27
DEPTH BASE: 40.50 (m)

BASE

-CR27-

39.00m

40.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 27
DEPTH TOP: 39.00 (m)

DATE: 09/10/19
BOX REF: 27
DEPTH BASE: 40.50 (m)

BASE

-CR27-

39.00m

40.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 28
DEPTH TOP: 40.50 (m)

DATE: 09/10/19
BOX REF: 28
DEPTH BASE: 42.00 (m)

BASE

-CR28-

40.50m

42.00m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 28
DEPTH TOP: 40.50 (m)
DATE: 09/10/19
BOX REF: 28
DEPTH BASE: 42.00 (m)

BASE

-CR28-

40.50m

42.00m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 29
DEPTH TOP: 42.00 (m)

DATE: 09/10/19
BOX REF: 29
DEPTH BASE: 43.50. (m)

BASE

-CR29-

42.00m

43.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02

SAMPLE REF: CR 29

DEPTH TOP: 42.00 (m)

DATE: 09/10/19

BOX REF: 29

DEPTH BASE: 43.50 (m)

BASE

-CR29-

42.00m

43.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02 SAMPLE REF: CR 30 DEPTH TOP: 43.50. (m)

DATE: 09/10/19 BOX REF: 30 DEPTH BASE: 45.00 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 30
DEPTH TOP: 43·50 (m)

DATE: 09/10/19
BOX REF: 30
DEPTH BASE: 45·00 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02

SAMPLE REF: CR 31

DEPTH TOP: 45.00 (m)

DATE: 09/10/19

BOX REF: 31

DEPTH BASE: 46.50 (m)

BASE

-CR31-

45.00m

46.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02

SAMPLE REF: CR 31

DEPTH TOP: 45.00 (m)

DATE: 09/10/19

BOX REF: 31

DEPTH BASE: 46.50 (m)

BASE

-CR31-

45.00m

46.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02

SAMPLE REF: CR 32

DEPTH TOP: 46.50 (m)

DATE: 09/10/19

BOX REF: 32

DEPTH BASE: 48.00 (m)

BASE

T

-CR32-

T

46.50m

48.00m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02

SAMPLE REF: CR 32

DEPTH TOP: 46.50 (m)

DATE: 09/10/19

BOX REF: 32

DEPTH BASE: 48.00 (m)

BASE

-CR32-

46.50m

48.00m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 33
DEPTH TOP: 48.00 (m)
DATE: 09/10/19
BOX REF: 33
DEPTH BASE: 49.50 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 33
DEPTH TOP: 48.00 (m)

DATE: 09/10/19
BOX REF: 33
DEPTH BASE: 49.50 (m)

BASE

-CR33-

49.45m tAZCH

48.00m

49.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 34
DEPTH TOP: 49.50 (m)
DATE: 09/10/19
BOX REF: 34
DEPTH BASE: 51.00 (m)

BASE

-CR34-
50.75mt
AZCL
49.50m
51.00m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02

SAMPLE REF: CR 34

DEPTH TOP: 49.50 (m)

DATE: 09/10/19

BOX REF: 34

DEPTH BASE: 51.00 (m)

BASE

-CR34-

50.75mt AZCL

49.50m

51.00m

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PHOTOGRAPHY BOARD

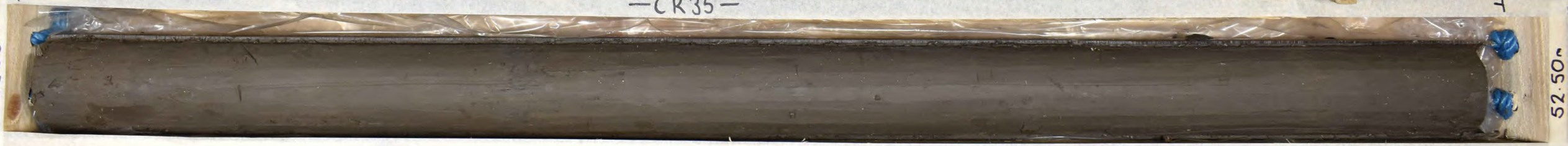
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 35
DEPTH TOP: 51.00 (m)

DATE: 09/10/19
BOX REF: 35
DEPTH BASE: 52.50 (m)

BASE



FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02

SAMPLE REF: CR 35

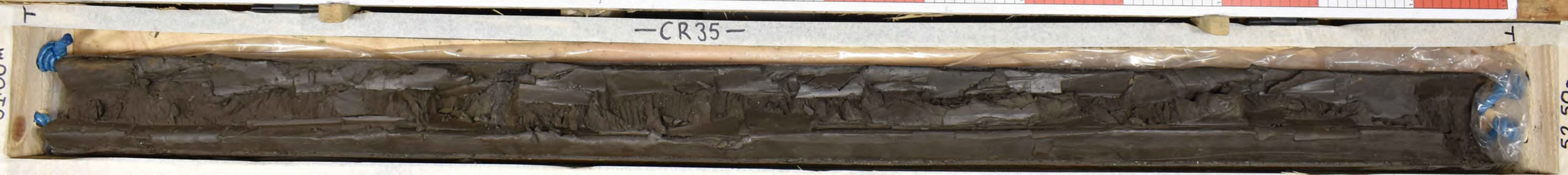
DEPTH TOP: 51.00 (m)

DATE: 09/10/19

BOX REF: 35

DEPTH BASE: 52.50 (m)

BASE



FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02

SAMPLE REF: CR 36

DEPTH TOP: 52.50 (m)

DATE: 09/10/19

BOX REF: 36

DEPTH BASE: 54.00 (m)

BASE

-CR36-

52.50m

54.00m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02

SAMPLE REF: CR 36

DEPTH TOP: 52.50 (m)

DATE: 09/10/19

BOX REF: 36

DEPTH BASE: 54.00 (m)

BASE

-CR36-

52.50m

54.00m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02

SAMPLE REF: CR 37

DEPTH TOP: 54.00 (m)

DATE: 09/10/19

BOX REF: 37

DEPTH BASE: 55.50 (m)

BASE

T

-CR37-

55.40mt AZCL T

54.00m

55.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02

SAMPLE REF: CR 37

DEPTH TOP: 54.00 (m)

DATE: 09/10/19

BOX REF: 37

DEPTH BASE: 55.50 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 38
DEPTH TOP: 55.50 (m)

DATE: 09/10/19
BOX REF: 38
DEPTH BASE: 57.00 (m)

BASE

-CR38-

55.50m

57.00m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 38
DEPTH TOP: 55.50 (m)

DATE: 09/10/19
BOX REF: 38
DEPTH BASE: 57.00 (m)

BASE

-CR38-

55.50m

57.00m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02

SAMPLE REF: CR 39

DEPTH TOP: 57.00 (m)

DATE: 09/10/19

BOX REF: 39

DEPTH BASE: 58.50 (m)

BASE

-CR39-

57.00

58.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 39
DEPTH TOP: 57.00 (m)
DATE: 09/10/19
BOX REF: 39
DEPTH BASE: 58.50 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

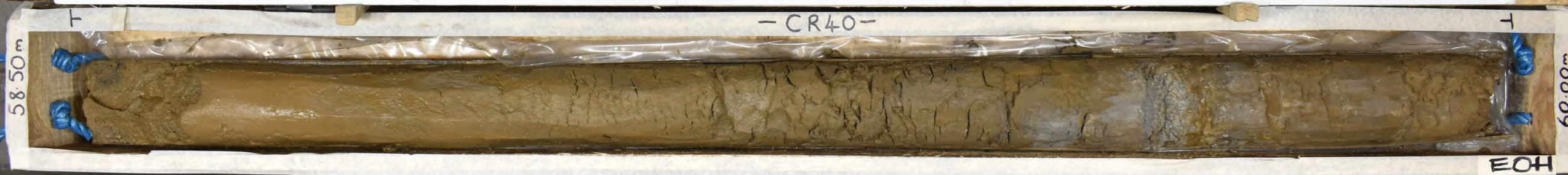
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02
SAMPLE REF: CR 40
DEPTH TOP: 58·50 (m)

DATE: 09/10/19
BOX REF: 40
DEPTH BASE: 60·00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-02

SAMPLE REF: CR 40

DEPTH TOP: 58.50 (m)

DATE: 09/10/19

BOX REF: 40

DEPTH BASE: 60.00 (m)

BASE

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PHOTOGRAPHY BOARD

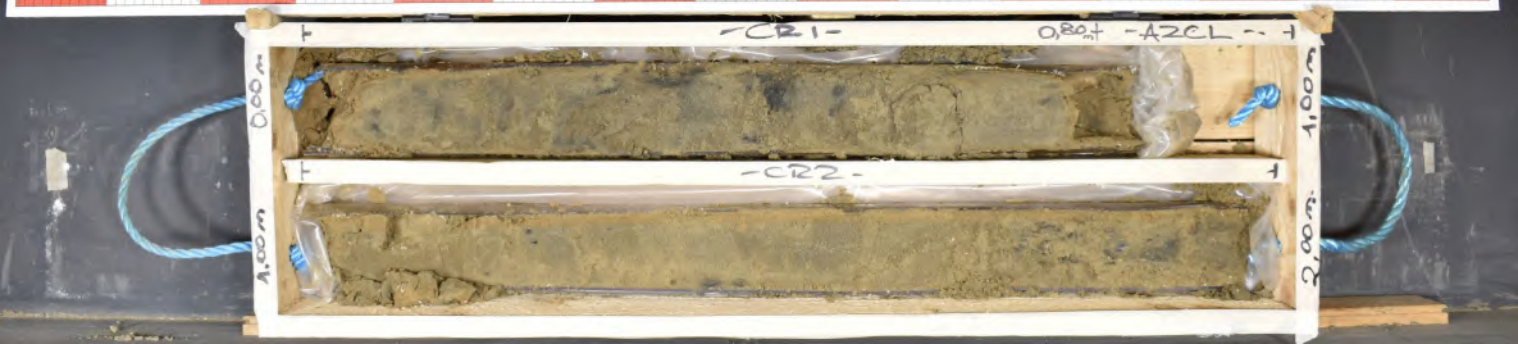
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_03
SAMPLE REF: CR 1+2
DEPTH TOP: 0.00 (m)

DATE: 26 / 07 / 19
BOX REF: Box 1
DEPTH BASE: 2.00 (m)

BASE



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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_03 SAMPLE REF: CR 3+4 DEPTH TOP: 2.00 (m)

DATE: 26 / 07 / 19 BOX REF: Box 2 DEPTH BASE: 4.00 (m)

BASE

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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB_03
DATE: 26 / 07 / 19
SAMPLE REF: CR 5+6
BOX REF: Box 3
DEPTH TOP: 4.00 (m)
DEPTH BASE: 6.00 (m)
BASE
- CR5 -
4,80m+ A2CL
- CR6 -
4.00m
5.00m
5.00m
6.00m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-03
DATE: 26 / 07 / 19
SAMPLE REF: CR 7
BOX REF: Box 4
DEPTH TOP: 6.00 (m)
DEPTH BASE: 7.00 (m)

BASE

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_03
SAMPLE REF: CR 8+9
DEPTH TOP: 7.00 (m)
DATE: 26 / 07 / 19
BOX REF: Box 5
DEPTH BASE: 9.00 (m)

BASE

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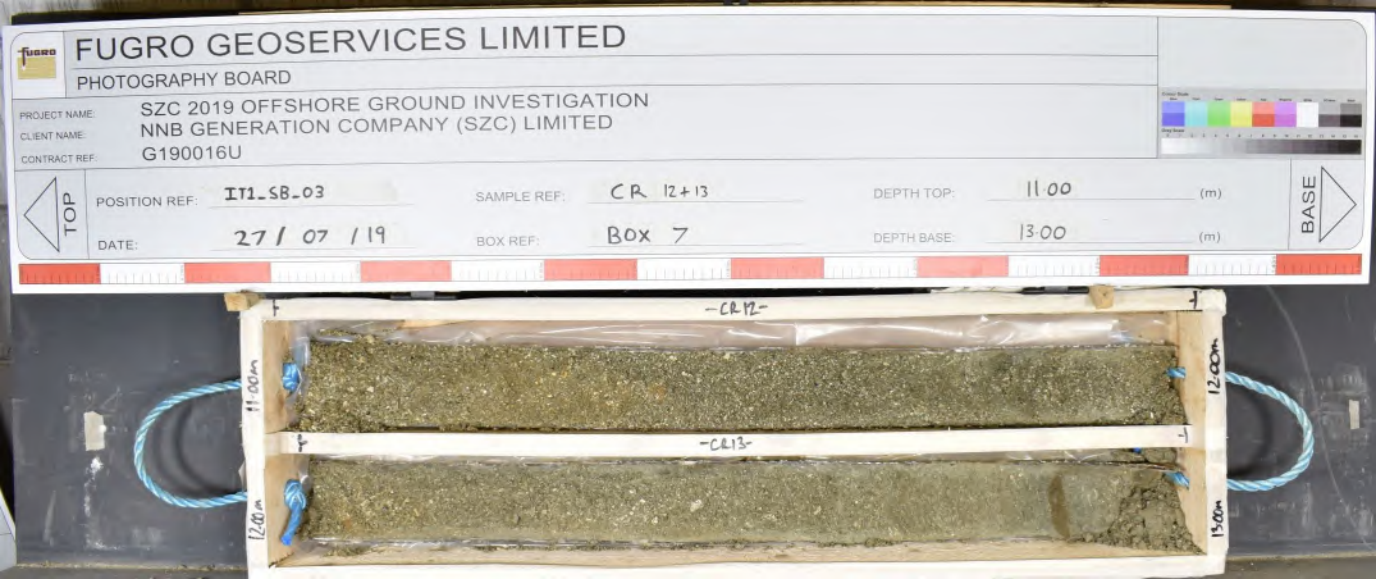
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_03
SAMPLE REF: CR 10+11
DEPTH TOP: 9.00 (m)

DATE: 27 / 07 / 19
BOX REF: Box 6
DEPTH BASE: 11.00 (m)

BASE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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB_03
SAMPLE REF: CR 12+13
DEPTH TOP: 11.00 (m)
DATE: 27 / 07 / 19
BOX REF: Box 7
DEPTH BASE: 13.00 (m)
BASE
-CR12-
-CR13-
11.00m
12.00m
12.00m
13.00m

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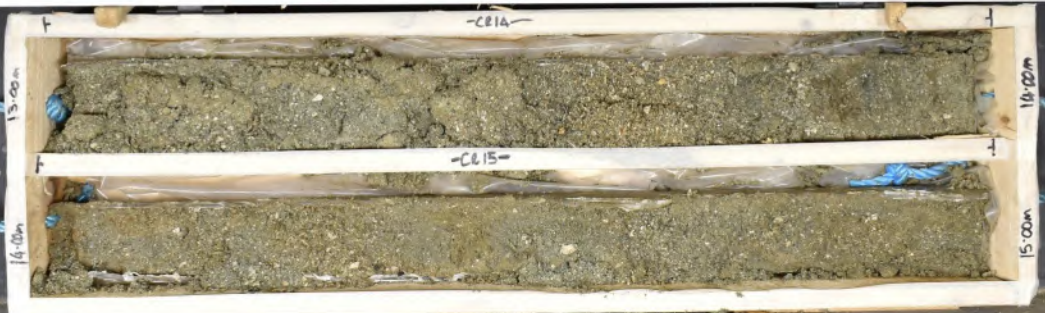
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_03
SAMPLE REF: CR 14+15
DEPTH TOP: 13.00 (m)

DATE: 27 / 07 / 19
BOX REF: Box 8
DEPTH BASE: 15.00 (m)

BASE



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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_03
SAMPLE REF: CR 16+17
DEPTH TOP: 15.00 (m)

DATE: 27 / 07 / 19
BOX REF: Box 9
DEPTH BASE: 17.00 (m)

BASE

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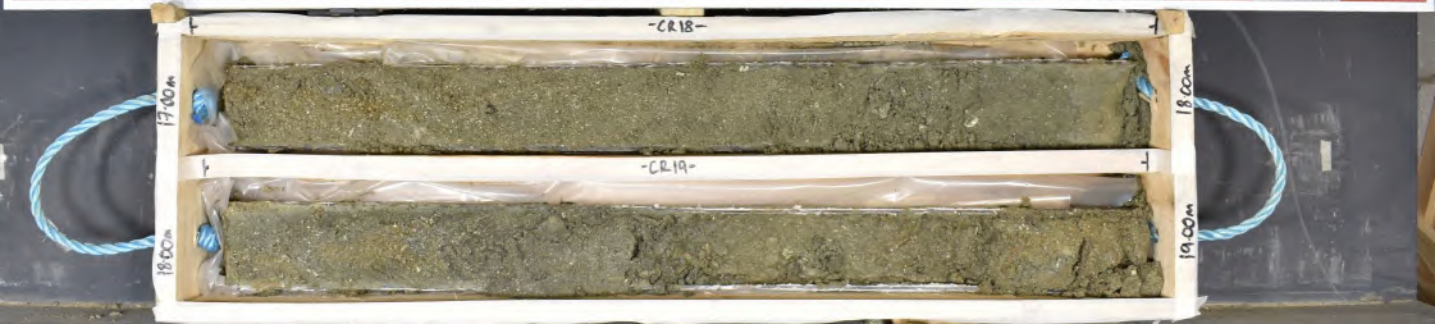
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_03 SAMPLE REF: CR 18+19 DEPTH TOP: 17.00 (m)

DATE: 27 / 07 / 19 BOX REF: Box 10 DEPTH BASE: 19.00 (m)

BASE



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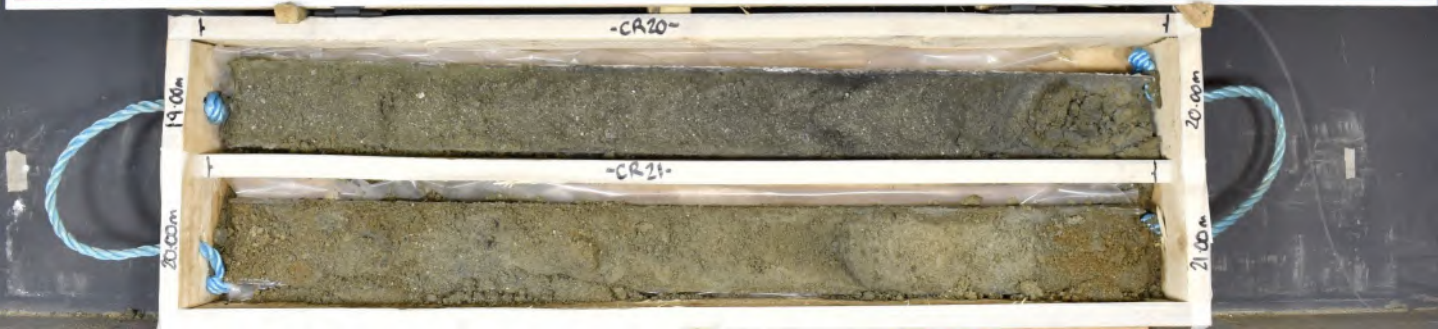
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_03
SAMPLE REF: CR 20+21
DEPTH TOP: 19.00 (m)

DATE: 27 / 07 / 19
BOX REF: Box 11
DEPTH BASE: 21.00 (m)

BASE



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PHOTOGRAPHY BOARD

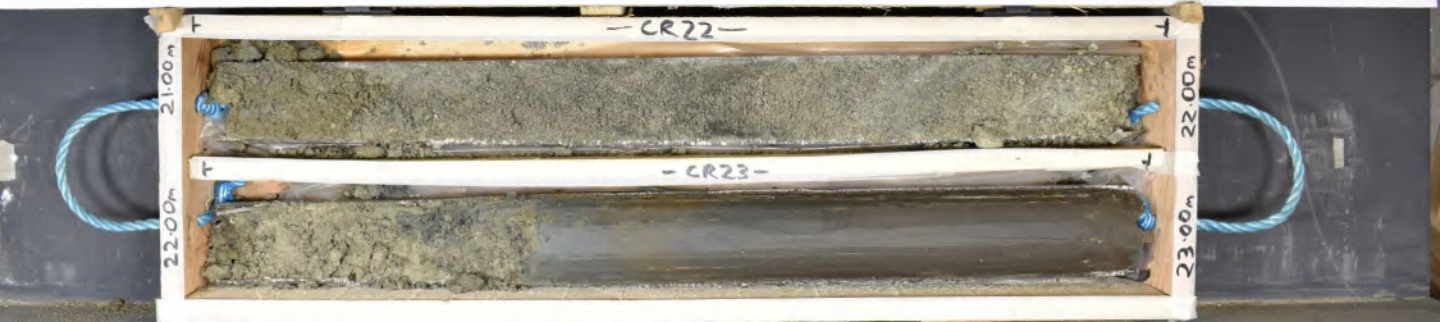
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_03 SAMPLE REF: CR 22+23 DEPTH TOP: 21.00 (m)

DATE: 27 / 07 / 19 BOX REF: Box 12 DEPTH BASE: 23.00 (m)

BASE



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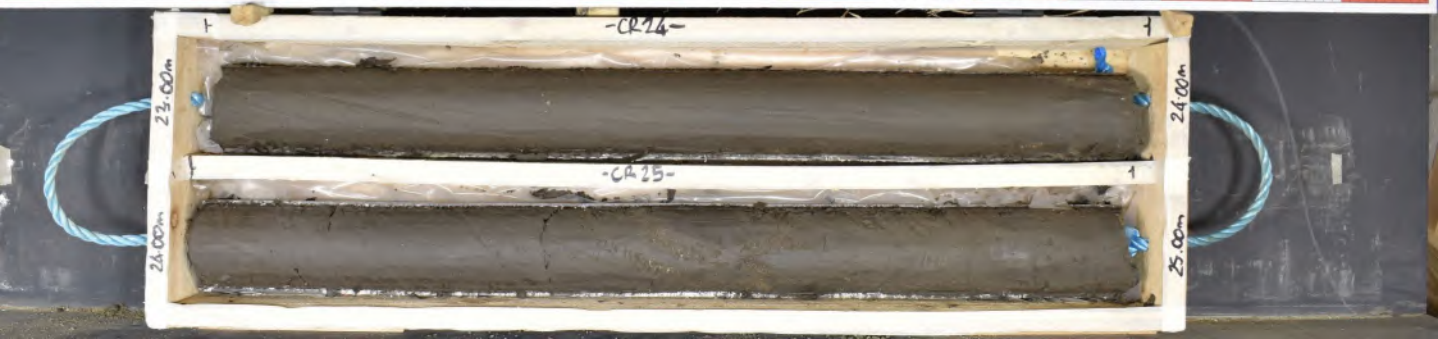
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_03 SAMPLE REF: CR 24+25 DEPTH TOP: 23.00 (m)

DATE: 27 / 07 / 19 BOX REF: Box 13 DEPTH BASE: 25.00 (m)

BASE



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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB_03
SAMPLE REF: CR 26+27
DEPTH TOP: 25.00 (m)
DATE: 27 / 07 / 19
BOX REF: Box 14
DEPTH BASE: 27.00 (m)
BASE
- CR26 -
- CR27 -
25.00m
26.00m
26.00m
27.00m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB_03
SAMPLE REF: CR 28+29
DEPTH TOP: 27.00 (m)
DATE: 27 / 07 / 19
BOX REF: Box 15
DEPTH BASE: 29.00 (m)
BASE
-CR28-
-CR29-
27.00m
28.00m
28.00m
29.00m

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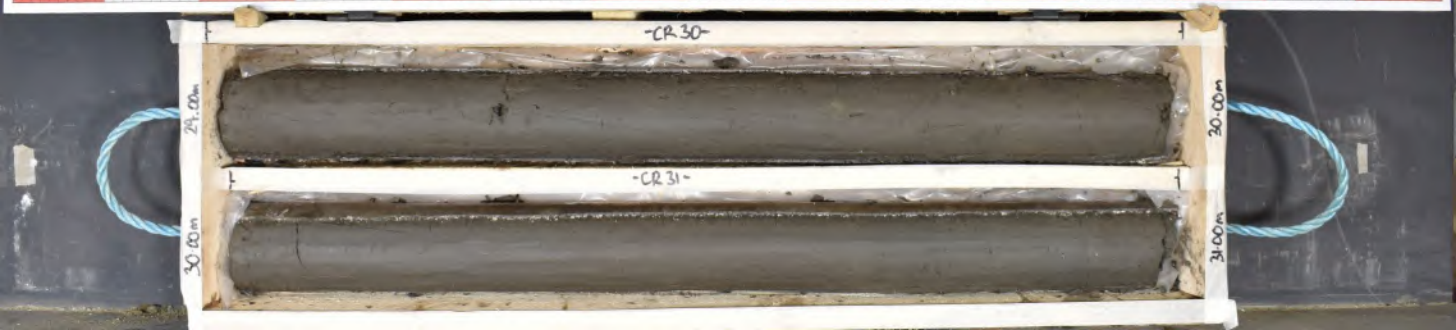
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_03
SAMPLE REF: CR 30131
DEPTH TOP: 29.00 (m)
DATE: 27 / 07 / 19
BOX REF: Box 16
DEPTH BASE: 31.00 (m)

BASE



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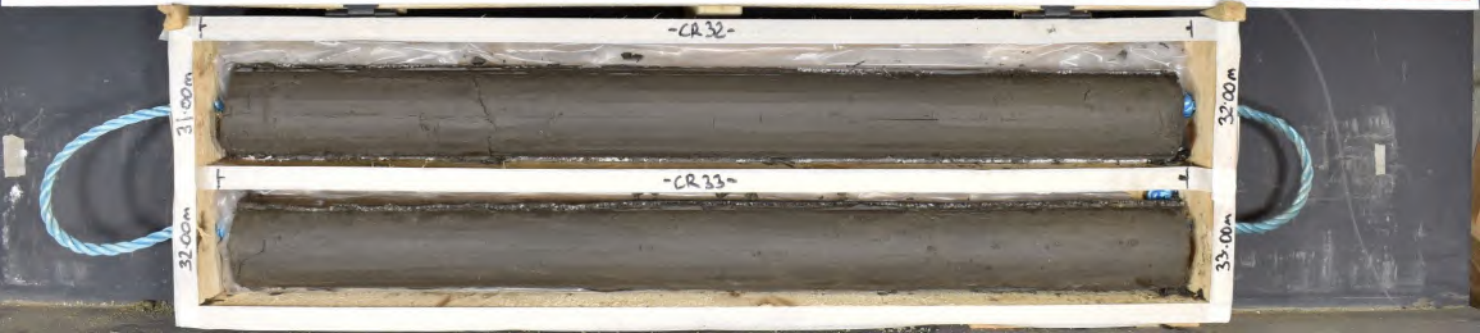
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_03
SAMPLE REF: CR 32+33
DEPTH TOP: 31.00 (m)

DATE: 27 / 07 / 19
BOX REF: Box 17
DEPTH BASE: 33.00 (m)

BASE



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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_03

SAMPLE REF: CR 34+35

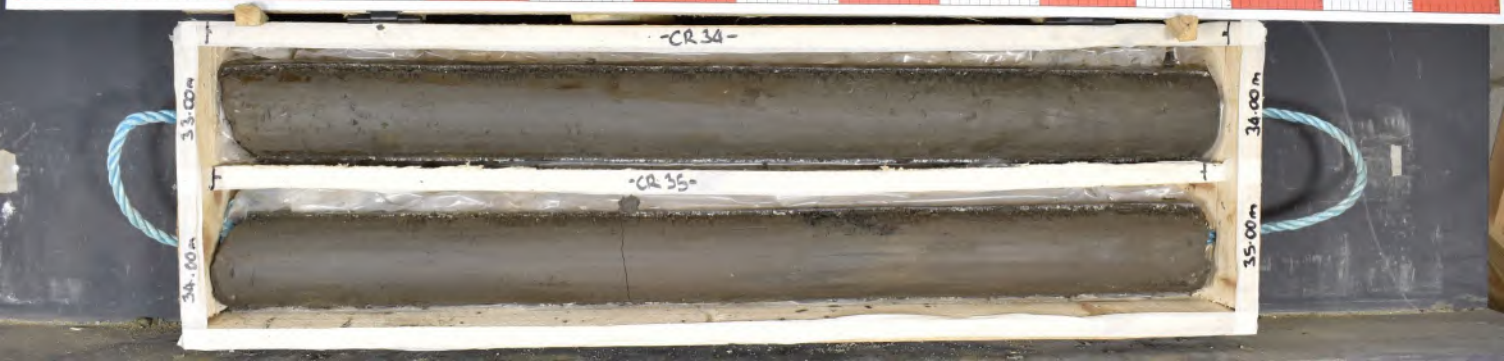
DEPTH TOP: 33.00 (m)

DATE: 27 / 07 / 19

BOX REF: Box 18

DEPTH BASE: 35.00 (m)

BASE



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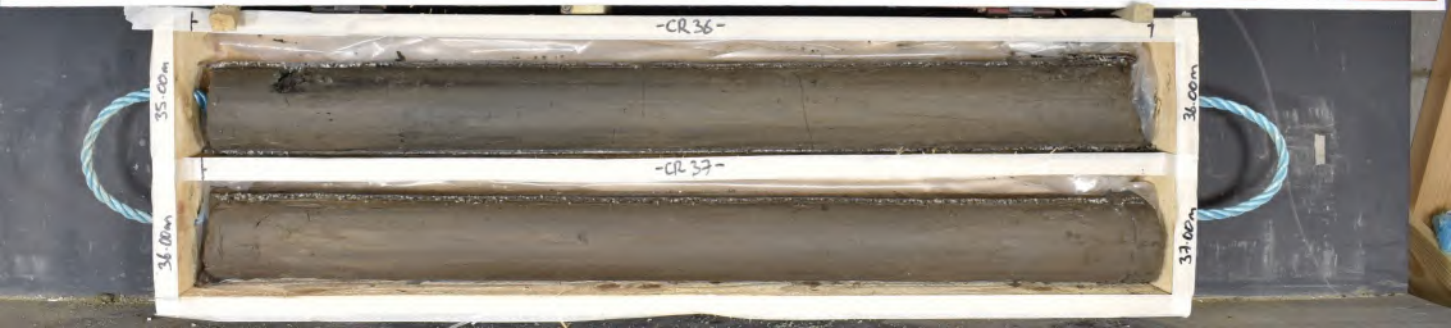
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_03
SAMPLE REF: CR 36+37
DEPTH TOP: 35.00 (m)

DATE: 27 / 07 / 19
BOX REF: Box 19
DEPTH BASE: 37.00 (m)

BASE



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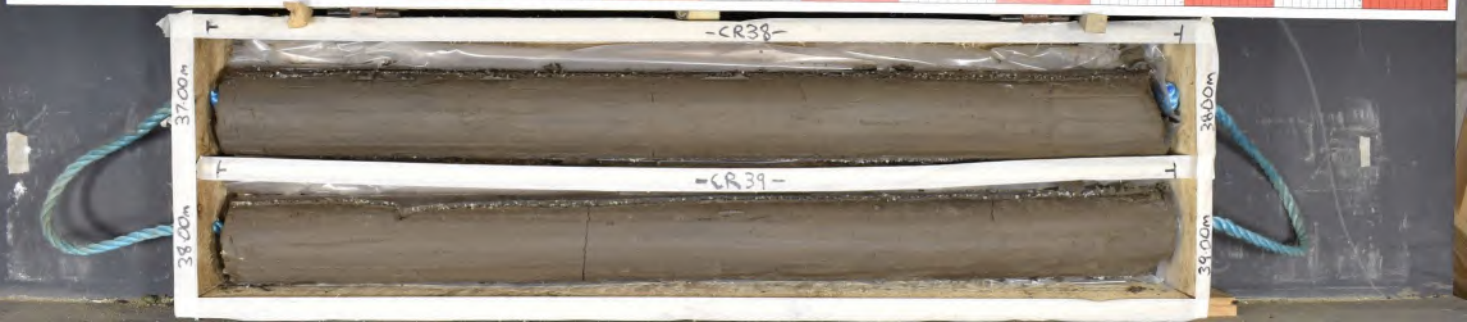
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_03
DATE: 27 / 07 / 19
SAMPLE REF: CR 38+39
BOX REF: Box 20
DEPTH TOP: 37.00 (m)
DEPTH BASE: 39.00 (m)

BASE



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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB_03
DATE: 27 / 07 / 19
SAMPLE REF: CR 40+41
BOX REF: Box 21
DEPTH TOP: 3900 (m)
DEPTH BASE: 4100 (m)
BASE
- CR40 -
- CR41 -
39.00m
40.00m
40.00m
41.00m

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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB_03
SAMPLE REF: CR 42+43
DEPTH TOP: 41.00 (m)
DATE: 27 / 07 / 19
BOX REF: Box 22
DEPTH BASE: 43.00 (m)
BASE
-CR42-
-CR43-
41.00m
42.00m
42.00m
43.00m

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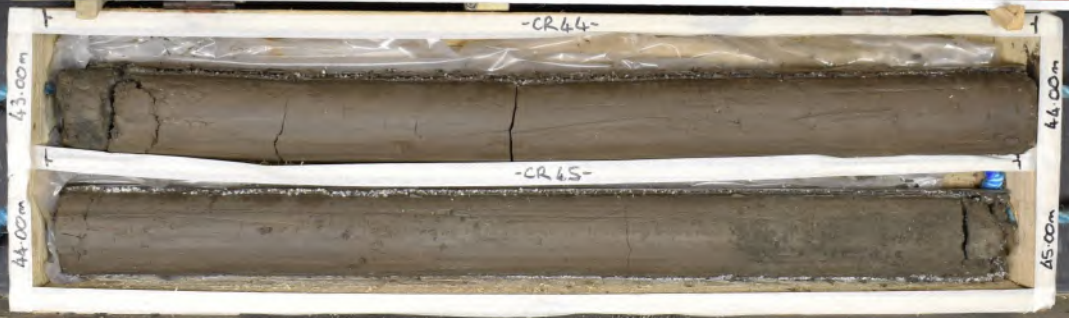
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_03
SAMPLE REF: CR 44+45
DEPTH TOP: 43.00 (m)

DATE: 27 / 07 / 19
BOX REF: Box 23
DEPTH BASE: 45.00 (m)

BASE



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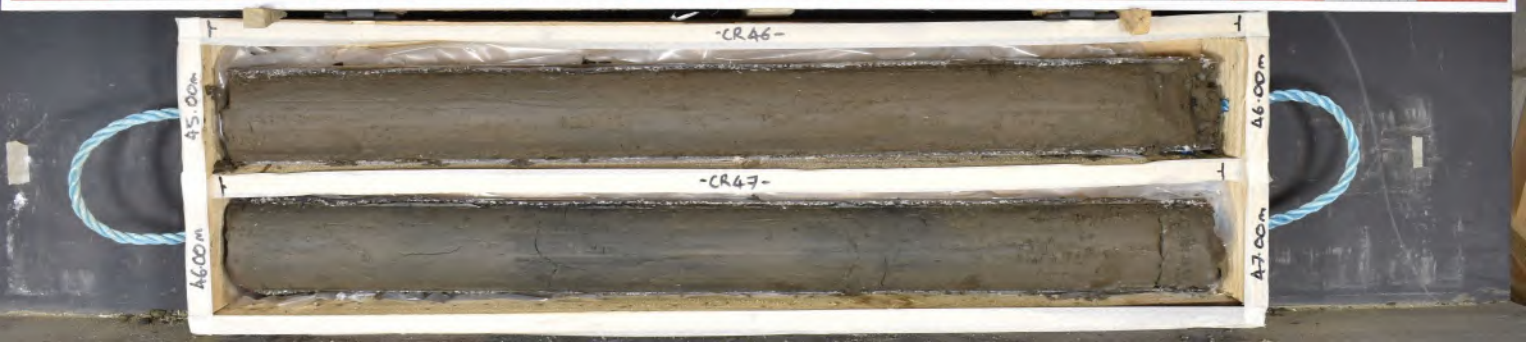
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_03 SAMPLE REF: CR 46+47 DEPTH TOP: 45.00 (m)

DATE: 27 / 07 / 19 BOX REF: Box 24 DEPTH BASE: 47.00 (m)

BASE



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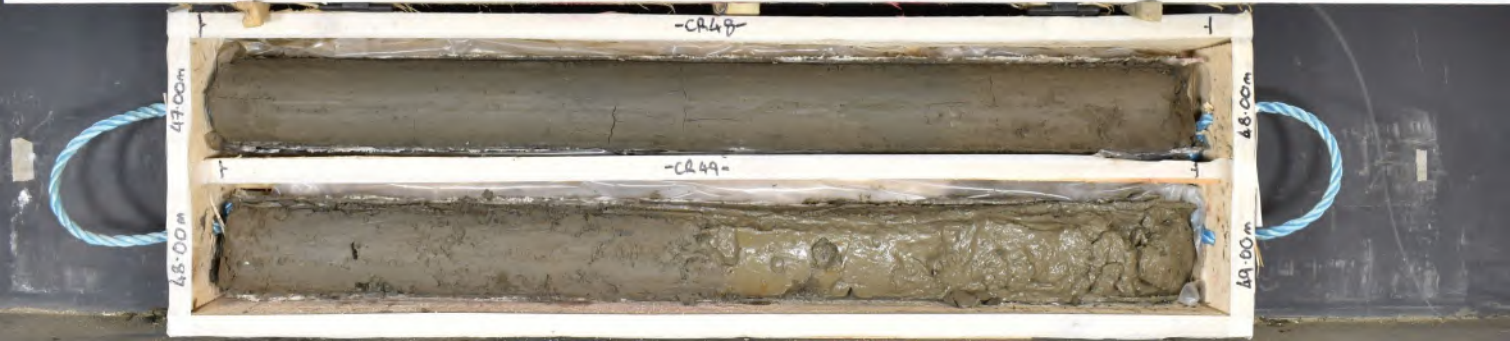
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

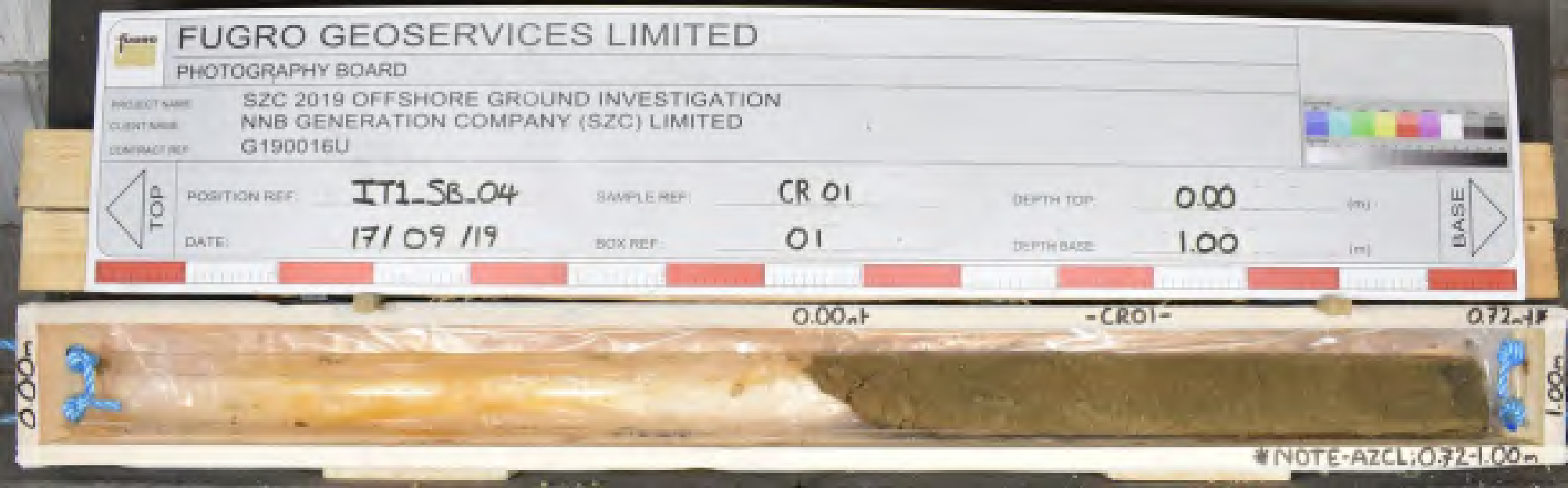
TOP

POSITION REF: IT1_SB_03 SAMPLE REF: CR 48+49 DEPTH TOP: 47.00 (m)

DATE: 27 / 07 / 19 BOX REF: Box 25 DEPTH BASE: 49.00 (m)

BASE




FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB_04
SAMPLE REF: CR 01
DEPTH TOP: 0.00 (m)
DATE: 17/09/19
BOX REF: 01
DEPTH BASE: 1.00 (m)
BASE
0.00m
-CR01-
0.72m
0.00m
1.00m
*NOTE-AZCL:0.72-1.00m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

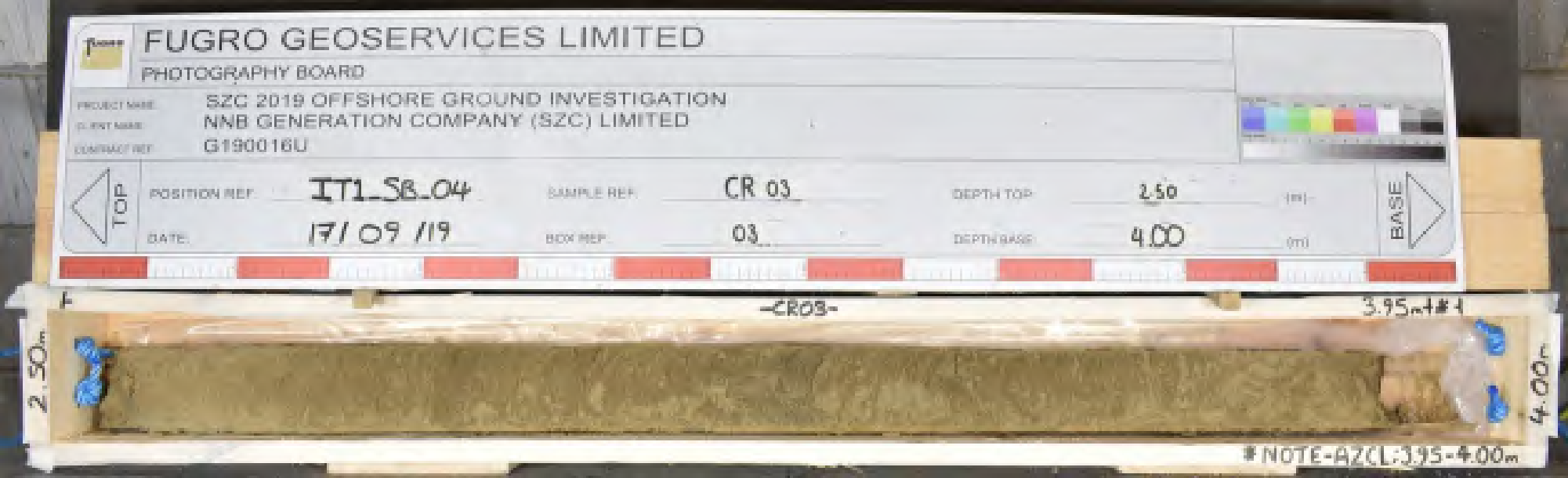
TOP

POSITION REF: IT1_SB_04 SAMPLE REF: CR 02 DEPTH TOP: 1.00 (m)

DATE: 17/09/19 BOX REF: 02 DEPTH BASE: 2.50 (m)

BASE

#NOTE-AZCL:2.42-2.50m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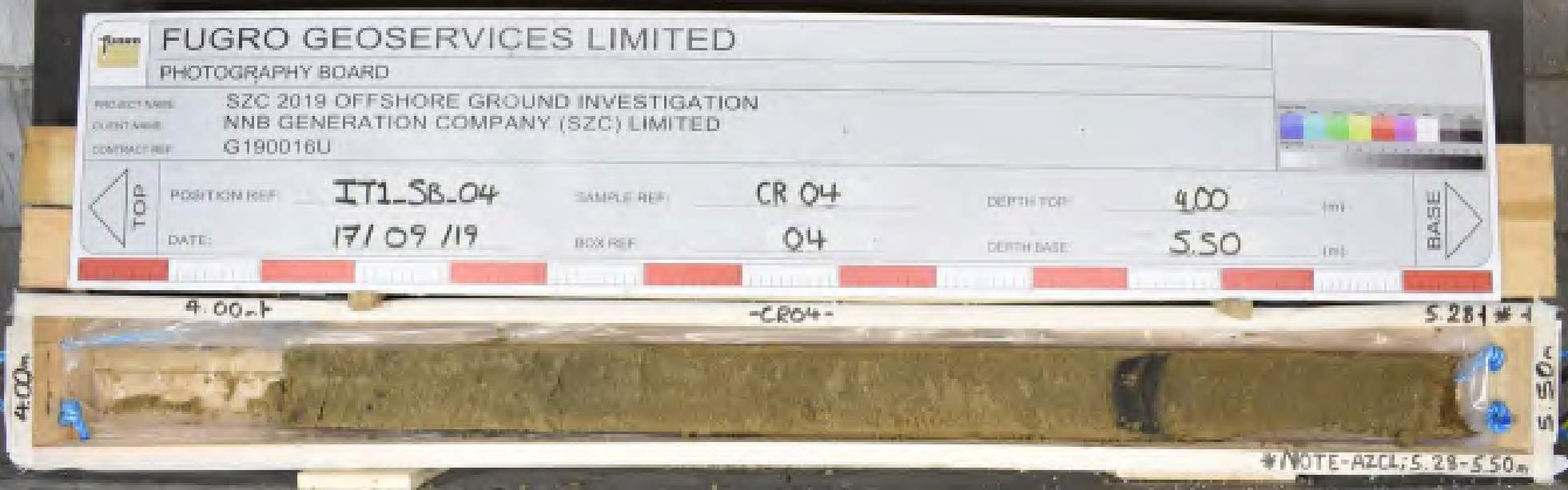
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB_04
DATE: 17/09/19
SAMPLE REF: CR 03
BOX REF: 03
DEPTH TOP: 2.50 (m)
DEPTH BASE: 4.00 (m)
BASE
-CR03-
3.95m
2.50m
4.00m
*NOTE-AZCL:3.95-4.00m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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB_04
SAMPLE REF: CR 04
DEPTH TOP: 4.00 (m)
DATE: 17/09/19
BOX REF: 04
DEPTH BASE: 5.50 (m)
BASE
4.00m
-CR04-
5.28 * 1
5.50m
*NOTE-AZCL; 5.28-5.50m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_04 SAMPLE REF: CR 05 DEPTH TOP: 5.50 (m)

DATE: 17/09/19 BOX REF: 05 DEPTH BASE: 7.00 (m)

BASE

5.50m ↑ -CR05- 6.78m ↑ *1

5.50m

7.00m

*NOTE-AZCL: 6.78-7.00m

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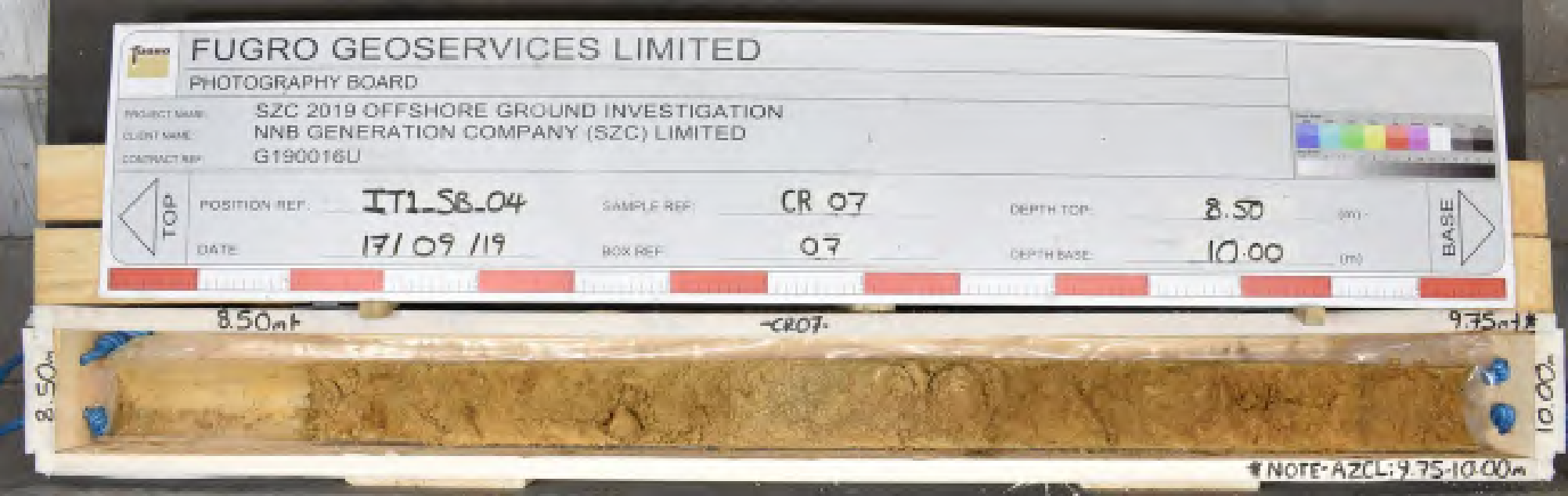
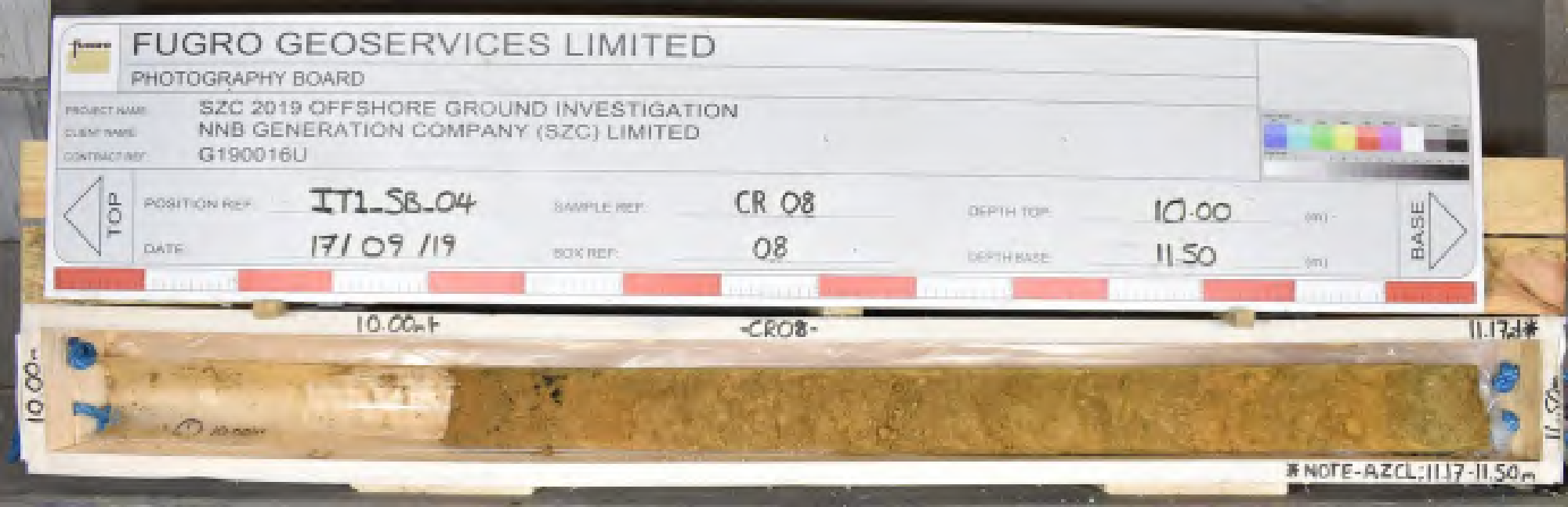
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB_04
SAMPLE REF: CR 06
DEPTH TOP: 7.00 (m)
DATE: 17/09/19
BOX REF: 06
DEPTH BASE: 8.50 (m)
BASE
7.00m
-CR06-
8.13-t # 1
8.50
#NOTE-AZCL: 8.13-8.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB_04
SAMPLE REF: CR 07
DEPTH TOP: 8.50 (m)
DATE: 17/09/19
BOX REF: 07
DEPTH BASE: 10.00 (m)
BASE
8.50mt
-CR07-
9.75mt*
8.50m
10.00m
*NOTE-AZCL: 9.75-10.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB_04
SAMPLE REF: CR 08
DEPTH TOP: 10.00 (m)
DATE: 17/09/19
BOX REF: 08
DEPTH BASE: 11.50 (m)
BASE
10.00m
-CR08-
11.17m*
10.00
* NOTE - AZCL: 11.17 - 11.50m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_04 SAMPLE REF: CR 09 DEPTH TOP: 11.50 (m)

DATE: 17/09/19 BOX REF: 09 DEPTH BASE: 13.00 (m)

BASE

*NOTE: AZCL; 12.85-13.00m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1.SB.04 SAMPLE REF: CR 10 DEPTH TOP: 13.00 (m)

DATE: 24/09/19 BOX REF: 10 DEPTH BASE: 14.50 (m)

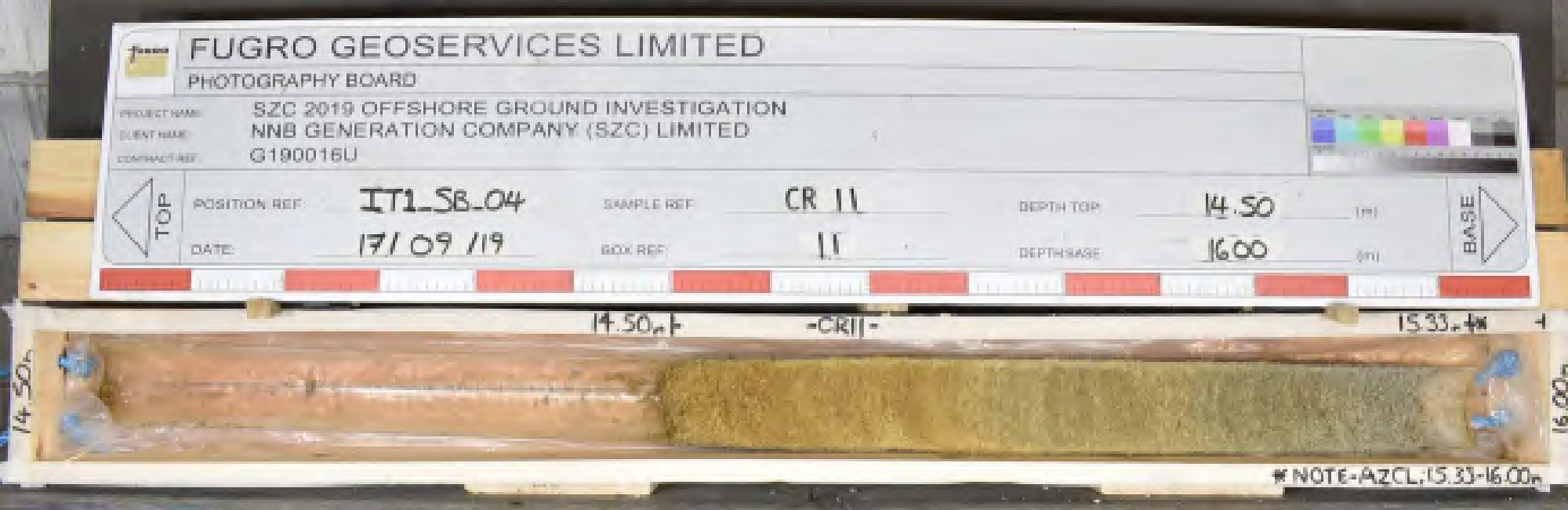
BASE

—CR10—

13.00m

14.50m

Possible Cemented Clay. Core Preserved as instructed by NNB and Sent to CEMETS


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB_04
SAMPLE REF: CR 11
DEPTH TOP: 14.50 (m)
DATE: 17/09/19
BOX REF: 11
DEPTH BASE: 16.00 (m)
BASE
14.50m
-CR11-
15.33m*
14.50m
16.00m
*NOTE-AZCL: 15.33-16.00m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_04 SAMPLE REF: CR 12 DEPTH TOP: 16.00 (m)
DATE: 24 / 09 / 19 BOX REF: 12 DEPTH BASE: 17.50 (m)

BASE

Possible Cemented Clay. Sample Prepared as instructed by NNB and sent to Cemex

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1.SB.04 SAMPLE REF: CR 13 DEPTH TOP: 17.50 (m)

DATE: 24/09/19 BOX REF: 13 DEPTH BASE: 19.00 (m)

BASE

-CR13-

17.50m

19.00m

POSSIBLE CEMENTED CRAG: PRESERVED UNDISTURBED AS INSTRUCTED BY NNB AND SENT TO CEMETE.

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_04 SAMPLE REF: CR 14 DEPTH TOP: 19.00 (m)

DATE: 17/09/19 BOX REF: 14 DEPTH BASE: 20.50 (m)

BASE

19.00-↑ -CR14- 20.35-↑ *1

19.00m 20.50m

*NOTE-AZCL: 20.35-20.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

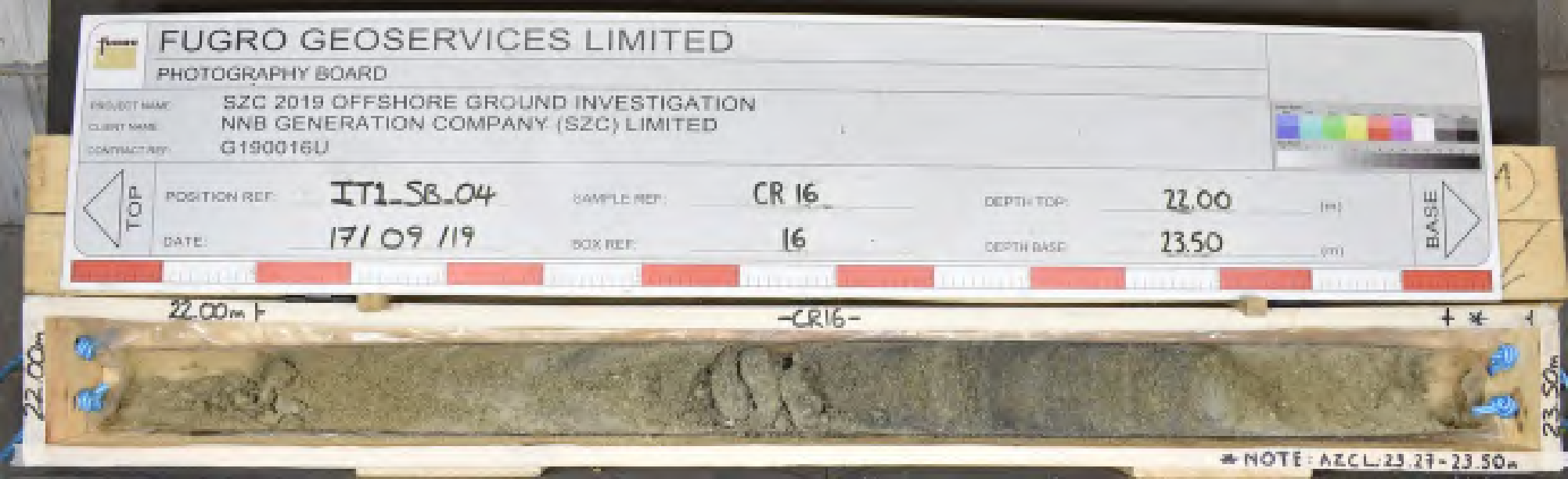
TOP

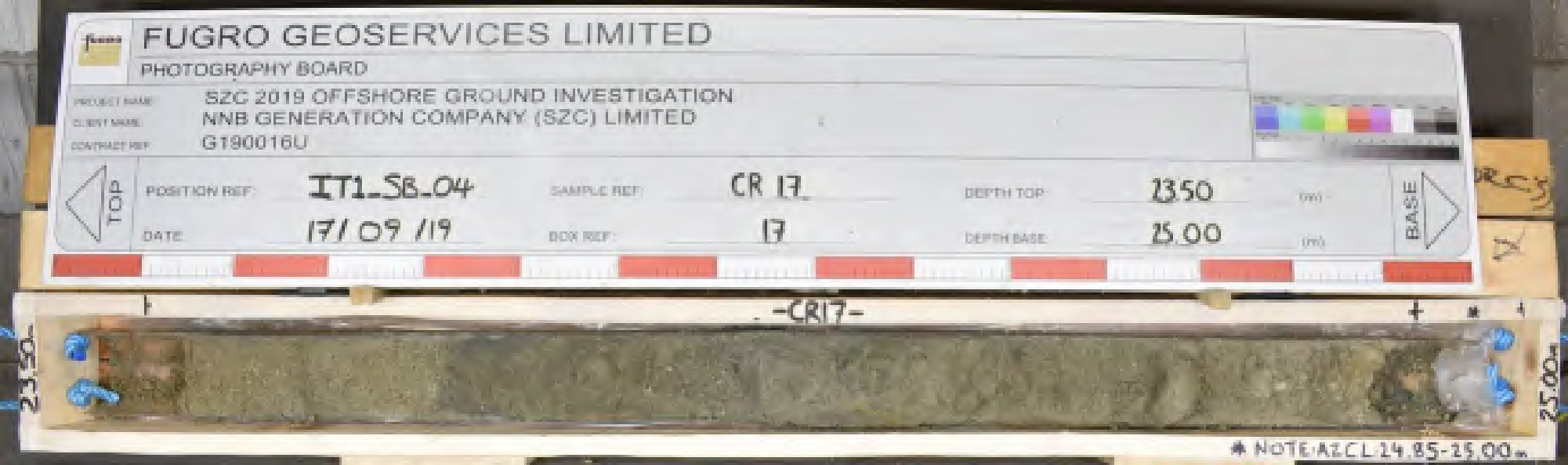
POSITION REF: IT1_SB_04 SAMPLE REF: CR 15 DEPTH TOP: 2050 (m)

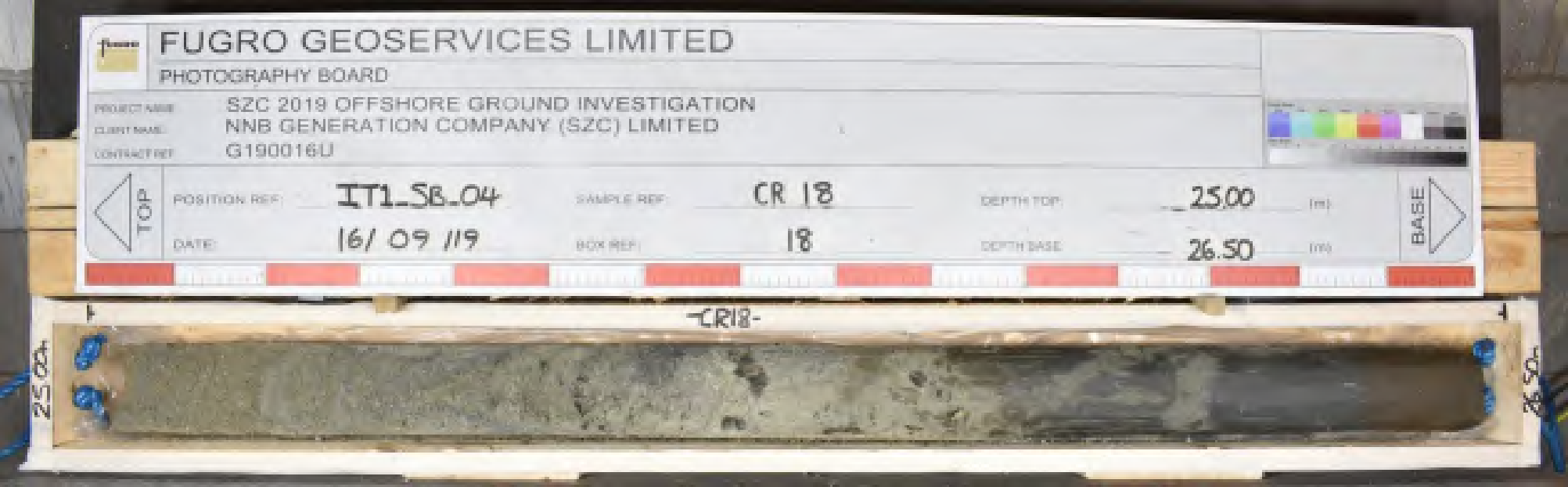
DATE: 17/09/19 BOX REF: 15 DEPTH BASE: 22.00 (m)

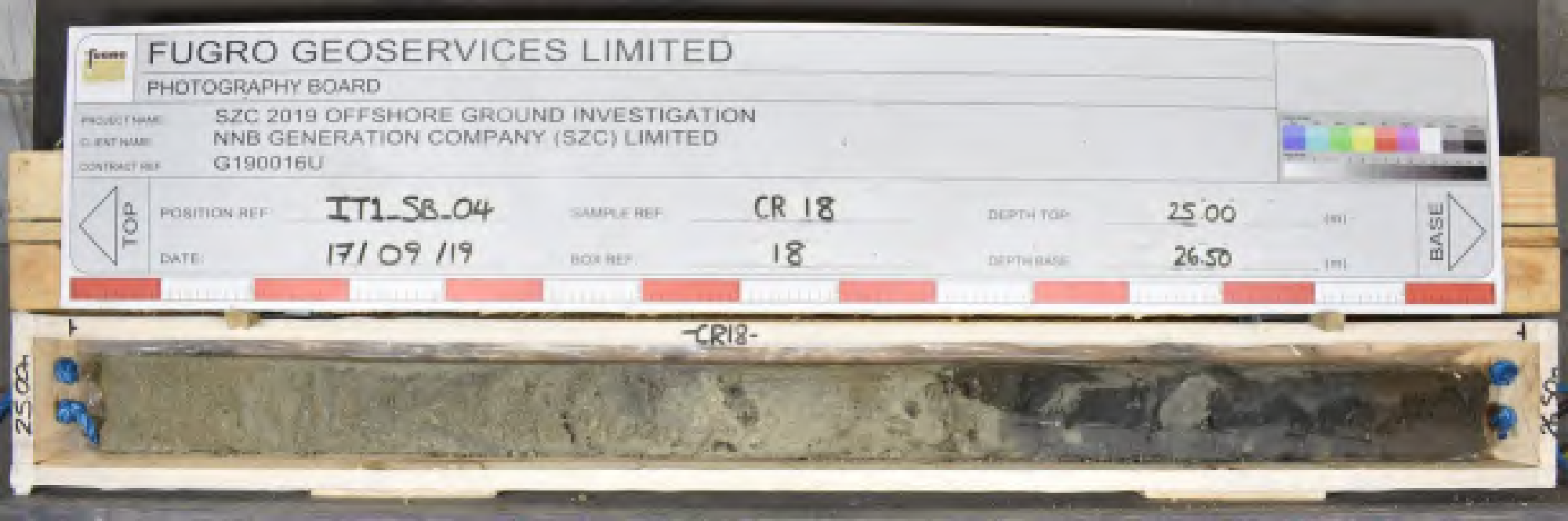
BASE

NOTE-AZCL: 21.82-22.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT NO: G190016U
TOP
POSITION REF: IT1_SB_04
SAMPLE REF: CR 16
DEPTH TOP: 22.00 (m)
DATE: 17/09/19
BOX REF: 16
DEPTH BASE: 23.50 (m)
BASE
22.00m
-CR16-
22.00m
23.50m
* NOTE : AZCL 23.27 - 23.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB_04
DATE: 17/09/19
SAMPLE REF: CR 17
BOX REF: 17
DEPTH TOP: 23.50 (m)
DEPTH BASE: 25.00 (m)
BASE
-CR17-
23.50
25.00
* NOTE: AZCL 24.85-25.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB_04
SAMPLE REF: CR 18
DEPTH TOP: 25.00 (m)
DATE: 16/09/19
BOX REF: 18
DEPTH BASE: 26.50 (m)
BASE
CR18
25.00
26.50


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB_04
SAMPLE REF: CR 18
DEPTH TOP: 25.00 (m)
DATE: 17/09/19
BOX REF: 18
DEPTH BASE: 26.50 (m)
BASE
CR18
25.00
26.50

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_04 SAMPLE REF: CR 19 DEPTH TOP: 26.50 (m)

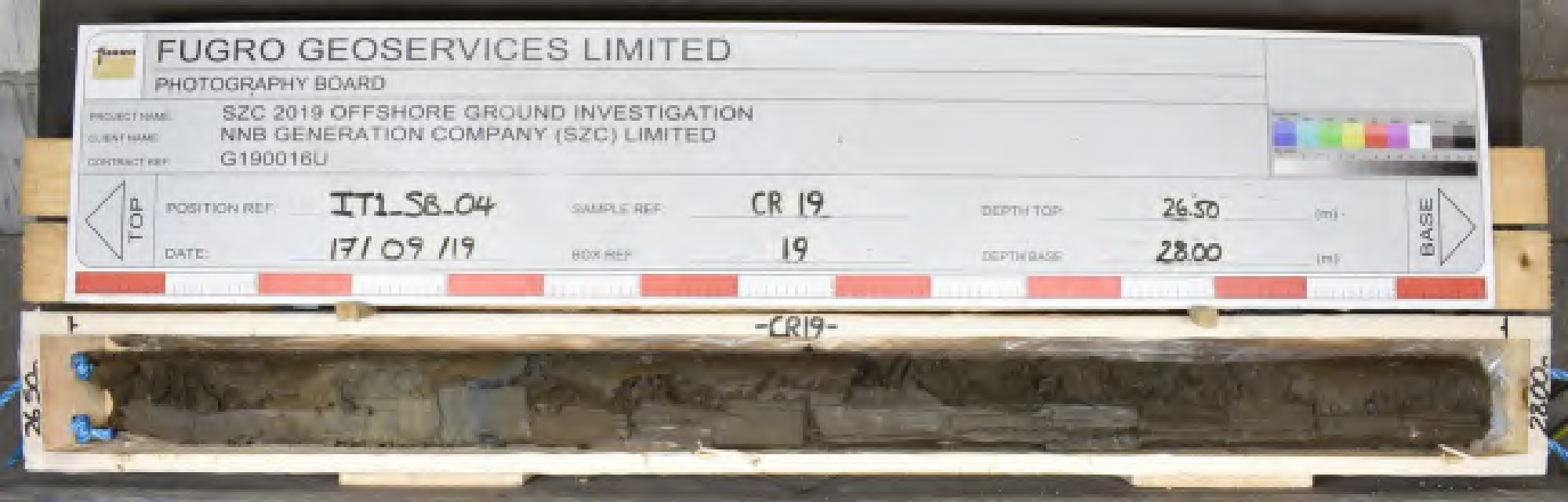
DATE: 16/09/19 BOX REF: 19 DEPTH BASE: 28.00 (m)

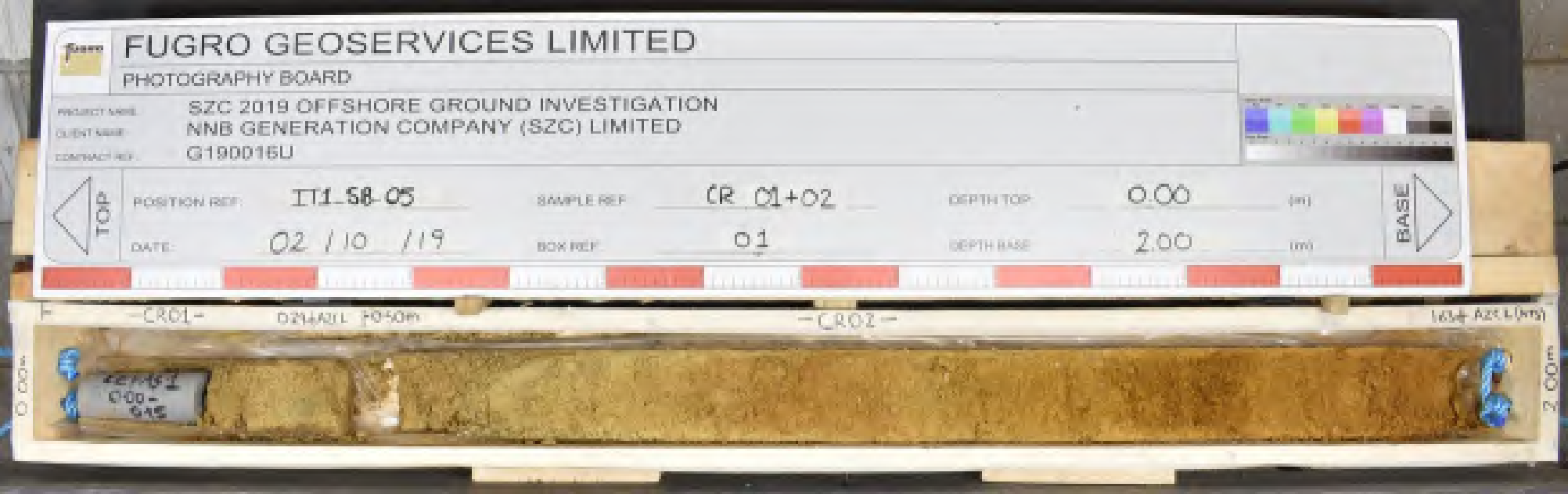
BASE

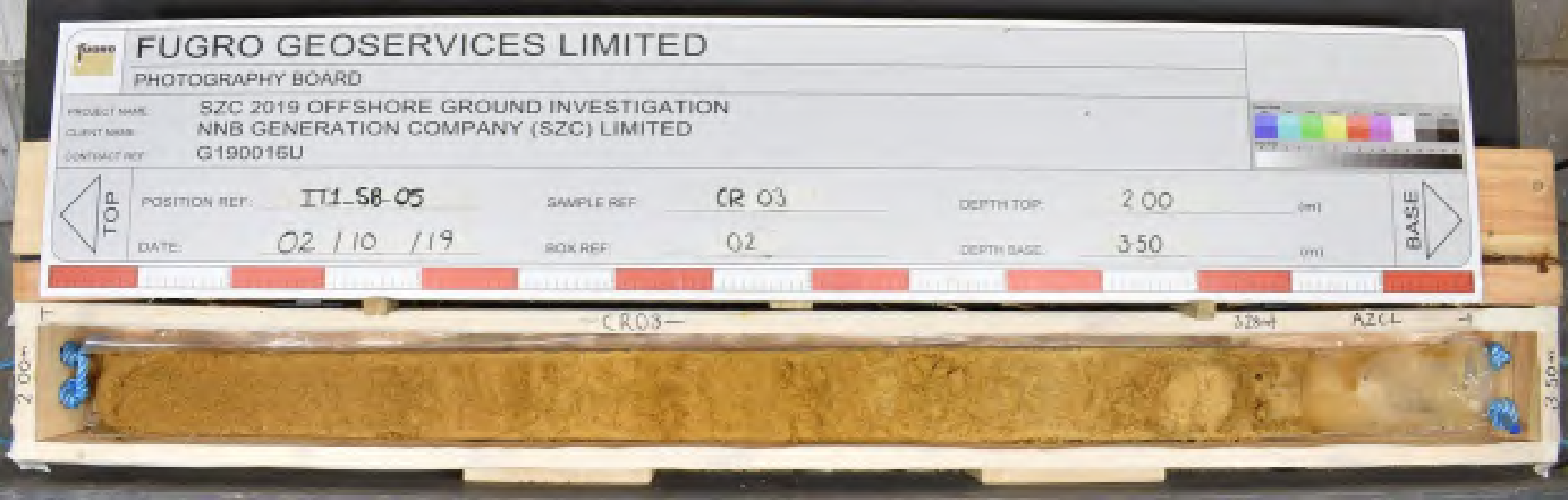
-CR19-

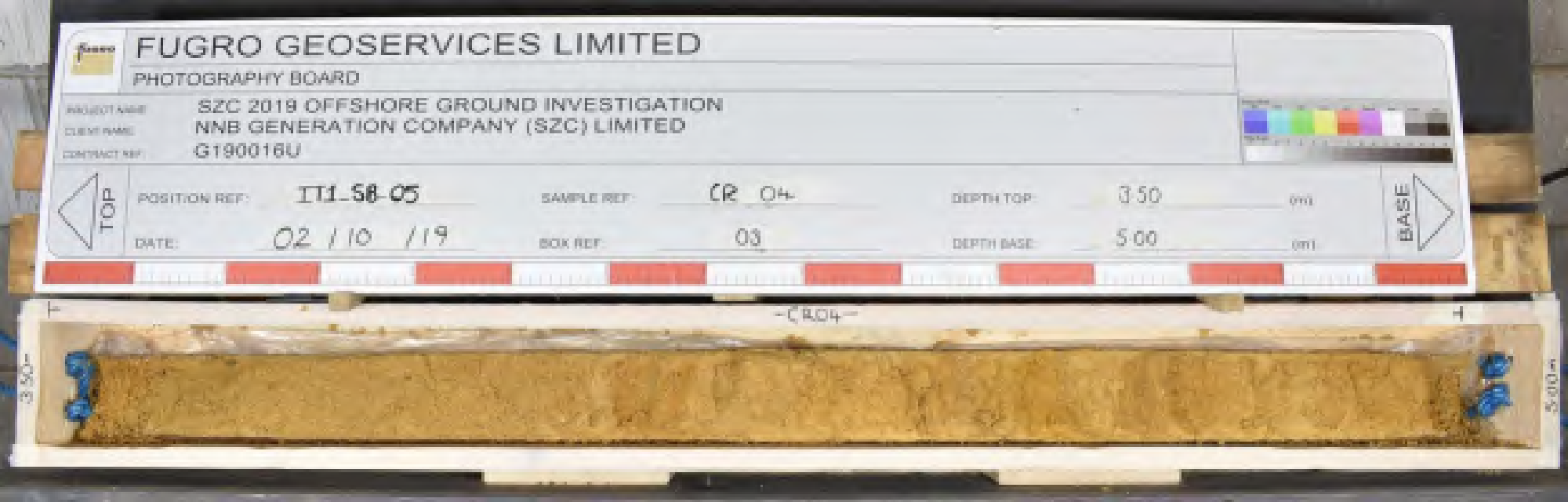
26.50

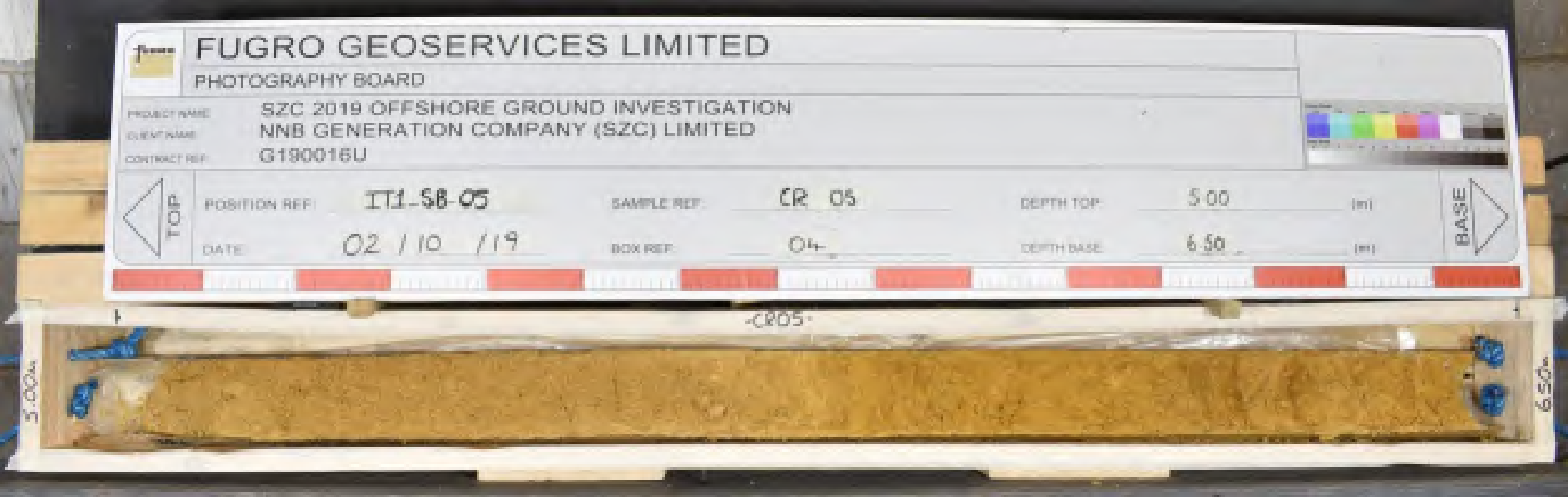
28.00


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB_04
SAMPLE REF: CR 19
DEPTH TOP: 26.50 (m)
DATE: 17/09/19
BOX REF: 19
DEPTH BASE: 28.00 (m)
BASE
-CR19-
26.50
28.00


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB-05
DATE: 02 / 10 / 19
SAMPLE REF: CR 01+02
BOX REF: 01
DEPTH TOP: 0.00 (m)
DEPTH BASE: 2.00 (m)
BASE
-CR01-
-CR02-
0.00m
2.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB-05
DATE: 02 / 10 / 19
SAMPLE REF: CR 03
BOX REF: 02
DEPTH TOP: 2.00 (m)
DEPTH BASE: 3.50 (m)
BASE
CR03
2.00m
3.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB_05
DATE: 02 / 10 / 19
SAMPLE REF: CR 04
BOX REF: 03
DEPTH TOP: 3.50 (m)
DEPTH BASE: 5.00 (m)
BASE
CR04
3.50
5.00


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SB-05
SAMPLE REF: CR 05
DEPTH TOP: 5.00 (m)
DATE: 02 / 10 / 19
BOX REF: 04
DEPTH BASE: 6.50 (m)
BASE
-CR05-
5.00m
6.50m

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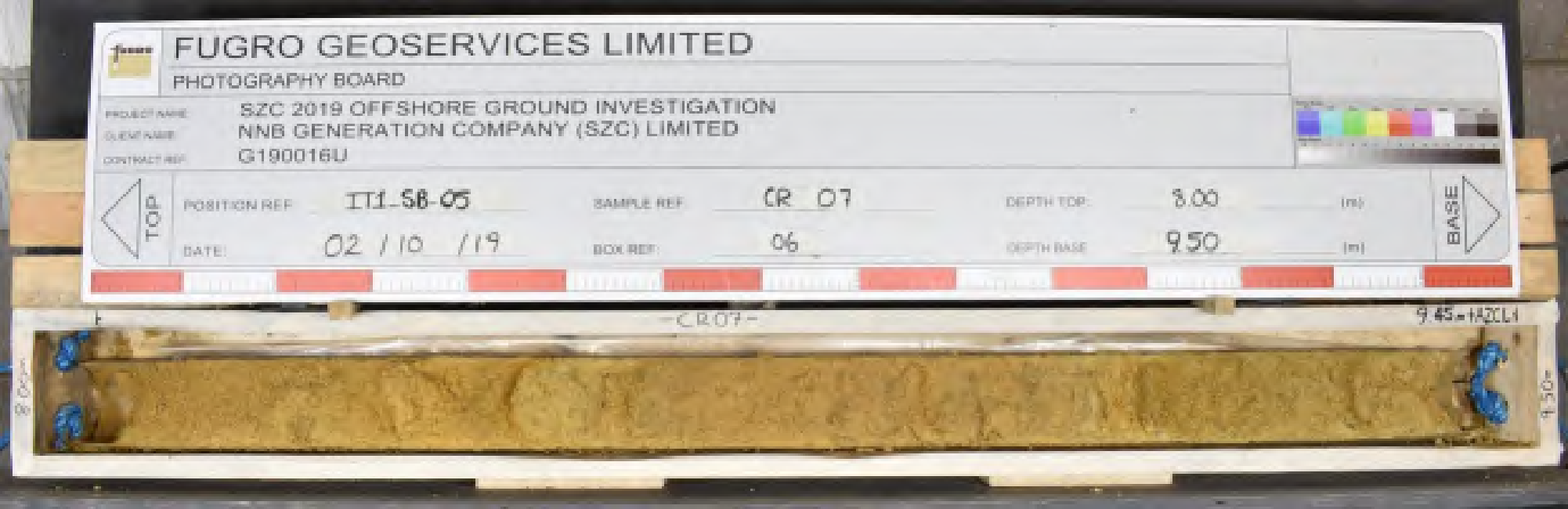
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SB-05
SAMPLE REF: CR 06
DEPTH TOP: 6.50 (m)
DATE: 02 / 10 / 19
BOX REF: 05
DEPTH BASE: 8.00 (m)
BASE
-CR06-
7.37mt
AZCL
6.50m
8.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SB-05
SAMPLE REF: CR 07
DEPTH TOP: 8.00 (m)
DATE: 02 / 10 / 19
BOX REF: 06
DEPTH BASE: 9.50 (m)
BASE
-CR07-
9.45=HAZCL1
8.00=
9.50=

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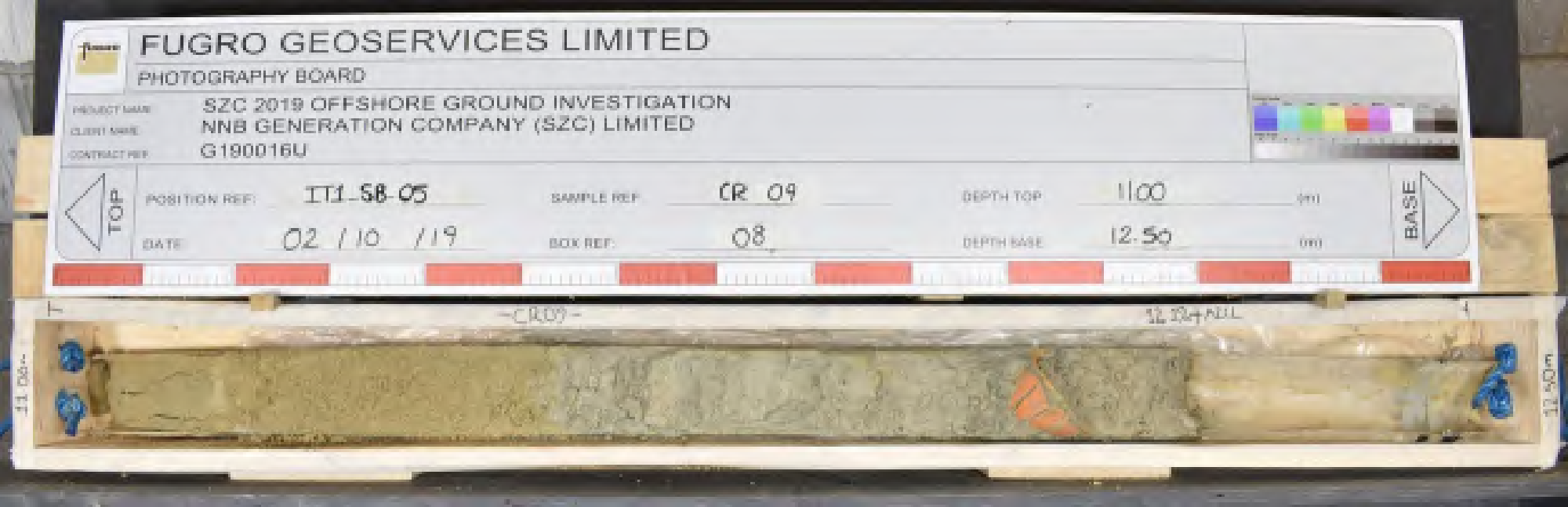
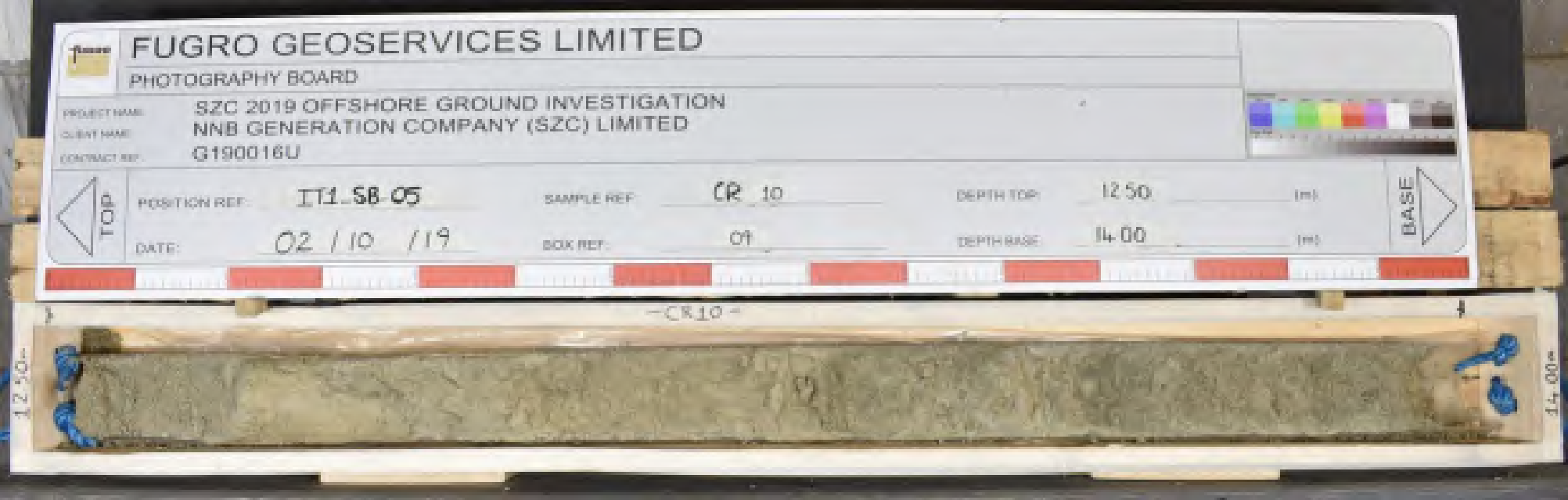
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SB-05
SAMPLE REF: CR 08
DEPTH TOP: 9.50 (m)
DATE: 02 / 10 / 19
BOX REF: 07
DEPTH BASE: 11.00 (m)
BASE
-CR08-
10.40m ATCL
9.50
11.00


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF G190016U
TOP
POSITION REF: IT1_SB-05
SAMPLE REF CR 09
DEPTH TOP 11.00 (m)
DATE 02 / 10 / 19
BOX REF: 08
DEPTH BASE 12.50 (m)
BASE
-CR09-
12.50mAD.L
11.00m
12.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB 05
SAMPLE REF: CR 10
DEPTH TOP: 12.50 (m)
DATE: 02 / 10 / 19
BOX REF: 09
DEPTH BASE: 14.00 (m)
BASE
-CR10-
12.50m
14.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-05

SAMPLE REF: CR 11

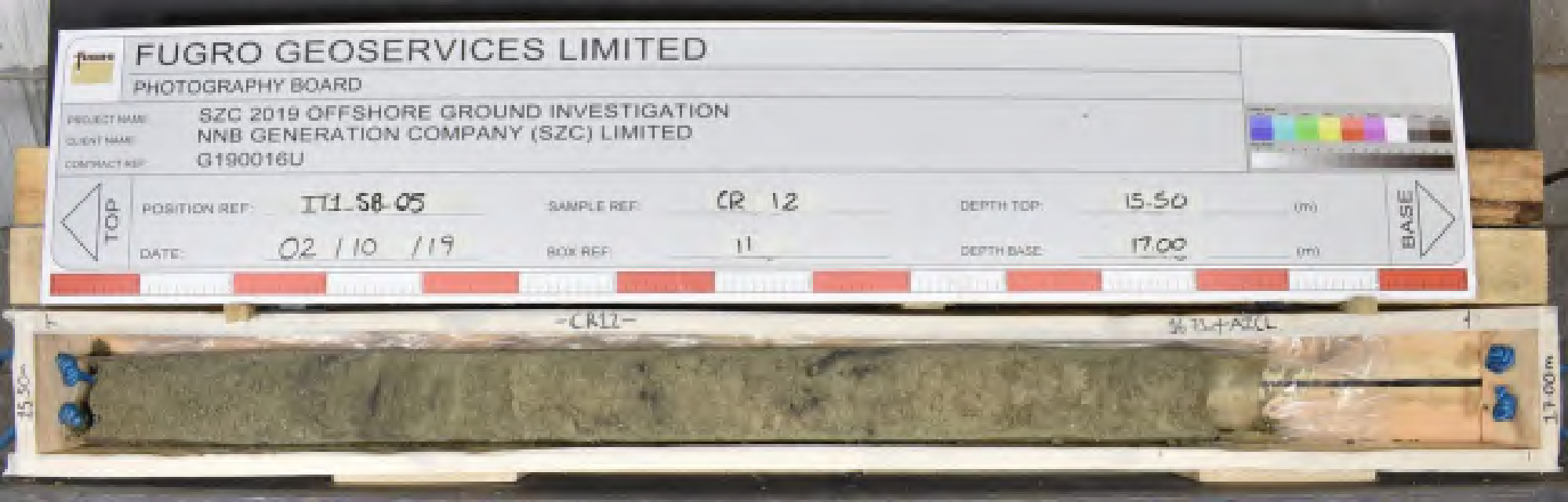
DEPTH TOP: 14.00 (m)

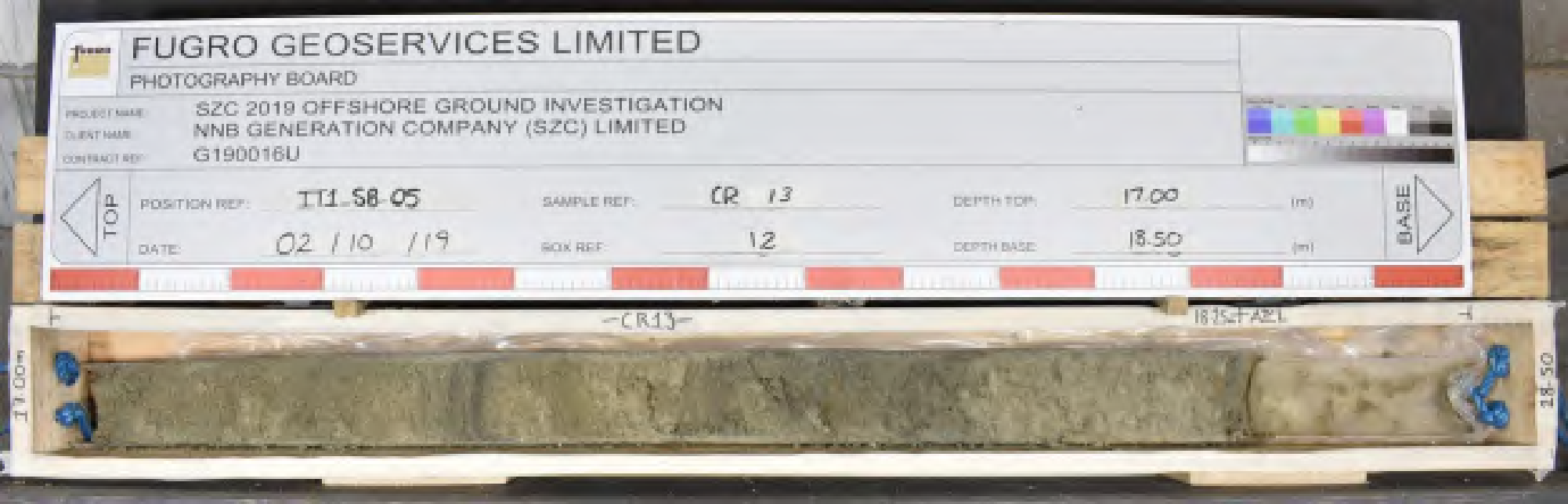
DATE: 02 / 10 / 19

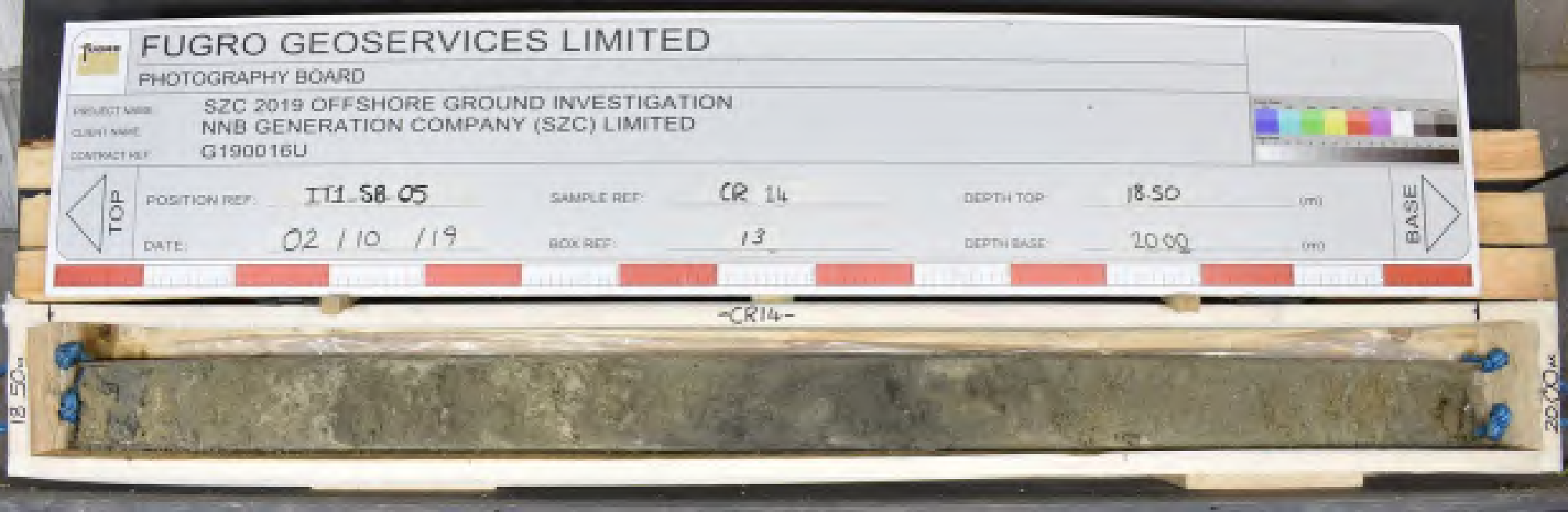
BOX REF: 10

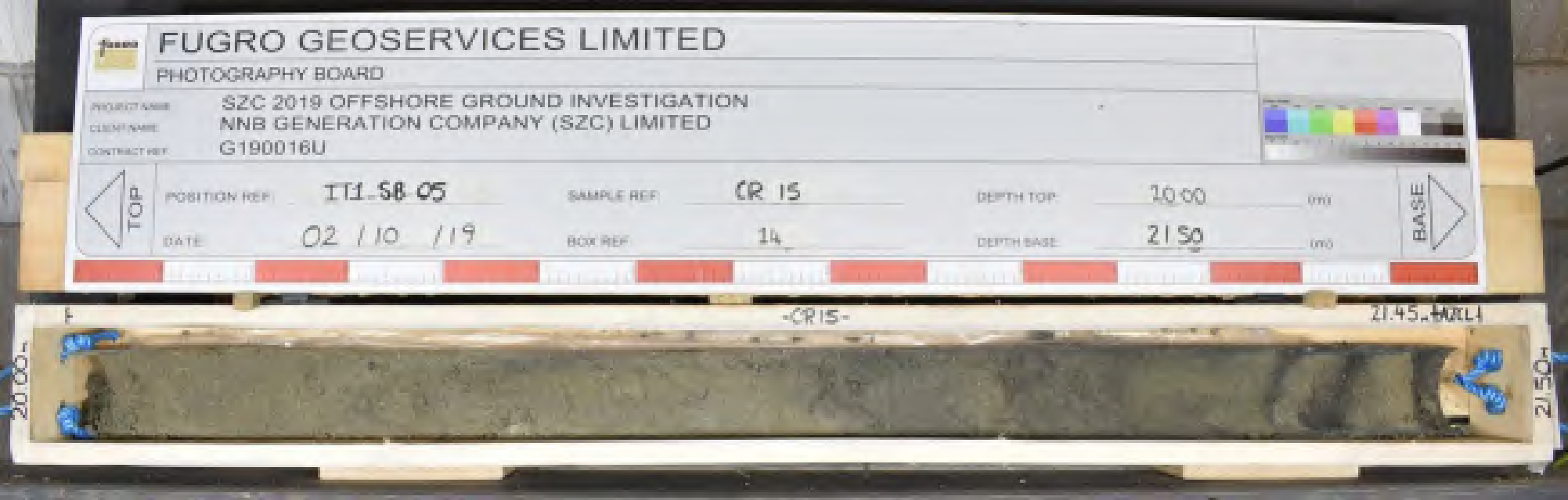
DEPTH BASE: 15.50 (m)

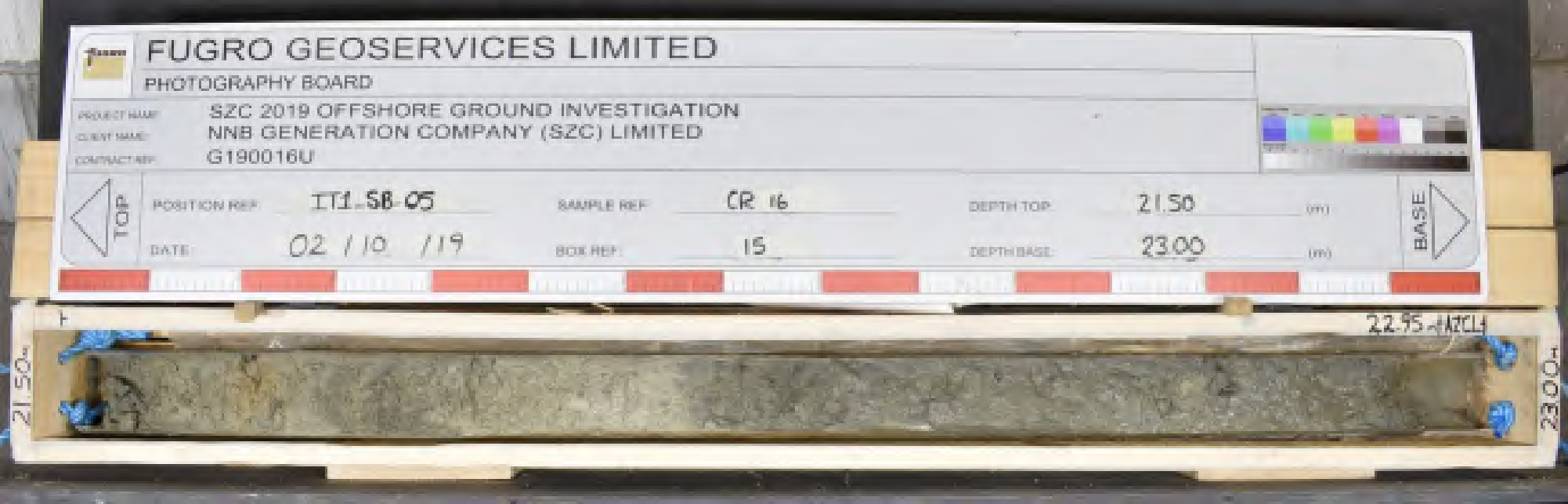
BASE

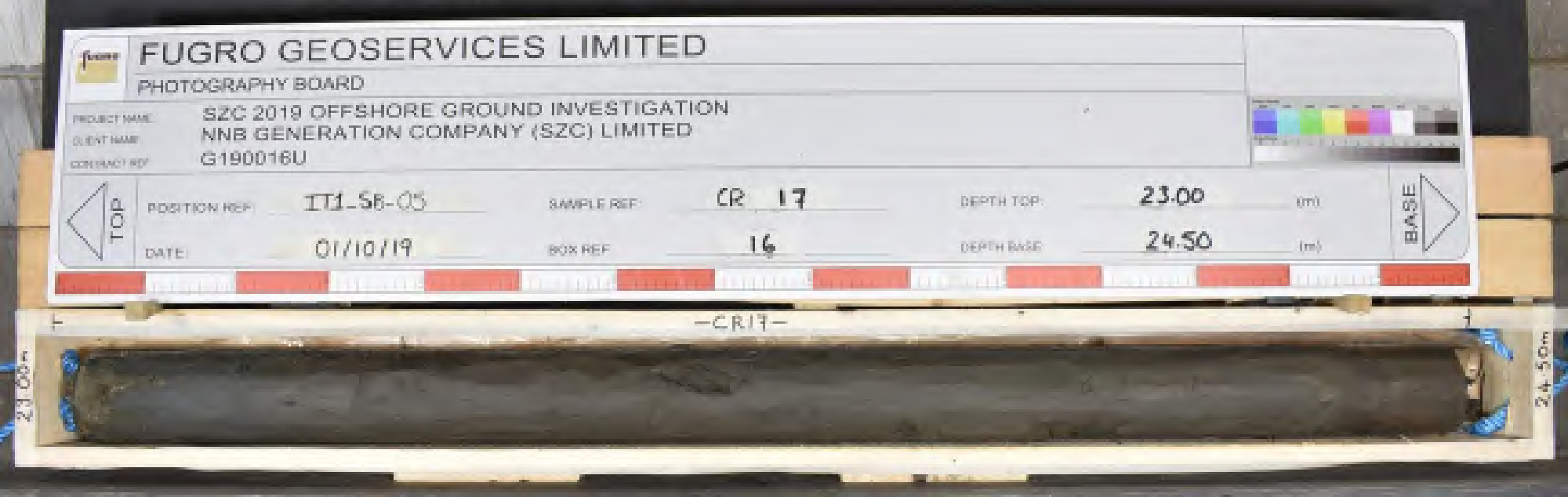

FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_58-05
SAMPLE REF: CR 12
DEPTH TOP: 15.50 (m)
DATE: 02 / 10 / 19
BOX REF: 11
DEPTH BASE: 17.00 (m)
BASE
-CR12-
15.50m
17.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_S8-05
SAMPLE REF: CR 13
DEPTH TOP: 17.00 (m)
DATE: 02 / 10 / 19
BOX REF: 12
DEPTH BASE: 18.50 (m)
BASE
-CR13-
18.35 CAP
17.00m
18.50


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB-05
SAMPLE REF: CR 14
DEPTH TOP: 18.50 (m)
DATE: 02 / 10 / 19
BOX REF: 13
DEPTH BASE: 20.00 (m)
BASE
-CR14-
18.50m
20.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF G190016U
TOP
POSITION REF IT1-SB-05
SAMPLE REF CR 15
DEPTH TOP 20.00 (m)
DATE 02 / 10 / 19
BOX REF 14
DEPTH BASE 21.50 (m)
BASE
-CR15-
21.45 NOZL
20.00
21.50


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SB-05
SAMPLE REF: CR 16
DEPTH TOP: 21.50 (m)
DATE: 02 / 10 / 19
BOX REF: 15
DEPTH BASE: 23.00 (m)
BASE
22.95 - HAECK
21.50m
23.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB-05
SAMPLE REF: CR 17
DEPTH TOP: 23.00 (m)
DATE: 01/10/19
BOX REF: 16
DEPTH BASE: 24.50 (m)
BASE
-CR17-
23.00m
24.50m

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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SB-05
SAMPLE REF: CR 17
DEPTH TOP: 23.00 (m)
DATE: 02 / 10 / 19
BOX REF: 16
DEPTH BASE: 24.50 (m)
BASE
T
-CR17-
J
23.00m
24.50m

FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT NO.: G190016U
TOP
POSITION REF: IT1_SB_05
SAMPLE REF: CR 18
DEPTH TOP: 24.50 (m)
DATE: 01/10/19
BOX REF: 17
DEPTH BASE: 26.00 (m)
BASE
-CR18-
24.50
26.00

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-05 SAMPLE REF: CR_18 DEPTH TOP: 24.50 (m)

DATE: 02 / 10 / 19 BOX REF: 17 DEPTH BASE: 26.00 (m)

BASE

-CR18-

24.50m

26.00m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-05

SAMPLE REF: CR 19

DEPTH TOP: 26.00 (m)

DATE: 01/10/19

BOX REF: 18

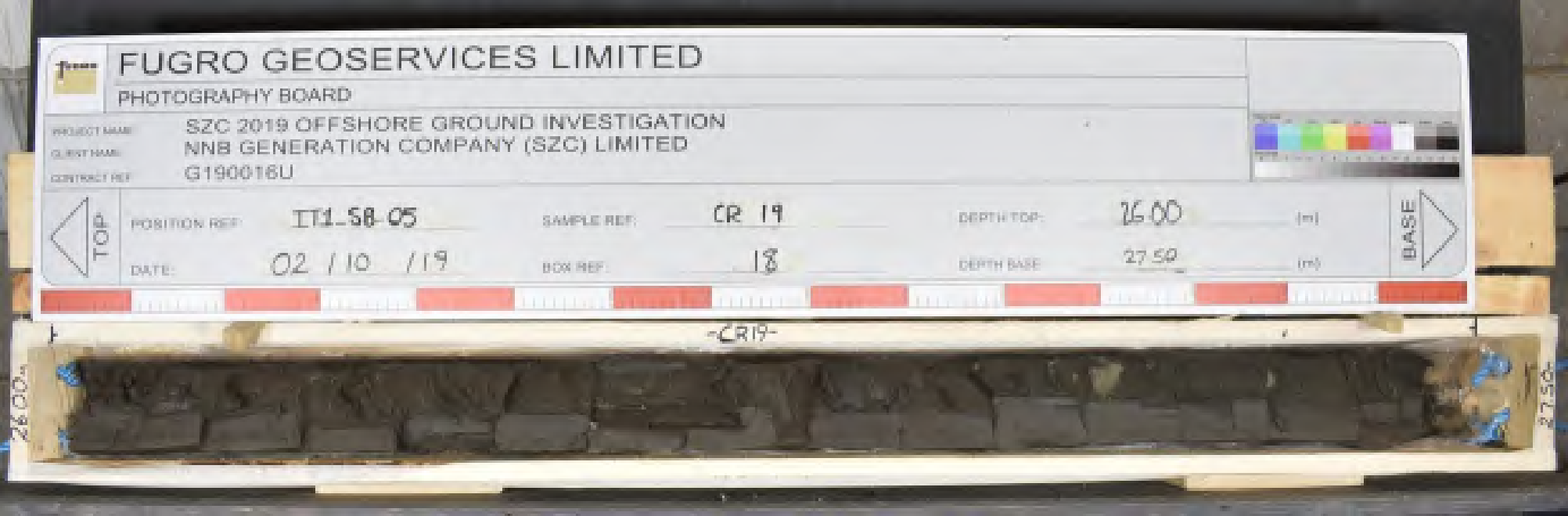
DEPTH BASE: 27.50 (m)

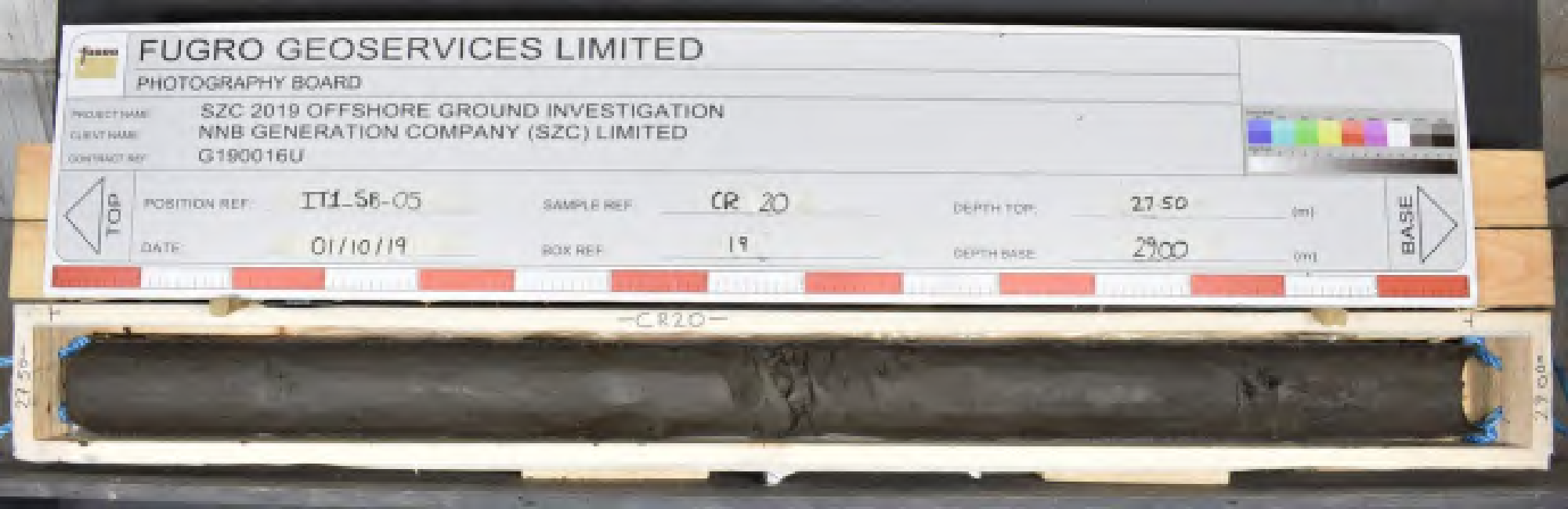
BASE

-CR19-

26.00m

27.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB-05
DATE: 02 / 10 / 19
SAMPLE REF: CR 19
BOX REF: 18
DEPTH TOP: 26.00 (m)
DEPTH BASE: 27.50 (m)
BASE
-CR19-
26.00m
27.50m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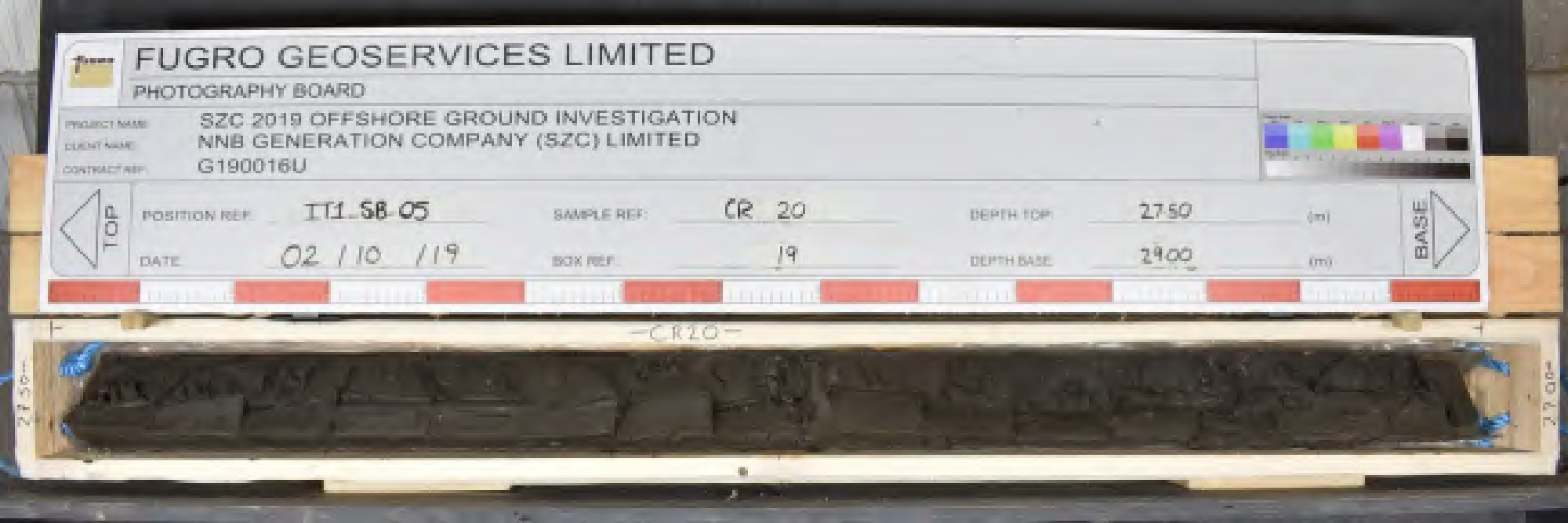
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB-05
SAMPLE REF: CR 20
DEPTH TOP: 27.50 (m)
DATE: 01/10/19
BOX REF: 19
DEPTH BASE: 29.00 (m)
BASE
CR20
27.50
29.00


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB_05
SAMPLE REF: CR_20
DEPTH TOP: 27.50 (m)
DATE: 02 / 10 / 19
BOX REF: 19
DEPTH BASE: 29.00 (m)
BASE
CR20
27.50
27.00

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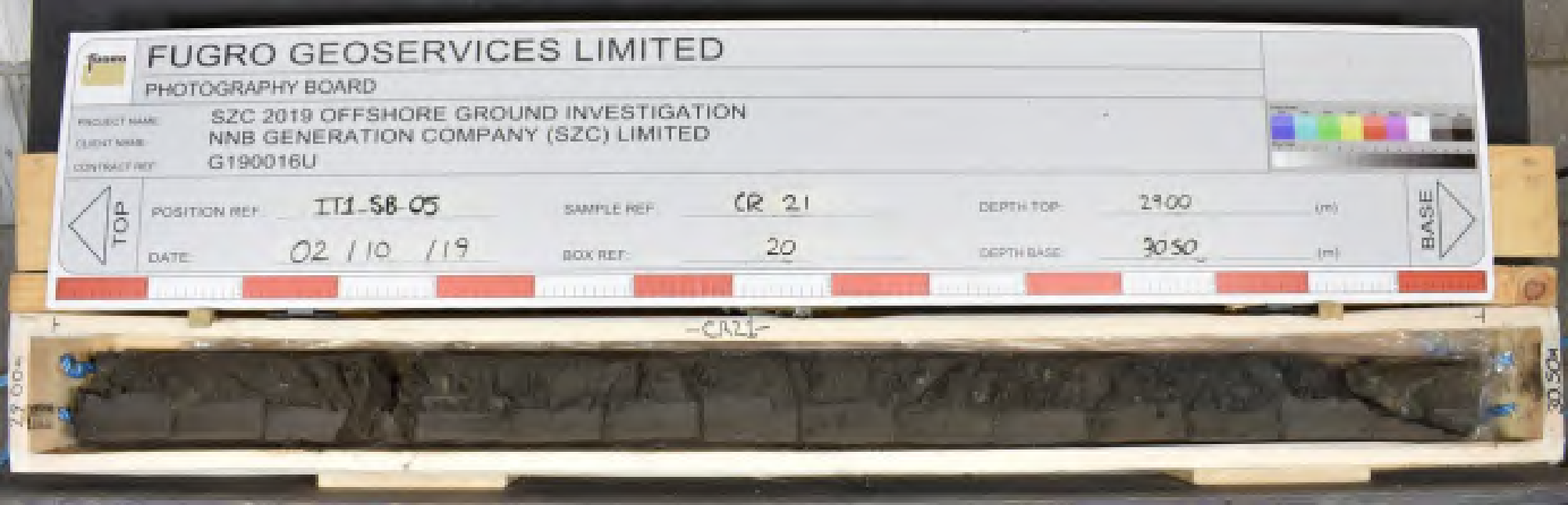
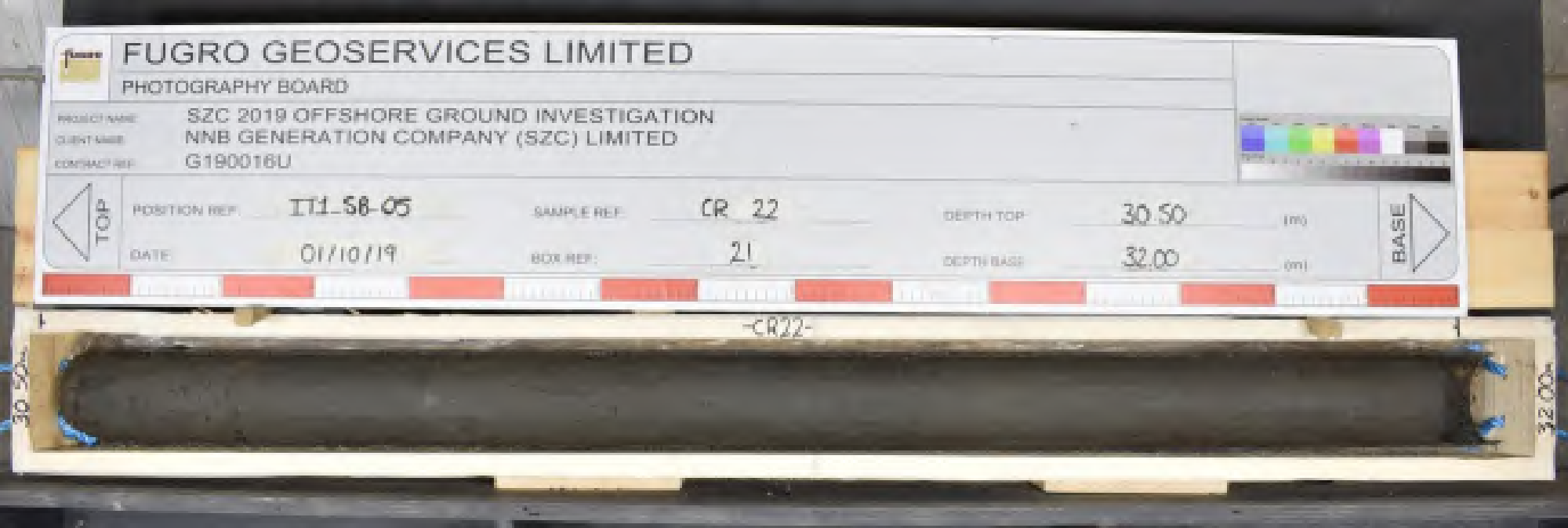
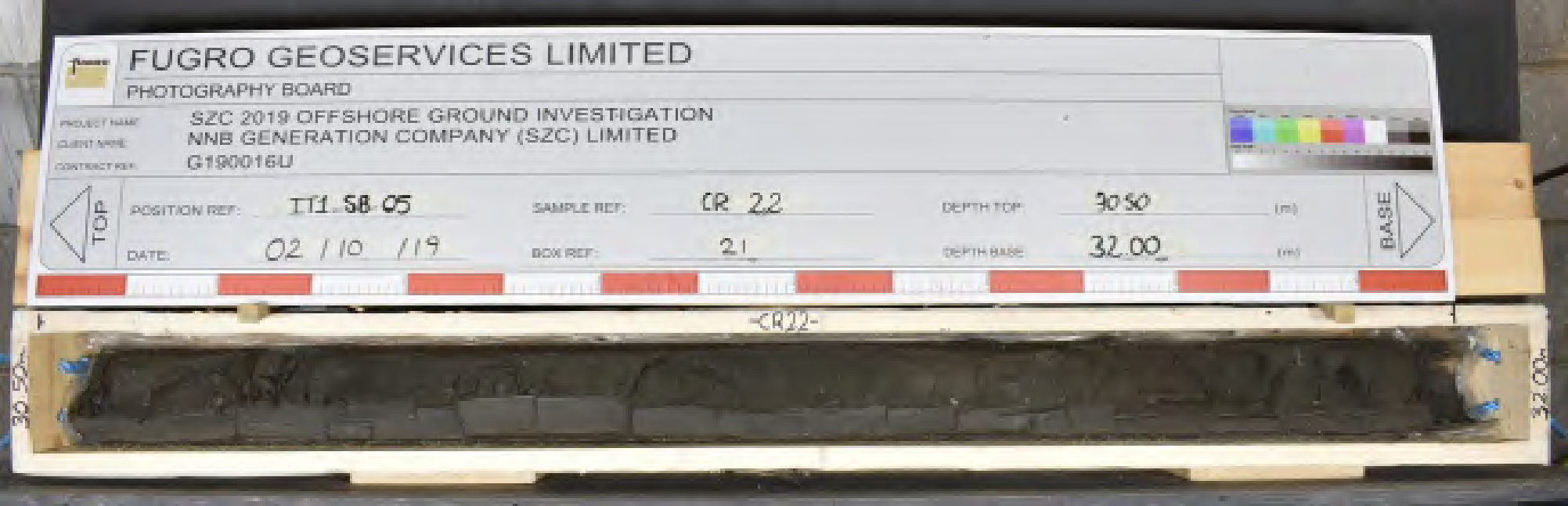
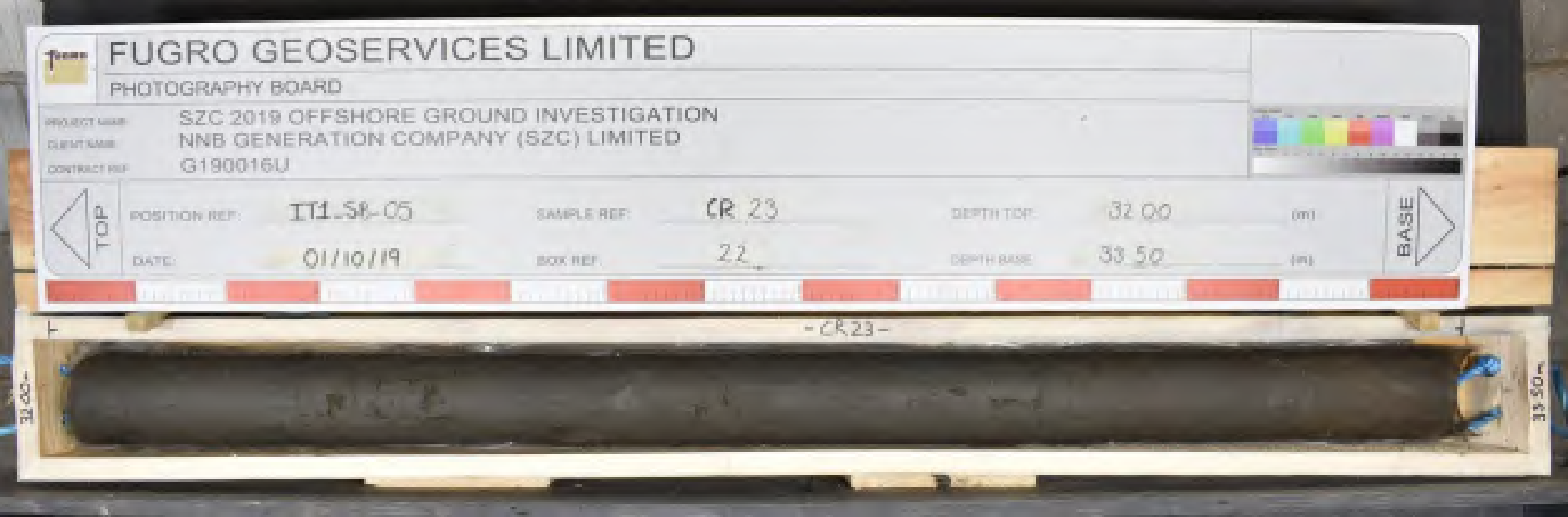
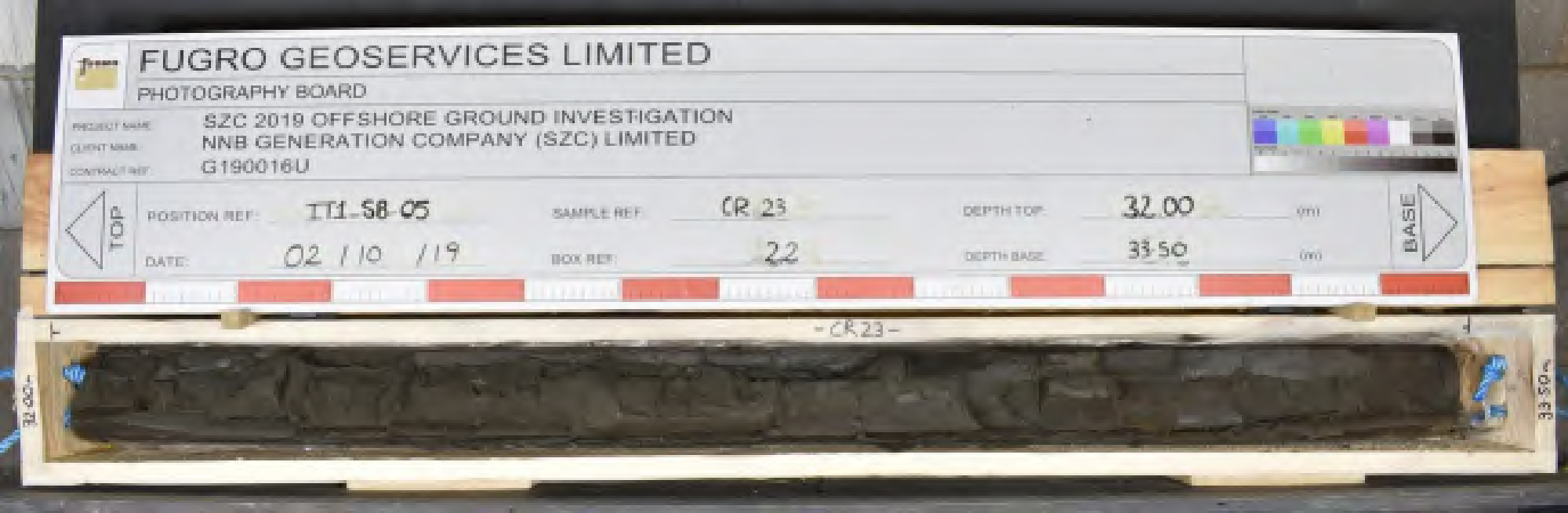
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB-05
SAMPLE REF: CR_21
DEPTH TOP: 29.00 (m)
DATE: 01/10/19
BOX REF: 20
DEPTH BASE: 30.50 (m)
BASE
-CALL-
29.00
30.50

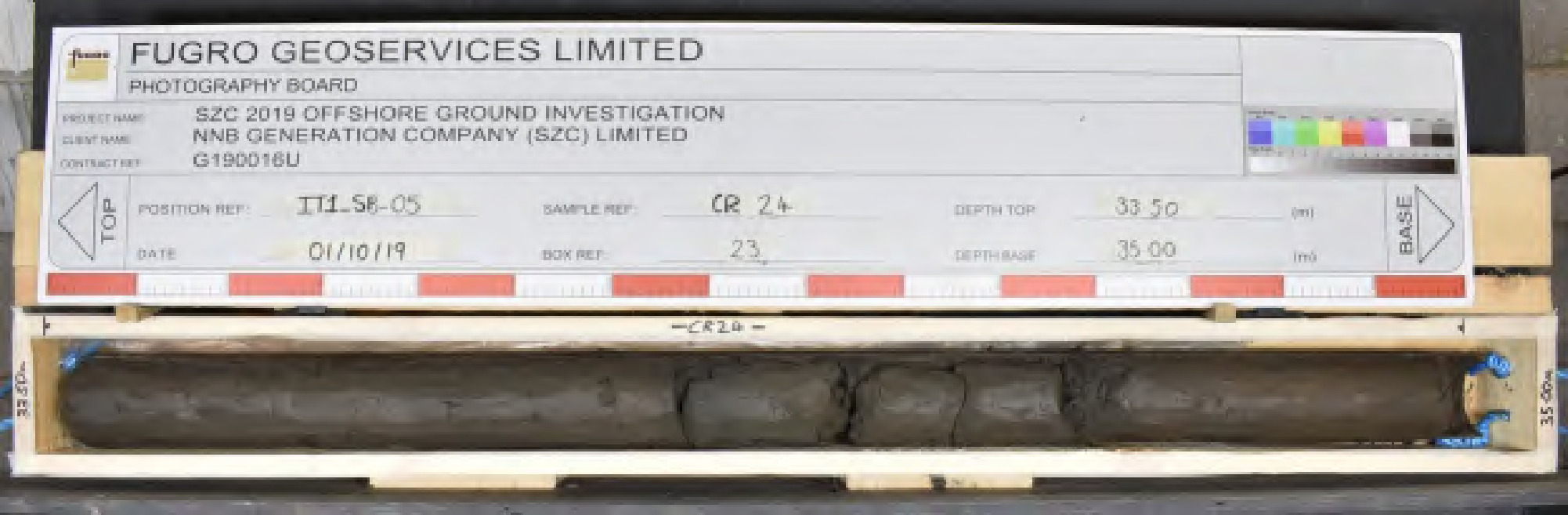

FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SB-05
SAMPLE REF: CR 21
DEPTH TOP: 29.00 (m)
DATE: 02/10/19
BOX REF: 20
DEPTH BASE: 30.50 (m)
BASE
-CR21-
29.00
30.50

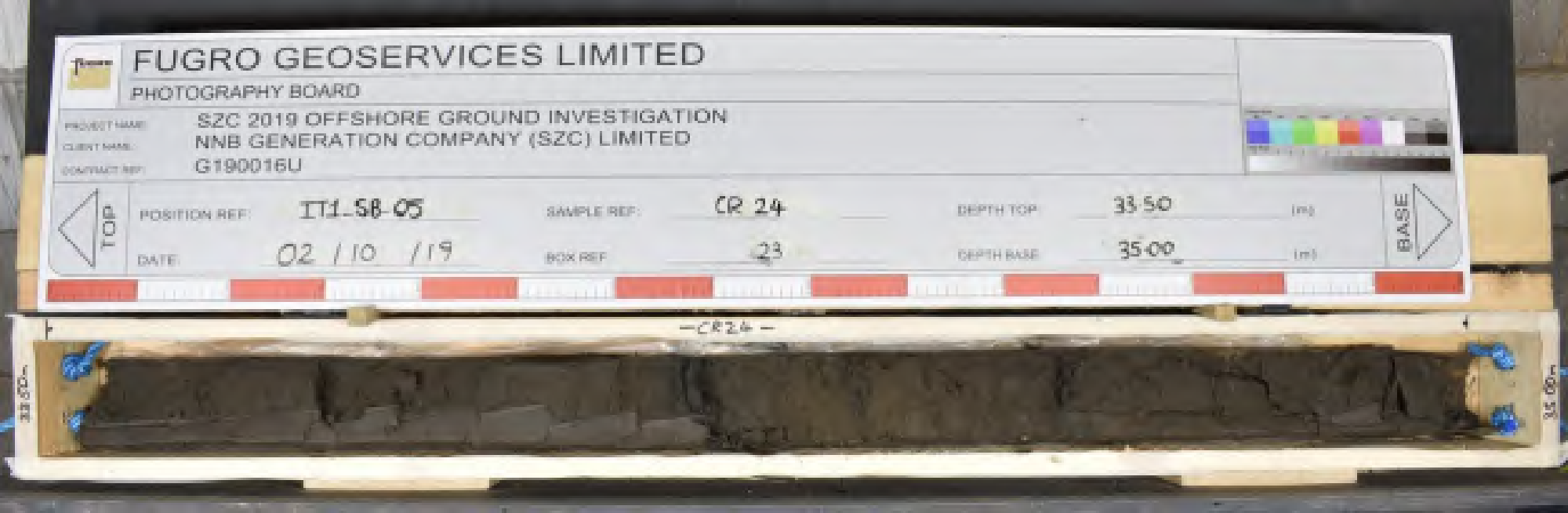

FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB-05
SAMPLE REF: CR 22
DEPTH TOP: 30.50 (m)
DATE: 01/10/19
BOX REF: 21
DEPTH BASE: 32.00 (m)
BASE
-CR22-
30.50m
32.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1.SB.05
SAMPLE REF: CR 22
DEPTH TOP: 30.50 (m)
DATE: 02 / 10 / 19
BOX REF: 21
DEPTH BASE: 32.00 (m)
BASE
-CR22-
30.50m
32.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB-05
SAMPLE REF: CR 23
DEPTH TOP: 32.00 (m)
DATE: 01/10/19
BOX REF: 22
DEPTH BASE: 33.50 (m)
BASE
- CR 23 -
32.00
33.50


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-58-05
SAMPLE REF: CR 23
DEPTH TOP: 32.00 (m)
DATE: 02 / 10 / 19
BOX REF: 22
DEPTH BASE: 33.50 (m)
BASE
- CR 23 -
32.00
33.50


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB-05
SAMPLE REF: CR 24
DEPTH TOP: 33.50 (m)
DATE: 01/10/19
BOX REF: 23
DEPTH BASE: 35.00 (m)
BASE
-CR24-
33.50m
35.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT NO: G190016U
TOP
POSITION REF: IT1_SB-05
DATE: 02 / 10 / 19
SAMPLE REF: CR 24
BOX REF: 23
DEPTH TOP: 33.50 (m)
DEPTH BASE: 35.00 (m)
BASE
CR24
33.50
35.00

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-05 SAMPLE REF: CR 25 DEPTH TOP: 35.00 (m)

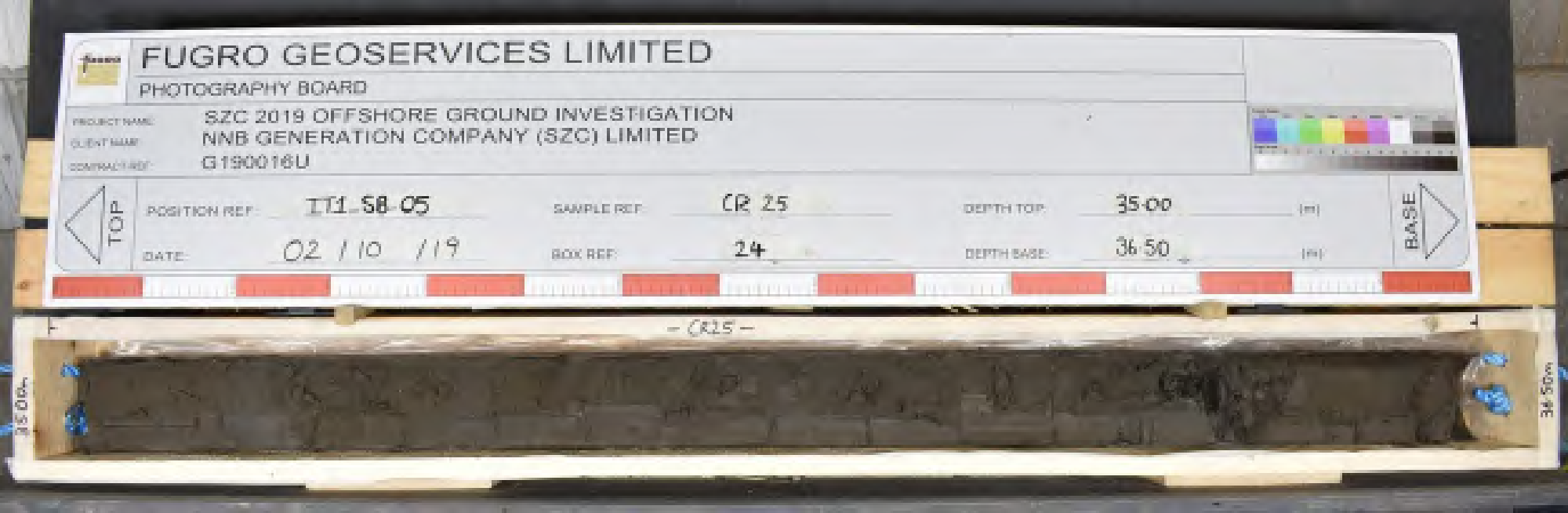
DATE: 01/10/19 BOX REF: 24 DEPTH BASE: 36.50 (m)

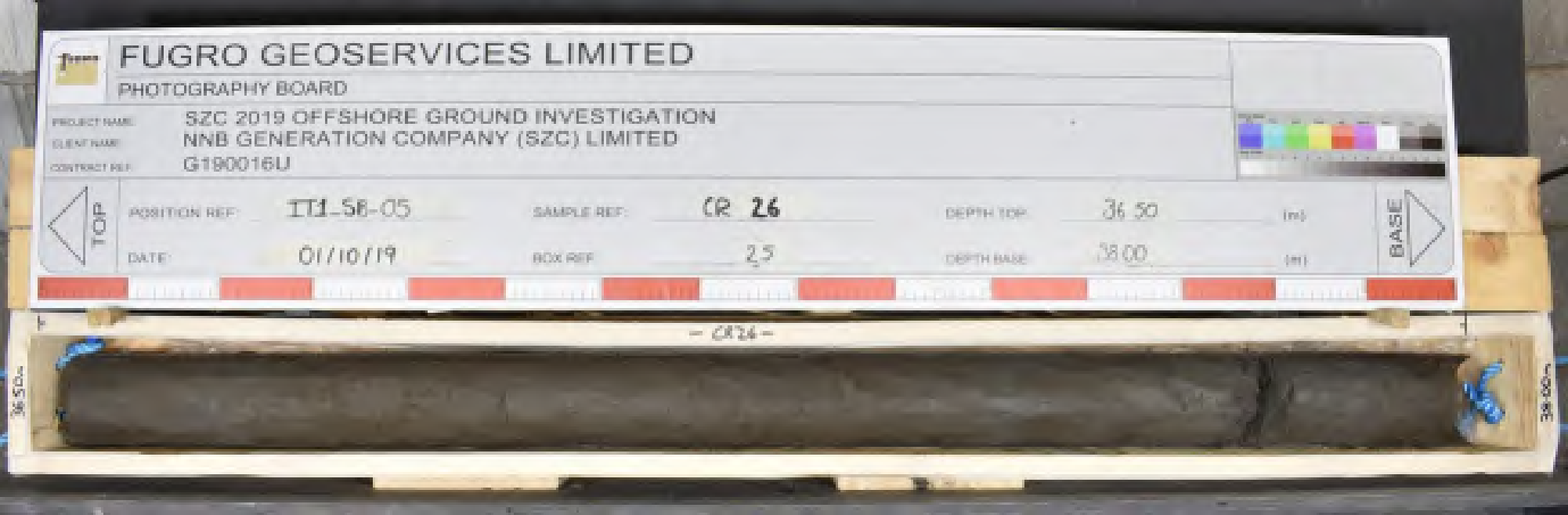
BASE

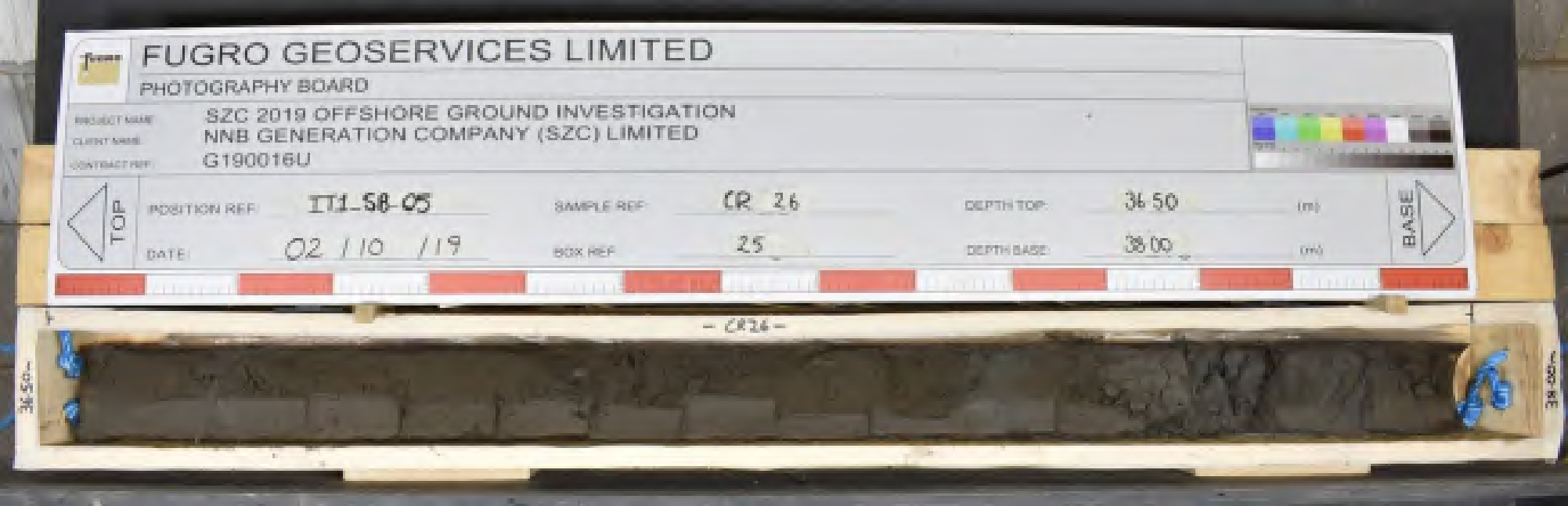
– CR25 –

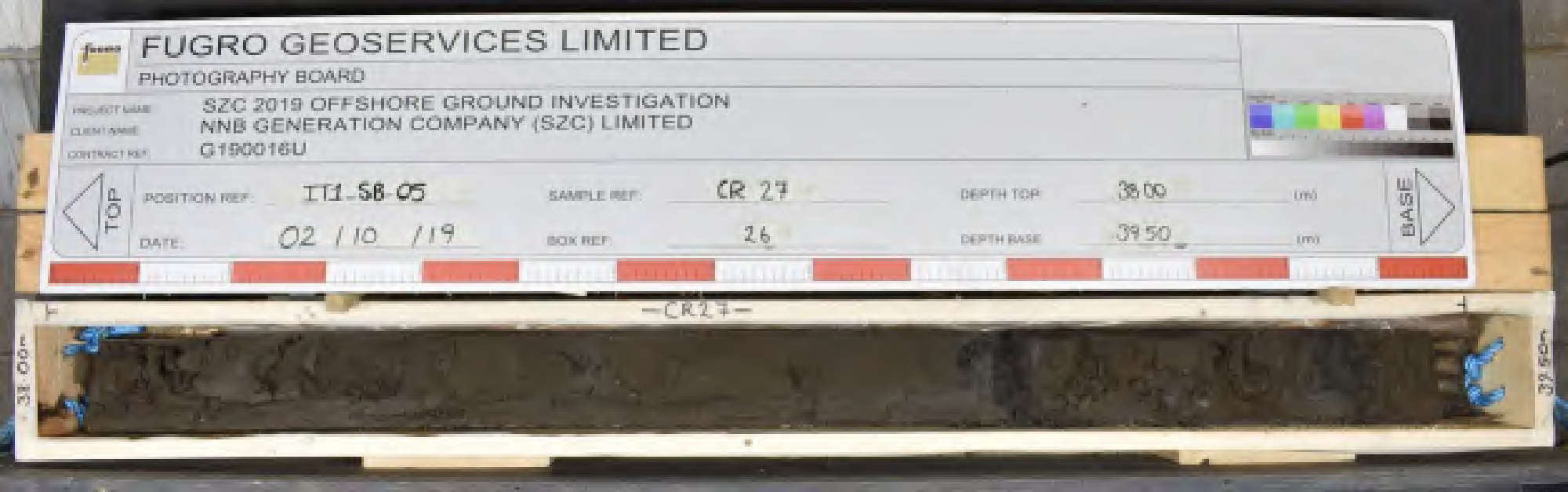
35.00m

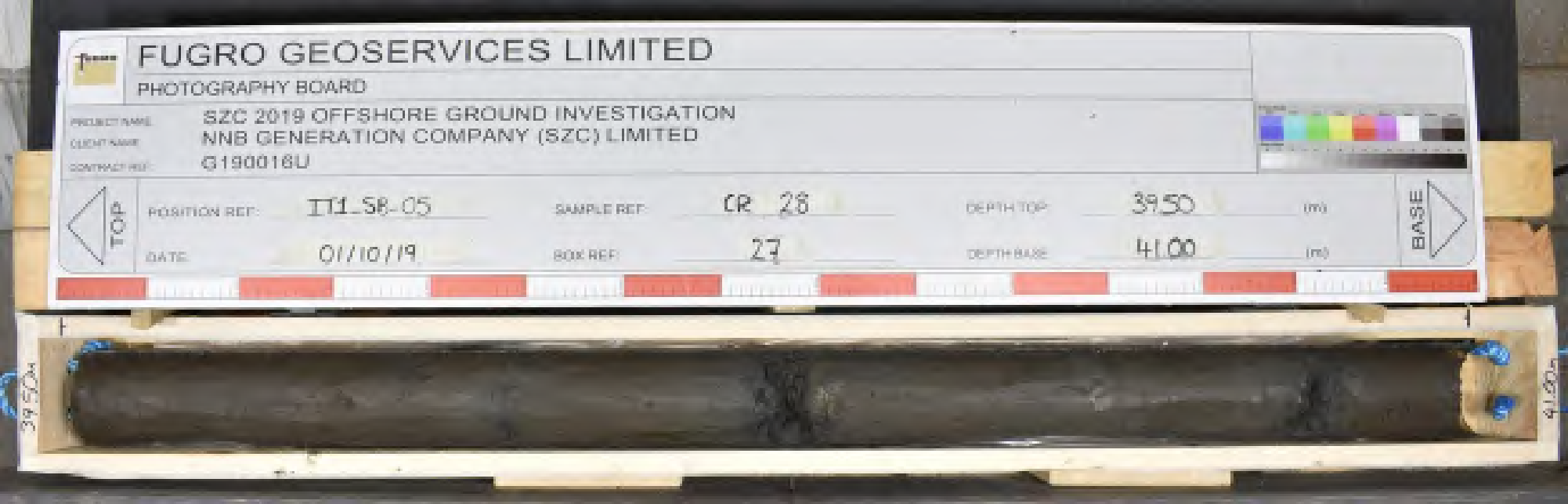
36.50m

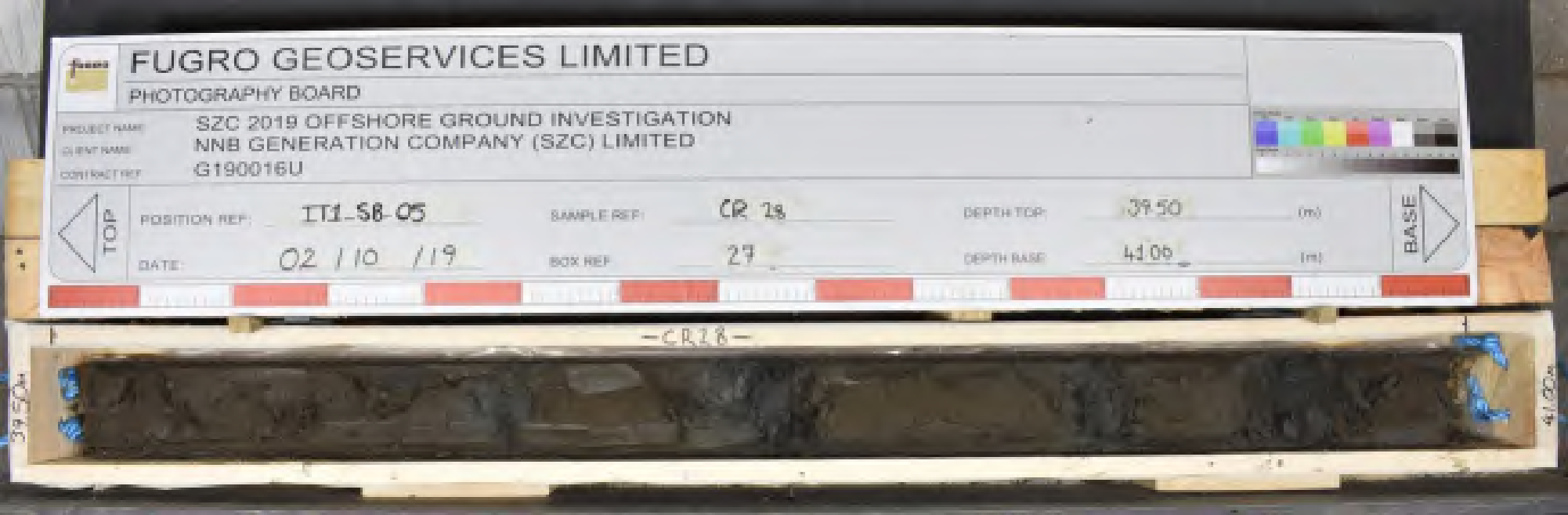

FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G1900016U
TOP
POSITION REF: TT1_58-05
SAMPLE REF: CR 25
DEPTH TOP: 35.00 (m)
DATE: 02 / 10 / 19
BOX REF: 24
DEPTH BASE: 36.50 (m)
BASE
– CR25 –
35.00m
36.50m

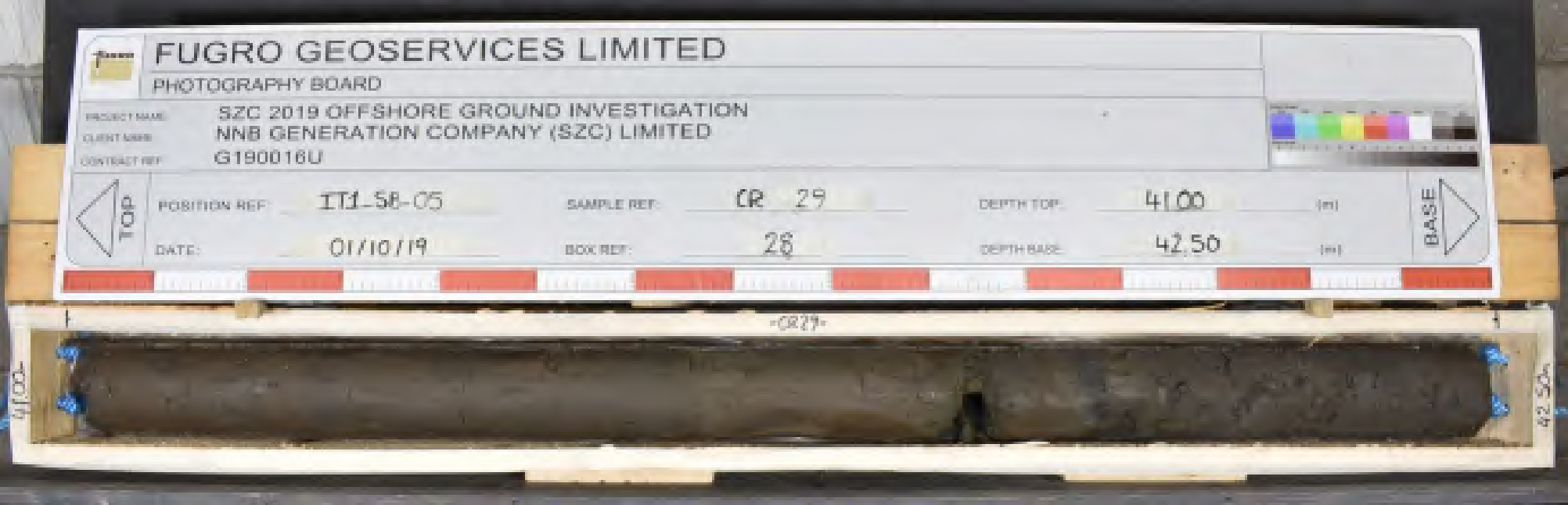

FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB-05
SAMPLE REF: CR 26
DEPTH TOP: 36.50 (m)
DATE: 01/10/19
BOX REF: 23
DEPTH BASE: 38.00 (m)
BASE
- CR26 -
36.50m
38.00m

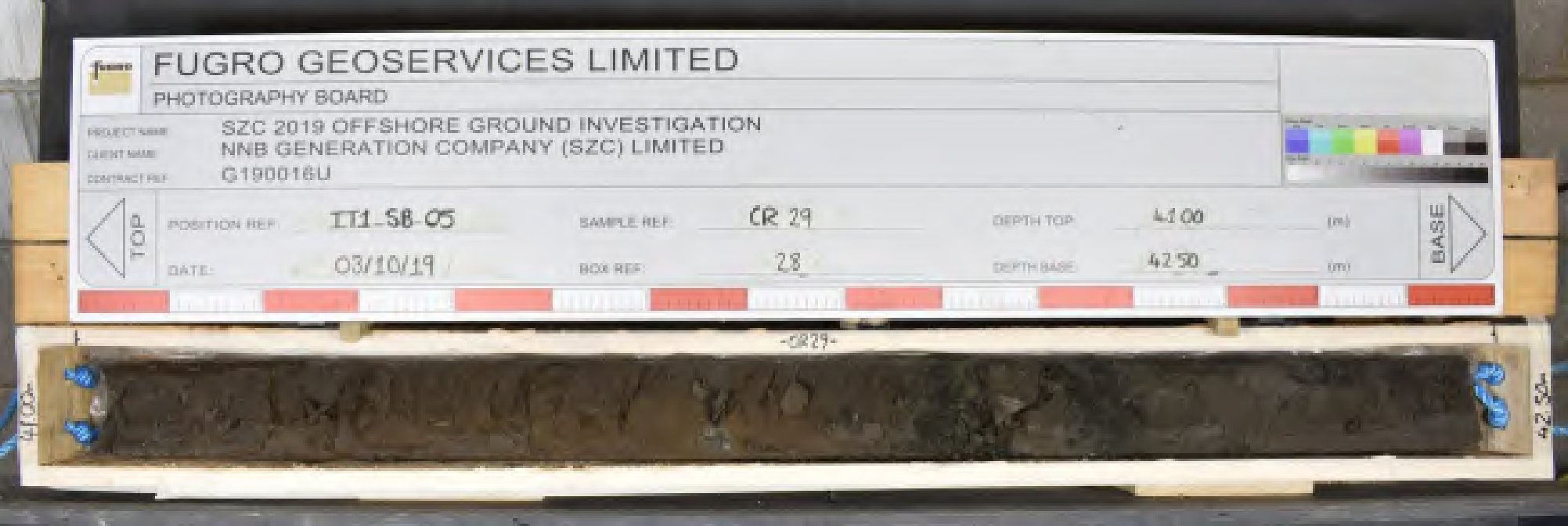

FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB-05
SAMPLE REF: CR 26
DEPTH TOP: 36.50 (m)
DATE: 02 / 10 / 19
BOX REF: 25
DEPTH BASE: 38.00 (m)
BASE
- CR26 -
36.50
38.00

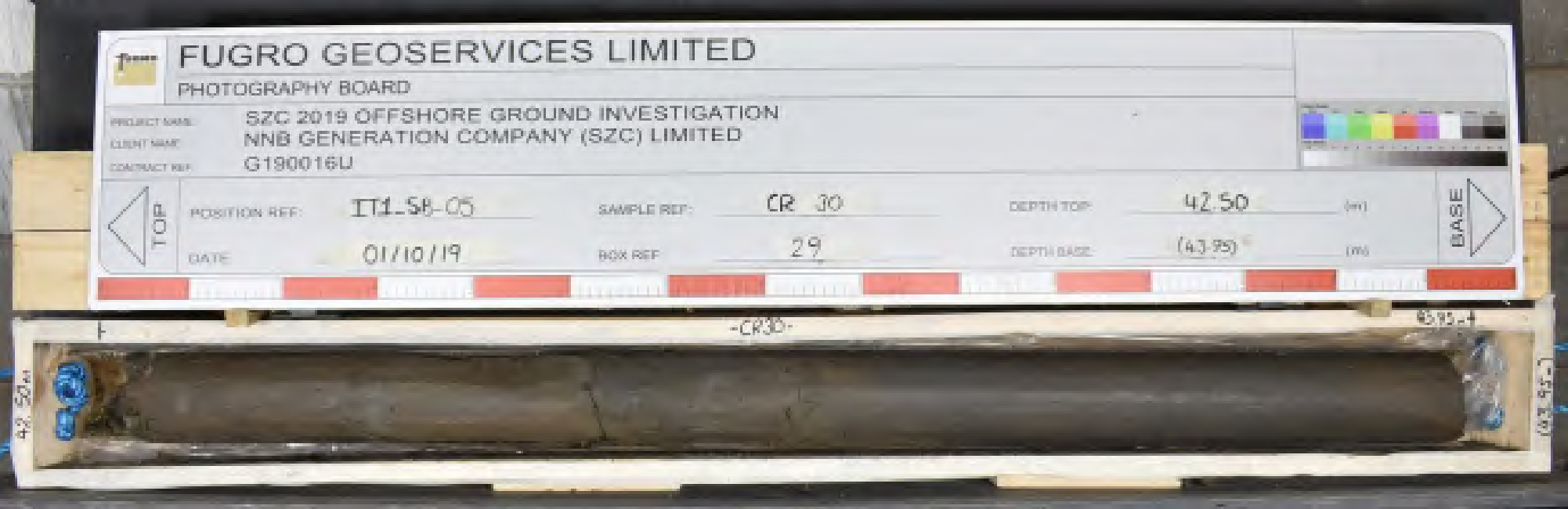

FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SB-05
DATE: 02 / 10 / 19
SAMPLE REF: CR 27
BOX REF: 26
DEPTH TOP: 38.00 (m)
DEPTH BASE: 39.50 (m)
BASE
-CR27-
38.00
39.50


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB-05
SAMPLE REF: CR 28
DEPTH TOP: 39.50 (m)
DATE: 01/10/19
BOX REF: 27
DEPTH BASE: 41.00 (m)
BASE
39.50m
41.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SB-05
DATE: 02/10/19
SAMPLE REF: CR 28
BOX REF: 27
DEPTH TOP: 39.50 (m)
DEPTH BASE: 41.06 (m)
BASE
-CR28-
39.50m
41.06m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SB-05
SAMPLE REF: CR 29
DEPTH TOP: 41.00 (m)
DATE: 01/10/19
BOX REF: 28
DEPTH BASE: 42.50 (m)
BASE
-CR29-
41.00
42.50


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: C190016U
TOP
POSITION REF: IT1_SB-05
SAMPLE REF: CR 29
DEPTH TOP: 41.00 (m)
DATE: 03/10/19
BOX REF: 28
DEPTH BASE: 42.50 (m)
BASE
-CR29-
41.00
42.50


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB-05
SAMPLE REF: CR 30
DEPTH TOP: 42.50 (m)
DATE: 01/10/19
BOX REF: 29
DEPTH BASE: (43.95) (m)
BASE
-CR30-
43.95-
42.50m
(43.95m)

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PHOTOGRAPHY BOARD

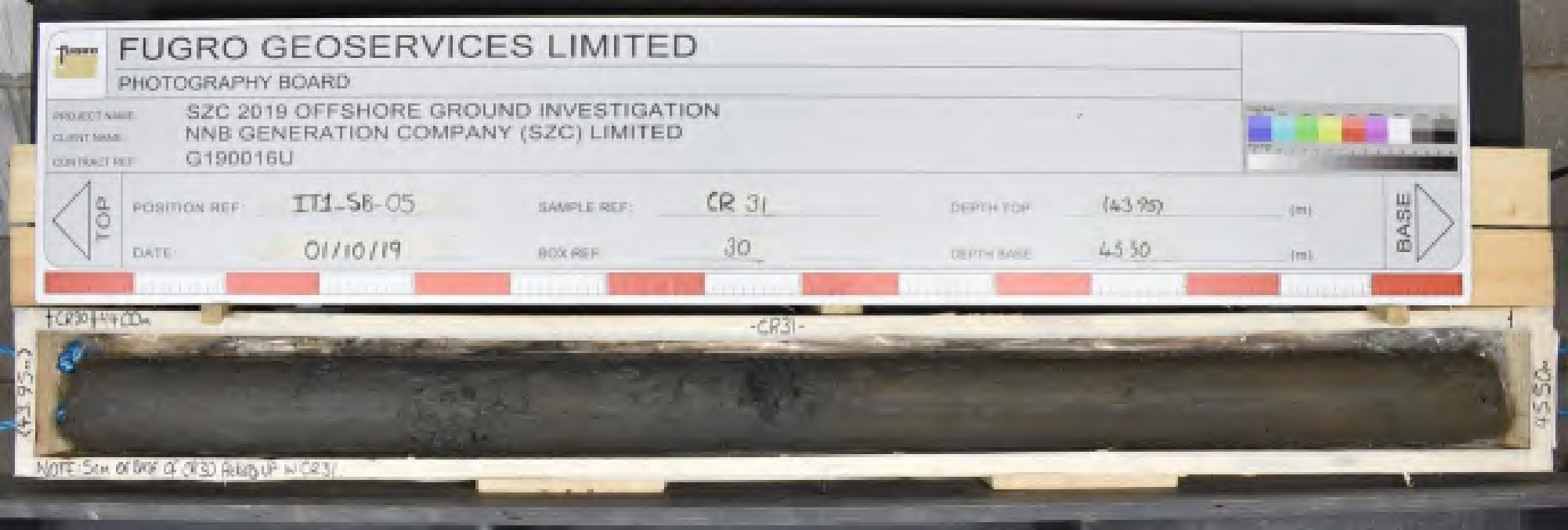
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB-05
SAMPLE REF: CR 30
DEPTH TOP: 42.50 (m)

DATE: 03/10/19
BOX REF: 29
DEPTH BASE: (43.95) (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SB-05
SAMPLE REF: CR 31
DEPTH TOP: (43.95) (m)
DATE: 01/10/19
BOX REF: 30
DEPTH BASE: 45.50 (m)
BASE
-CR31-
(43.95m)
45.50m
NOTE: 5cm of base of (43.50) rolled up in CR31.

FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_S8-05
SAMPLE REF: CR 31
DEPTH TOP: (43.95) (m)
DATE: 03/10/19
BOX REF: 30
DEPTH BASE: 45.50 (m)
BASE
-CR31-
(43.95m)
45.50m
NOTE: 5cm of base of (43.95) recovered in CR31

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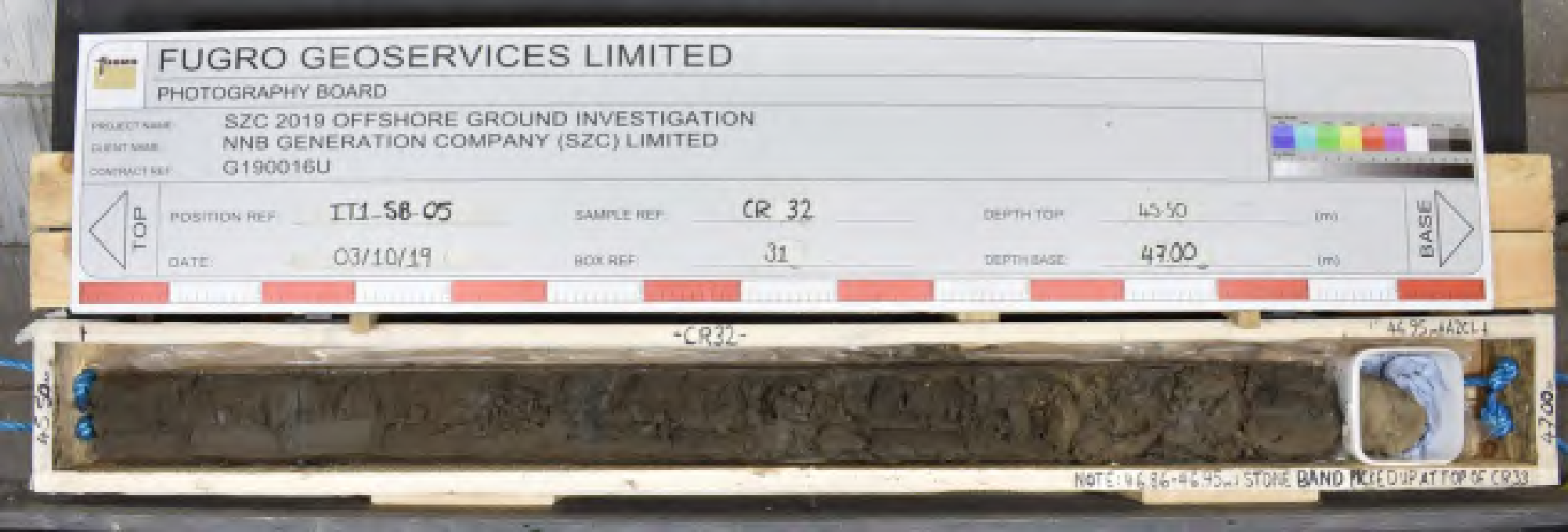
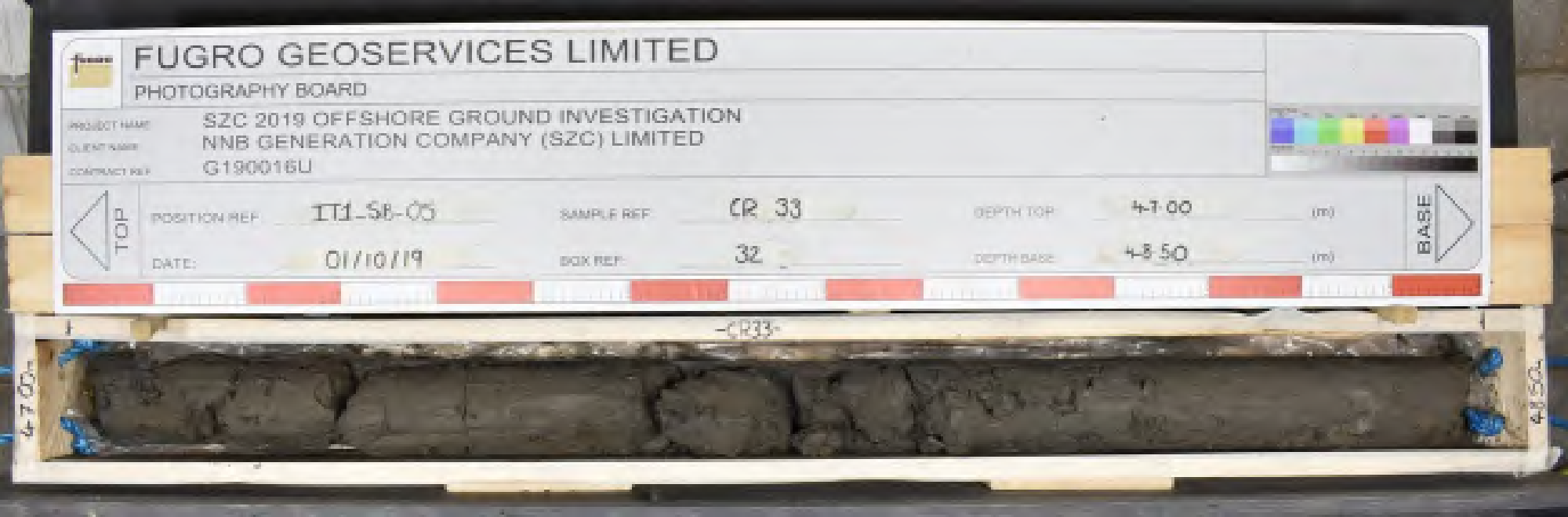
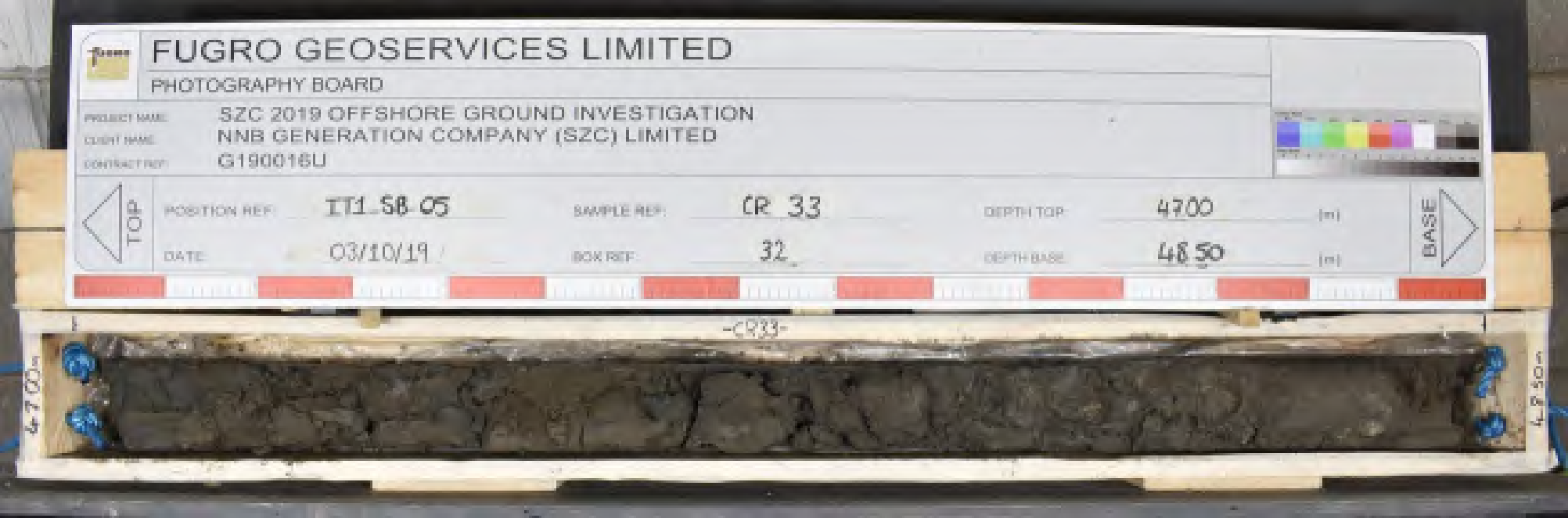
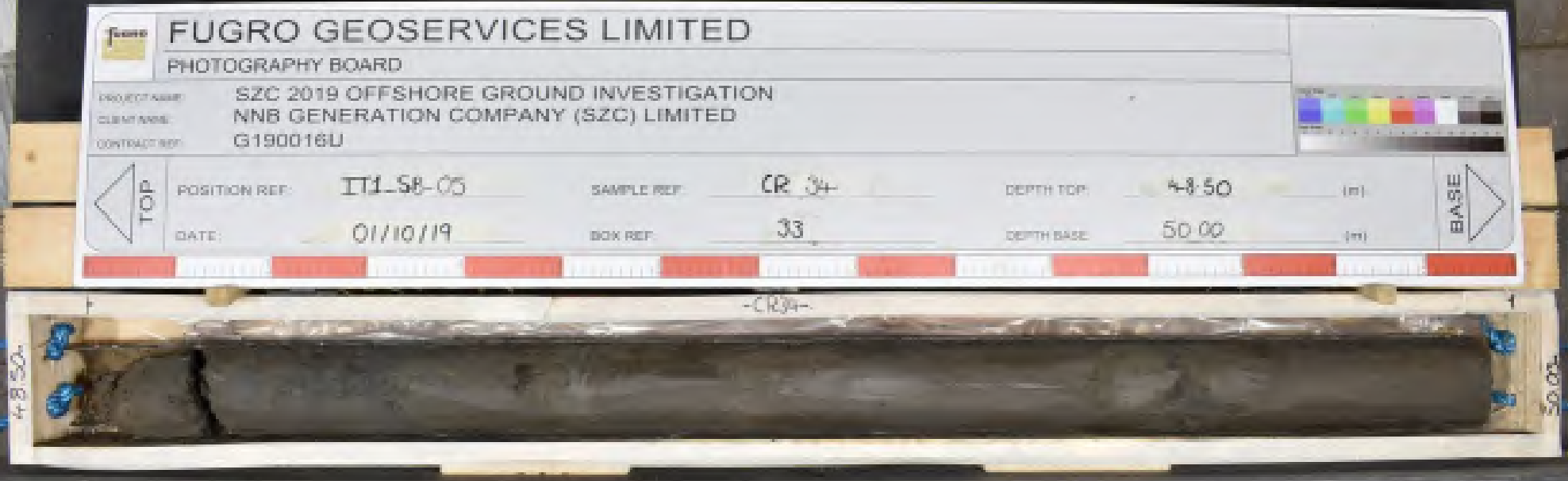
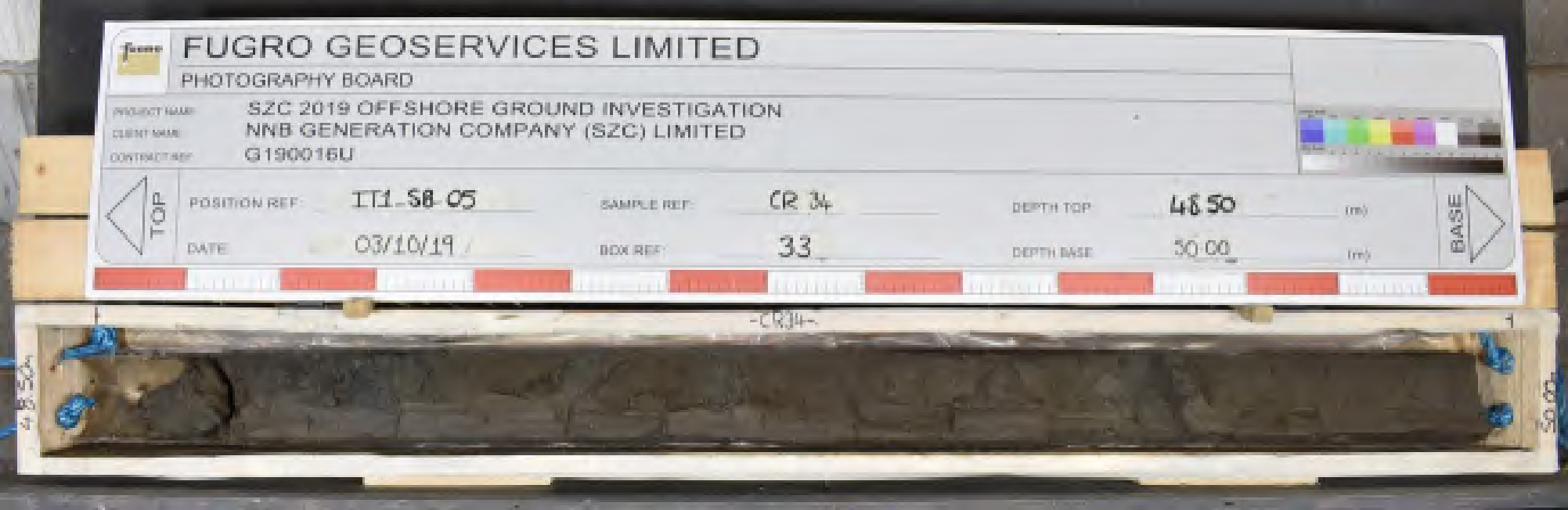
PHOTOGRAPHY BOARD
PROJECT NAME SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF G190016U
TOP
POSITION REF IT1_58-05
SAMPLE REF CR 32
DEPTH TOP 45.50 (m)
DATE 01/10/19
BOX REF 31
DEPTH BASE 47.00 (m)
BASE
-CR32-
46.95mAOD-1
45.50m
47.00m
NOTE: 46.86-46.95m STONE NODULE PICKED UP AT TOP OF CR33


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SB-05
SAMPLE REF: CR 32
DEPTH TOP: 45.50 (m)
DATE: 03/10/19
BOX REF: 31
DEPTH BASE: 47.00 (m)
BASE
-CR32-
45.50
47.00
NOTE: 46.86-46.95 STONE BAND PIECE DUP AT TOP OF CR33

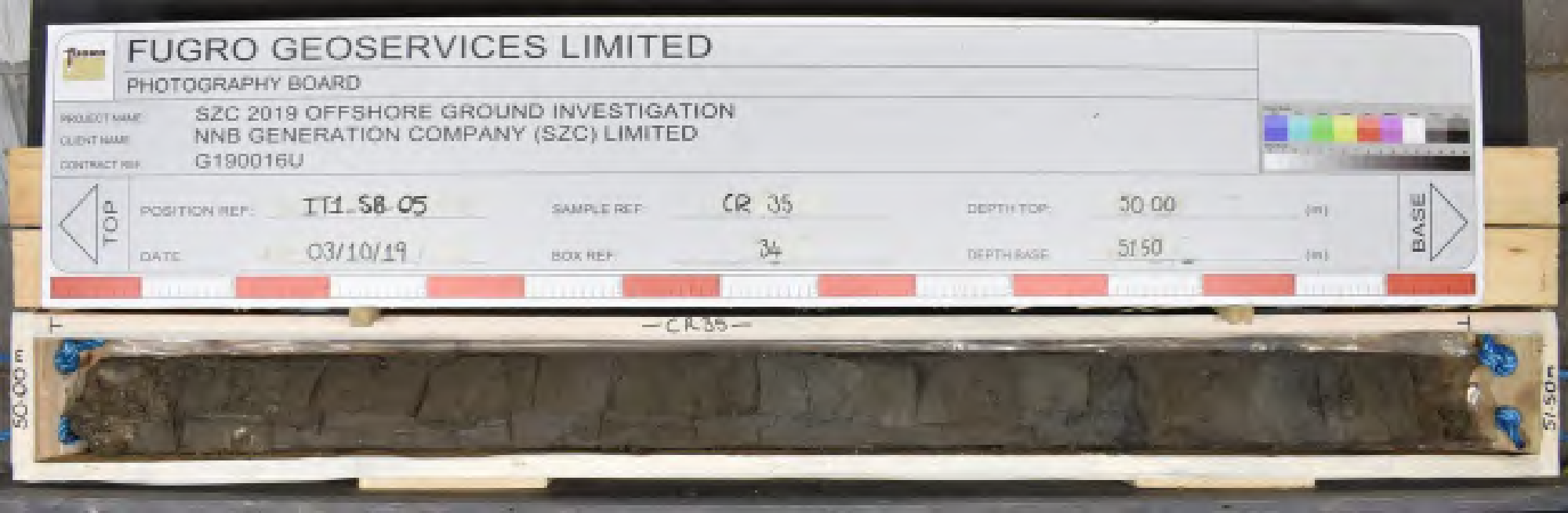

FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB-05
SAMPLE REF: CR 33
DEPTH TOP: 4-7.00 (m)
DATE: 01/10/19
BOX REF: 32
DEPTH BASE: 4-8.50 (m)
BASE
-CR33-
4.70m
4.85m

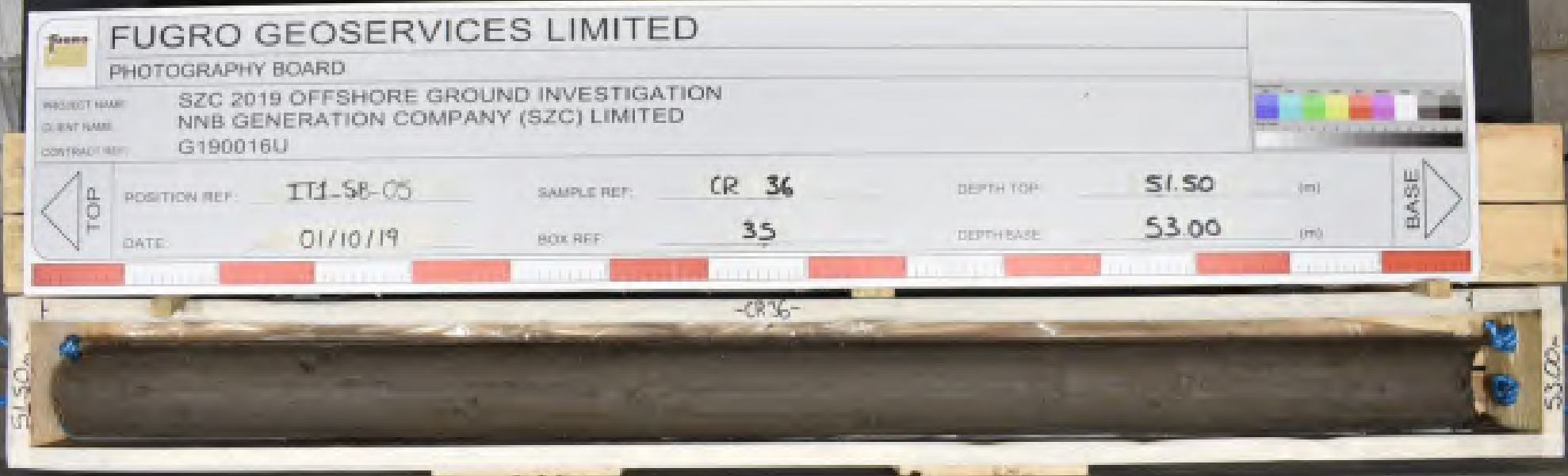

FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB-05
SAMPLE REF: CR 33
DEPTH TOP: 47.00 (m)
DATE: 03/10/19
BOX REF: 32
DEPTH BASE: 48.50 (m)
BASE
-CR33-
47.00m
48.50m

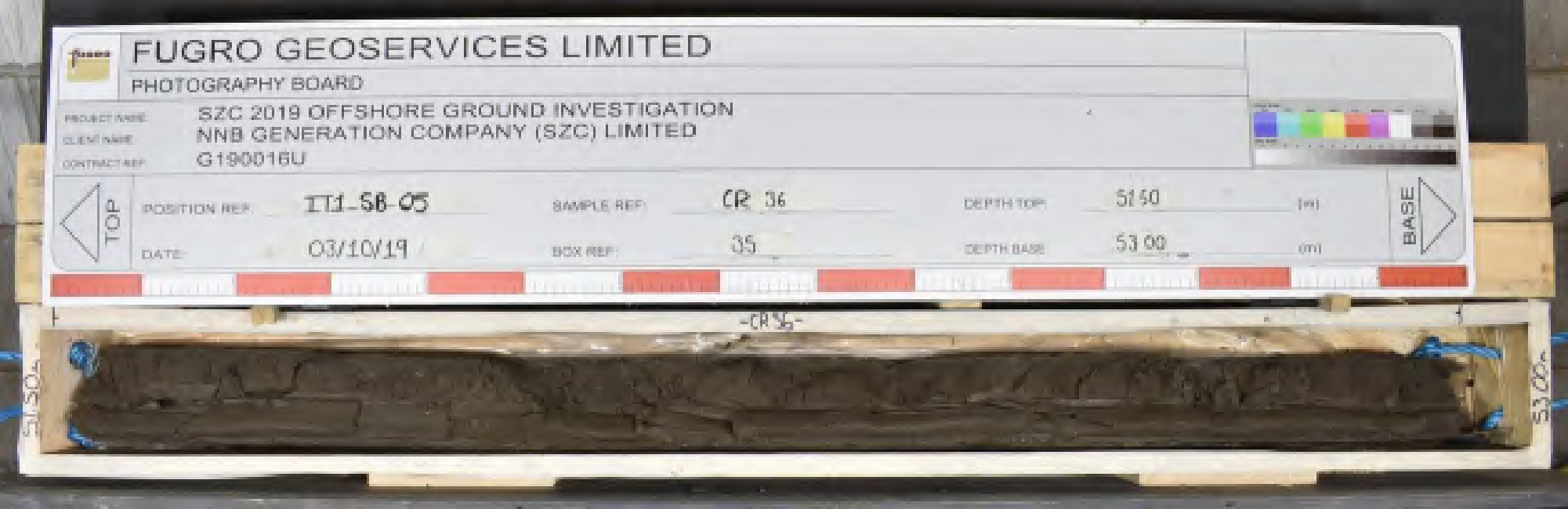

FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB-05
SAMPLE REF: CR 34
DEPTH TOP: 48.50 (m)
DATE: 01/10/19
BOX REF: 33
DEPTH BASE: 50.00 (m)
BASE
-CR34-
48.50
50.00

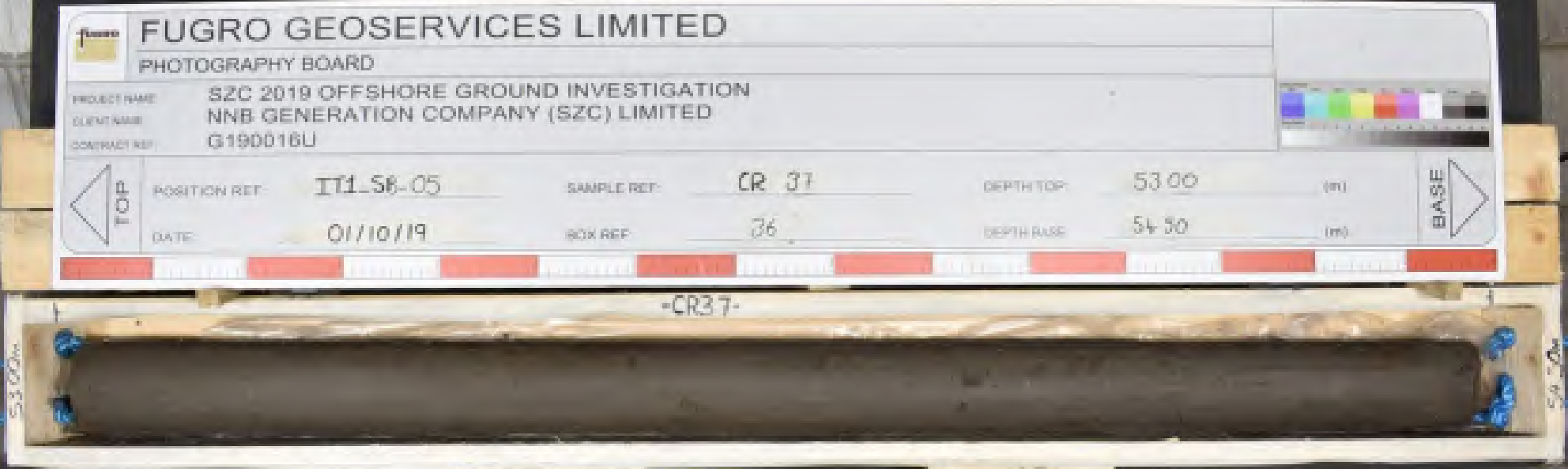

FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_S8_05
SAMPLE REF: CR 34
DEPTH TOP: 48.50 (m)
DATE: 03/10/19
BOX REF: 33
DEPTH BASE: 50.00 (m)
BASE
-CR34-
48.50
50.00

FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB-05
SAMPLE REF: CR 35
DEPTH TOP: 50.00 (m)
DATE: 01/10/19
BOX REF: 34
DEPTH BASE: 51.50 (m)
BASE
CR35
50.00 m
51.50 m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB_05
SAMPLE REF: CR 35
DEPTH TOP: 50.00 (m)
DATE: 03/10/19
BOX REF: 34
DEPTH BASE: 51.50 (m)
BASE
T
CR 35
T
50.00 m
51.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SB-05
SAMPLE REF: CR 36
DEPTH TOP: 51.50 (m)
DATE: 01/10/19
BOX REF: 35
DEPTH BASE: 53.00 (m)
BASE
-CR36-
51.50
53.00


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SB-05
SAMPLE REF: CR 36
DEPTH TOP: 5150 (m)
DATE: 03/10/19
BOX REF: 35
DEPTH BASE: 5300 (m)
BASE
-CR36-
5150
5300


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB-05
SAMPLE REF: CR 37
DEPTH TOP: 53.00 (m)
DATE: 01/10/19
BOX REF: 36
DEPTH BASE: 54.50 (m)
BASE
-CR37-
53.00m
54.50m

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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SB-05
SAMPLE REF: CR 37
DEPTH TOP: 53.00 (m)
DATE: 03/10/19
BOX REF: 36
DEPTH BASE: 54.50 (m)
BASE
-CR37-
53.00m
54.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

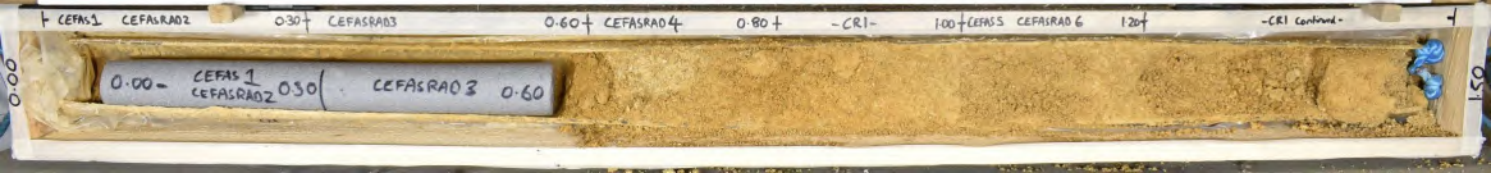
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06 SAMPLE REF: CR 1 DEPTH TOP: 0.00 (m)

DATE: 07/08/19 BOX REF: Box 1 DEPTH BASE: 1.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06 SAMPLE REF: CR 2 DEPTH TOP: 1.50 (m)

DATE: 07/08/19 BOX REF: Box 2 DEPTH BASE: 3.00 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06 SAMPLE REF: CR 3 DEPTH TOP: 3.00 (m)

DATE: 07/08/19 BOX REF: Box 3 DEPTH BASE: 4.50 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06 SAMPLE REF: CR 4 DEPTH TOP: 4.50 (m)

DATE: 07/08/19 BOX REF: Box 4 DEPTH BASE: 6.00 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06 SAMPLE REF: CR 5 DEPTH TOP: 6.00 (m)

DATE: 07/08/19 BOX REF: Box 5 DEPTH BASE: 7.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06
SAMPLE REF: CR 6+7
DEPTH TOP: 7.50 (m)
DATE: 07/08/19
BOX REF: Box 6
DEPTH BASE: 9.50 (m)

BASE

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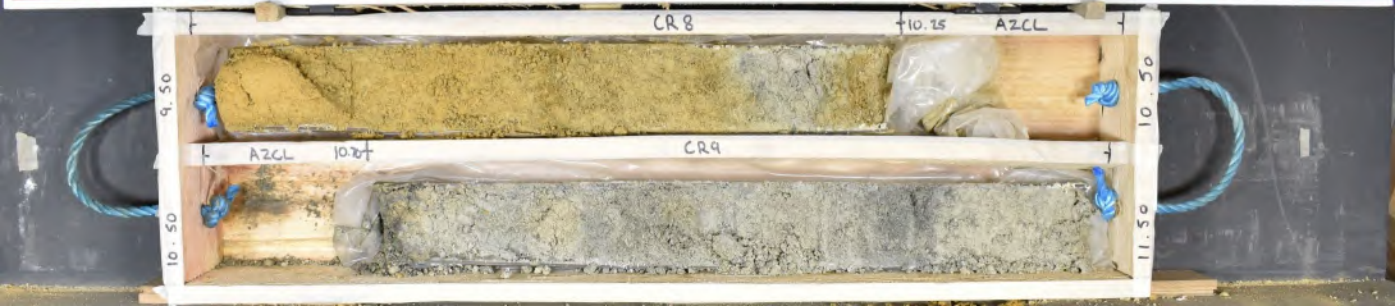
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06
SAMPLE REF: CR 8+9
DEPTH TOP: 9.50 (m)
DATE: 07/08/19
BOX REF: Box 7
DEPTH BASE: 11.50 (m)

BASE



FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

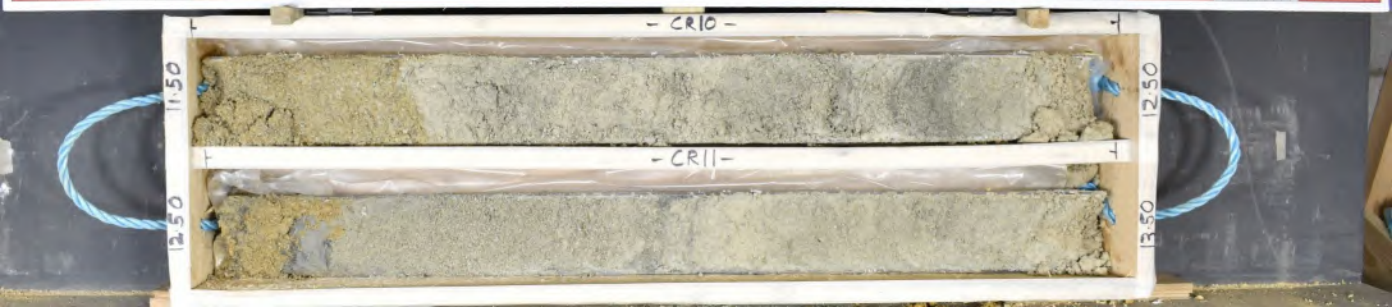
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06
SAMPLE REF: CR 10+11
DEPTH TOP: 11.50 (m)

DATE: 07/08/19
BOX REF: Box 8
DEPTH BASE: 13.50 (m)

BASE



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PHOTOGRAPHY BOARD

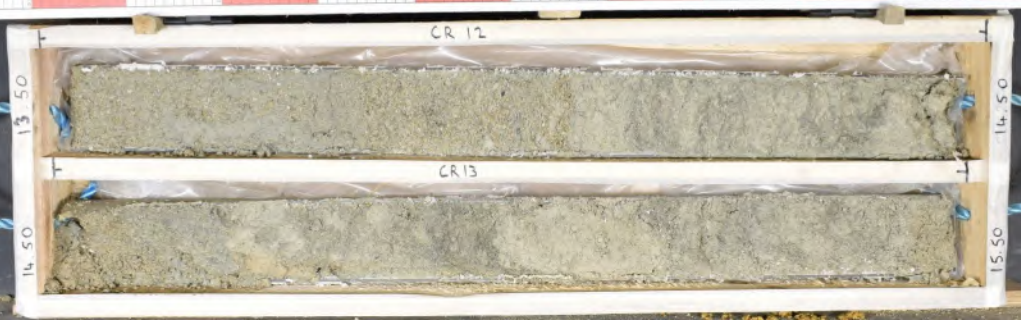
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06
SAMPLE REF: CR 12+13
DEPTH TOP: 13.50 (m)

DATE: 07/08/19
BOX REF: Box 9
DEPTH BASE: 15.50 (m)

BASE



FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06 SAMPLE REF: CR 14+15 DEPTH TOP: 15.50 (m)

DATE: 07/08/19 BOX REF: Box 10 DEPTH BASE: 17.50 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06
SAMPLE REF: CR 16+17
DEPTH TOP: 17.50 (m)

DATE: 07/08/19
BOX REF: Box 11
DEPTH BASE: 19.50 (m)

BASE

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PHOTOGRAPHY BOARD

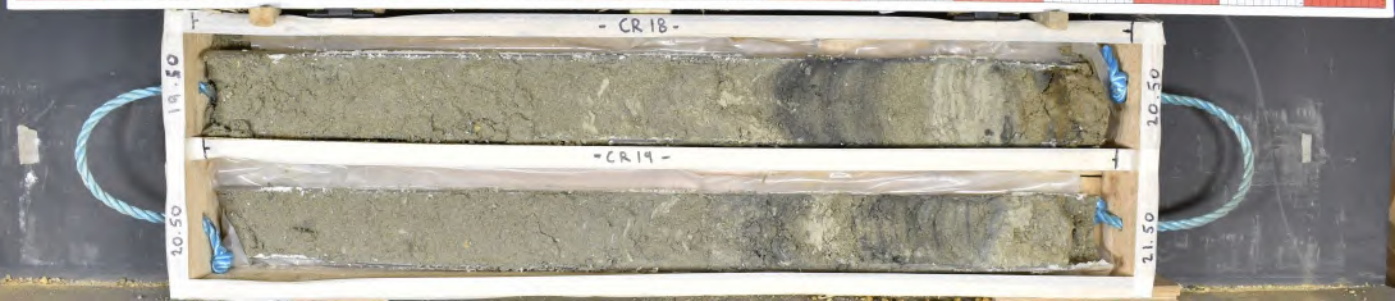
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06
SAMPLE REF: CR 18+19
DEPTH TOP: 19.50 (m)

DATE: 07/08/19
BOX REF: Box 12
DEPTH BASE: 21.50 (m)

BASE



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PHOTOGRAPHY BOARD

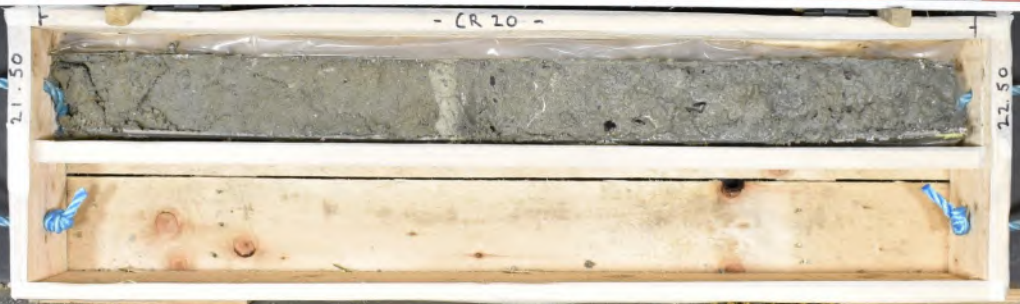
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06 SAMPLE REF: CR 20 DEPTH TOP: 21.50 (m)

DATE: 07/08/19 BOX REF: Box 13 DEPTH BASE: 22.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06
SAMPLE REF: CR 21
DEPTH TOP: 22.50 (m)
DATE: 08/ 08 /19
BOX REF: BOX 14
DEPTH BASE: 24.00 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

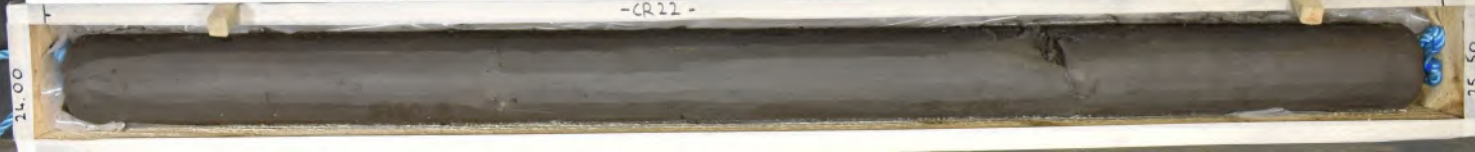
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06
SAMPLE REF: CR 22
DEPTH TOP: 24.00 (m)

DATE: 08/ 08 /19
BOX REF: BOX 15
DEPTH BASE: 25.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06
SAMPLE REF: CR 23
DEPTH TOP: 25.50 (m)
DATE: 08/ 08 /19
BOX REF: BOX 16
DEPTH BASE: 27.00 (m)

BASE

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PHOTOGRAPHY BOARD

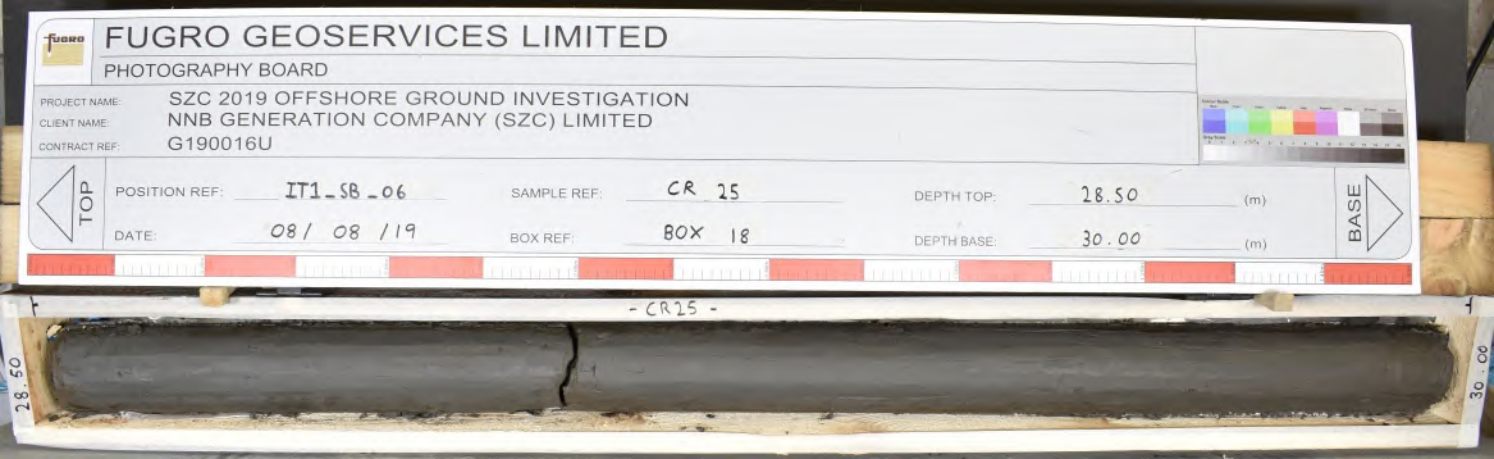
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06 SAMPLE REF: CR 24 DEPTH TOP: 27.00 (m)

DATE: 08/ 08 /19 BOX REF: BOX 17 DEPTH BASE: 28.50 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB_06
SAMPLE REF: CR 25
DEPTH TOP: 28.50 (m)
DATE: 08/ 08 /19
BOX REF: BOX 18
DEPTH BASE: 30.00 (m)
BASE
- CR25 -
28.50
30.00

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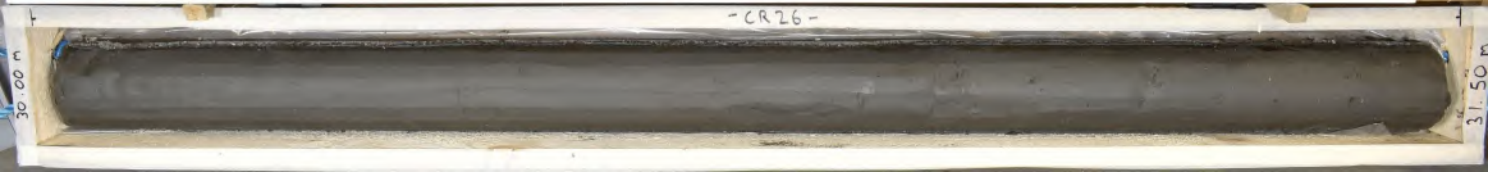
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06
SAMPLE REF: CR 26
DEPTH TOP: 30.00 (m)
DATE: 08/08/19
BOX REF: BOX 19
DEPTH BASE: 31.50 (m)

BASE



FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06
SAMPLE REF: CR 27
DEPTH TOP: 31.50 (m)
DATE: 08/08/19
BOX REF: BOX 20
DEPTH BASE: 33.00 (m)

BASE

- CR27-

31.50m

33.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06 SAMPLE REF: CR 28 DEPTH TOP: 33.00 (m)

DATE: 08/08/19 BOX REF: BOX 21 DEPTH BASE: 34.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06
SAMPLE REF: CR 29
DEPTH TOP: 34.50 (m)
DATE: 08/08/19
BOX REF: BOX 22
DEPTH BASE: 36.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06
DATE: 08/08/19
SAMPLE REF: CR 30
BOX REF: BOX 23
DEPTH TOP: 36.00 (m)
DEPTH BASE: 37.50 (m)

BASE

-CR 30-

36.00m

37.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06

DATE: 08/08/19

SAMPLE REF: CR 31

BOX REF: BOX 24

DEPTH TOP: 37.50 (m)

DEPTH BASE: 39.00 (m)

BASE

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PHOTOGRAPHY BOARD

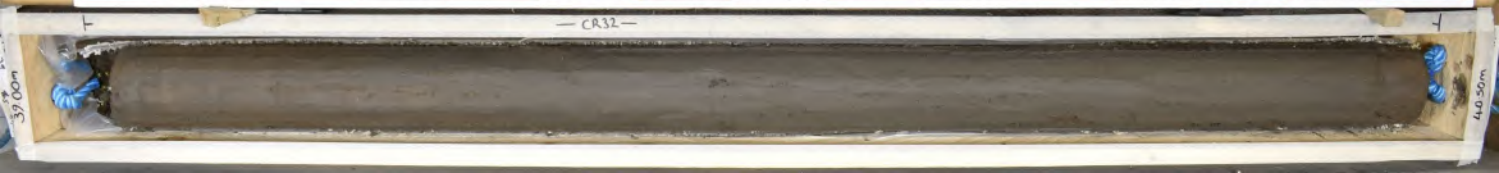
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06
SAMPLE REF: CR 32
DEPTH TOP: 39.00 (m)

DATE: 08/08/19
BOX REF: BOX 25
DEPTH BASE: 40.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06
SAMPLE REF: CR 33
DEPTH TOP: 40.50 (m)

DATE: 08/ 08 /19
BOX REF: BOX 26
DEPTH BASE: 42.00 (m)

BASE

- CR 33 -

40.50

42.00

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

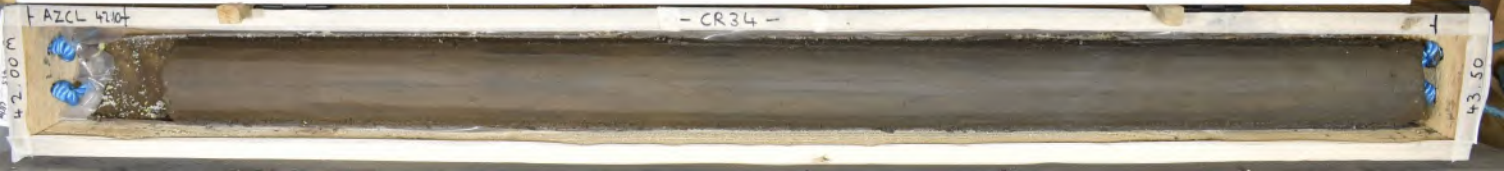
CONTRACT REF: G190016U

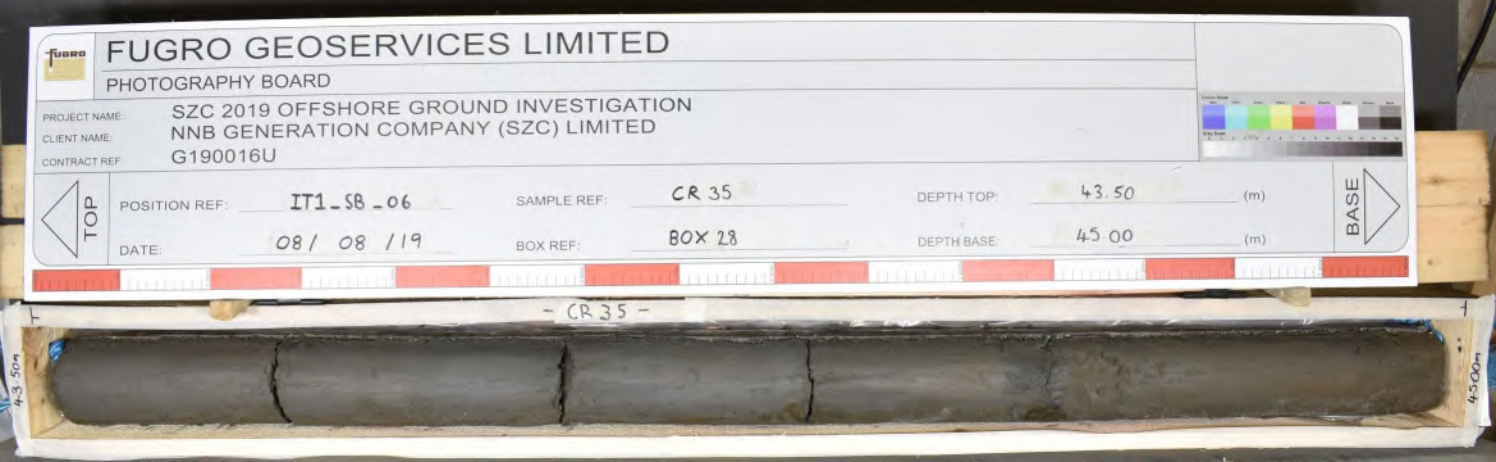
TOP

POSITION REF: IT1_SB_06 SAMPLE REF: CR 34 DEPTH TOP: 42.00 (m)

DATE: 08/08/19 BOX REF: BOX 27 DEPTH BASE: 43.50 (m)

BASE




FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB_06
SAMPLE REF: CR 35
DEPTH TOP: 43.50 (m)
DATE: 08/ 08 /19
BOX REF: BOX 28
DEPTH BASE: 45 00 (m)
BASE
- CR 35 -
43.50m
45.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06
SAMPLE REF: CR 36
DEPTH TOP: 45.00m (m)

DATE: 08/08/19
BOX REF: BOX 29
DEPTH BASE: 46.50m (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06
SAMPLE REF: CR 37
DEPTH TOP: 46.50 (m)

DATE: 08/08/19
BOX REF: BOX 30
DEPTH BASE: 48.00 (m)

BASE

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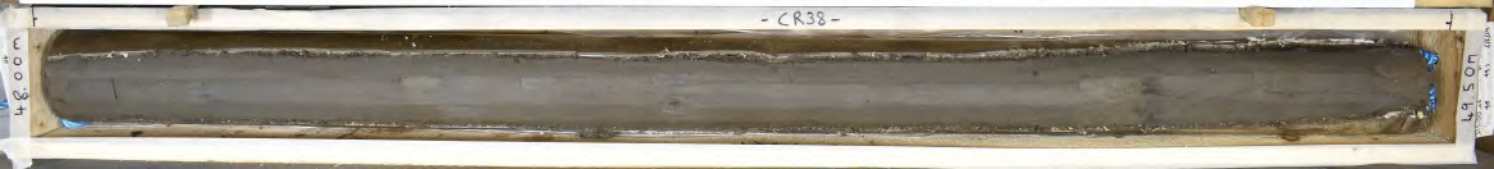
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06
DATE: 08/08/19
SAMPLE REF: CR 38
BOX REF: BOX 31
DEPTH TOP: 48.00 (m)
DEPTH BASE: 49.50 (m)

BASE



FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

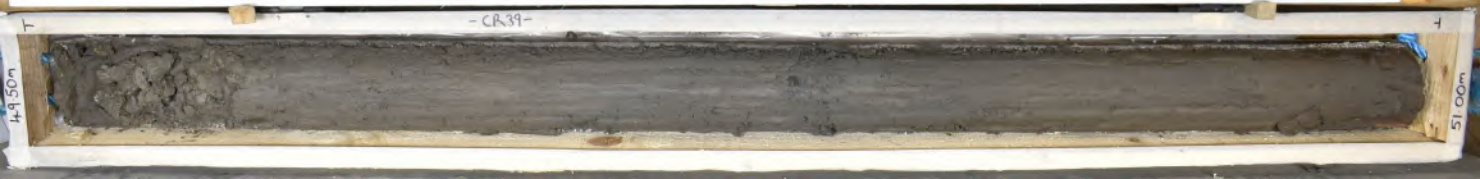
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06
SAMPLE REF: CR39
DEPTH TOP: 49.50 (m)

DATE: 08/08/19
BOX REF: BOX 32
DEPTH BASE: 51.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06 SAMPLE REF: CR 40 DEPTH TOP: 51.00 (m)

DATE: 08/08/19 BOX REF: BOX 33 DEPTH BASE: 52.50 (m)

BASE

- CR 40 -

51.00 m

52.50 m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_06
DATE: 08/08/19
SAMPLE REF: CR 41
BOX REF: BOX 34
DEPTH TOP: 52.50 (m)
DEPTH BASE: 54.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07 SAMPLE REF: CR 1 DEPTH TOP: 0.00 (m)

DATE: 29 / 07 / 19 BOX REF: Box 1 DEPTH BASE: 1.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07
SAMPLE REF: CR 2
DEPTH TOP: 1.50 (m)

DATE: 29 / 07 / 19
BOX REF: Box 2
DEPTH BASE: 3.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07 SAMPLE REF: CR 3 DEPTH TOP: 3.00 (m)

DATE: 29 / 07 / 19 BOX REF: Box 3 DEPTH BASE: 4.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07 SAMPLE REF: CR 4 DEPTH TOP: 4.50 (m)

DATE: 29 / 07 / 19 BOX REF: Box 4 DEPTH BASE: 6.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07
DATE: 29 / 07 / 19
SAMPLE REF: CR 5+6
BOX REF: Box 5
DEPTH TOP: 6.00 (m)
DEPTH BASE: 7.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07 SAMPLE REF: CR 7+8 DEPTH TOP: 7.50 (m)

DATE: 05 / 08 / 19 BOX REF: Box 6 DEPTH BASE: 9.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07
SAMPLE REF: CR 9+10
DEPTH TOP: 9.50 (m)

DATE: 05 / 08 / 19
BOX REF: Box 7
DEPTH BASE: 11.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07
DATE: 05 / 08 / 19
SAMPLE REF: CR 11+12
BOX REF: Box 8
DEPTH TOP: 11.50 (m)
DEPTH BASE: 13.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07
SAMPLE REF: CR 13
DEPTH TOP: 13.50 (m)

DATE: 01 / 08 /2019
BOX REF: Box 9
DEPTH BASE: 14.50 (m)

BASE

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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB_07
SAMPLE REF: CR 14+15
DEPTH TOP: 14.50 (m)
DATE: 01 / 08 /2019
BOX REF: Box 10
DEPTH BASE: 16.50 (m)
BASE
-CR14-
-CR15-
14.50m
15.50m
15.50m
16.50m

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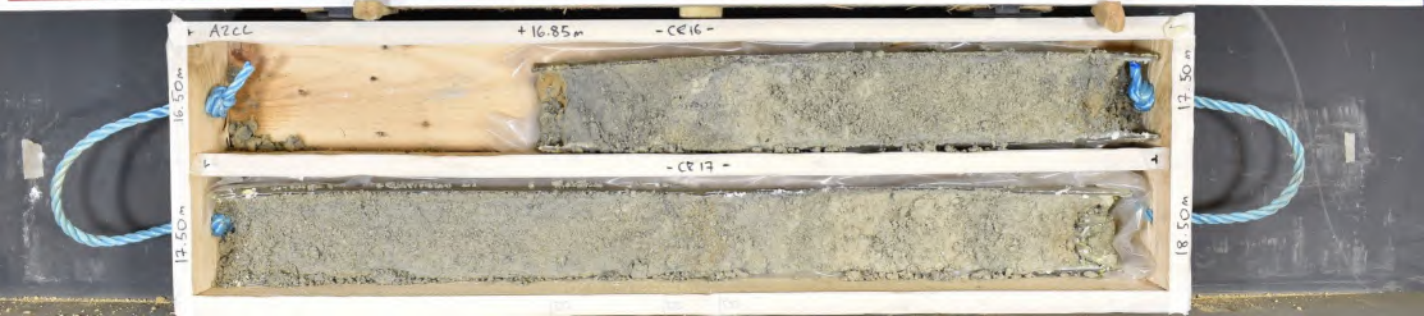
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07
SAMPLE REF: CR 16+17
DEPTH TOP: 16.50 (m)
DATE: 01 / 08 /2019
BOX REF: Box 11
DEPTH BASE: 18.50 (m)

BASE



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PHOTOGRAPHY BOARD

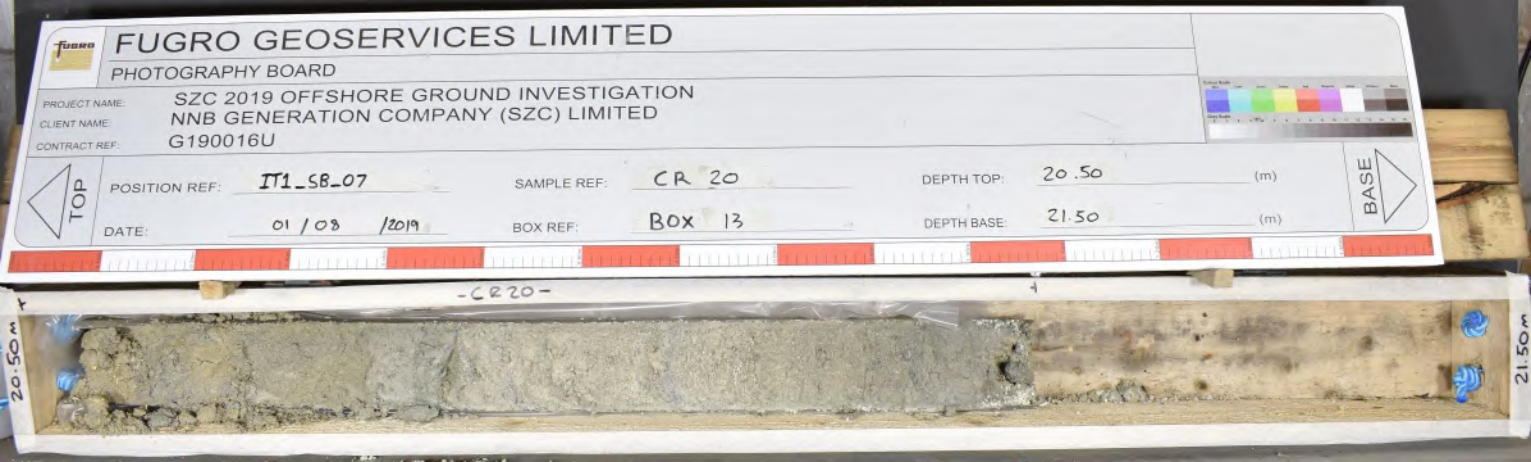
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07 SAMPLE REF: CR 18+19 DEPTH TOP: 18.50 (m)

DATE: 01 / 08 /2019 BOX REF: Box 12 DEPTH BASE: 20.50 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB_07
SAMPLE REF: CR 20
DEPTH TOP: 20.50 (m)
DATE: 01 / 08 /2019
BOX REF: Box 13
DEPTH BASE: 21.50 (m)
BASE
-CR20-
20.50m
21.50m

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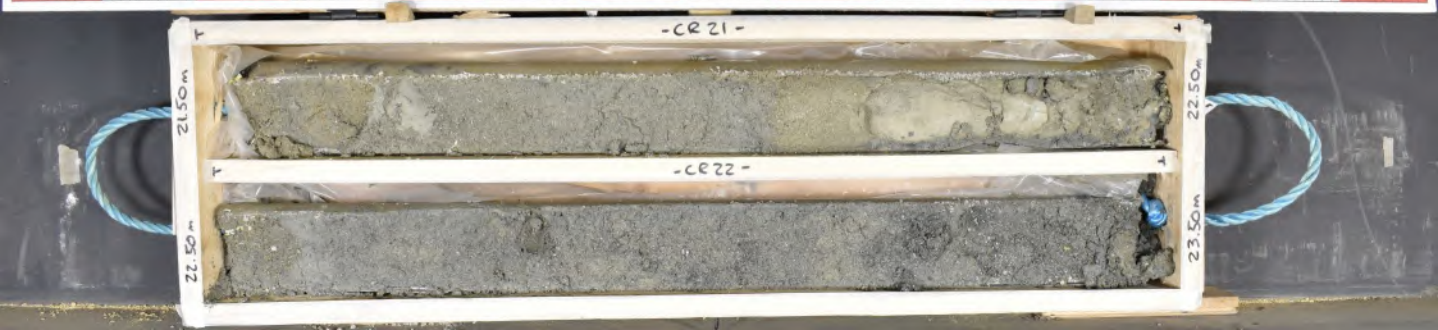
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07 SAMPLE REF: CR 21+22 DEPTH TOP: 21.50 (m)

DATE: 01 / 08 /2019 BOX REF: Box 14 DEPTH BASE: 23.50 (m)

BASE



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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07
DATE: 01 / 08 /2019
SAMPLE REF: CR 23+24
BOX REF: Box 15
DEPTH TOP: 23.50 (m)
DEPTH BASE: 25.50 (m)

BASE

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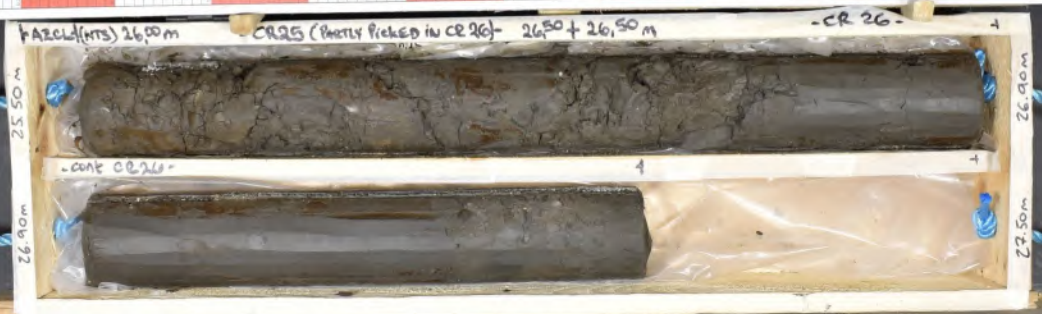
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07
SAMPLE REF: CR 25+26
DEPTH TOP: 25.50 (m)

DATE: 01 / 08 /2019
BOX REF: BOX 16
DEPTH BASE: 27.50 (m)

BASE



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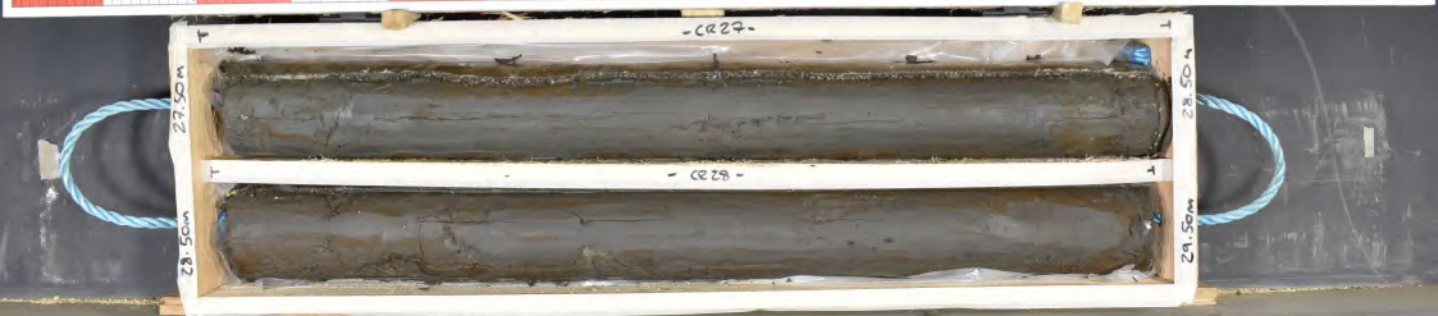
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07
SAMPLE REF: CR 27+28
DEPTH TOP: 27.50 (m)

DATE: 01 / 08 /2019
BOX REF: BOX 17
DEPTH BASE: 29.50 (m)

BASE



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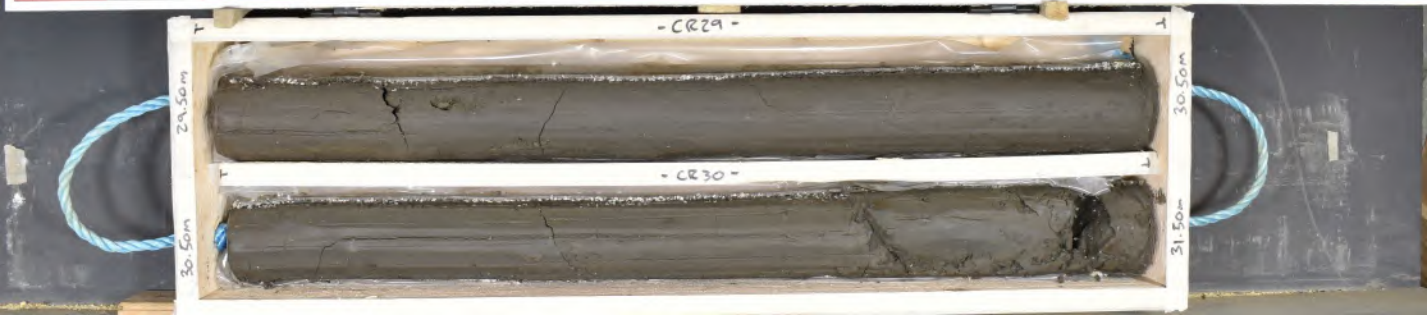
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07
SAMPLE REF: CR 2930
DEPTH TOP: 29.50 (m)
DATE: 01 / 08 /2019
BOX REF: Box 18
DEPTH BASE: 31.50 (m)

BASE



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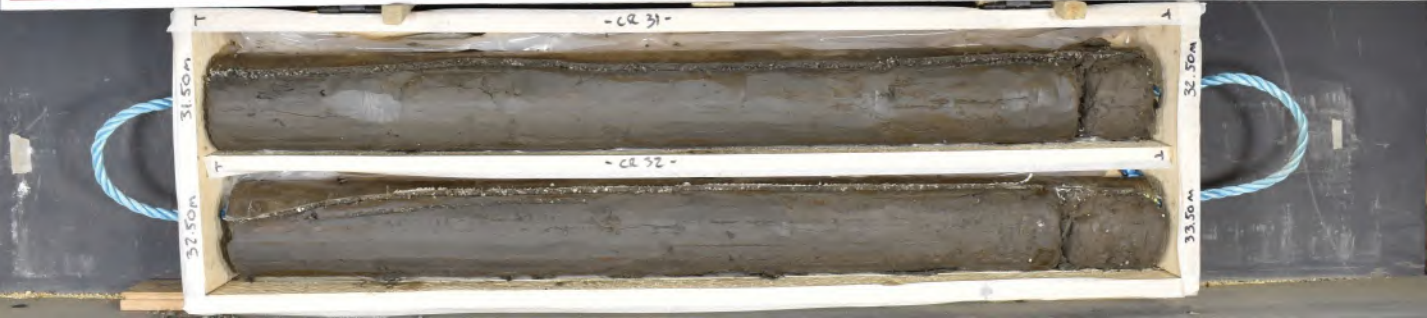
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07
SAMPLE REF: CR 31+32
DEPTH TOP: 31.50 (m)

DATE: 01 / 08 /2019
BOX REF: Box 19
DEPTH BASE: 33.50 (m)

BASE



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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07
SAMPLE REF: CR 33+34
DEPTH TOP: 33.50 (m)

DATE: 01 / 08 /2019
BOX REF: BOX 20
DEPTH BASE: 35.00 (m)

BASE

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07
SAMPLE REF: CR 35
DEPTH TOP: 35.00 (m)
DATE: 01 / 08 /2019
BOX REF: BOX 21
DEPTH BASE: 36.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07
SAMPLE REF: CR 36 & 37
DEPTH TOP: 36.50 (m)

DATE: 01 / 08 /2019
BOX REF: Box 22
DEPTH BASE: 38.50 (m)

BASE

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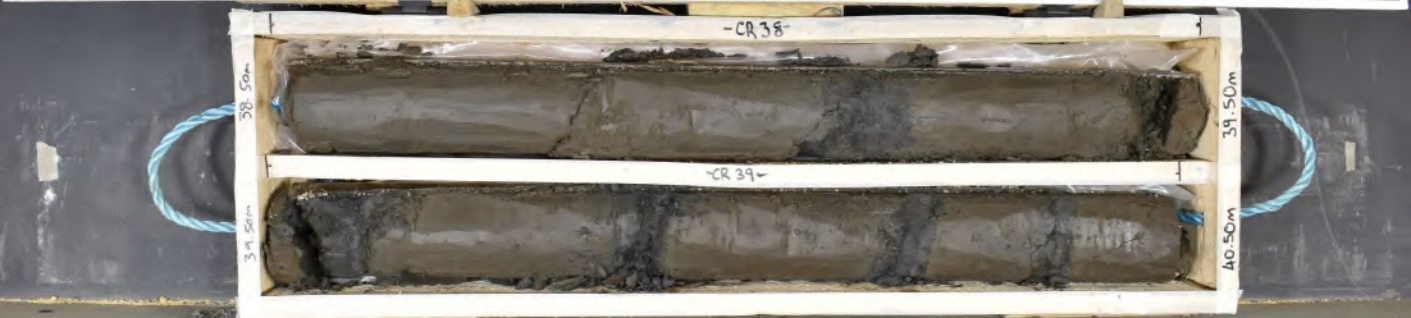
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07
SAMPLE REF: CR 38+39
DEPTH TOP: 38.50 (m)
DATE: 01 / 08 /2019
BOX REF: Box 23
DEPTH BASE: 40.50 (m)

BASE



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PHOTOGRAPHY BOARD

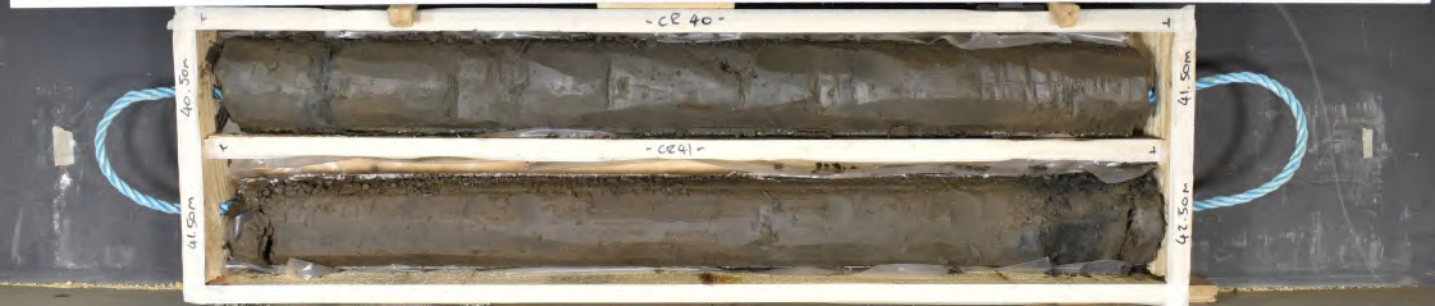
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07 SAMPLE REF: CR 40-41 DEPTH TOP: 40.50 (m)

DATE: 02 / 08 / 19 BOX REF: BOX 24 DEPTH BASE: 42.50 (m)

BASE



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PHOTOGRAPHY BOARD

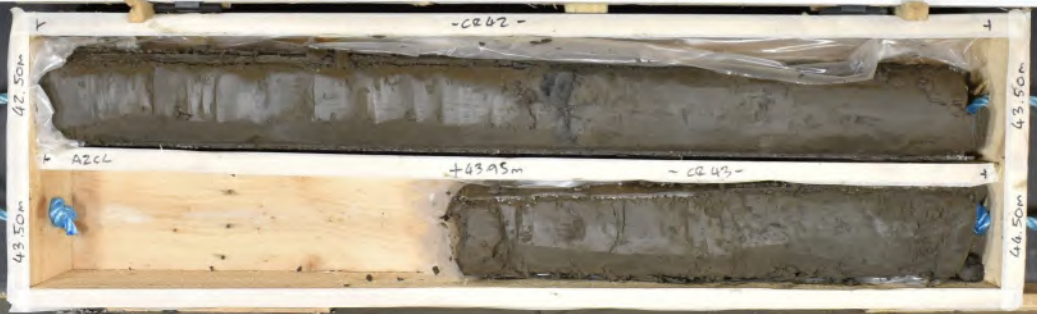
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07
SAMPLE REF: CR 42+43
DEPTH TOP: 42.50 (m)

DATE: 02 / 08 / 19
BOX REF: BOX 25
DEPTH BASE: 44.50 (m)

BASE



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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07 SAMPLE REF: CR 44+45 DEPTH TOP: 44.50 (m)

DATE: 02 / 08 / 19 BOX REF: Box 26 DEPTH BASE: 46.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07
DATE: 05 / 08 / 19
SAMPLE REF: CR 46+47
BOX REF: Box 27
DEPTH TOP: 46.50 (m)
DEPTH BASE: 48.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07
SAMPLE REF: CR 48
DEPTH TOP: 48.50 (m)
DATE: 05 / 08 / 19
BOX REF: Box 28
DEPTH BASE: 49.50 (m)

BASE

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PHOTOGRAPHY BOARD

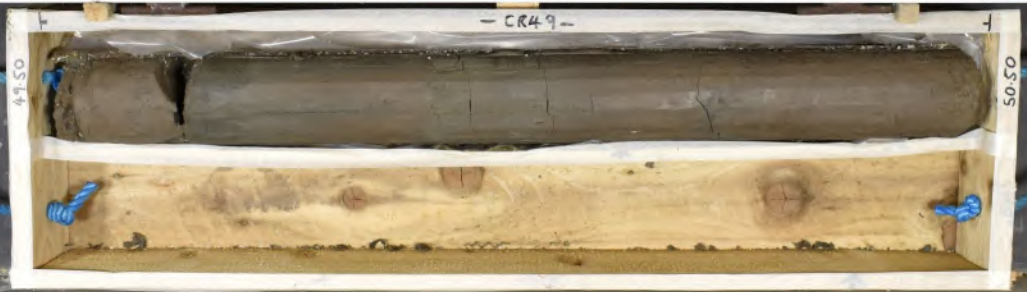
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07 SAMPLE REF: CR 49 DEPTH TOP: 49.50 (m)

DATE: 05 / 08 / 19 BOX REF: BOX 29 DEPTH BASE: 50.50 (m)

BASE



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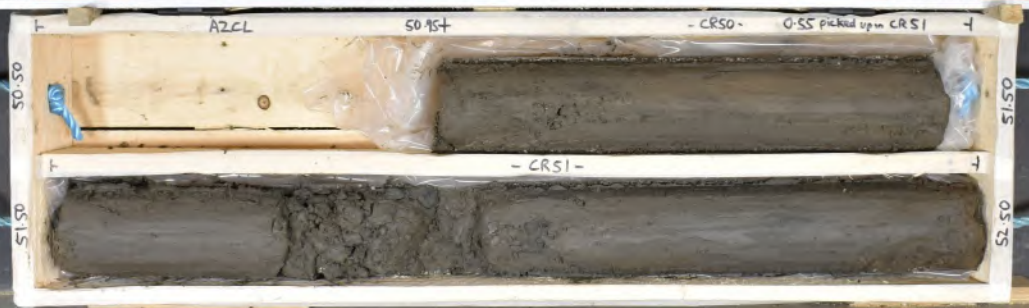
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07
SAMPLE REF: CR 50 + 51
DEPTH TOP: 50.50 (m)
DATE: 07/08/19
BOX REF: Box 30
DEPTH BASE: 52.50 (m)

BASE



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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SB_07
SAMPLE REF: CR 52
DEPTH TOP: 52.50 (m)
DATE: 07/08/19
BOX REF: Box 31
DEPTH BASE: 53.50 (m)
BASE
-CR52-
52.50
53.50

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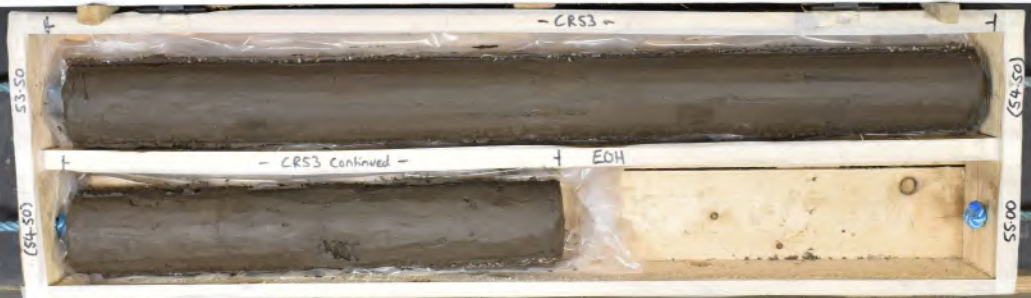
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SB_07 SAMPLE REF: CR 53 DEPTH TOP: 53.50 (m)

DATE: 07/08/19 BOX REF: Box 32 DEPTH BASE: 55.00 (m)

BASE



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PHOTOGRAPHY BOARD

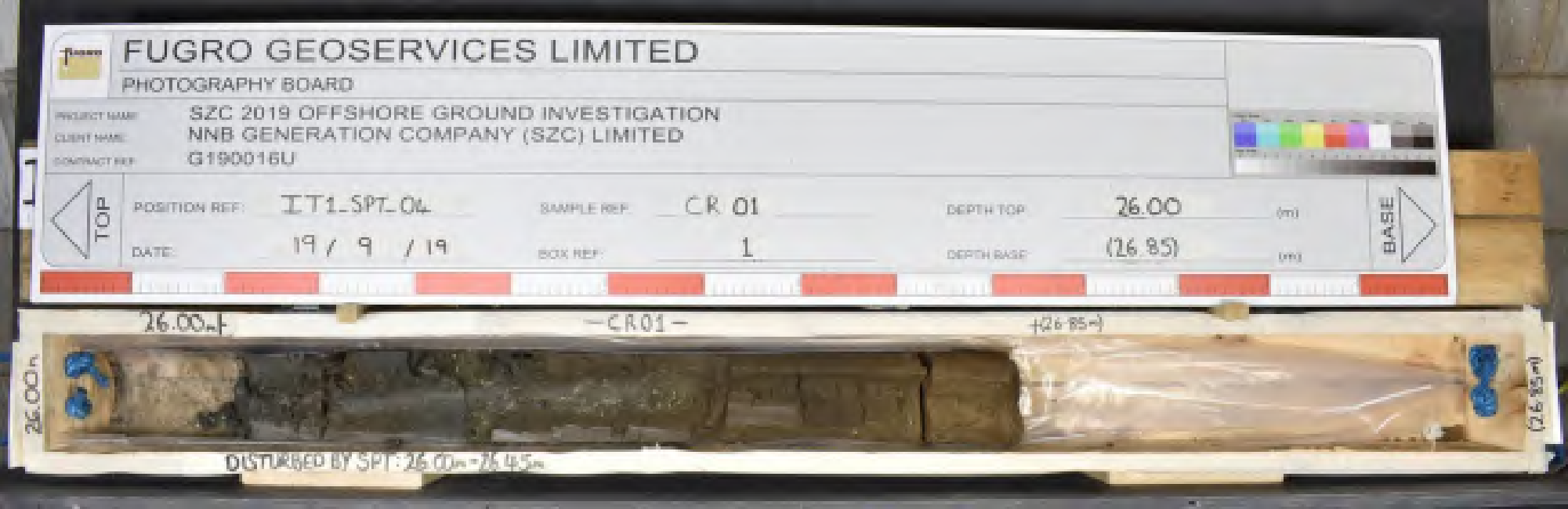
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

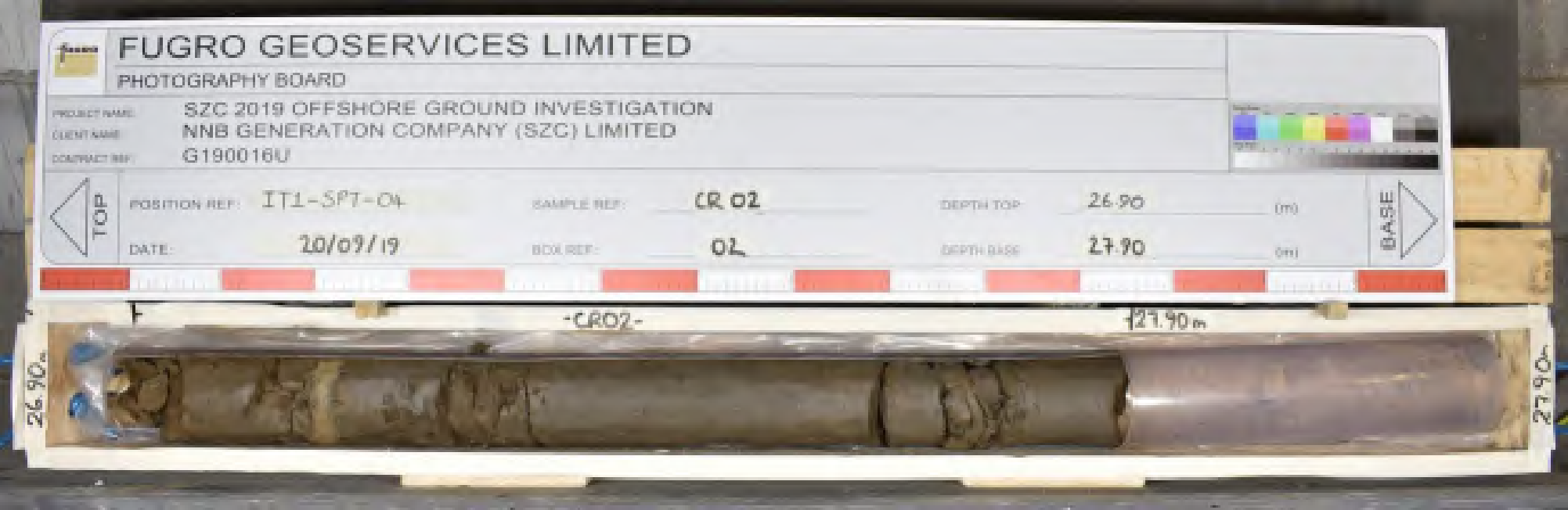
TOP

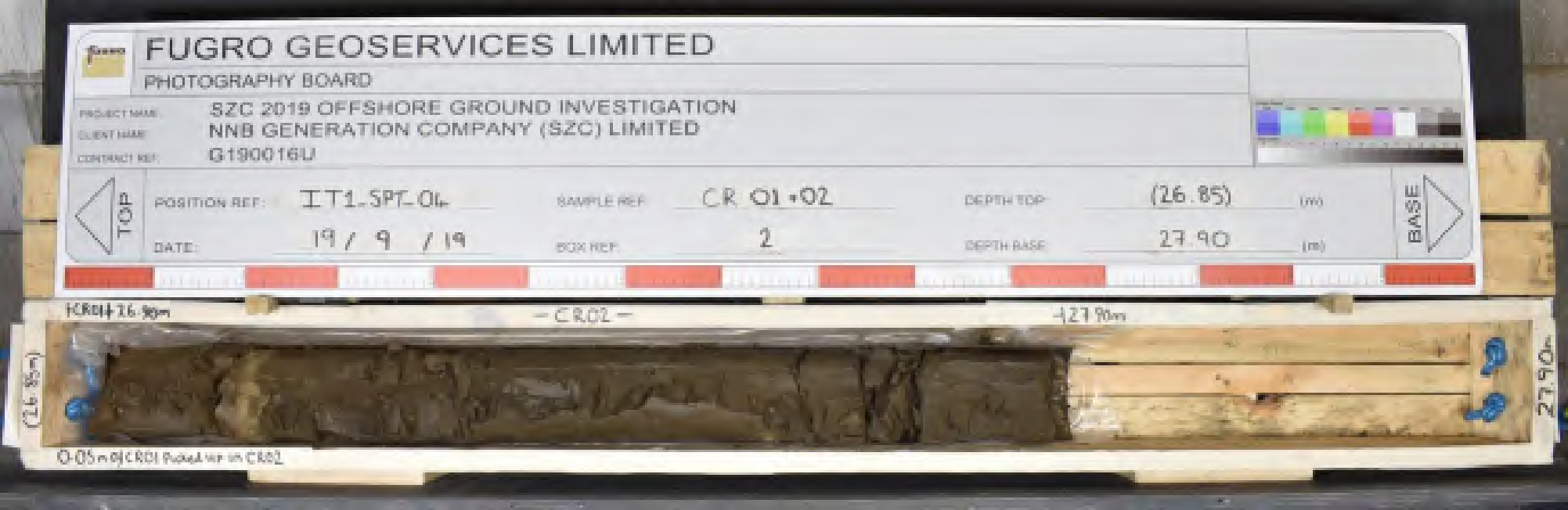
POSITION REF: IT1-SPT-04 SAMPLE REF: CR 01 DEPTH TOP: 26.00 (m)

DATE: 20/09/19 BOX REF: 01 DEPTH BASE: 26.90 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SPT_04
SAMPLE REF: CR 01
DEPTH TOP: 26.00 (m)
DATE: 19 / 9 / 19
BOX REF: 1
DEPTH BASE: (26.85) (m)
BASE
26.00m
-CR01-
(26.85m)
26.00m
(26.85m)
DISTURBED BY SPT: 26.00m - 26.45m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 02
DEPTH TOP: 26.90 (m)
DATE: 20/09/19
BOX REF: 02
DEPTH BASE: 27.90 (m)
BASE
-CR02-
27.90m
26.90m
27.90m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1.SPT-01
SAMPLE REF: CR 01+02
DEPTH TOP: (26.85) (m)
DATE: 19 / 9 / 19
BOX REF: 2
DEPTH BASE: 27.90 (m)
BASE
CR01 26.90m
CR02
27.90m
(26.85m)
27.90m
0.05m of CR01 Pushed up on CR02

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SPT-04 SAMPLE REF: CR 03 DEPTH TOP: 27.90 (m)

DATE: 20/09/19 BOX REF: 03 DEPTH BASE: 27.40 (m)

BASE

-CR03-

27.90m

27.40m

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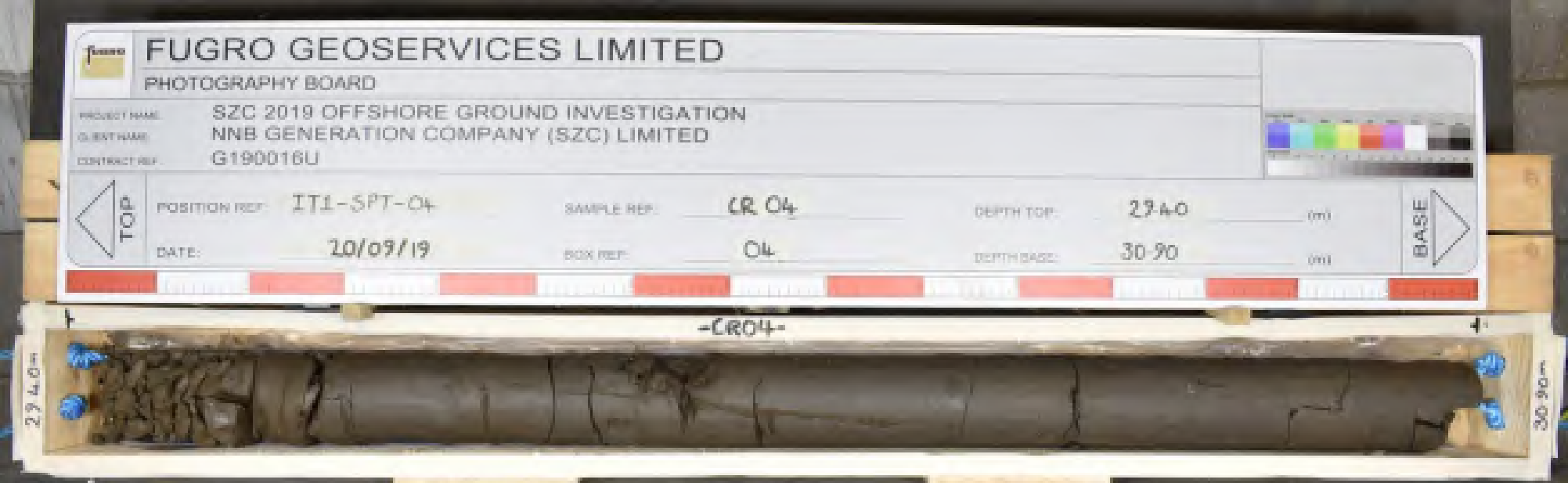
PHOTOGRAPHY BOARD
PROJECT NAME SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF G190016U
TOP
POSITION REF IT1-SPT-04
SAMPLE REF CR 03
DEPTH TOP 27.90 (m)
DATE 21 /09 /19
BOX REF 03
DEPTH BASE 29.40 (m)
BASE
-CR03-
27.90m
C23 Triaxial; 27.90-28.37m
C24 Triaxial; 28.92-29.35m
29.40m
28.92m Sample taken for Triaxial 27.90m-28.37m
28.92m Sample taken for Triaxial 28.92m-29.35m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 04
DEPTH TOP: 29.40 (m)
DATE: 20/09/19
BOX REF: 04
DEPTH BASE: 30.90 (m)
BASE
-CR04-
29.40m
30.90m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SPT-04
DATE: 21 /09 /19
SAMPLE REF: CR 04
BOX REF: 04
DEPTH TOP: 29.40 (m)
DEPTH BASE: 30.90 (m)

BASE

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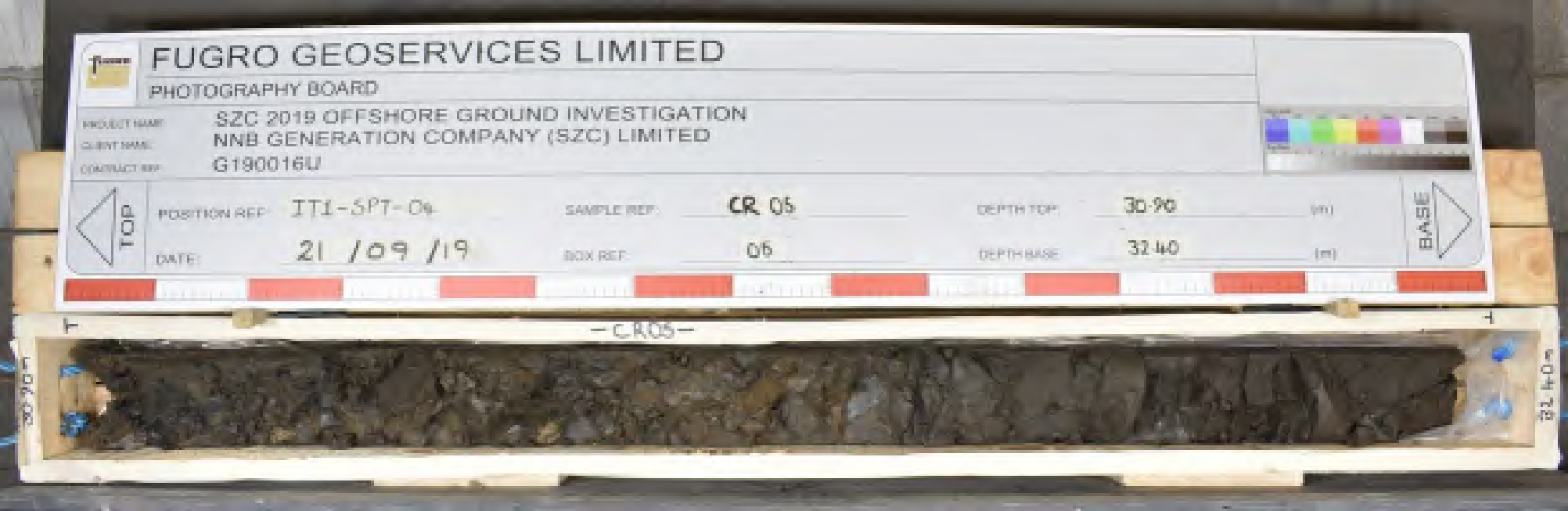
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 05
DEPTH TOP: 30.90 (m)
DATE: 20/09/19
BOX REF: 05
DEPTH BASE: 32.40 (m)
BASE
CROS
30.90m
32.40


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: ITI-SPT-06
DATE: 21/09/19
SAMPLE REF: CR 05
BOX REF: 06
DEPTH TOP: 30.90 (m)
DEPTH BASE: 32.40 (m)
BASE
CR05
30.90
32.40

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SPT-04 SAMPLE REF: CR 06 DEPTH TOP: 32.40 (m)

DATE: 19/09/19 BOX REF: 06 DEPTH BASE: 33.90 (m)

BASE

-CR06-

32.90

33.90

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SPT-04 SAMPLE REF: CR 06 DEPTH TOP: 32.40 (m)

DATE: 19/09/19 BOX REF: 06 DEPTH BASE: 33.90 (m)

BASE

-CR06-

32.40m

33.90m

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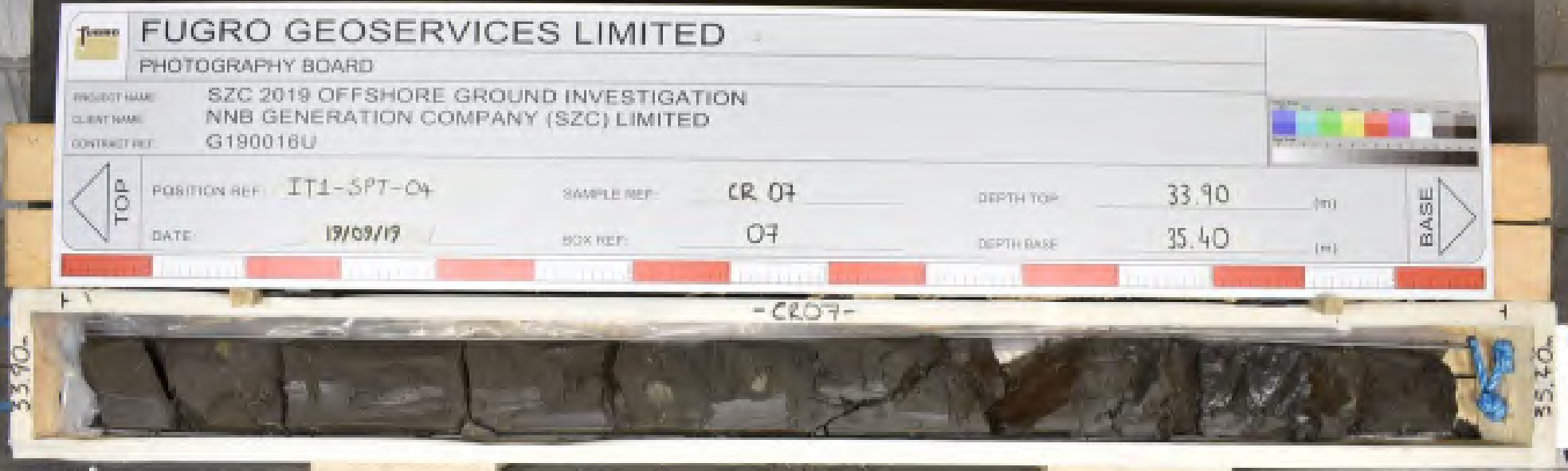
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SPT-04
DATE: 19/09/19
SAMPLE REF: CR 07
BOX REF: 07
DEPTH TOP: 33.90 (m)
DEPTH BASE: 35.40 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 07
DEPTH TOP: 33.90 (m)
DATE: 19/09/19
BOX REF: 07
DEPTH BASE: 35.40 (m)
BASE
IT1
-CR07-
33.90
35.40

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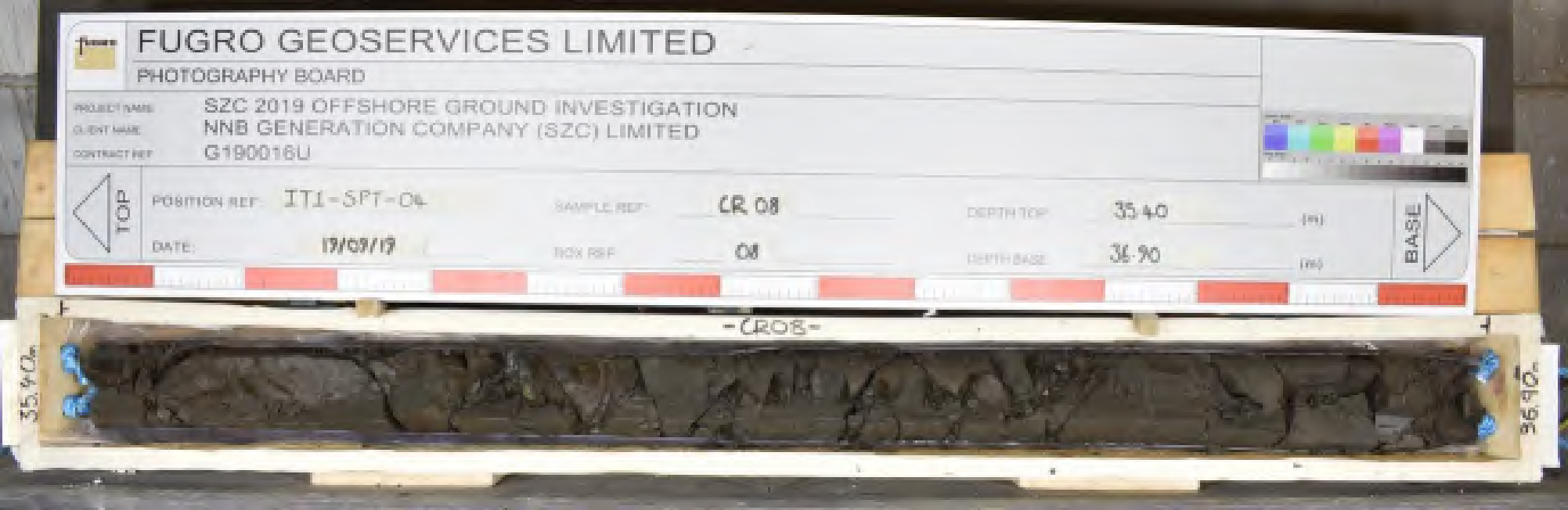
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 08
DEPTH TOP: 35.40 (m)
DATE: 19/09/19
BOX REF: 08
DEPTH BASE: 36.90 (m)
BASE
-CROS-
35.40m
36.90m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 08
DEPTH TOP: 35.40 (m)
DATE: 17/09/19
BOX REF: 08
DEPTH BASE: 36.90 (m)
BASE
-CR08-
35.40
36.90

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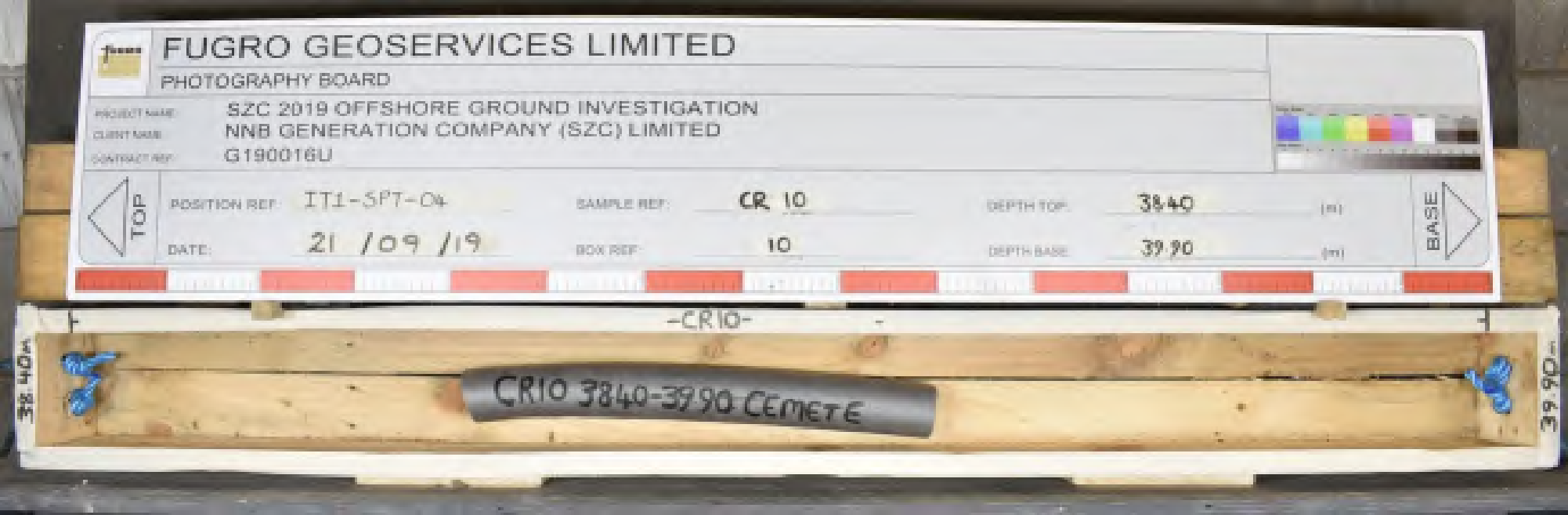
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 09
DEPTH TOP: 36.90 (m)
DATE: 21 / 09 / 19
BOX REF: 09
DEPTH BASE: 38.40 (m)
BASE
-CR09-
CR09 3690-3840m CEMSTE
36.90m
38.40m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 10
DEPTH TOP: 38.40 (m)
DATE: 21 /09 /19
BOX REF: 10
DEPTH BASE: 39.90 (m)
BASE
-CR10-
38.40m
CR10 3840-3990 CEMETE
39.90m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SPT-04

DATE: 19/09/19

SAMPLE REF: CR 11

BOX REF: 11

DEPTH TOP: 39.90 (m)

DEPTH BASE: 41.40 (m)

BASE

-CR11-

39.20m

41.40m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: C190016U

TOP

POSITION REF: IT1-SPT-04

DATE: 19/09/19

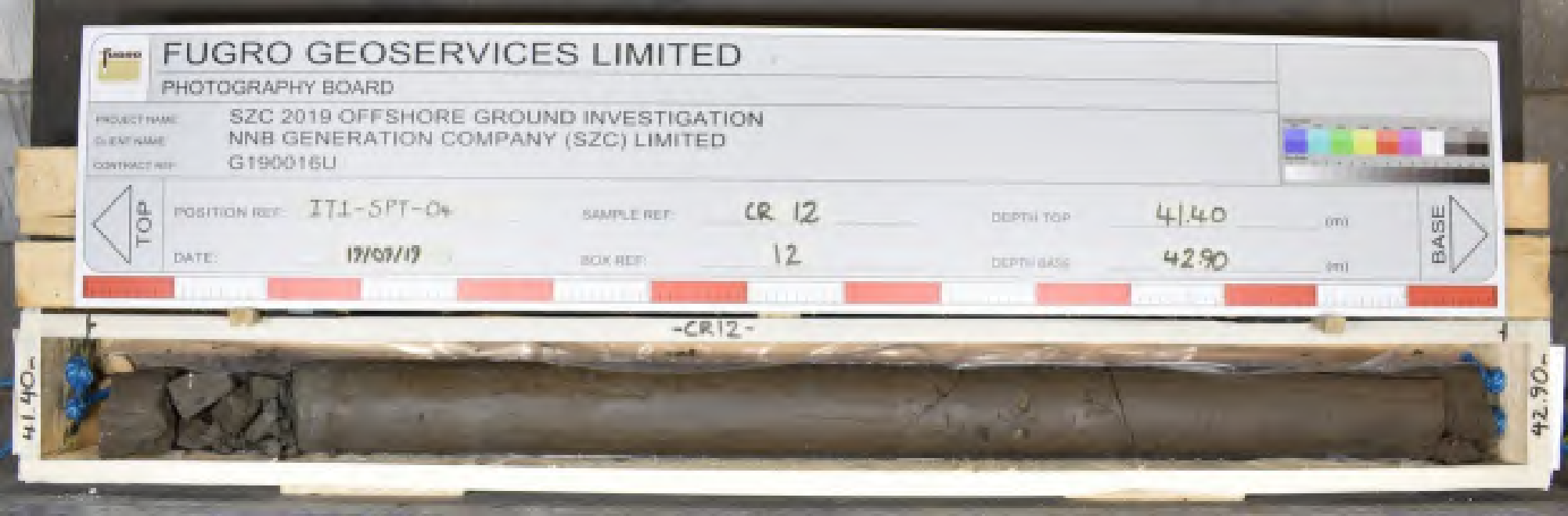
SAMPLE REF: CR 11

BOX REF: 11

DEPTH TOP: 39.90 (m)

DEPTH BASE: 41.40 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
DATE: 17/07/19
SAMPLE REF: CR 12
BOX REF: 12
DEPTH TOP: 41.40 (m)
DEPTH BASE: 42.90 (m)
BASE
-CR12-
41.40-
42.90-

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SPT-04 SAMPLE REF: CR 12 DEPTH TOP: 41.40 (m)

DATE: 19/09/19 BOX REF: 12 DEPTH BASE: 42.90 (m)

BASE

T -CR12- B

41.40m

42.90m

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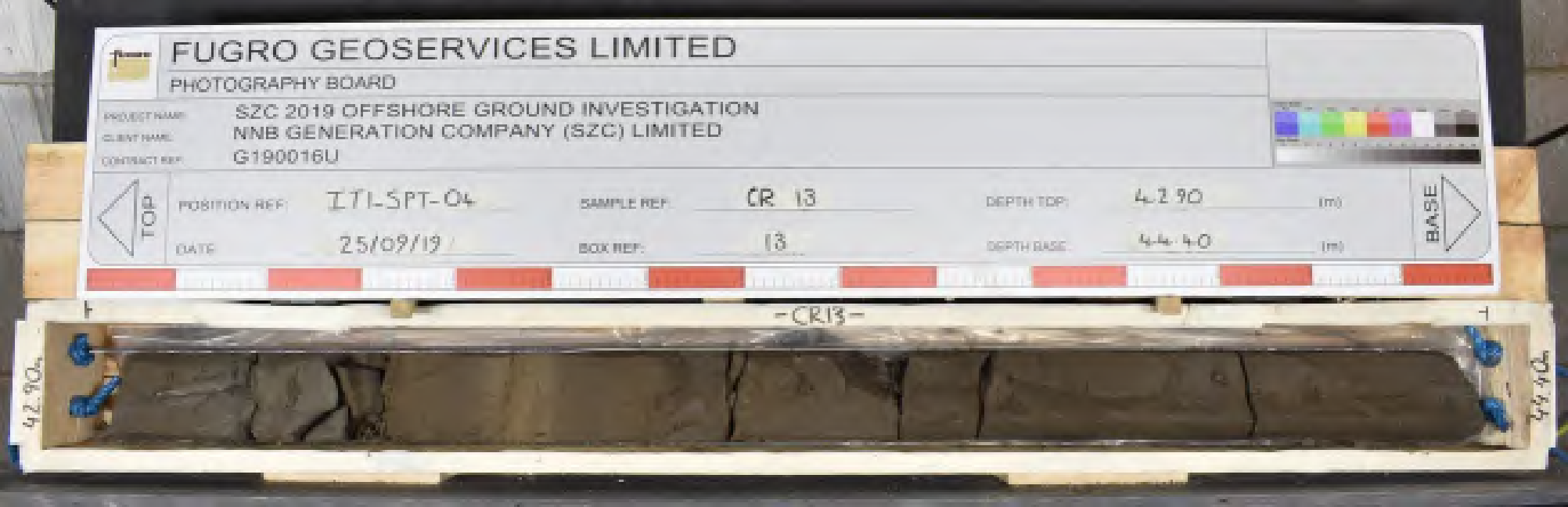
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SPT-C4
DATE: 17/09/19
SAMPLE REF: CR 13
BOX REF: 13
DEPTH TOP: 42.90 (m)
DEPTH BASE: 44.40 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: ITI-SPT-04
SAMPLE REF: CR 13
DEPTH TOP: 42.90 (m)
DATE: 25/09/19
BOX REF: 13
DEPTH BASE: 44.40 (m)
BASE
-CR13-
42.90
44.40

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SPT-04 SAMPLE REF: CR 14 DEPTH TOP: 44.40 (m)

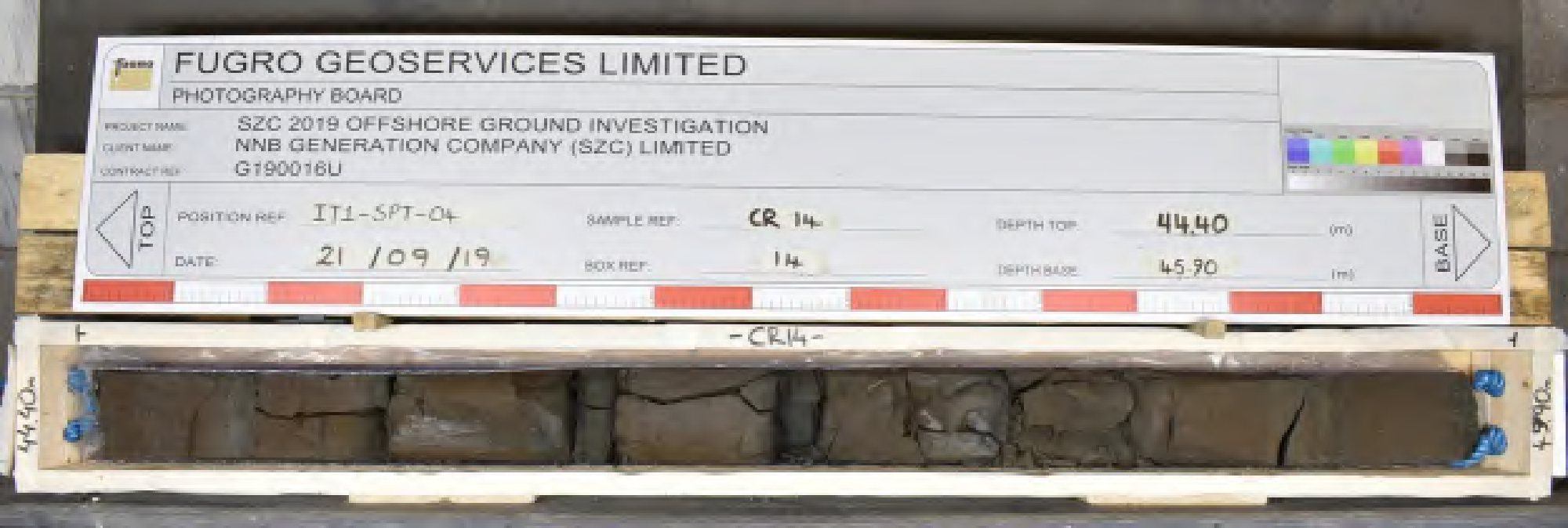
DATE: 19/09/19 BOX REF: 14 DEPTH BASE: 45.90 (m)

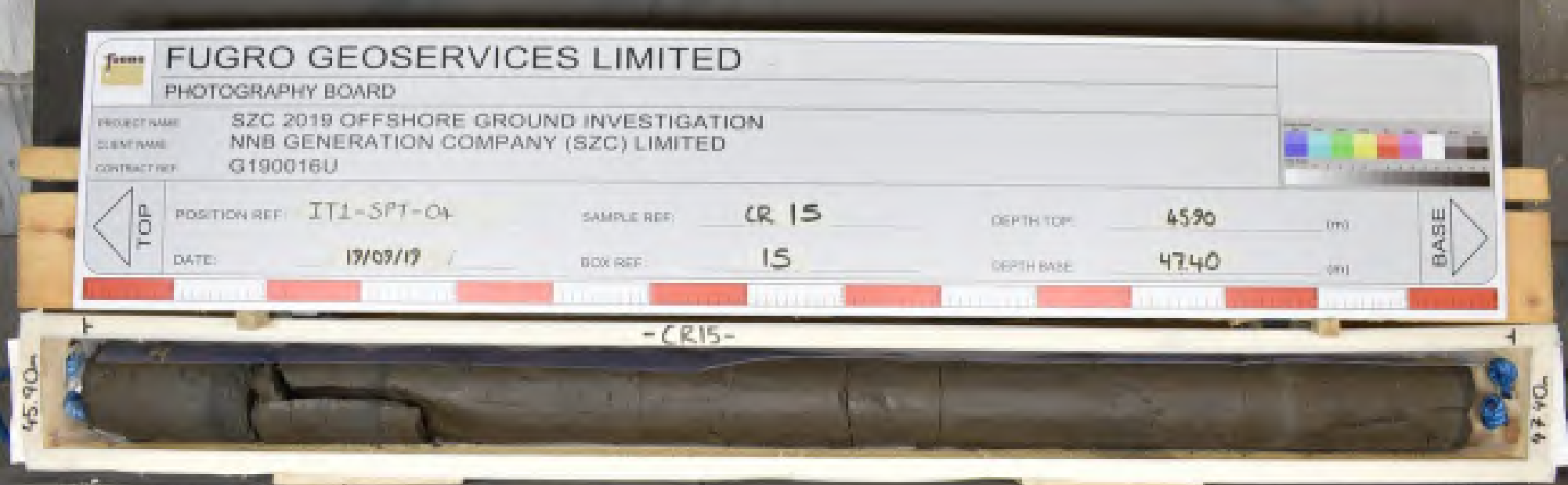
BASE

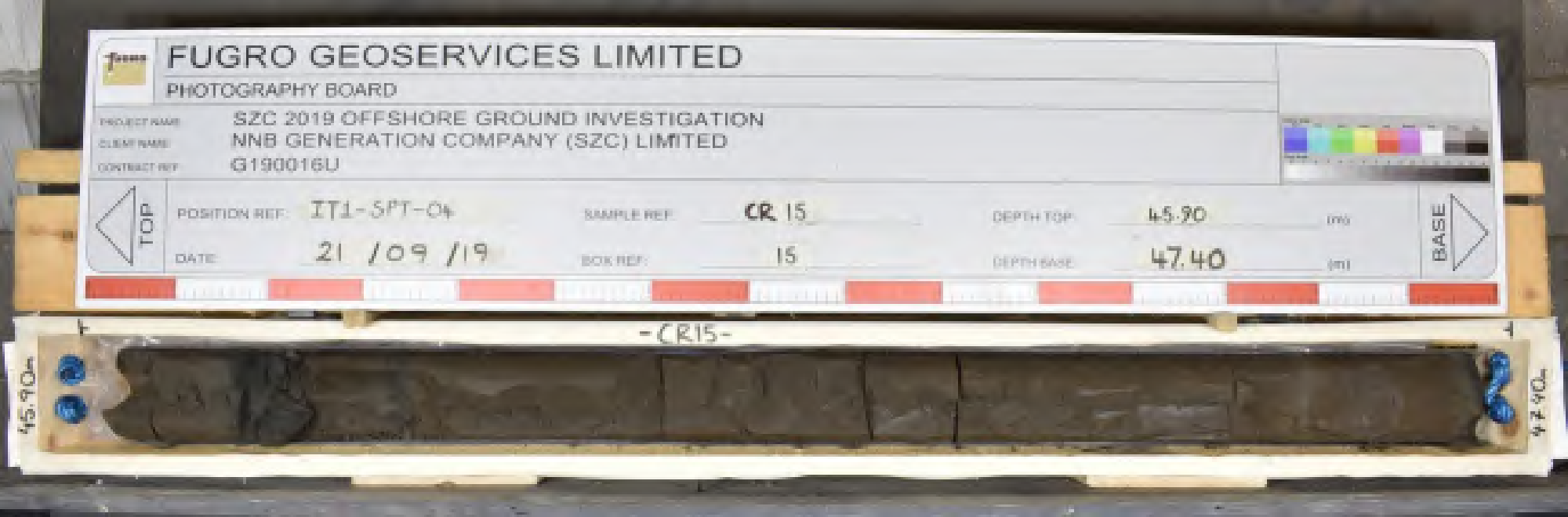
-CR14-

44.40

45.90


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
DATE: 21/09/19
SAMPLE REF: CR 14
BOX REF: 14
DEPTH TOP: 44.40 (m)
DEPTH BASE: 45.90 (m)
BASE
-CR14-
44.40m
45.90m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 15
DEPTH TOP: 45.90 (m)
DATE: 19/09/19
BOX REF: 15
DEPTH BASE: 47.40 (m)
BASE
-CR15-
45.90
47.40


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 15
DEPTH TOP: 45.90 (m)
DATE: 21 /09 /19
BOX REF: 15
DEPTH BASE: 47.40 (m)
BASE
-CR15-
45.90
47.40

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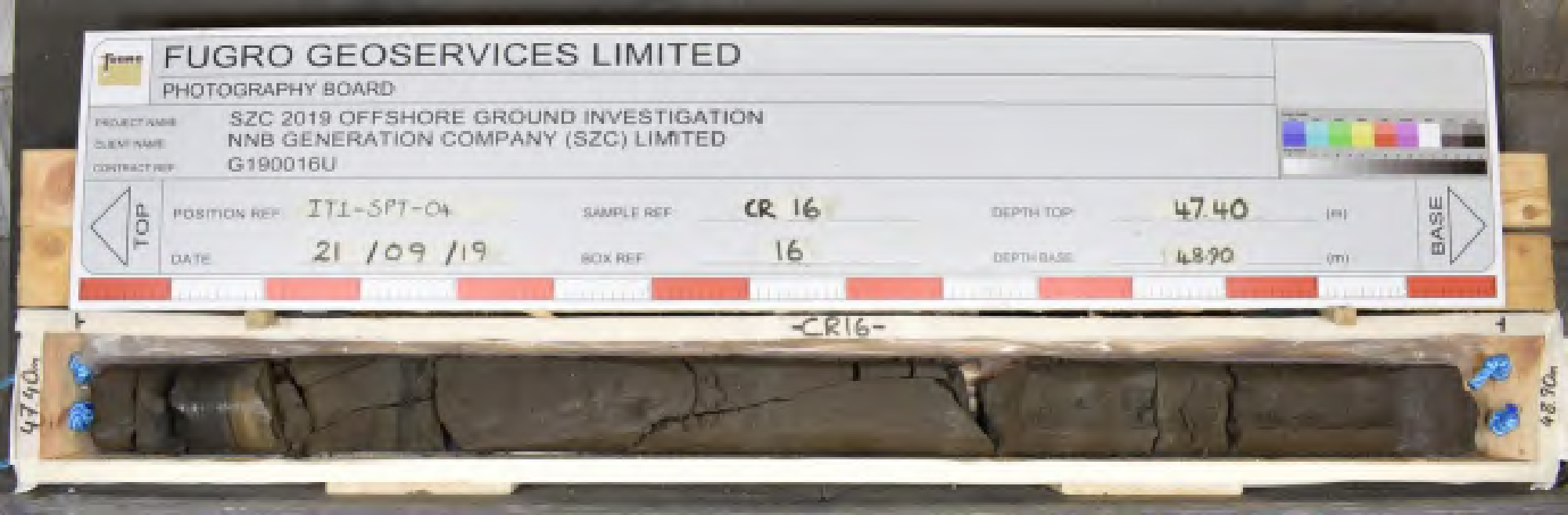
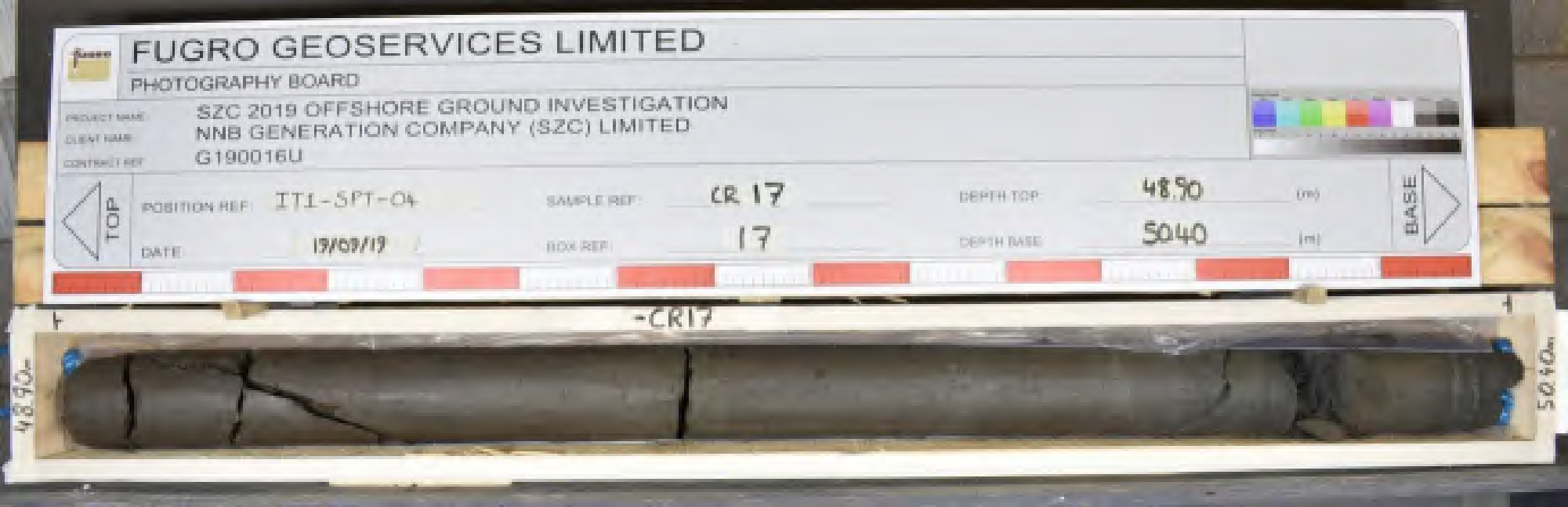
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SPT-C4
SAMPLE REF: CR 16
DEPTH TOP: 47.40 (m)
DATE: 19/09/19
BOX REF: 16
DEPTH BASE: 48.90 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF G190016U
TOP
POSITION REF IT1-SPT-04
SAMPLE REF CR 16
DEPTH TOP 47.40 (m)
DATE 21 /09 /19
BOX REF 16
DEPTH BASE 48.90 (m)
BASE
-CR16-
47.40m
48.90m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 17
DEPTH TOP: 48.90 (m)
DATE: 19/09/19
BOX REF: 17
DEPTH BASE: 5040 (m)
BASE
-CR17
48.90m
5040m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SPT-04

DATE: 21/09/19

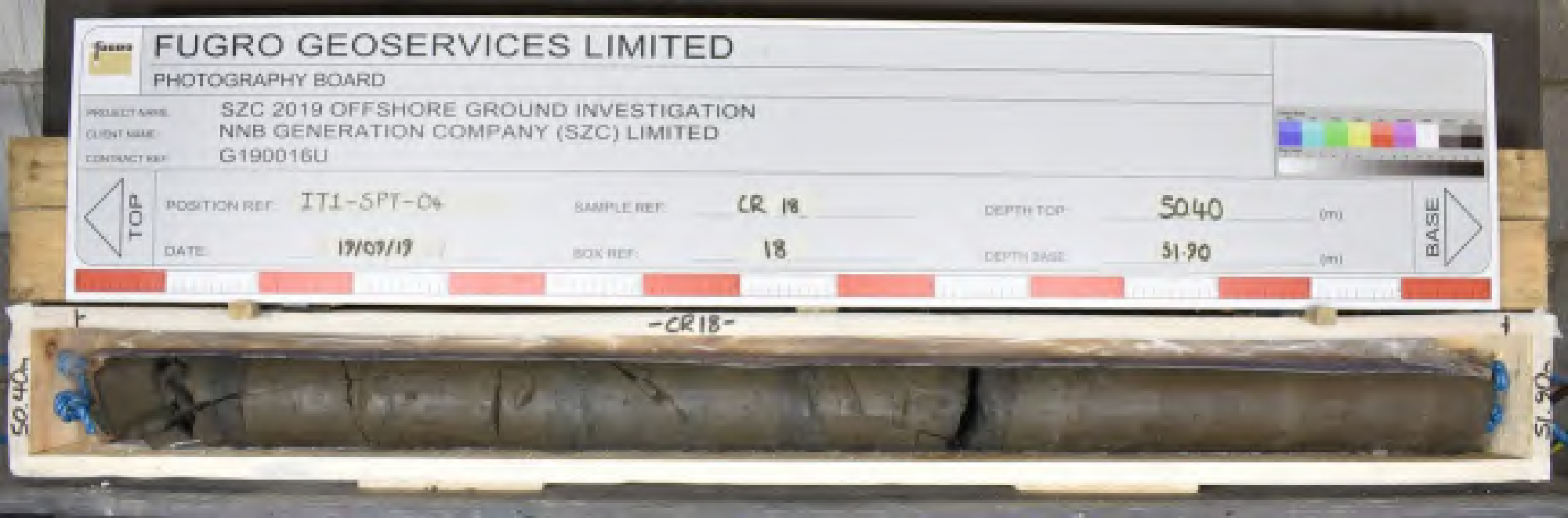
SAMPLE REF: CR 17

BOX REF: 17

DEPTH TOP: 48.90 (m)

DEPTH BASE: 50.40 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 18
DEPTH TOP: 50.40 (m)
DATE: 19/09/19
BOX REF: 18
DEPTH BASE: 51.90 (m)
BASE
-CR18-
50.40m
51.90m

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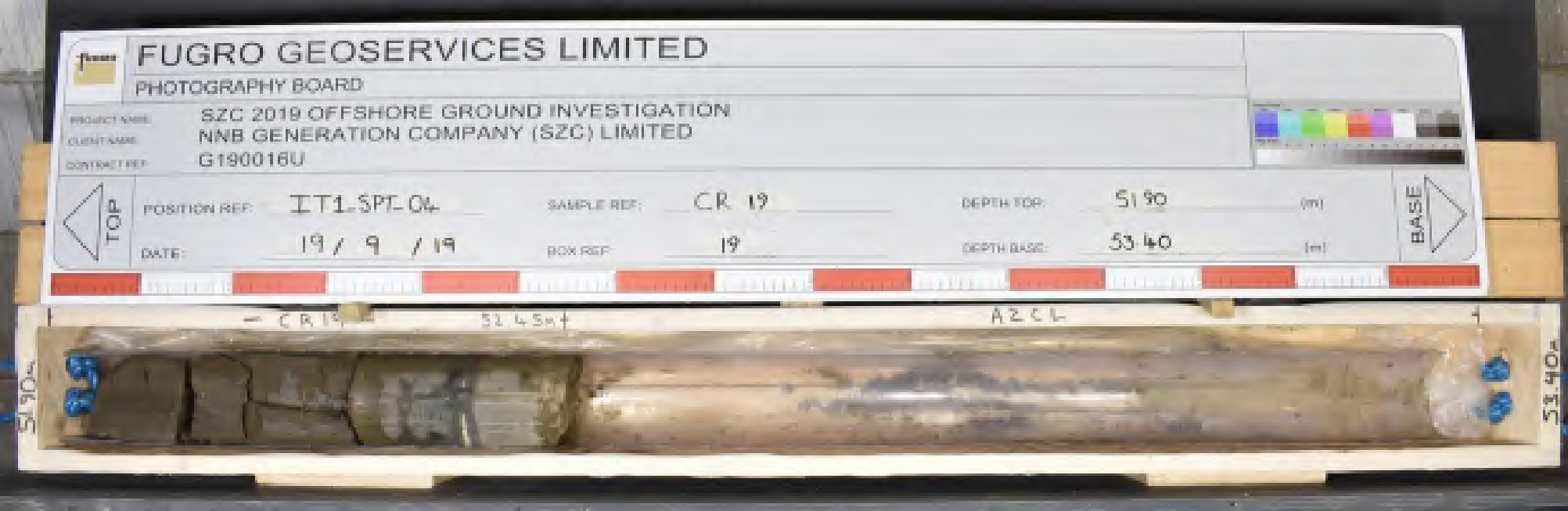
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT NO: G190016U

TOP

POSITION REF: IT1-SPT-04
SAMPLE REF: CR 18
DEPTH TOP: 50.40 (m)
DATE: 21/09/19
BOX REF: 18
DEPTH BASE: 51.90 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 19
DEPTH TOP: 51.90 (m)
DATE: 19 / 9 / 19
BOX REF: 19
DEPTH BASE: 53.40 (m)
BASE
CR 19
51.45m
AZCL
51.90
53.40

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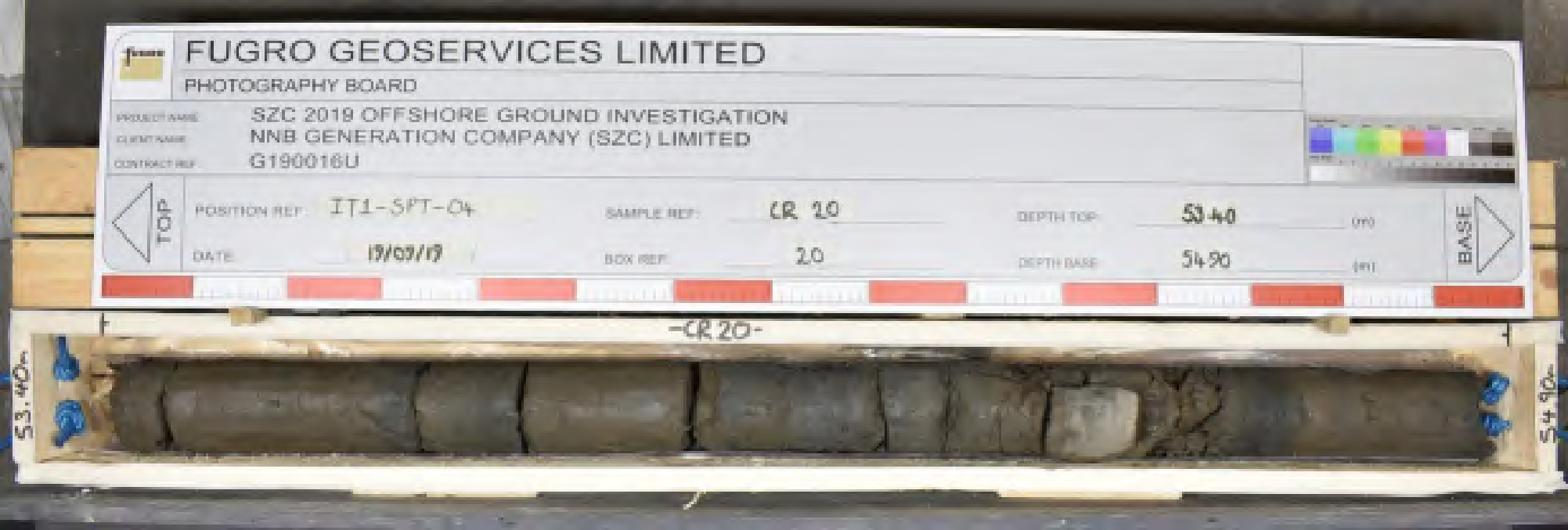
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

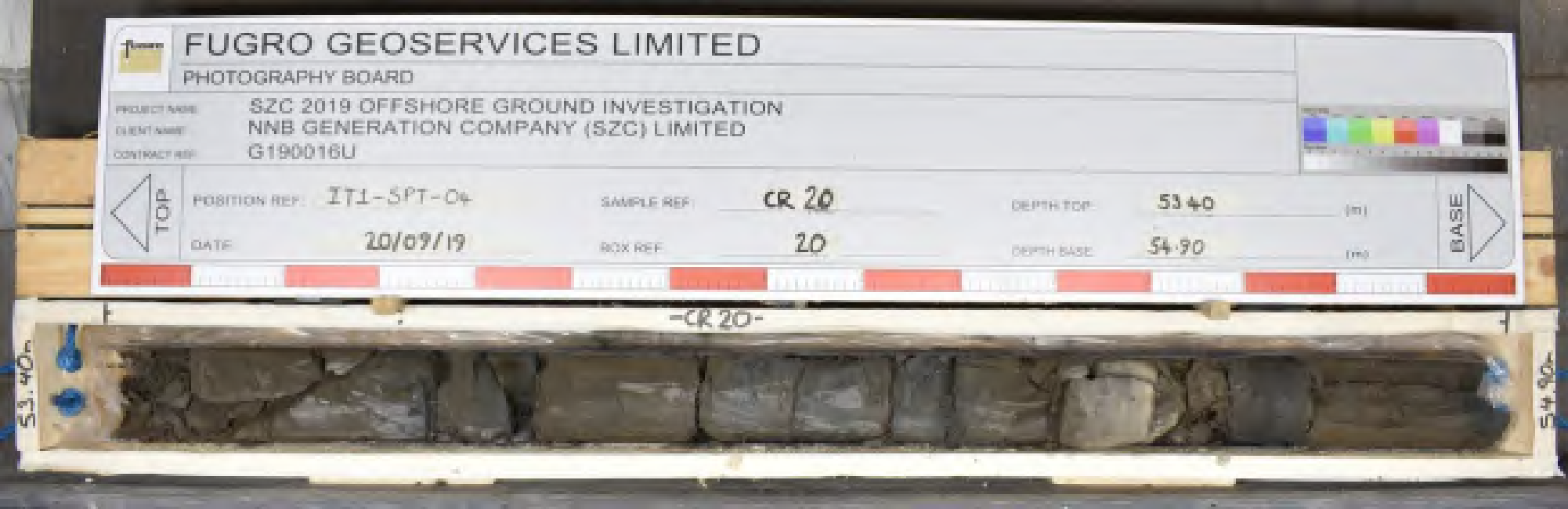
TOP

POSITION REF: IT1-SPT-04
SAMPLE REF: CR 19
DEPTH TOP: 51.90 (m)

DATE: 20/09/19
BOX REF: 19
DEPTH BASE: 53.40 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 20
DEPTH TOP: 53.40 (m)
DATE: 19/09/19
BOX REF: 20
DEPTH BASE: 54.90 (m)
BASE
-CR 20-
53.40m
54.90m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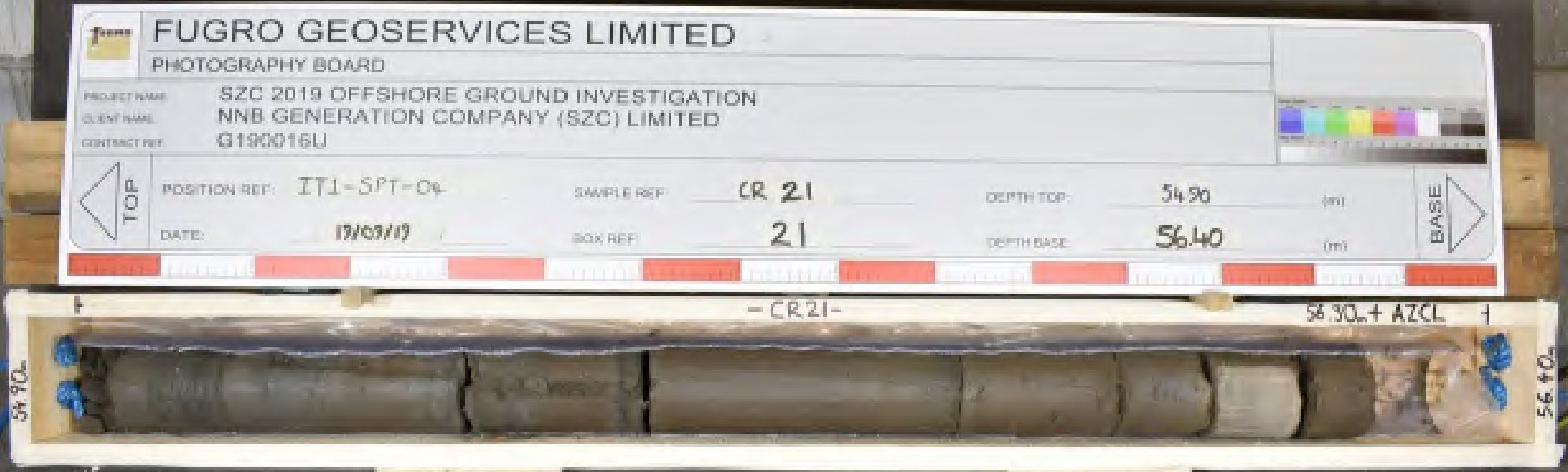
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 20
DEPTH TOP: 53.40 (m)
DATE: 20/09/19
BOX REF: 20
DEPTH BASE: 54.90 (m)
BASE
-CR 20-
53.40
54.90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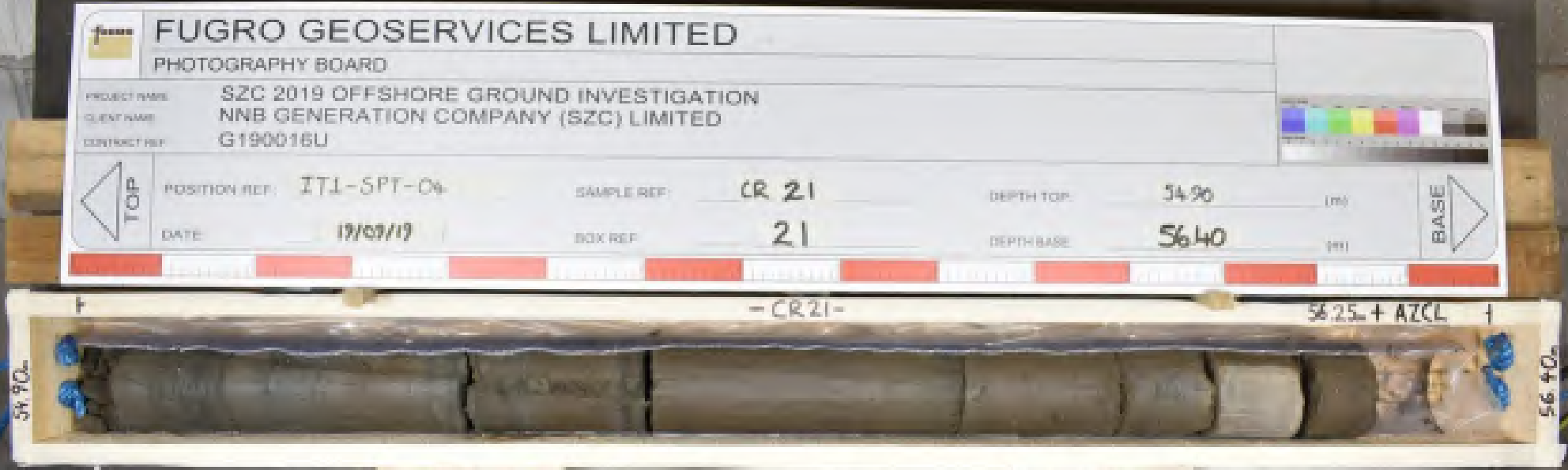
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
DATE: 19/09/19
SAMPLE REF: CR 21
BOX REF: 21
DEPTH TOP: 54.90 (m)
DEPTH BASE: 56.40 (m)
BASE
- CR21 -
56.30m + AZCL
54.90m
56.40m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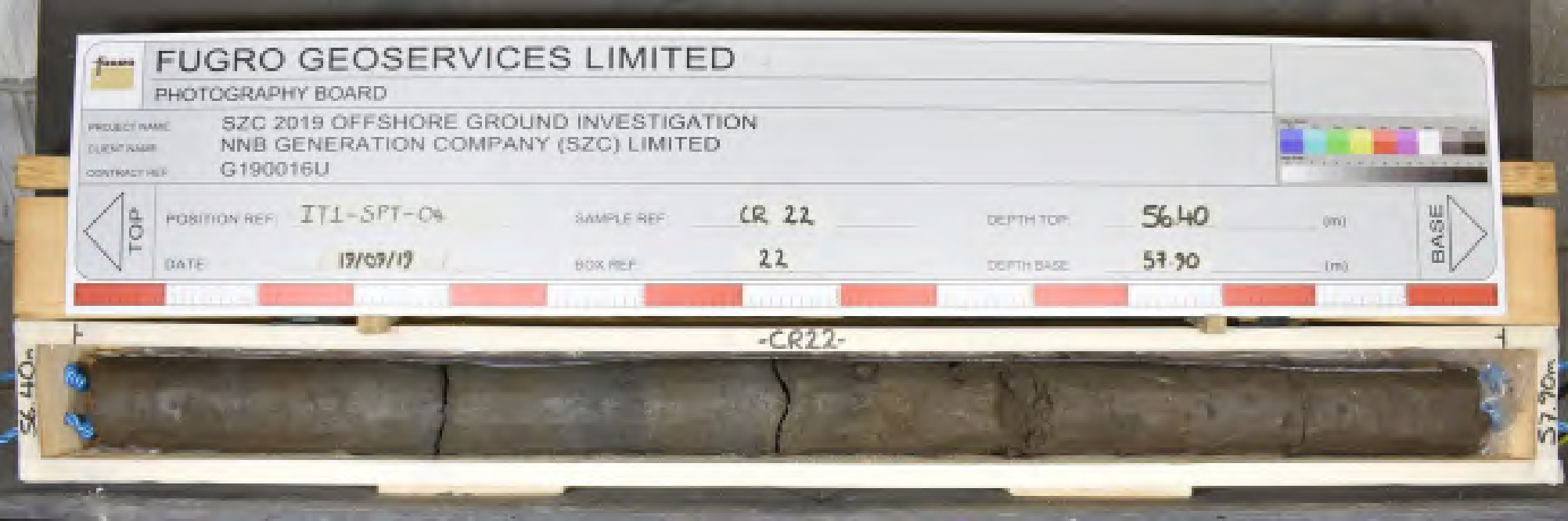
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: ITI-SPT-04
SAMPLE REF: CR 21
DEPTH TOP: 54.90 (m)
DATE: 19/09/19
BOX REF: 21
DEPTH BASE: 56.40 (m)
BASE
CR21
56.25 + AZCL
54.90
56.40


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF G190016U
TOP
POSITION REF IT1-SPT-06
SAMPLE REF CR 22
DEPTH TOP 56.40 (m)
DATE 19/09/19
BOX REF 22
DEPTH BASE 57.90 (m)
BASE
-CR22-
56.40m
57.90m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SPT-04 SAMPLE REF: CR 22 DEPTH TOP: 56.40 (m)

DATE: 20/09/19 BOX REF: 22 DEPTH BASE: 57.90 (m)

BASE

-CR22-

56.40m

57.90m

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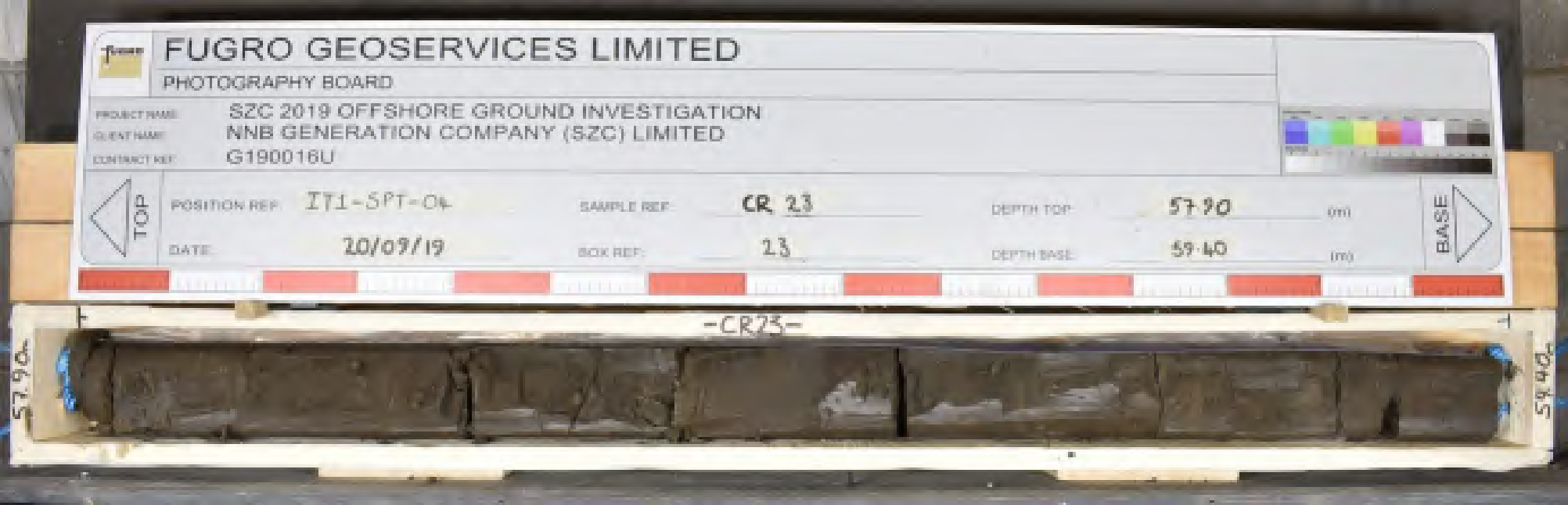
PHOTOGRAPHY BOARD
PROJECT NAME SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF G190016U
TOP
POSITION REF ITI-SPT-04
SAMPLE REF CR 23
DEPTH TOP 57.90 (m)
DATE 19/09/19
BOX REF 23
DEPTH BASE 59.40 (m)
BASE
-CR23-
57.90
59.40


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT NO: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 23
DEPTH TOP: 57.90 (m)
DATE: 20/09/19
BOX REF: 23
DEPTH BASE: 59.40 (m)
BASE
-CR23-
57.90
59.40

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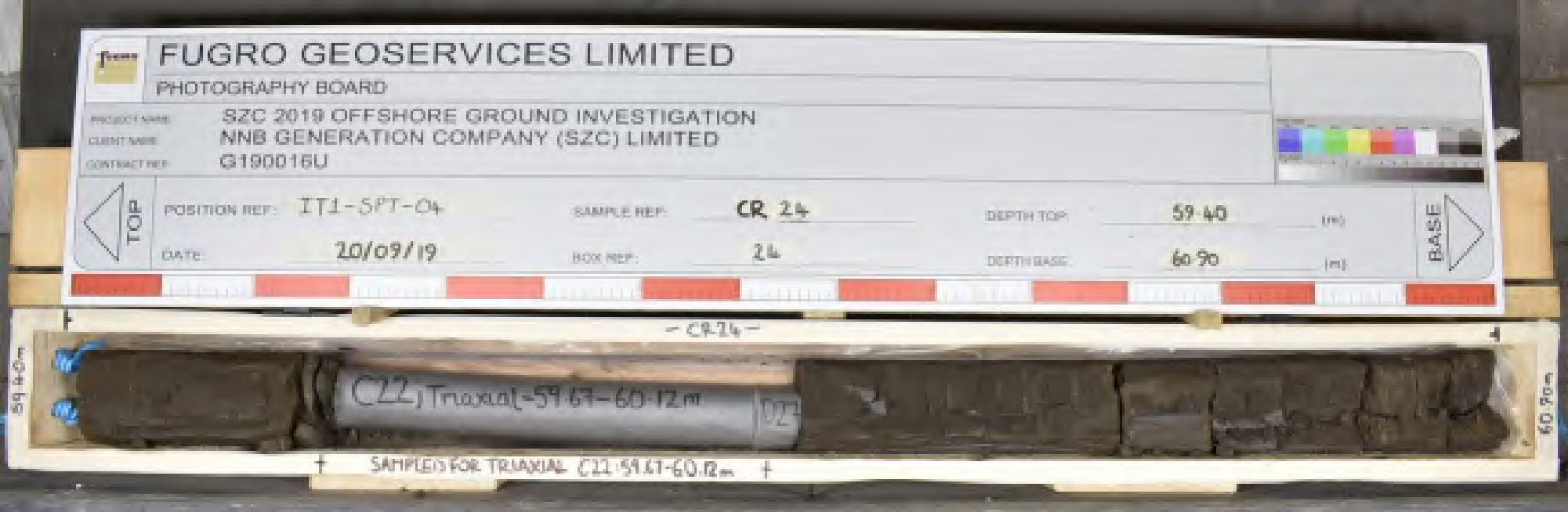
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SPT-06
DATE: 17/07/19
SAMPLE REF: CR 24
BOX REF: 24
DEPTH TOP: 59.40 (m)
DEPTH BASE: 60.90 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
DATE: 20/09/19
SAMPLE REF: CR 24
BOX REF: 24
DEPTH TOP: 59.40 (m)
DEPTH BASE: 60.90 (m)
BASE
- CR 24 -
59.40m
C22 Triaxial - 59.67 - 60.12m
D22
60.90m
SAMPLE(S) FOR TRIAXIAL C22 59.67-60.12m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SPT-04

DATE: 19/09/19

SAMPLE REF: CR 25

BOX REF: 25

DEPTH TOP: 60.90 (m)

DEPTH BASE: 62.40 (m)

BASE

-CR25-

62.35..+ * -1

60.90m

62.40m

*NOTE-AZCL: 62.35-62.40m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SPT-04
SAMPLE REF: CR 25
DEPTH TOP: 60.90 (m)

DATE: 20/09/19
BOX REF: 25
DEPTH BASE: 62.40 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SPT-04
SAMPLE REF: CR 26
DEPTH TOP: 62.40 (m)

DATE: 19/09/19
BOX REF: 26
DEPTH BASE: 63.90 (m)

BASE

NOTE AZCL: 63.80-63.90m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SP7-C4
DATE: 20/09/19
SAMPLE REF: CR 26
BOX REF: 26
DEPTH TOP: 62.40 (m)
DEPTH BASE: 63.90 (m)

BASE

NOTE AZCL: 63.80-63.90m

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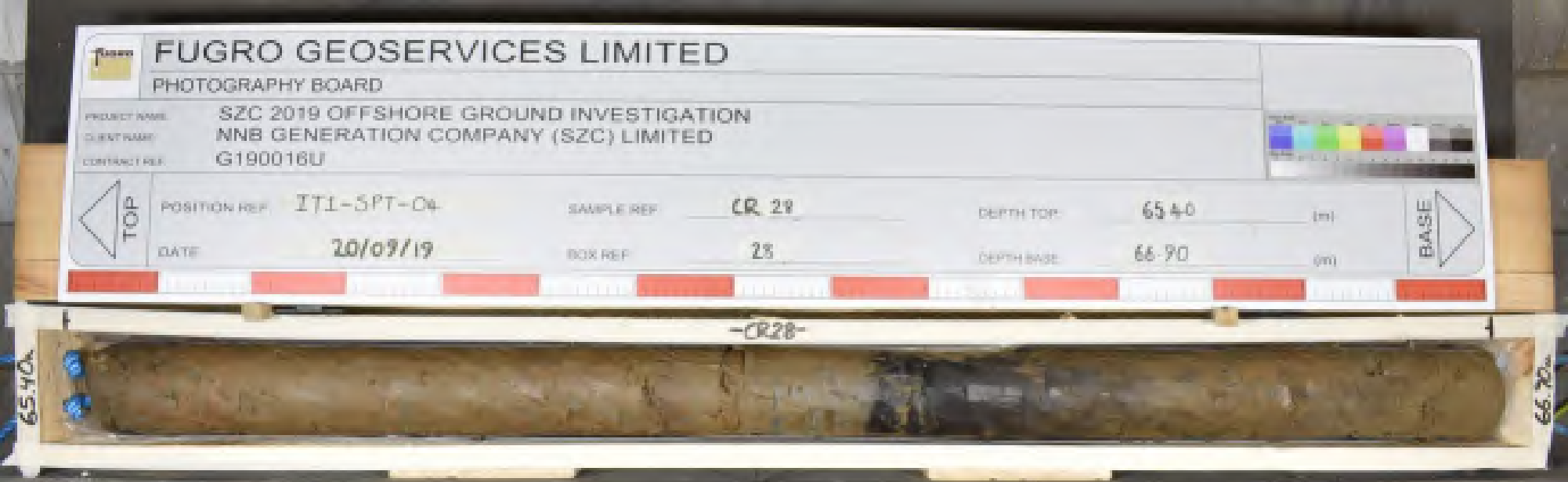
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 27
DEPTH TOP: 63.90 (m)
DATE: 19/09/19
BOX REF: 27
DEPTH BASE: 65.40 (m)
BASE
-CR27-
AZCL
63.90m
65.40m
NOTE: AZCL 63.90 - 65.40m

FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
DATE: 20/09/19
SAMPLE REF: CR 27
BOX REF: 27
DEPTH TOP: 63.90 (m)
DEPTH BASE: 65.40 (m)
BASE
-CR27-
AZCL
63.90m
65.40m
NOTE: AZCL 65.30 - 65.40m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: ITI-SPT-04
SAMPLE REF: CR 28
DEPTH TOP: 65.40 (m)
DATE: 20/09/19
BOX REF: 28
DEPTH BASE: 66.90 (m)
BASE
-CR28-
65.40m
66.90m

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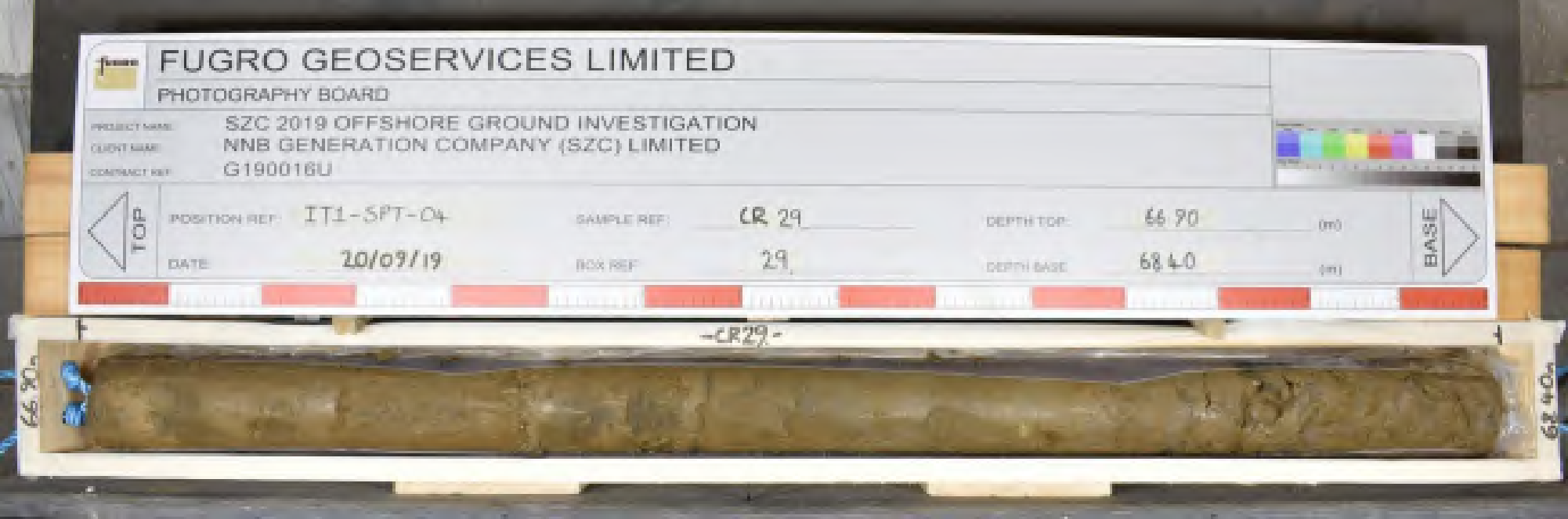
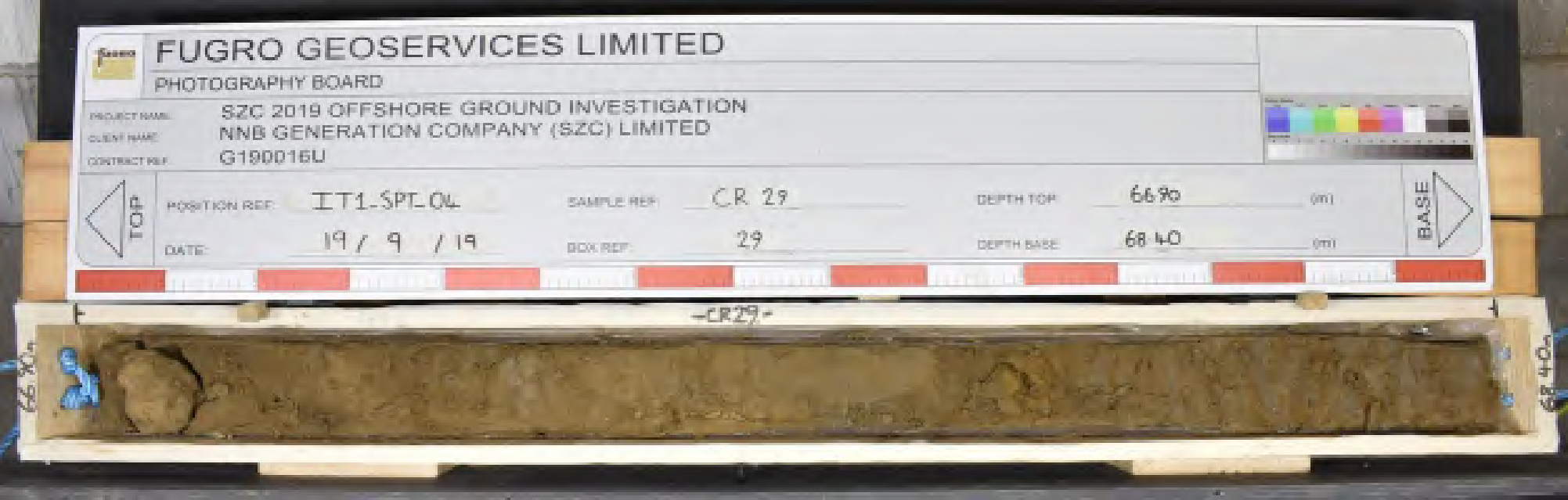
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 28
DEPTH TOP: 65.40 (m)
DATE: 20/09/19
BOX REF: 28
DEPTH BASE: 66.70 (m)
BASE
-CR28-
65.40
66.70


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 29
DEPTH TOP: 66.90 (m)
DATE: 20/09/19
BOX REF: 29
DEPTH BASE: 68.40 (m)
BASE
-CR29-
66.90m
68.40m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
DATE: 19 / 9 / 19
SAMPLE REF: CR 29
BOX REF: 29
DEPTH TOP: 66.90 (m)
DEPTH BASE: 68.40 (m)
BASE
-CR29-
66.90m
68.40m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SPT-04 SAMPLE REF: CR 30 DEPTH TOP: 68.40 (m)

DATE: 20/09/19 BOX REF: 30 DEPTH BASE: 69.90 (m)

BASE

-CR30-

68.40m

69.90m

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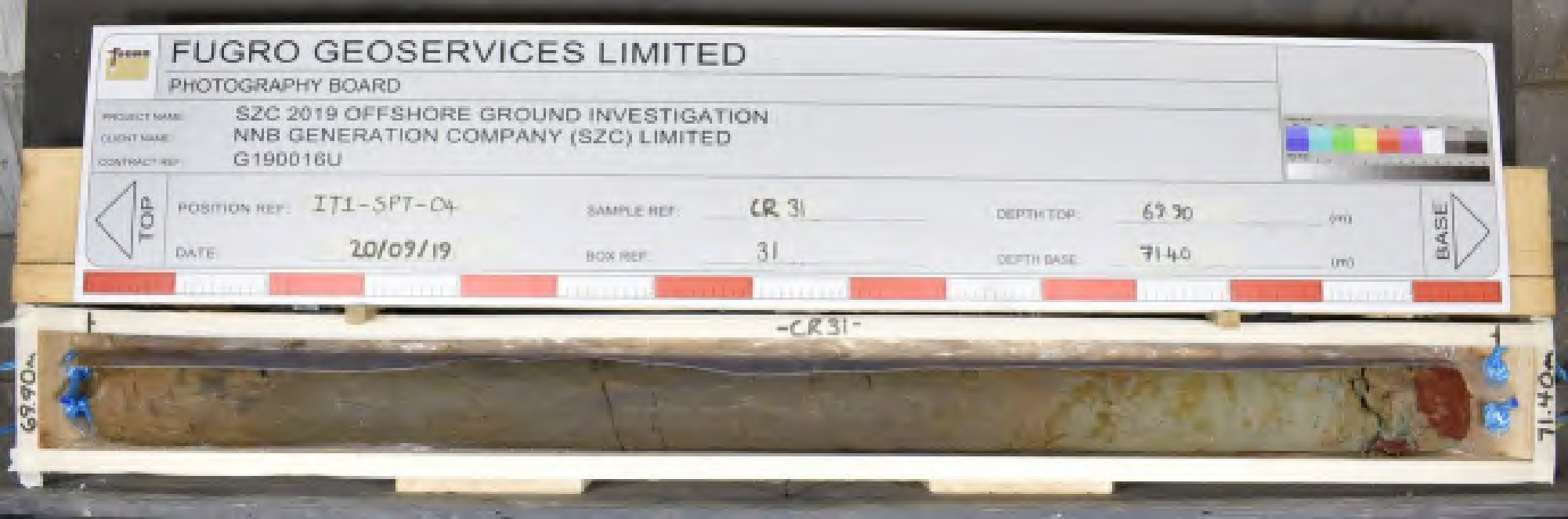
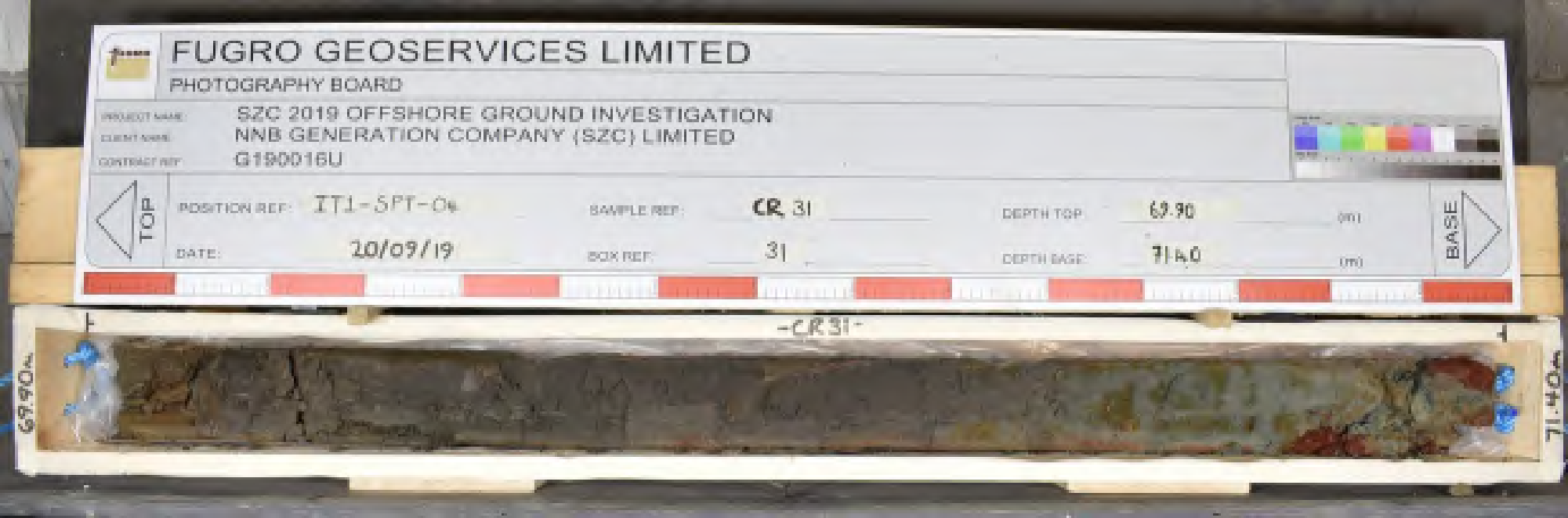
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT NO: G190016U
TOP
POSITION REF: IT1_SPT_04
SAMPLE REF: CR 30
DEPTH TOP: 68.40 (m)
DATE: 19 / 9 / 19
BOX REF: 30
DEPTH BASE: 69.90 (m)
BASE
-CR30-
68.40m
69.90m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 31
DEPTH TOP: 69.90 (m)
DATE: 20/09/19
BOX REF: 31
DEPTH BASE: 71.40 (m)
BASE
-CR31-
69.90m
71.40m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 31
DEPTH TOP: 69.90 (m)
DATE: 20/09/19
BOX REF: 31
DEPTH BASE: 71.40 (m)
BASE
-CR31-
69.90m
71.40m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SPT-04
DATE: 20/09/19
SAMPLE REF: CR 32
BOX REF: 32
DEPTH TOP: 71.40 (m)
DEPTH BASE: 72.90 (m)

BASE

NOTE-AZCL: 72.80-72.90m

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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SPT_06
DATE: 19 / 9 / 19
SAMPLE REF: CR 32
BOX REF: 32
DEPTH TOP: 71.40 (m)
DEPTH BASE: 72.90 (m)
BASE
-CR32-
72.80m AZCL
71.40m
72.90m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SPT-04

DATE: 20/09/19

SAMPLE REF: CR33

BOX REF: 33

DEPTH TOP: 72.90 (m)

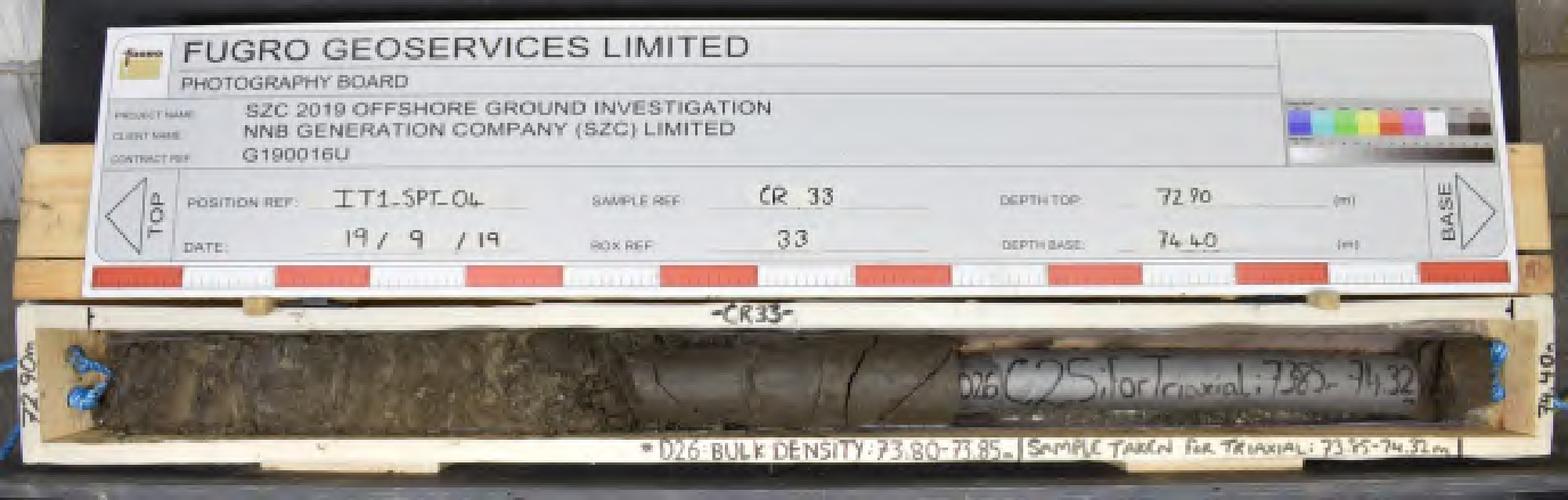
DEPTH BASE: 74.40 (m)

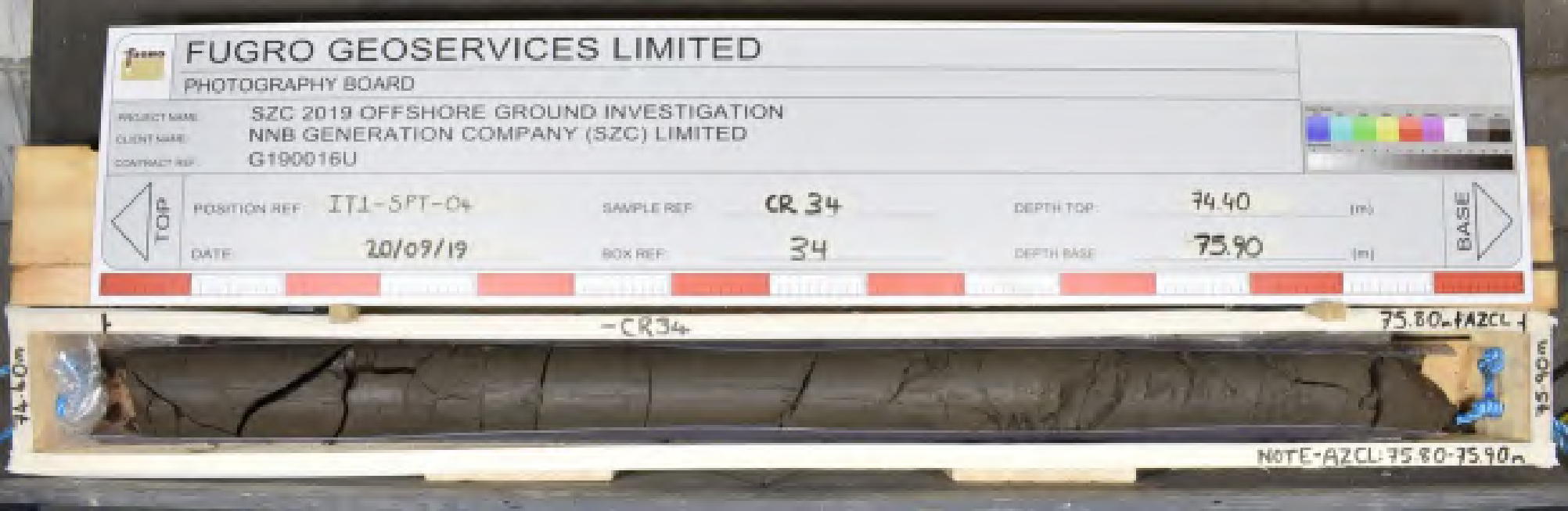
BASE

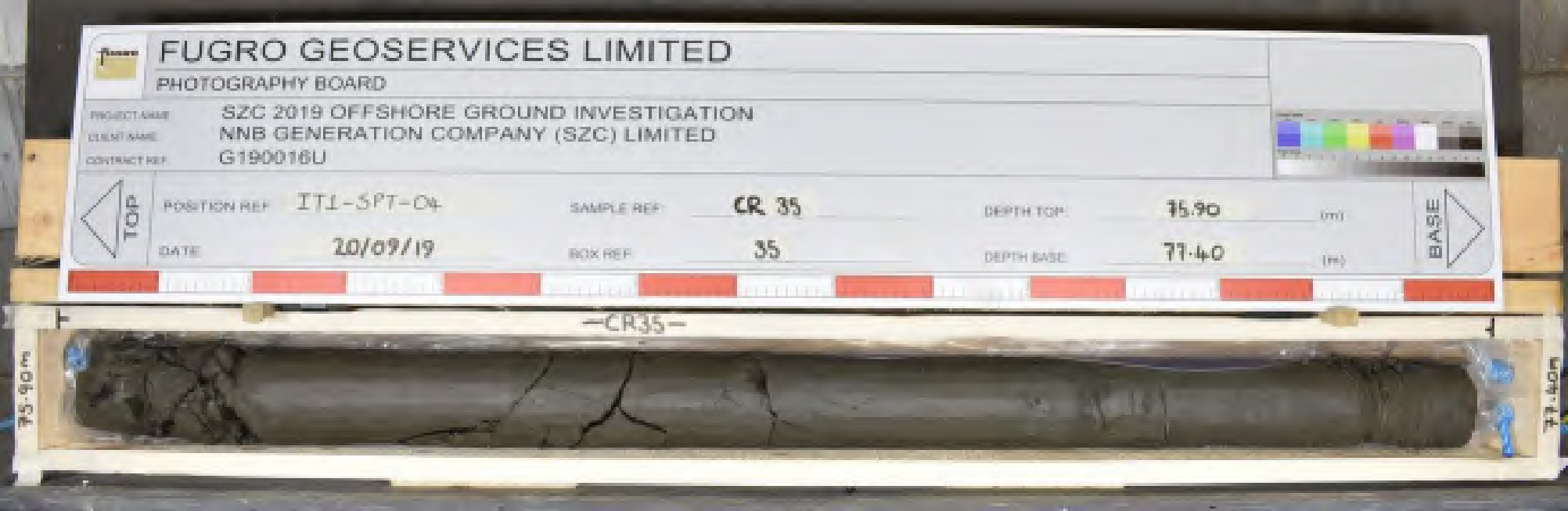
-CR33-

72.90m

74.40m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 33
DEPTH TOP: 72.90 (m)
DATE: 19 / 9 / 19
BOX REF: 33
DEPTH BASE: 74.40 (m)
BASE
-CR33-
72.90m
74.40m
D26 C2S for Triaxial: 73.85 - 74.32
* D26: BULK DENSITY: 73.80-73.85m
SAMPLE TAKEN FOR TRIAXIAL: 73.85-74.32m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 34
DEPTH TOP: 74.40 (m)
DATE: 20/09/19
BOX REF: 34
DEPTH BASE: 75.90 (m)
BASE
-CR34
75.80 AZCL
74.40m
75.90m
NOTE-AZCL: 75.80-75.90m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PHOTOGRAPHY BOARD
PROJECT NAME SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF G190016U
TOP
POSITION REF IT1-SPT-04
SAMPLE REF CR 35
DEPTH TOP 75.90 (m)
DATE 20/09/19
BOX REF 35
DEPTH BASE 77.40 (m)
BASE
CR35
75.90m
77.40m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SPT-04

DATE: 20/09/19

SAMPLE REF: CR 36

BOX REF: 36

DEPTH TOP: 77.40 (m)

DEPTH BASE: 78.90 (m)

BASE

-CR36-

77.40m

78.90m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SPT_04

DATE: 19 / 9 / 19

SAMPLE REF: CR 37

BOX REF: 37

DEPTH TOP: 78.90 (m)

DEPTH BASE: 80.40 (m)

BASE

-CR37-

78.90m

80.40m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1_SPT-01
DATE: 19 / 9 / 19
SAMPLE REF: CR 38
BOX REF: 38
DEPTH TOP: 80.40 (m)
DEPTH BASE: 81.90 (m)

BASE

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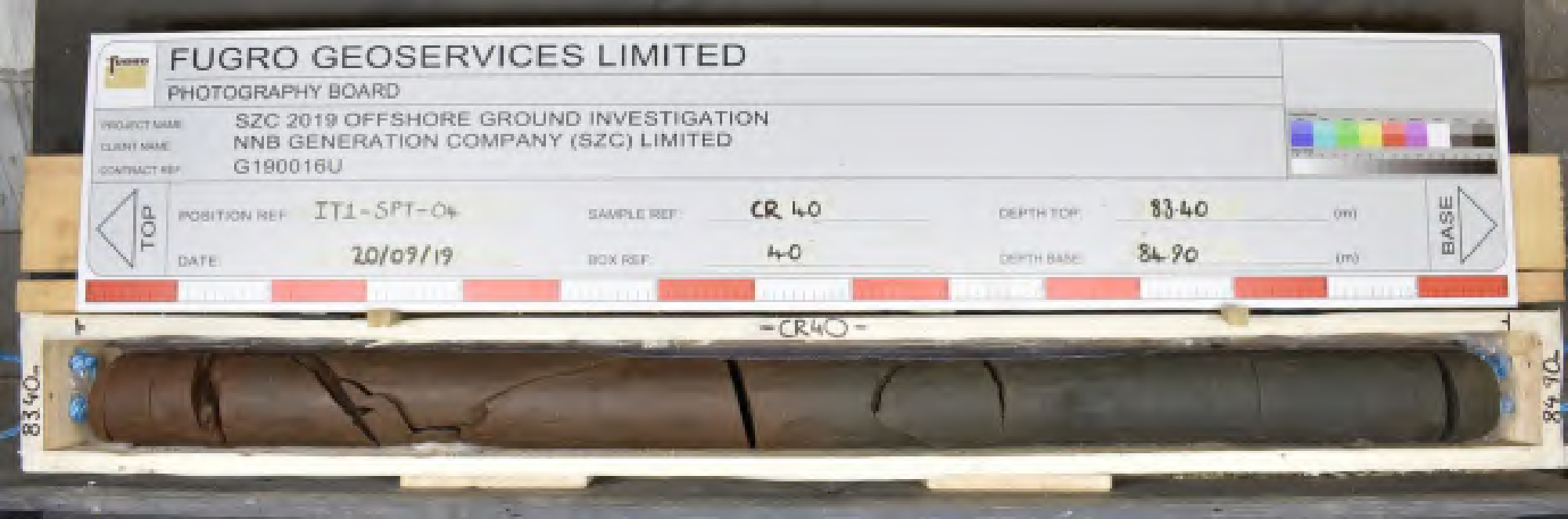
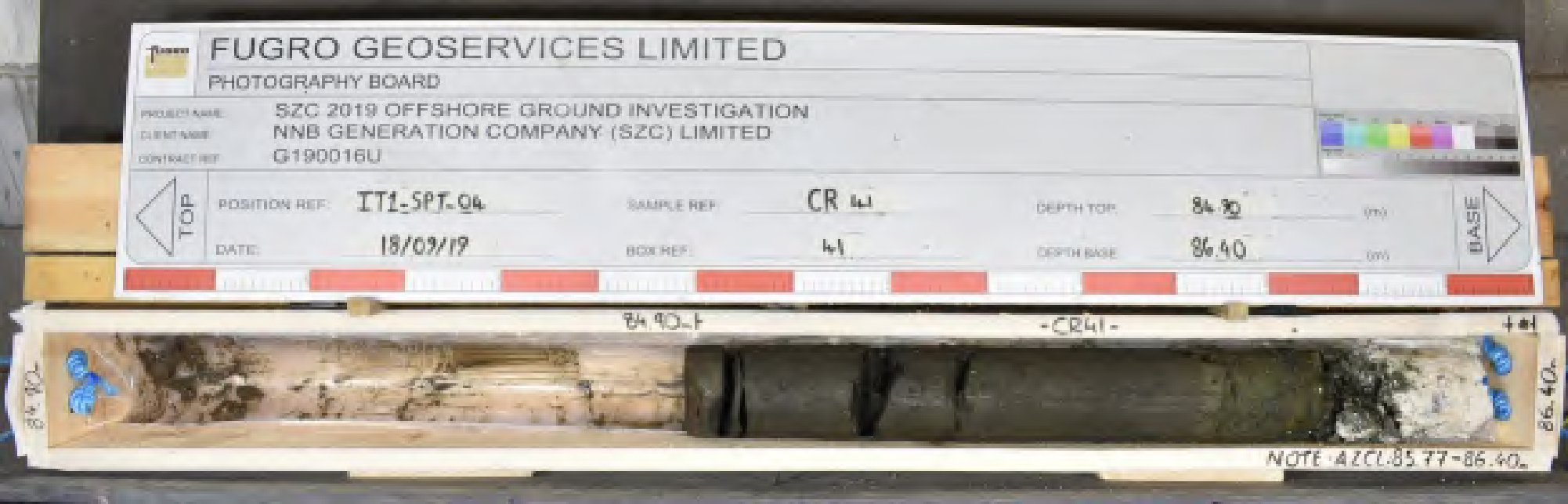
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 39
DEPTH TOP: 81.90 (m)
DATE: 20/09/19
BOX REF: 39
DEPTH BASE: 83.40 (m)
BASE
-CR39-
81.90
83.40


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF G190016U
TOP
POSITION REF IT1-SPT-04
DATE 20/09/19
SAMPLE REF CR 40
BOX REF 40
DEPTH TOP 83.40 (m)
DEPTH BASE 84.90 (m)
BASE
-CR40-
83.40
84.90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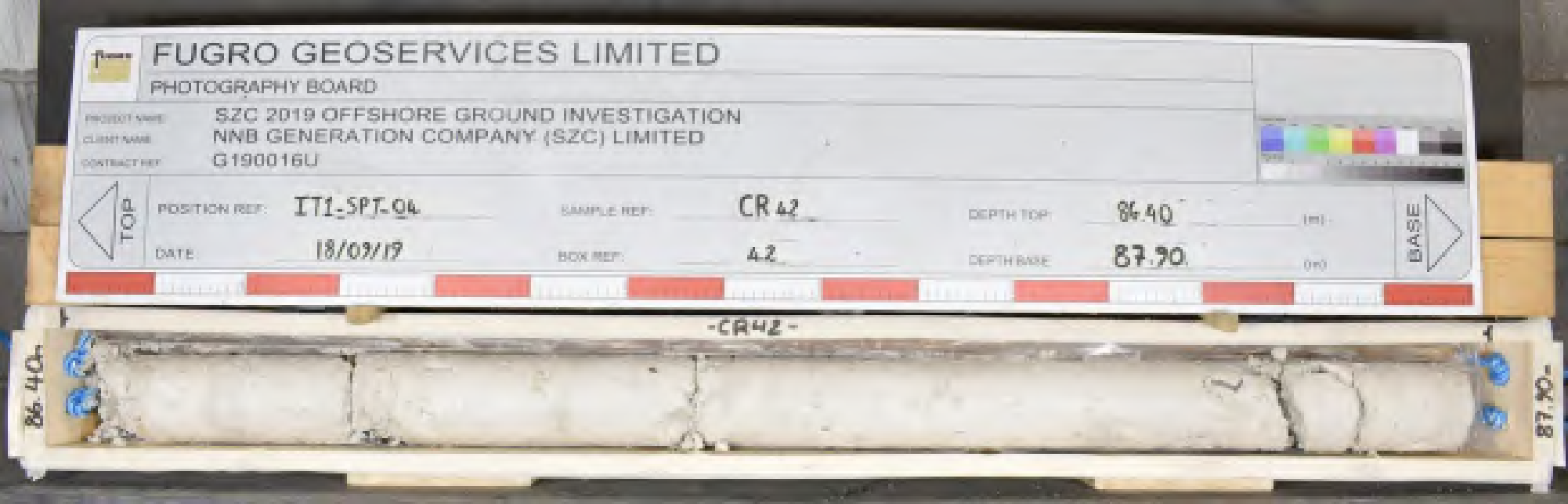
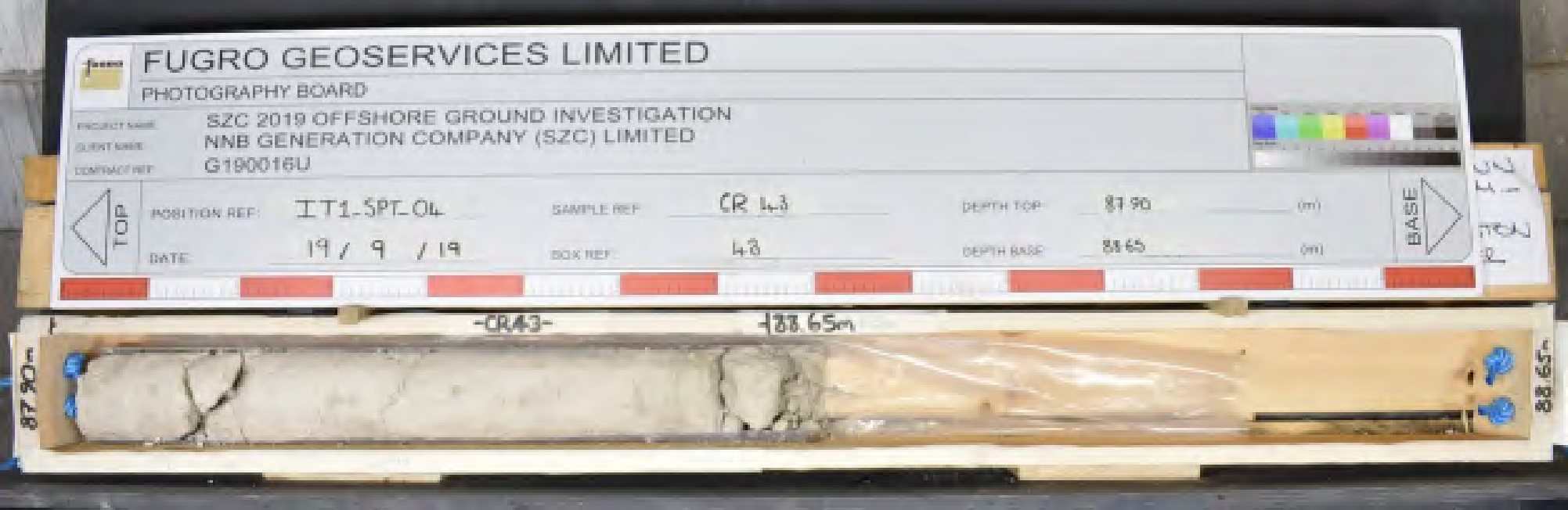
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 41
DEPTH TOP: 84.30 (m)
DATE: 18/09/19
BOX REF: 41
DEPTH BASE: 86.40 (m)
BASE
84.90-1
-CR41-
41
84.90
86.40
NOTE: AZCL 85.77-86.40.


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR42
DEPTH TOP: 86.40 (m)
DATE: 18/03/19
BOX REF: 42
DEPTH BASE: 87.90 (m)
BASE
-CR42-
86.40
87.90


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 43
DEPTH TOP: 87.90 (m)
DATE: 19 / 9 / 19
BOX REF: 43
DEPTH BASE: 88.65 (m)
BASE
-CR43-
-88.65m
87.90m
88.65m

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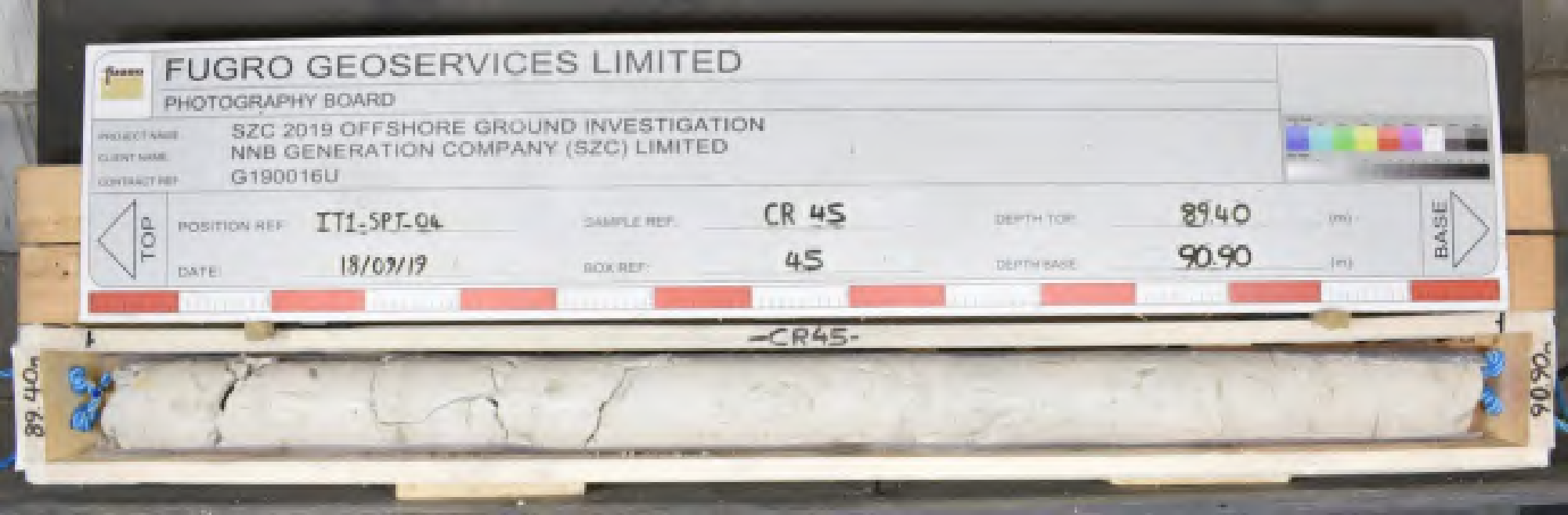
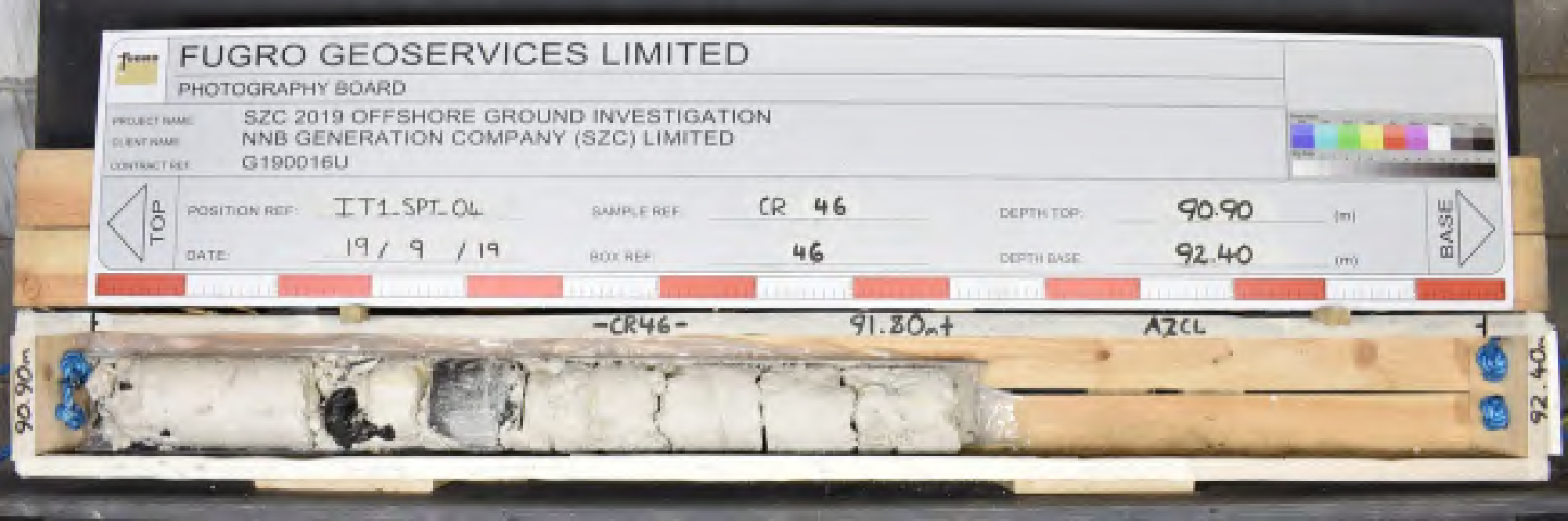
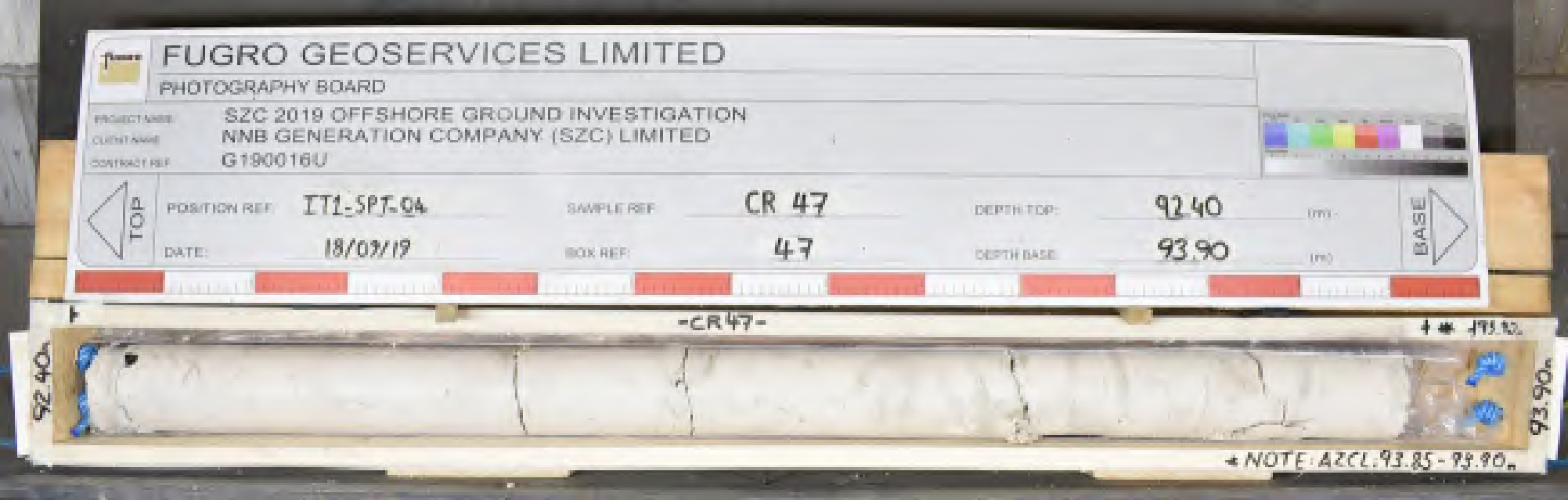
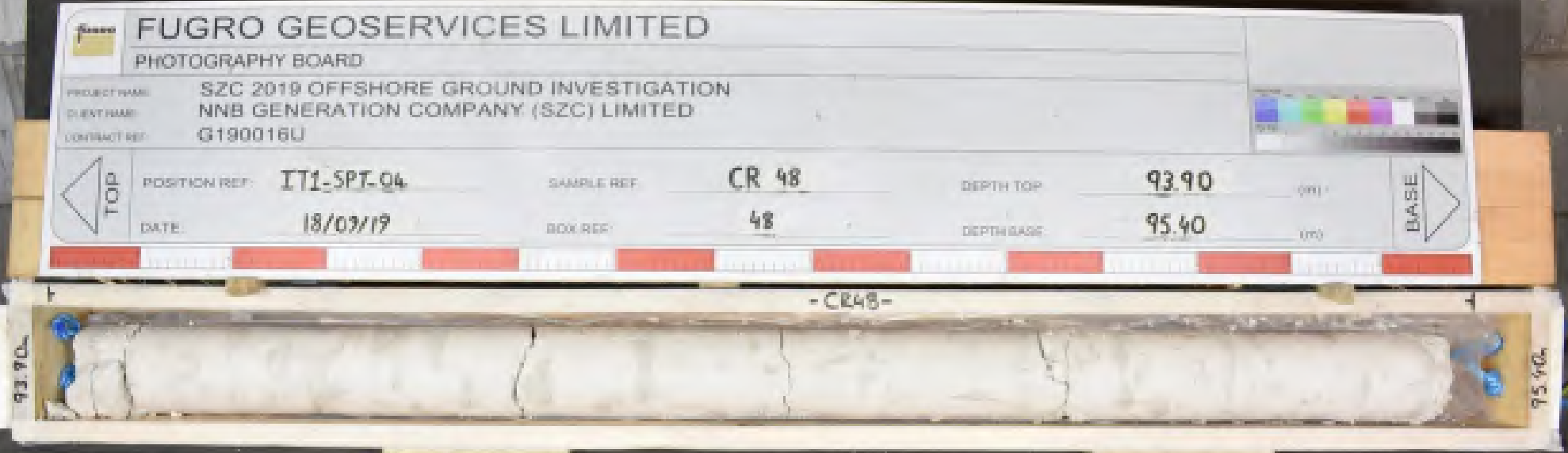
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 44
DEPTH TOP: 88.65 (m)
DATE: 18/09/19
BOX REF: 44
DEPTH BASE: 89.40 (m)
BASE
- CR44 -
88.65
89.40


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF G190016U
TOP
POSITION REF IT1-SPT-04
SAMPLE REF CR 45
DEPTH TOP 89.40 (m)
DATE 18/07/19
BOX REF 45
DEPTH BASE 90.90 (m)
BASE
-CR45-
89.40m
90.90


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SPT_04
DATE: 19 / 9 / 19
SAMPLE REF: CR 46
BOX REF: 46
DEPTH TOP: 90.90 (m)
DEPTH BASE: 92.40 (m)
BASE
-CR46-
91.30m+
AZCL
90.90m
92.40m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 47
DEPTH TOP: 92.40 (m)
DATE: 18/07/19
BOX REF: 47
DEPTH BASE: 93.90 (m)
BASE
-CR47-
92.40m
93.90m
* NOTE: AZCL. 93.85 - 93.90m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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 48
DEPTH TOP: 93.90 (m)
DATE: 18/03/19
BOX REF: 48
DEPTH BASE: 95.40 (m)
BASE
-CR48-
93.90
95.40

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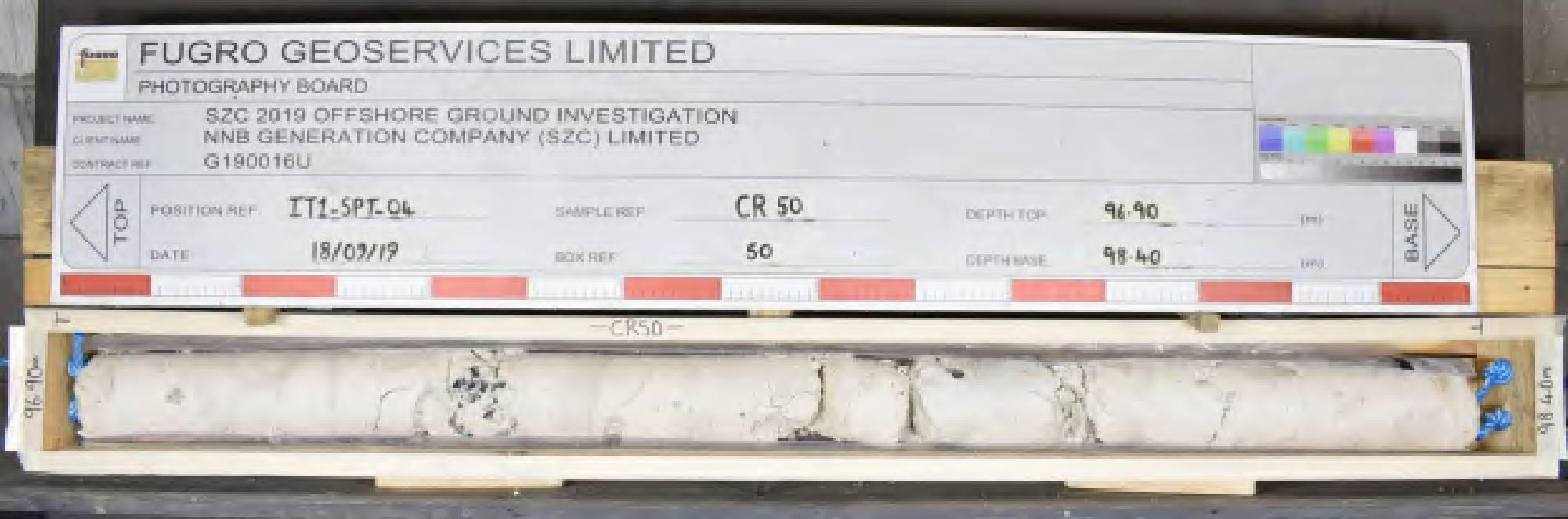
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SPT-04
DATE: 18/09/19
SAMPLE REF: CR 49
BOX REF: 49
DEPTH TOP: 95.40 (m)
DEPTH BASE: 96.90 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF G190016U
TOP
POSITION REF IT1-SPT-04
SAMPLE REF CR 50
DEPTH TOP 96.90 (m)
DATE 18/07/19
BOX REF 50
DEPTH BASE 98.40 (m)
BASE
CR50
96.90
98.40

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

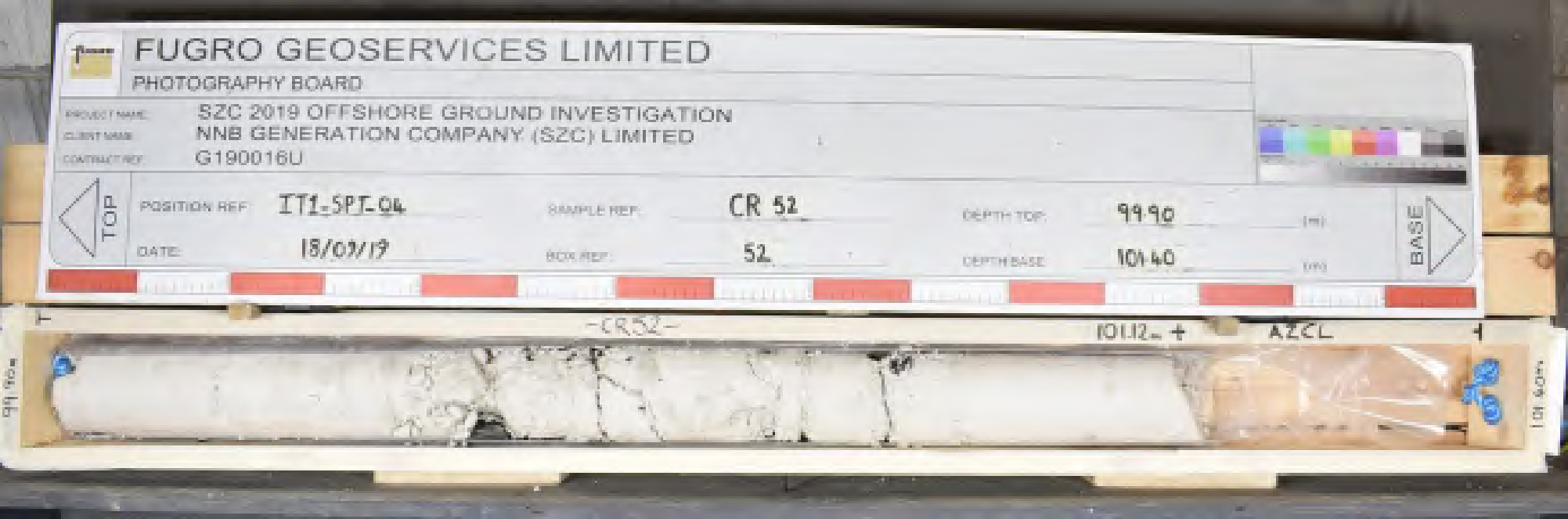
TOP

POSITION REF: IT1-SPT-04 SAMPLE REF: CR 51 DEPTH TOP: 98.40 (m)

DATE: 18/09/19 BOX REF: 51 DEPTH BASE: 99.90 (m)

BASE

* NOTE AZCL. 99.85 - 99.90m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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 52
DEPTH TOP: 9990 (m)
DATE: 18/07/19
BOX REF: 52
DEPTH BASE: 10140 (m)
BASE
-CR52-
10112 +
AZCL
9990
10140

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SPT-04
SAMPLE REF: 53
DEPTH TOP: 101.40 (m)

DATE: 18/09/19
BOX REF: 53
DEPTH BASE: 102.90 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT1-SPT-04 SAMPLE REF: CR54 DEPTH TOP: 102.90 (m)

DATE: 18/07/19 BOX REF: 54 DEPTH BASE: 104.40 (m)

BASE

-CR54-

104.35-104.40*

102.90m

104.40m

* NOTE: AZCL: 104.35 - 104.40.

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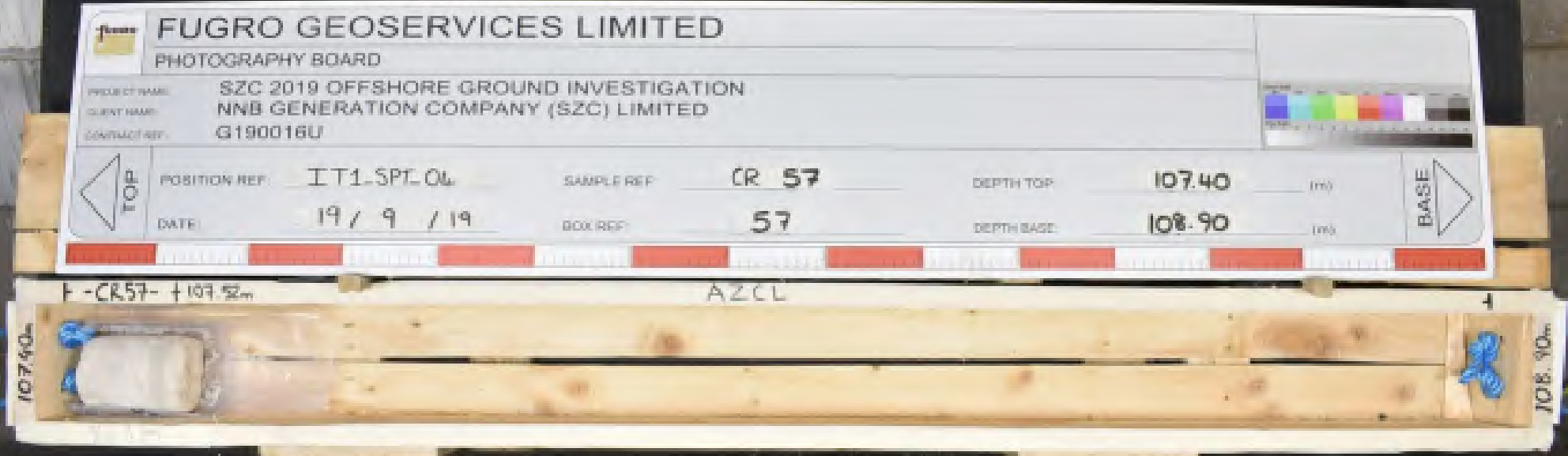
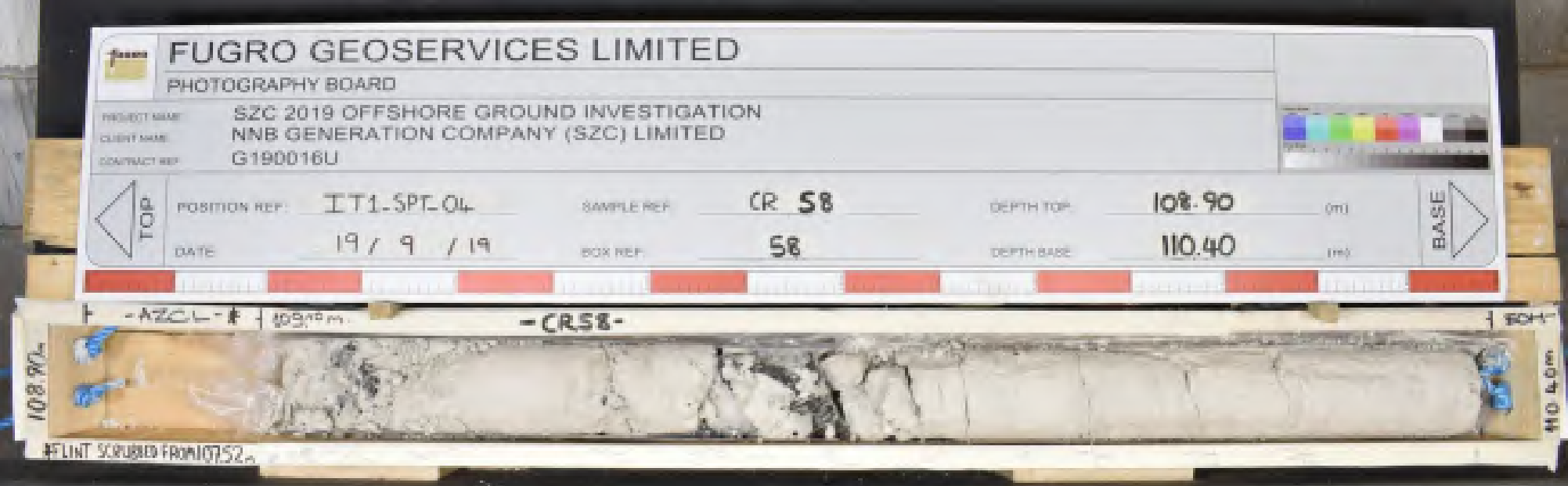
PHOTOGRAPHY BOARD
PROJECT NAME SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF. G190016U
TOP
POSITION REF IT1-SPT-04
SAMPLE REF CR55
DEPTH TOP 104.40 (m)
DATE 18/09/19
BOX REF. 55
DEPTH BASE 105.90 (m)
BASE
-CR55-
105.80m AZCL
104.40m
105.90m

FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT NO: G190016U
TOP
POSITION REF: IT1-SPT-04
DATE: 18/09/19
SAMPLE REF: CR 56
BOX REF: 56
DEPTH TOP: 105.90 (m)
DEPTH BASE: 107.40 (m)
BASE
-CR56-
107.32 + AZCL +
105.90
107.40


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1_SPT_04
DATE: 19 / 9 / 19
SAMPLE REF: CR 57
BOX REF: 57
DEPTH TOP: 107.40 (m)
DEPTH BASE: 108.90 (m)
BASE
F - CR57 - 107.52m
AZCL
107.40m
108.90m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT1-SPT-04
SAMPLE REF: CR 58
DEPTH TOP: 108.90 (m)
DATE: 19 / 9 / 19
BOX REF: 58
DEPTH BASE: 110.40 (m)
BASE
-AZCL-* 108.90m
-CR58-
110.40m
108.90
110.40
*FLINT SCRUBBED FROM 107.52m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB-01
SAMPLE REF: CR1
DEPTH TOP: 0.00 (m)

DATE: 10/08/19
BOX REF: 1
DEPTH BASE: 1.50 (m)

BASE

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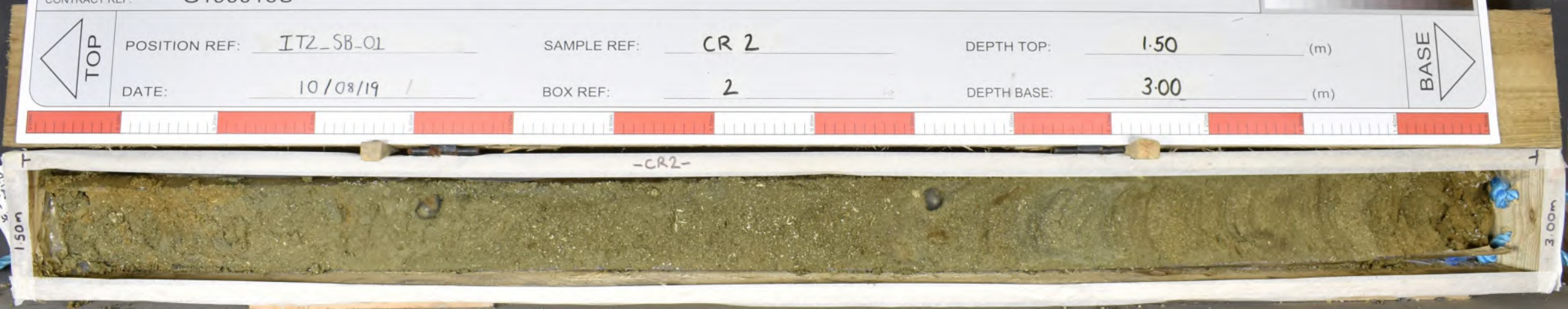
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: ITZ_SB_01
SAMPLE REF: CR 2
DEPTH TOP: 1.50 (m)
DATE: 10/08/19
BOX REF: 2
DEPTH BASE: 3.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01
SAMPLE REF: CR 3
DEPTH TOP: 3·00 (m)
DATE: 10/08/19
BOX REF: 3
DEPTH BASE: 4·50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01
SAMPLE REF: CR 4
DEPTH TOP: 4.50 (m)

DATE: 10/08/19
BOX REF: 4
DEPTH BASE: 6.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01
SAMPLE REF: CR 5
DEPTH TOP: 6.00 (m)

DATE: 10/08/19
BOX REF: 5
DEPTH BASE: 7.50 (m)

BASE

P70

T -CR5- T

6.00

7.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01
SAMPLE REF: CR 6
DEPTH TOP: 7.50 (m)

DATE: 10/08/19
BOX REF: 6
DEPTH BASE: 9.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01

SAMPLE REF: CR 7

DEPTH TOP: 9.00 (m)

DATE: 10/08/19

BOX REF: 7

DEPTH BASE: 10.50 (m)

BASE

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PHOTOGRAPHY BOARD

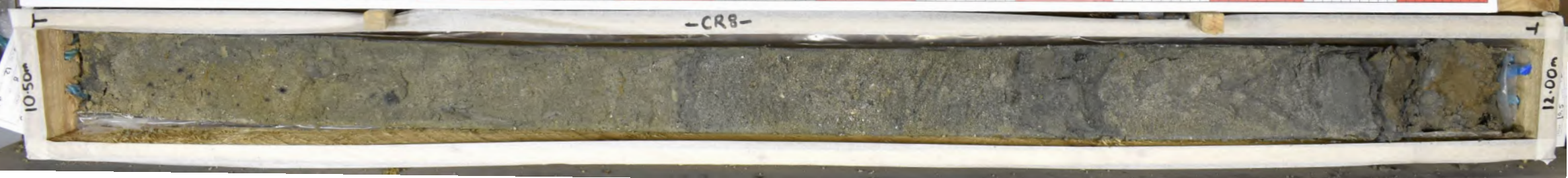
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB-01
SAMPLE REF: CR 8
DEPTH TOP: 10.50 (m)

DATE: 10/08/19
BOX REF: 8
DEPTH BASE: 12.00 (m)

BASE



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PHOTOGRAPHY BOARD

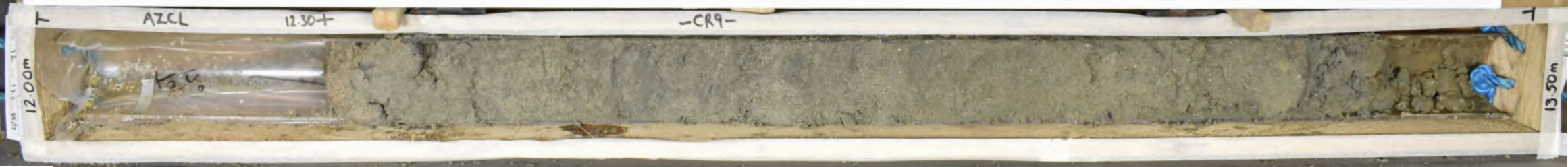
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01
SAMPLE REF: CR 9
DEPTH TOP: 12.00 (m)

DATE: 10/08/19
BOX REF: 9
DEPTH BASE: 13.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB-01
SAMPLE REF: CR 10
DEPTH TOP: 13.50 (m)
DATE: 10/08/19
BOX REF: 10
DEPTH BASE: 15.00 (m)

BASE

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PHOTOGRAPHY BOARD

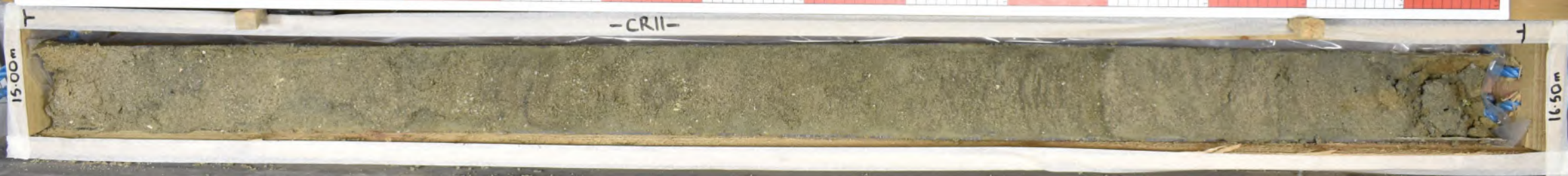
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB-01
SAMPLE REF: CR 11
DEPTH TOP: 15.00 (m)

DATE: 10/08/19
BOX REF: 11
DEPTH BASE: 16.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01
SAMPLE REF: CR 12
DEPTH TOP: 16.50 (m)

DATE: 10/08/19
BOX REF: 12
DEPTH BASE: 18.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01
SAMPLE REF: CR 13
DEPTH TOP: 18.00 (m)

DATE: 10/08/19
BOX REF: 13
DEPTH BASE: 19.50 (m)

BASE

18.20

T

— CR13 —

+19.35m AZCL 1

18.00m

19.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB-01
SAMPLE REF: CR 14
DEPTH TOP: 19.50 (m)
DATE: 10/08/19
BOX REF: 14
DEPTH BASE: 21.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01
SAMPLE REF: CR 15
DEPTH TOP: 21.00 (m)

DATE: 10/08/19
BOX REF: 15
DEPTH BASE: 22.50 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01
SAMPLE REF: CR 16
DEPTH TOP: 22.50 (m)

DATE: 10/08/19
BOX REF: 16
DEPTH BASE: 24.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01

SAMPLE REF: CR 17

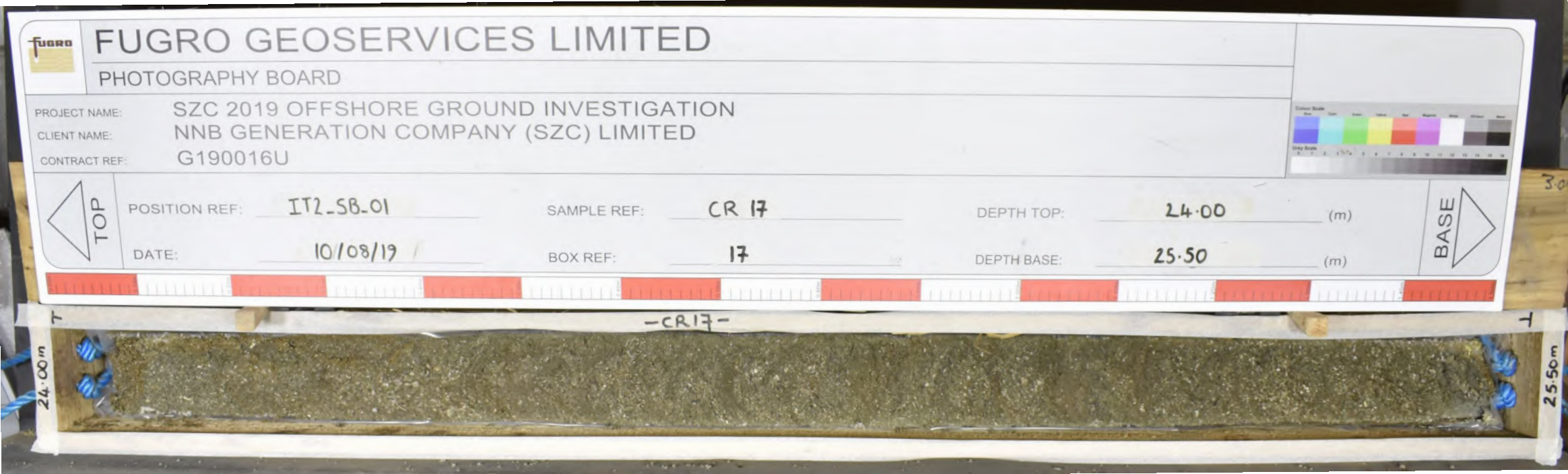
DEPTH TOP: 24.00 (m)

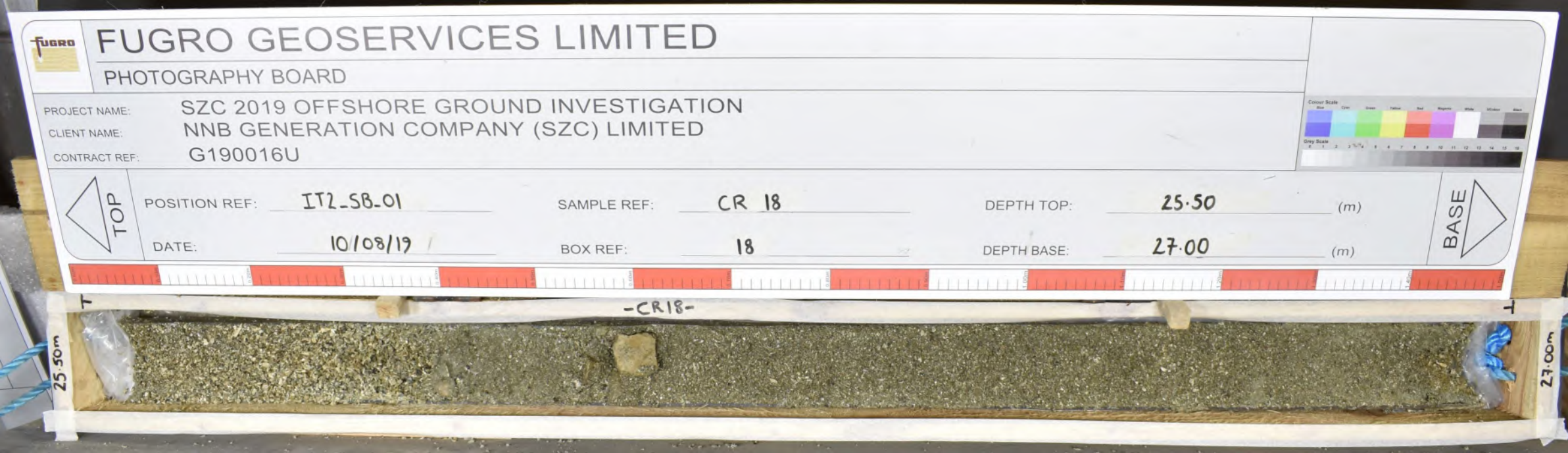
DATE: 10/08/19

BOX REF: 17

DEPTH BASE: 25.50 (m)

BASE




FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_SB-01
SAMPLE REF: CR 18
DEPTH TOP: 25.50 (m)
DATE: 10/08/19
BOX REF: 18
DEPTH BASE: 27.00 (m)
BASE
-CR18-
25.50m
27.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01
SAMPLE REF: CR 19
DEPTH TOP: 27.00 (m)
DATE: 10/08/19
BOX REF: 19
DEPTH BASE: 28.50 (m)

BASE

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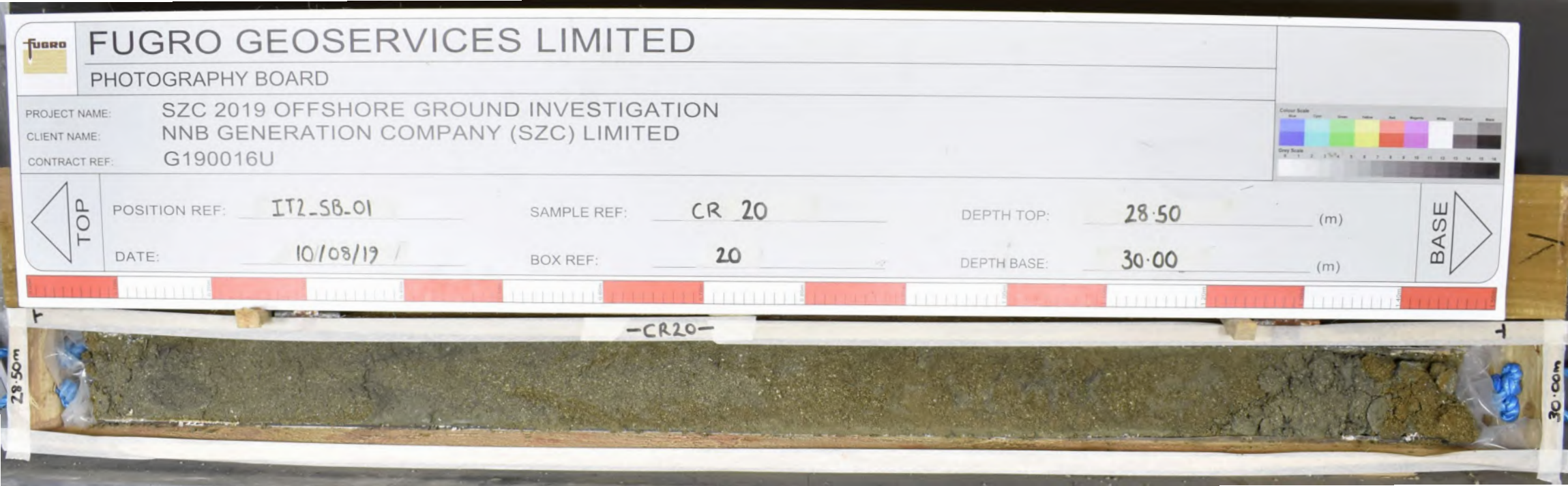
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01
SAMPLE REF: CR 20
DEPTH TOP: 28·50 (m)
DATE: 10/08/19
BOX REF: 20
DEPTH BASE: 30·00 (m)

BASE



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PHOTOGRAPHY BOARD

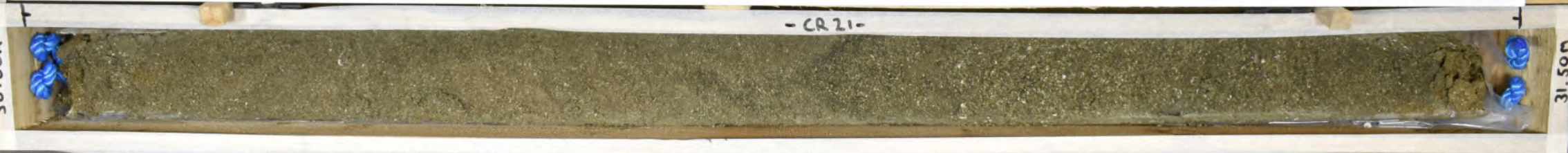
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB-01
SAMPLE REF: CR 21
DEPTH TOP: 30.00 (m)

DATE: 10/08/19
BOX REF: 21
DEPTH BASE: 31.50 (m)

BASE



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PHOTOGRAPHY BOARD

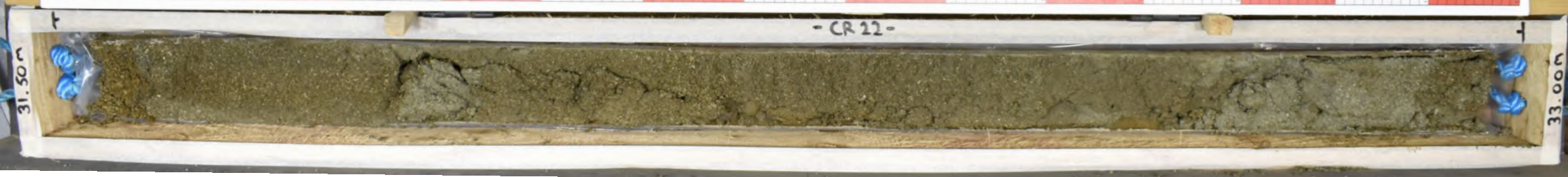
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

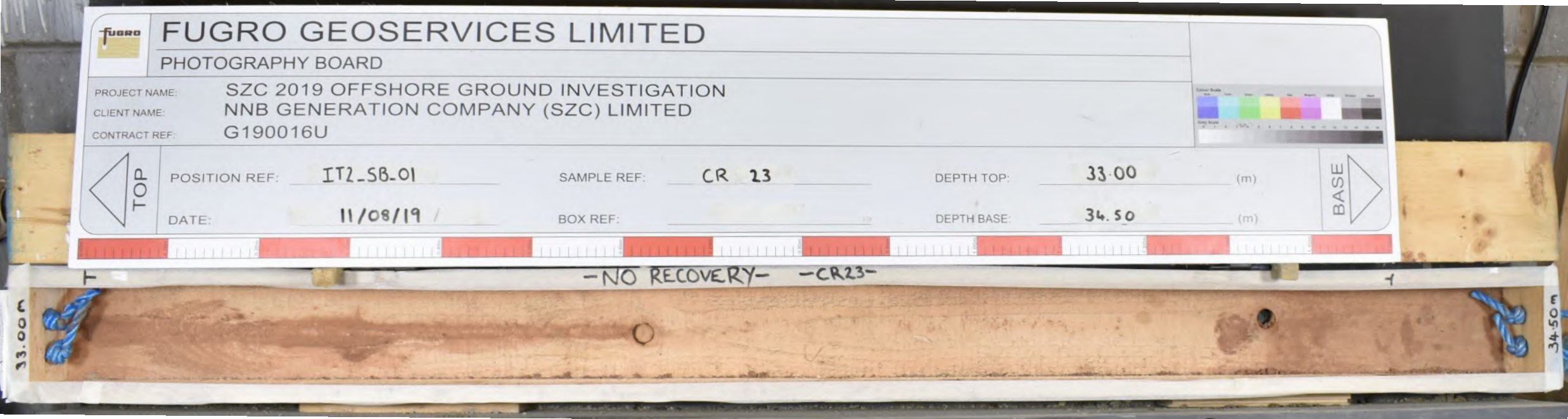
TOP

POSITION REF: IT2_SB_01
SAMPLE REF: CR 22
DEPTH TOP: 31.50 (m)

DATE: 11/08/19
BOX REF: 22
DEPTH BASE: 33.00 (m)

BASE




FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_SB-01
SAMPLE REF: CR 23
DEPTH TOP: 33.00 (m)
DATE: 11/08/19
BOX REF:
DEPTH BASE: 34.50 (m)
BASE
-NO RECOVERY- -CR23-
33.00m
34.50m

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PHOTOGRAPHY BOARD

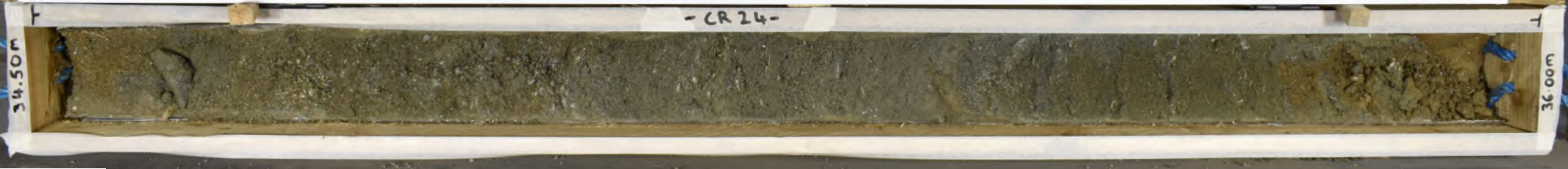
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01
SAMPLE REF: CR 24
DEPTH TOP: 34.50 (m)

DATE: 11/08/19
BOX REF: 23
DEPTH BASE: 36.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01
SAMPLE REF: CR 25
DEPTH TOP: 36.00 (m)

DATE: 11/08/19
BOX REF: 24
DEPTH BASE: 37.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01
SAMPLE REF: CR 26
DEPTH TOP: 37.50 (m)

DATE: 11/08/19
BOX REF: 25
DEPTH BASE: 39.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB-01
SAMPLE REF: CR 27
DEPTH TOP: 39.00 (m)
DATE: 11/08/19
BOX REF: 26
DEPTH BASE: 40.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01
SAMPLE REF: CR 28
DEPTH TOP: 40.50 (m)

DATE: 11/08/19
BOX REF: 27
DEPTH BASE: 42.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01
SAMPLE REF: CR 28
DEPTH TOP: 40.50 (m)

DATE: 21/10/19
BOX REF: 27
DEPTH BASE: 42.00 (m)

BASE

-CR28-

40.50m

41.70 C9 Density + Att. 42.00

42.00m

41.70m C9: BULK DENSITY + ATTERBERG

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB-01
SAMPLE REF: CR 29
DEPTH TOP: 42.00 (m)
DATE: 11/08/19
BOX REF: 28
DEPTH BASE: 43.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01
SAMPLE REF: CR 29
DEPTH TOP: 42.00 (m)
DATE: 21/10/19
BOX REF: 28
DEPTH BASE: 43.50 (m)

BASE

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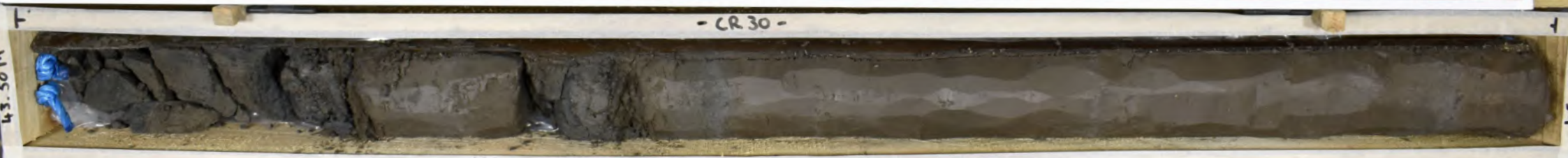
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01
SAMPLE REF: CR 30
DEPTH TOP: 43.50 (m)
DATE: 11/08/19
BOX REF: 29
DEPTH BASE: 45.00 (m)

BASE



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PHOTOGRAPHY BOARD

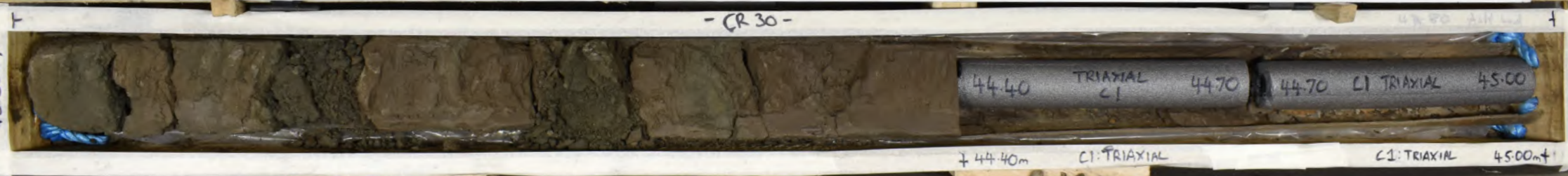
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01 SAMPLE REF: CR 30 DEPTH TOP: 43.50 (m)

DATE: 21/10/19 BOX REF: 29 DEPTH BASE: 45.00 (m)

BASE



FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01
SAMPLE REF: CR 31
DEPTH TOP: 45.00 (m)

DATE: 11/08/19
BOX REF: 30
DEPTH BASE: 46.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01
SAMPLE REF: CR 31
DEPTH TOP: 45.00 (m)
DATE: 21/10/19
BOX REF: 30
DEPTH BASE: 46.50 (m)

BASE

-CR 31-

45.00m

46.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB-01
SAMPLE REF: CR 32
DEPTH TOP: 46.50 (m)

DATE: 11/08/19
BOX REF: 31
DEPTH BASE: 48.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01
SAMPLE REF: CR 32
DEPTH TOP: 46.50 (m)
DATE: 21/10/19
BOX REF: 31
DEPTH BASE: 48.00 (m)

BASE

- CR 32 -

46.50m

48.00m

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PHOTOGRAPHY BOARD

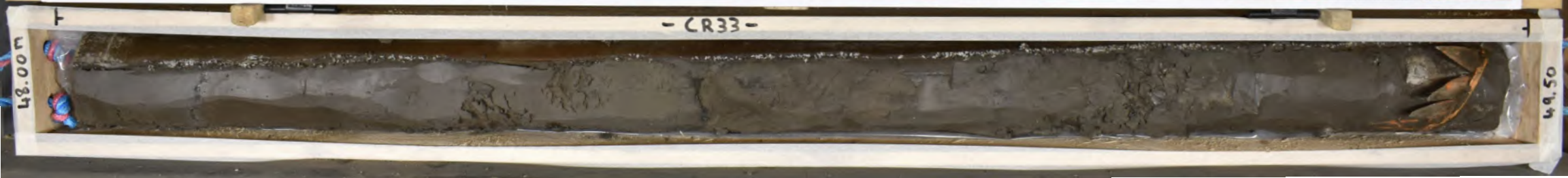
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01
SAMPLE REF: CR 33
DEPTH TOP: 48.00 (m)

DATE: 11/08/19
BOX REF: 32
DEPTH BASE: 49.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01

SAMPLE REF: CR 33

DEPTH TOP: 48.00 (m)

DATE: 21/10/19

BOX REF: 32

DEPTH BASE: 49.50 (m)

BASE

- CR33 -

48.00m

49.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB-01
SAMPLE REF: CR 34
DEPTH TOP: 49.50 (m)

DATE: 11/08/19
BOX REF: 33
DEPTH BASE: 51.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01
SAMPLE REF: CR 34
DEPTH TOP: 49.50 (m)

DATE: 21/10/19
BOX REF: 33
DEPTH BASE: 51.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01
SAMPLE REF: CR 35
DEPTH TOP: 51.00 (m)

DATE: 11/08/19
BOX REF: 34
DEPTH BASE: 52.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_01
SAMPLE REF: CR 35
DEPTH TOP: 51.00 (m)

DATE: 21/10/19
BOX REF: 34
DEPTH BASE: 52.50 (m)

BASE

—CR35—

51.00m

52.50m

51.00m C2 51.28m
triaxial

51.00m C2: TRIAXIAL 51.28m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB-01
SAMPLE REF: CR 36
DEPTH TOP: 52.50 (m)
DATE: 11/08/19
BOX REF: 35
DEPTH BASE: 54.00 (m)

BASE

FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_SB_01
SAMPLE REF: CR 36
DEPTH TOP: 52.50 (m)
DATE: 21/10/19
BOX REF: 35
DEPTH BASE: 54.00 (m)
BASE
T
– CR36 –
EOH
52.50m
54.00m

Appendix F – Ground Investigation Factual Reports

Off-shore Phase 2 Ground Investigation for Sizewell 2019/2020

CONTINUED

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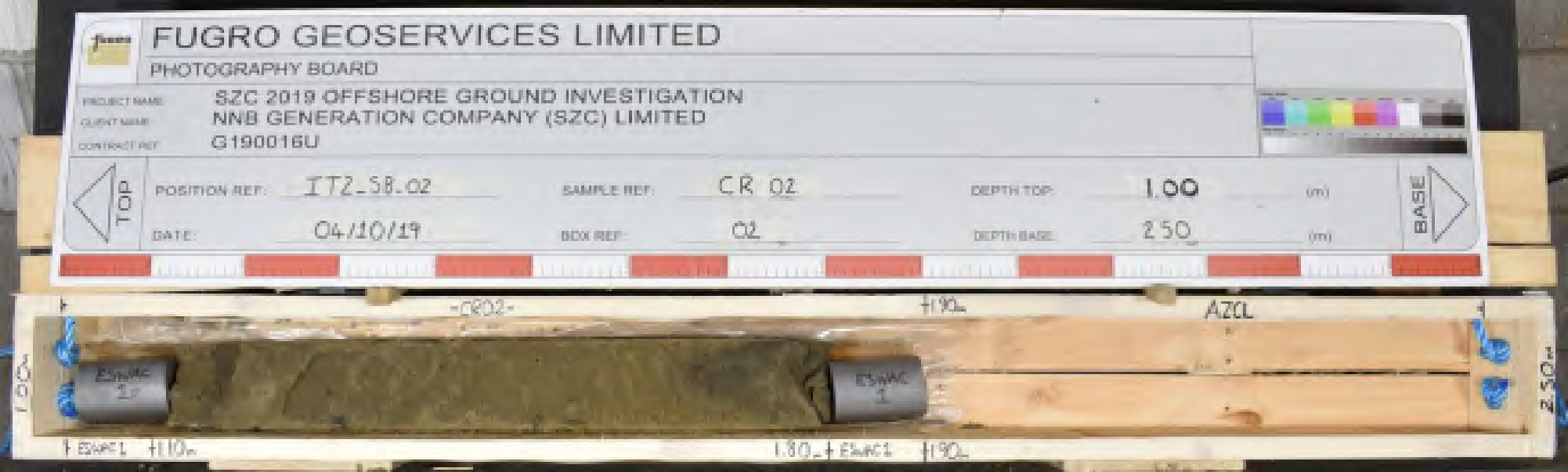
PHOTOGRAPHY BOARD

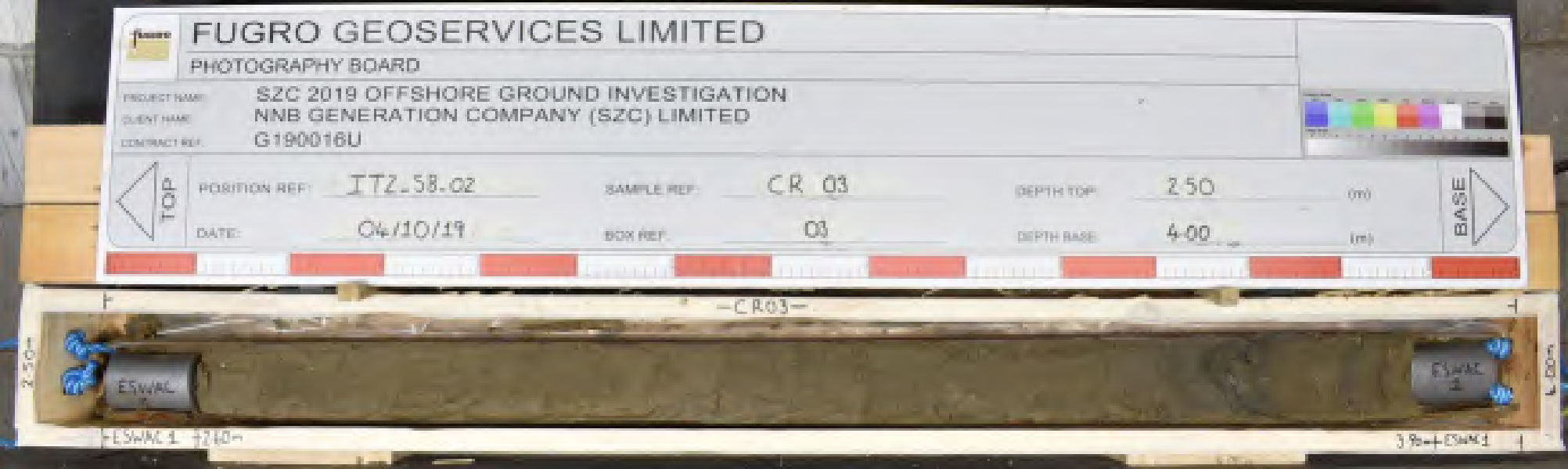
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

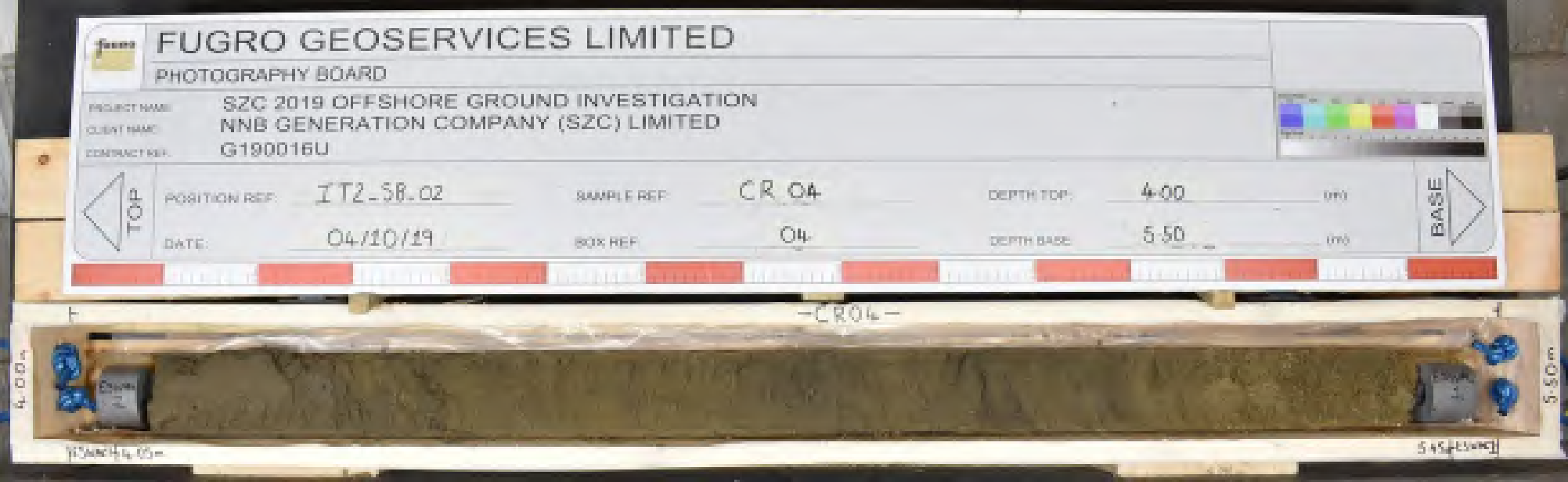
TOP

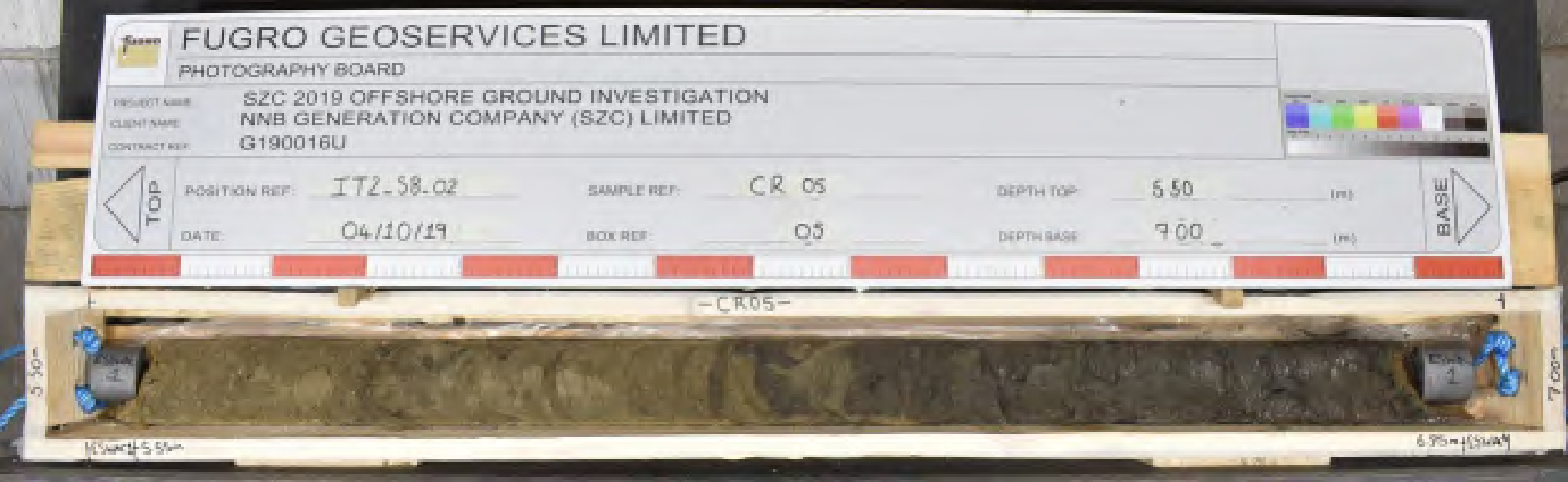
POSITION REF: IT2-SB-02
SAMPLE REF: CR 01
DEPTH TOP: 0.00 (m)
DATE: 04/10/19
BOX REF: 01
DEPTH BASE: 1.00 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_SB.02
SAMPLE REF: CR 02
DEPTH TOP: 1.00 (m)
DATE: 04/10/19
BOX REF: 02
DEPTH BASE: 2.50 (m)
BASE
-CR02-
+190
AZCL
ESVAC 1
ESVAC 1
1.50m
2.50m
+ESVAC1 +110
1.80 + ESVAC1 +190


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: ITZ.58.02
SAMPLE REF: CR 03
DEPTH TOP: 2.50 (m)
DATE: 04/10/19
BOX REF: 03
DEPTH BASE: 4.00 (m)
BASE
-CR03-
2.50
ESWAC 1
4.00


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_SB.02
SAMPLE REF: CR 04
DEPTH TOP: 4.00 (m)
DATE: 04/10/19
BOX REF: 04
DEPTH BASE: 5.50 (m)
BASE
-CR04-
4.00m
5.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: ITZ-58-02
SAMPLE REF: CR 05
DEPTH TOP: 5.50 (m)
DATE: 04/10/19
BOX REF: 05
DEPTH BASE: 7.00 (m)
BASE
-CR05-
5.50m
7.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2.58-02
SAMPLE REF: CR 06
DEPTH TOP: 7.00 (m)

DATE: 04/10/19
BOX REF: 06
DEPTH BASE: 8.50 (m)

BASE

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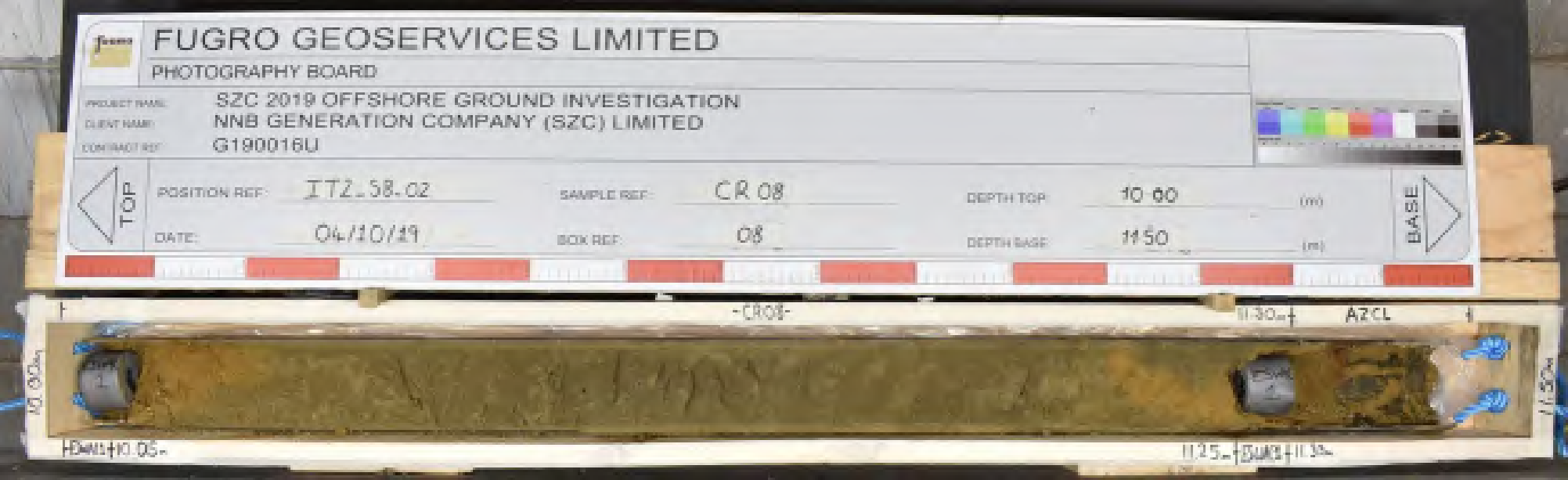
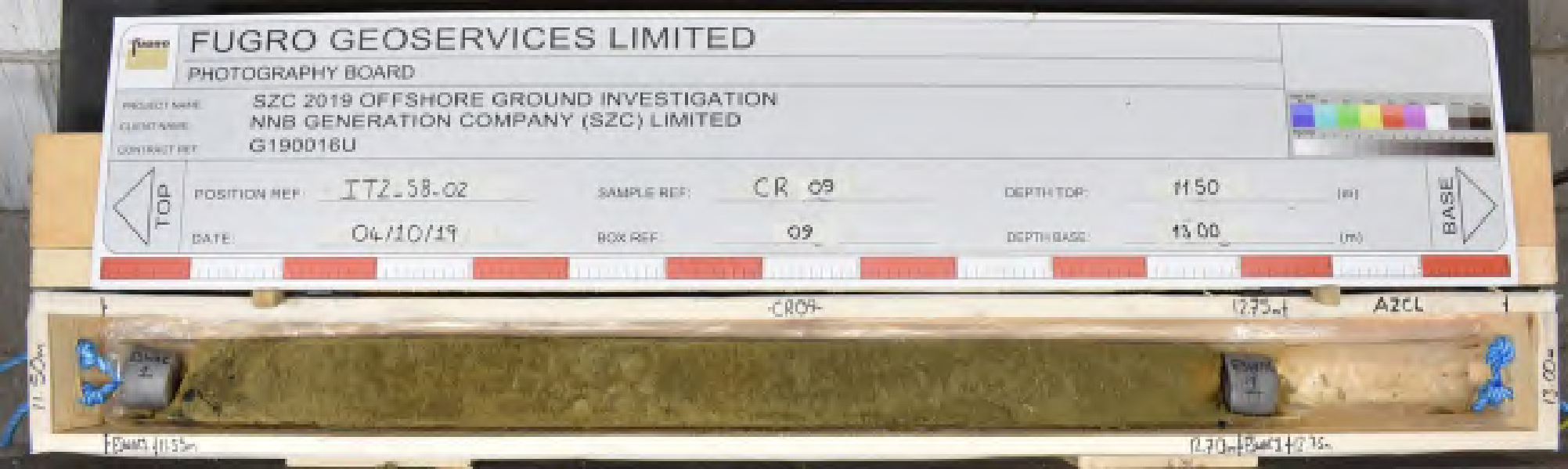
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2.58-02
SAMPLE REF: CR 07
DEPTH TOP: 8.50 (m)
DATE: 04/10/19
BOX REF: 07
DEPTH BASE: 10.00 (m)
BASE
-CR07-
8.50m
10.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: ITZ_58.02
SAMPLE REF: CR 08
DEPTH TOP: 10 60 (m)
DATE: 04/10/19
BOX REF: 08
DEPTH BASE: 1150 (m)
BASE
-CROS-
AZCL
HDANS+10.05-
11.25-
BASE+11.30-


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: ITZ-58-02
SAMPLE REF: CR 09
DEPTH TOP: 11.50 (m)
DATE: 04/10/19
BOX REF: 09
DEPTH BASE: 13.00 (m)
BASE
-CR09-
12.75m
AZCL
Base 1
Base 1
11.50m
12.70m
Base 1 12.75m

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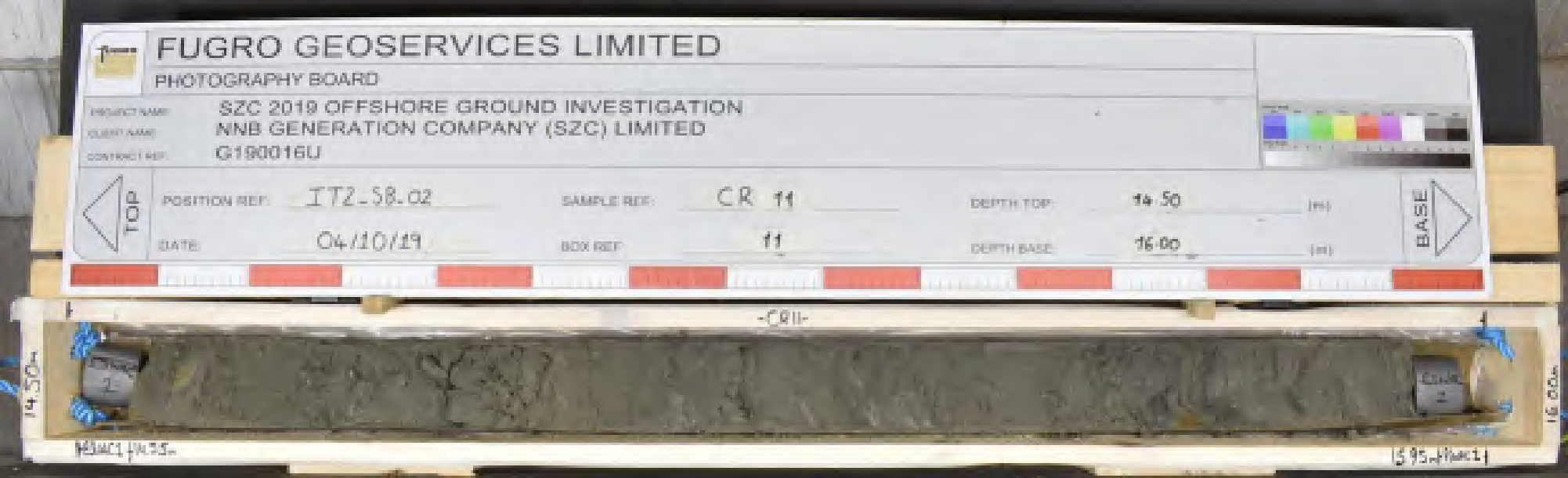
PHOTOGRAPHY BOARD

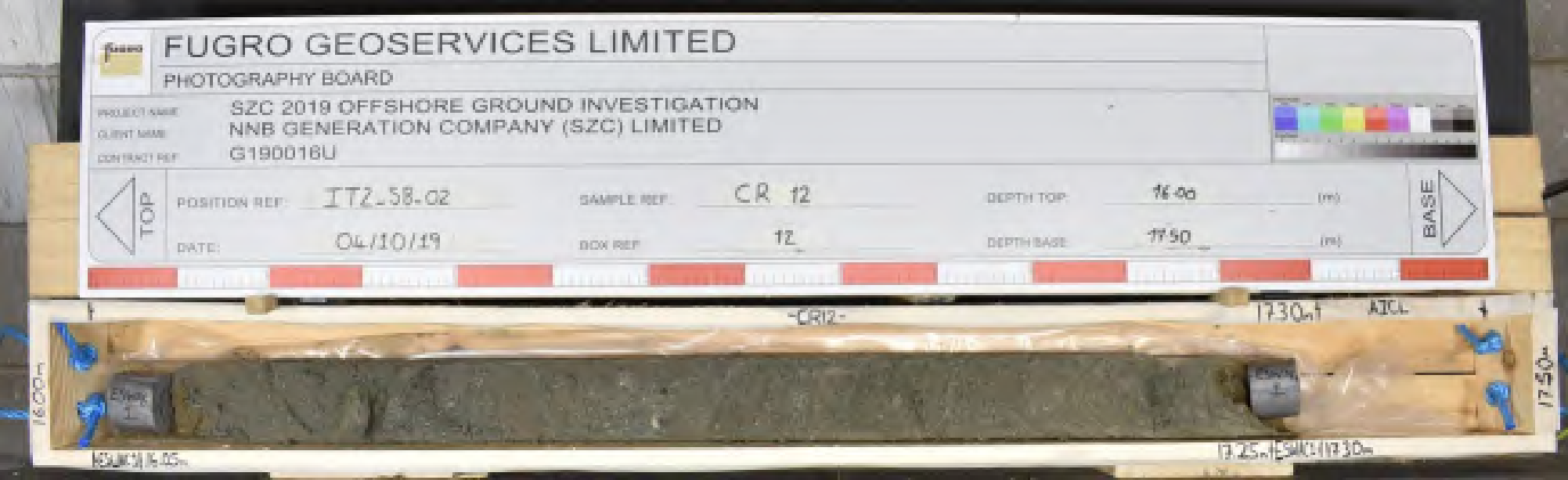
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

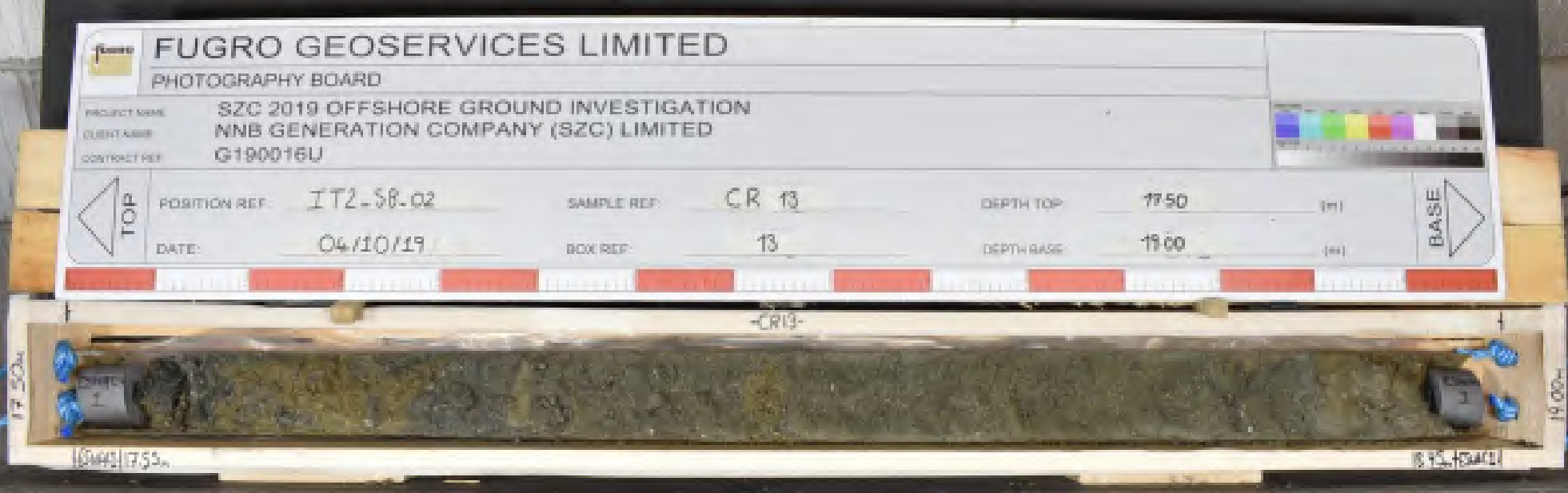
TOP

POSITION REF: ITZ_58.02
DATE: 04/10/19
SAMPLE REF: CR 10
BOX REF: 10
DEPTH TOP: 13.00 (m)
DEPTH BASE: 14.50 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: C190016U
TOP
POSITION REF: ITZ-SB.02
SAMPLE REF: CR 11
DEPTH TOP: 14.50 (m)
DATE: 04/10/19
BOX REF: 11
DEPTH BASE: 16.00 (m)
BASE
-CR11-
14.50m
16.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_58.02
SAMPLE REF: CR 12
DEPTH TOP: 16.00 (m)
DATE: 04/10/19
BOX REF: 12
DEPTH BASE: 17.50 (m)
BASE
-CR12-
17.30m
AICL
16.00m
17.50m
17.25m
17.30m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2-SB-02
SAMPLE REF: CR 13
DEPTH TOP: 17.50 (m)
DATE: 04/10/19
BOX REF: 13
DEPTH BASE: 19.00 (m)
BASE
-CR13-
17.50m
19.00m

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PHOTOGRAPHY BOARD

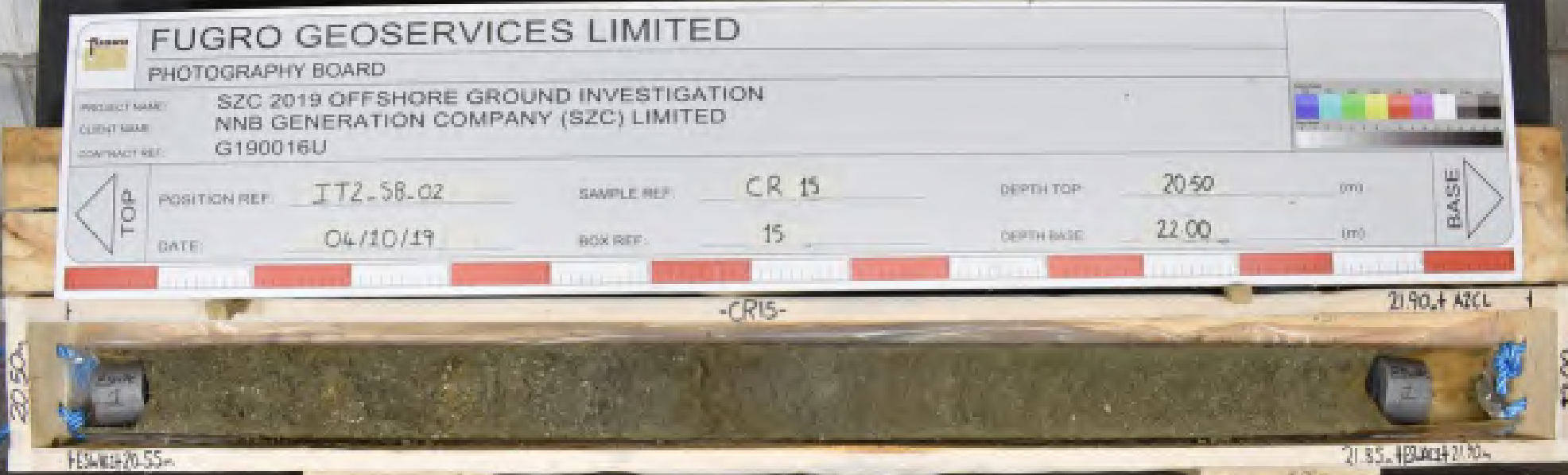
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

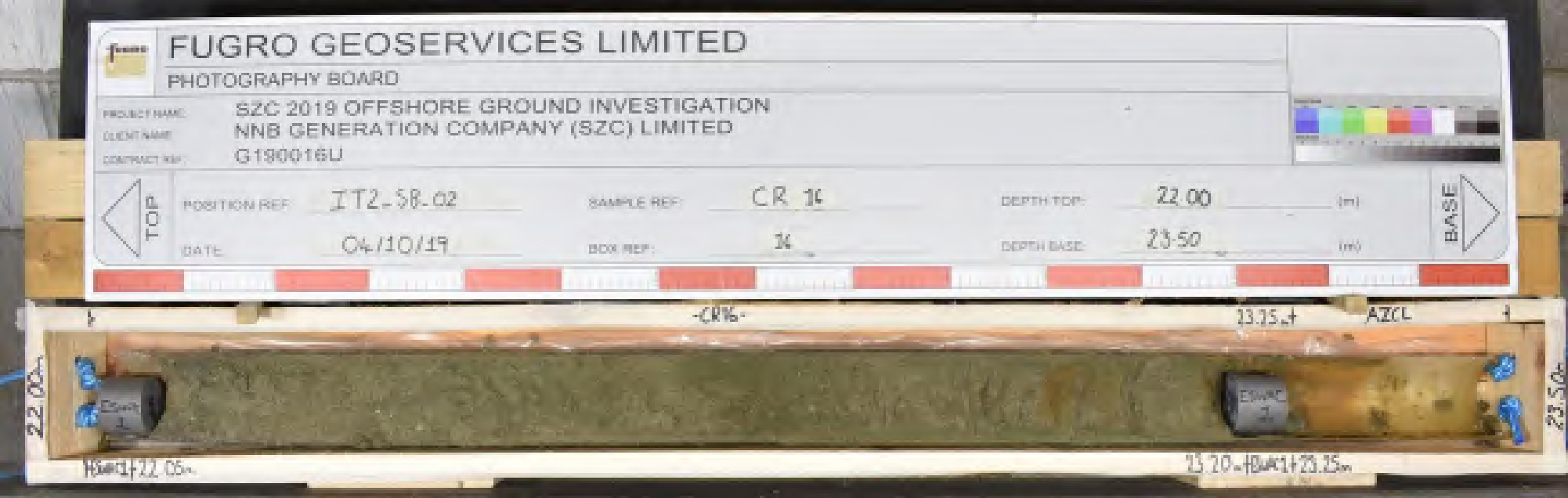
TOP

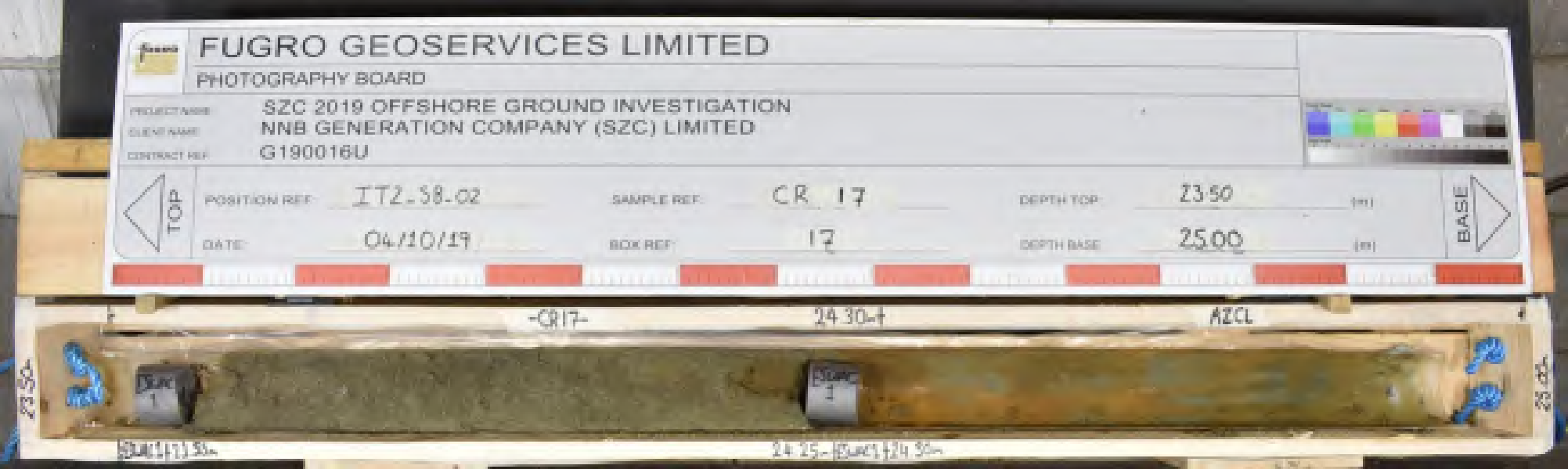
POSITION REF: IT2-58.02 SAMPLE REF: CR 14 DEPTH TOP: 19.00 (m)

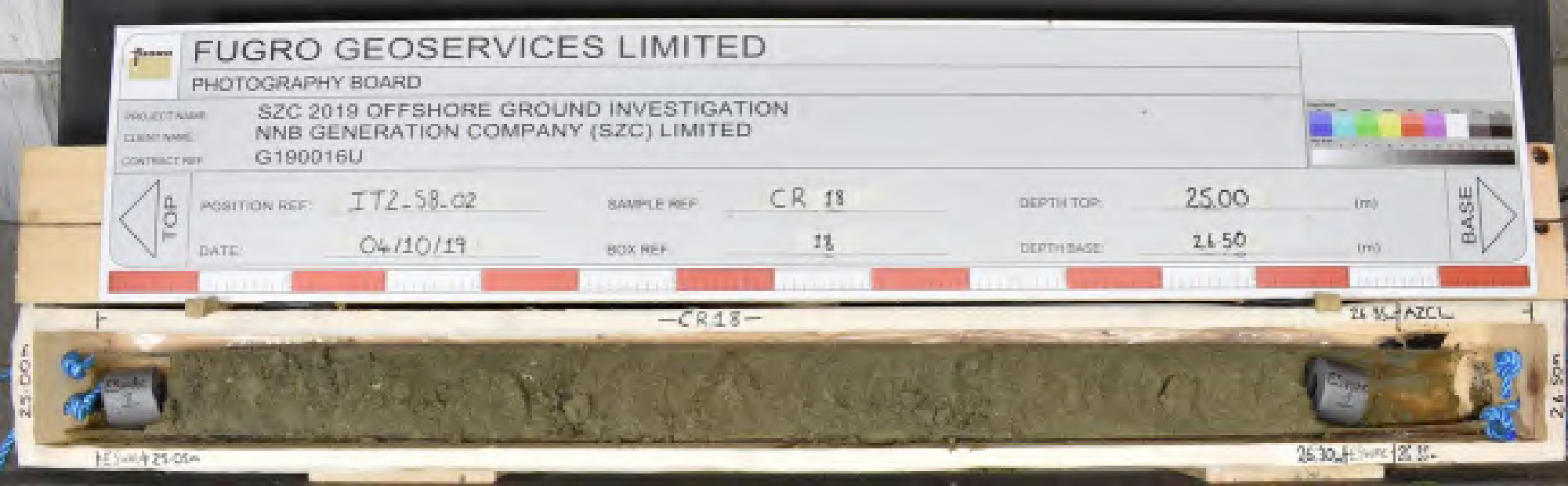
DATE: 04/10/19 BOX REF: 14 DEPTH BASE: 20.60 (m)

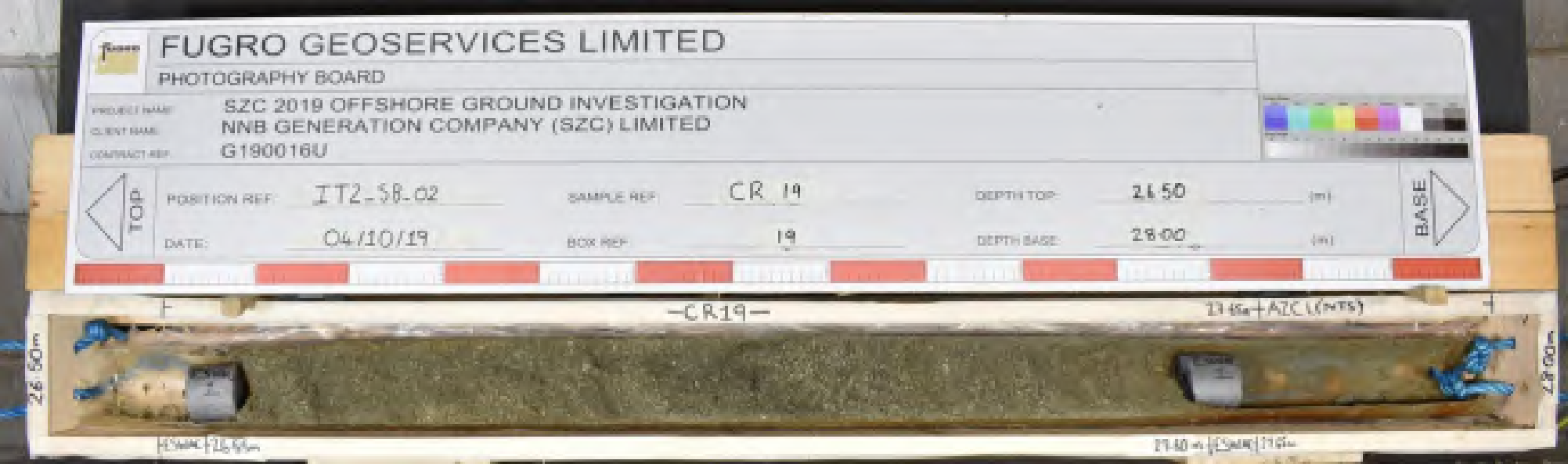
BASE

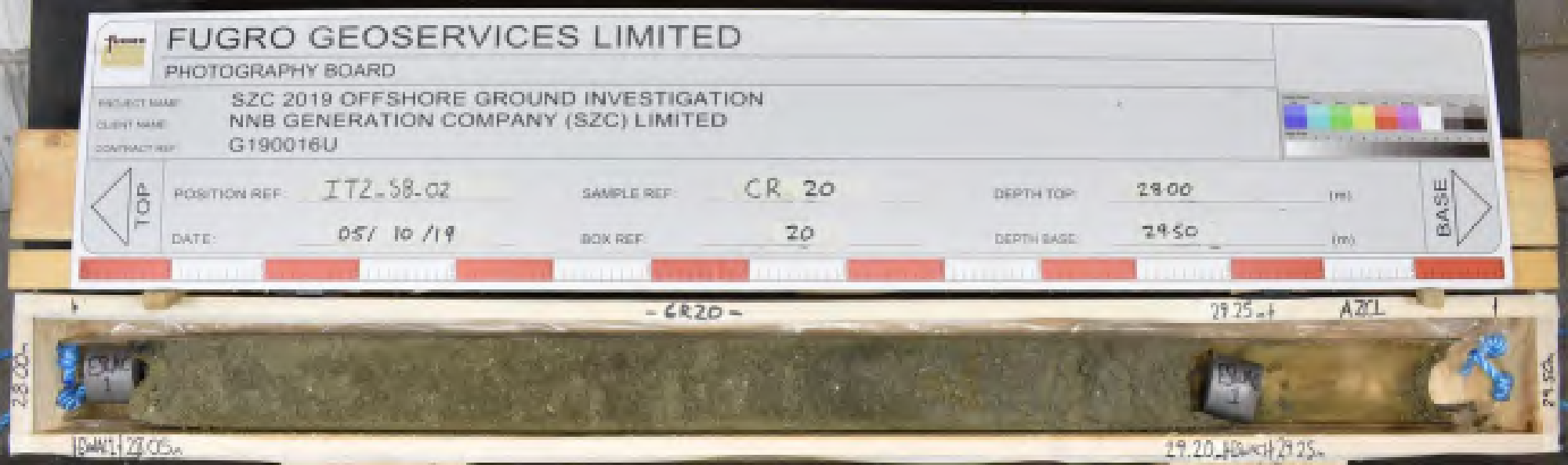

FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2-SB-02
DATE: 04/10/19
SAMPLE REF: CR 15
BOX REF: 15
DEPTH TOP: 20.50 (m)
DEPTH BASE: 22.00 (m)
BASE
-CR15-
20.50
22.00

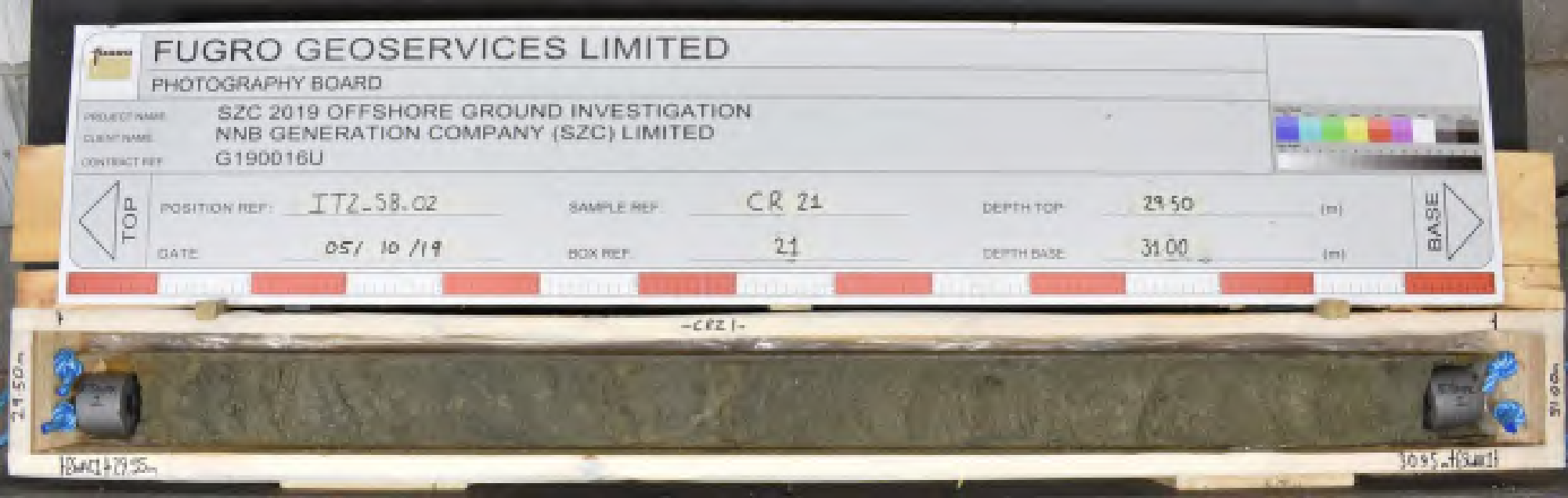

FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2-58-02
SAMPLE REF: CR 16
DEPTH TOP: 22.00 (m)
DATE: 04/10/19
BOX REF: 16
DEPTH BASE: 23.50 (m)
BASE
-CR16-
23.15m
AZCL
22.00m
23.50m
HBack 22.05m
23.20m HBack 23.25m

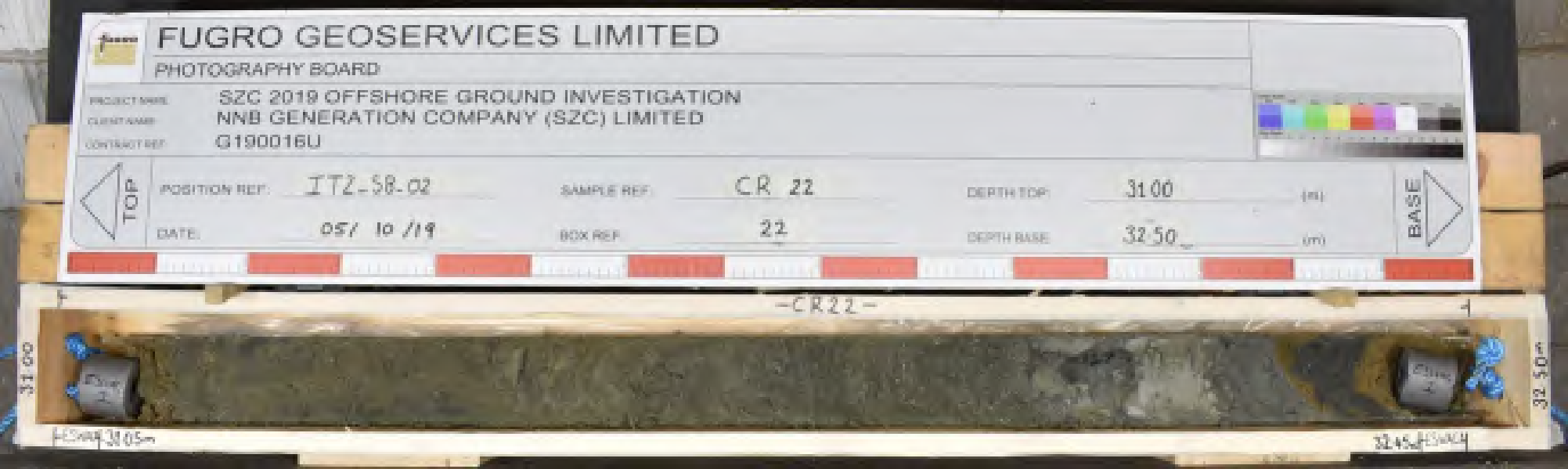

FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF G190016U
TOP
POSITION REF IT2-S8-02
SAMPLE REF CR 17
DEPTH TOP 23.50 (m)
DATE 04/10/19
BOX REF 17
DEPTH BASE 25.00 (m)
BASE
-CR17-
24.30-t
AZCL
23.50
25.00
24.25-(SOLE) 24.30m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2-58-02
SAMPLE REF: CR 18
DEPTH TOP: 25.00 (m)
DATE: 04/10/19
BOX REF: 1&
DEPTH BASE: 26.50 (m)
BASE
CR18
AZCL
25.00m
26.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2-SB-02
SAMPLE REF: CR 19
DEPTH TOP: 26.50 (m)
DATE: 04/10/19
BOX REF: 19
DEPTH BASE: 28.00 (m)
BASE
-CR19-
26.50m
28.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2-SB-02
SAMPLE REF: CR 20
DEPTH TOP: 28.00 (m)
DATE: 05/ 10 /19
BOX REF: 20
DEPTH BASE: 29.50 (m)
BASE
- CR20 -
29.25 - A2CL
28.00
29.50
CORE 1
CORE 1
29.20 Mudrock 29.25


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF G190016U
TOP
POSITION REF: IT2_58.02
SAMPLE REF: CR 21
DEPTH TOP: 29.50 (m)
DATE: 05/ 10 /19
BOX REF: 21
DEPTH BASE: 31.00 (m)
BASE
-CRZ1-
29.50m
31.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: ITZ-SB-02
SAMPLE REF: CR 22
DEPTH TOP: 31.00 (m)
DATE: 05/ 10 /19
BOX REF: 22
DEPTH BASE: 32.50 (m)
BASE
-CR22-
31.00
32.50
32.45 BESWICK

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: ITZ_SB-02 SAMPLE REF: CR 23 DEPTH TOP: 32.50 (m)

DATE: 05/ 10 /19 BOX REF: - DEPTH BASE: 34.00 (m)

BASE

-NO RECOVERY- -CR23-

32.50m

34.00m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_58.03
SAMPLE REF: CR 01
DEPTH TOP: 0.00 (m)
DATE: 26 / 09 / 19
BOX REF: 01
DEPTH BASE: 1.00 (m)

BASE

FUGRO GEOSERVICES LIMITED

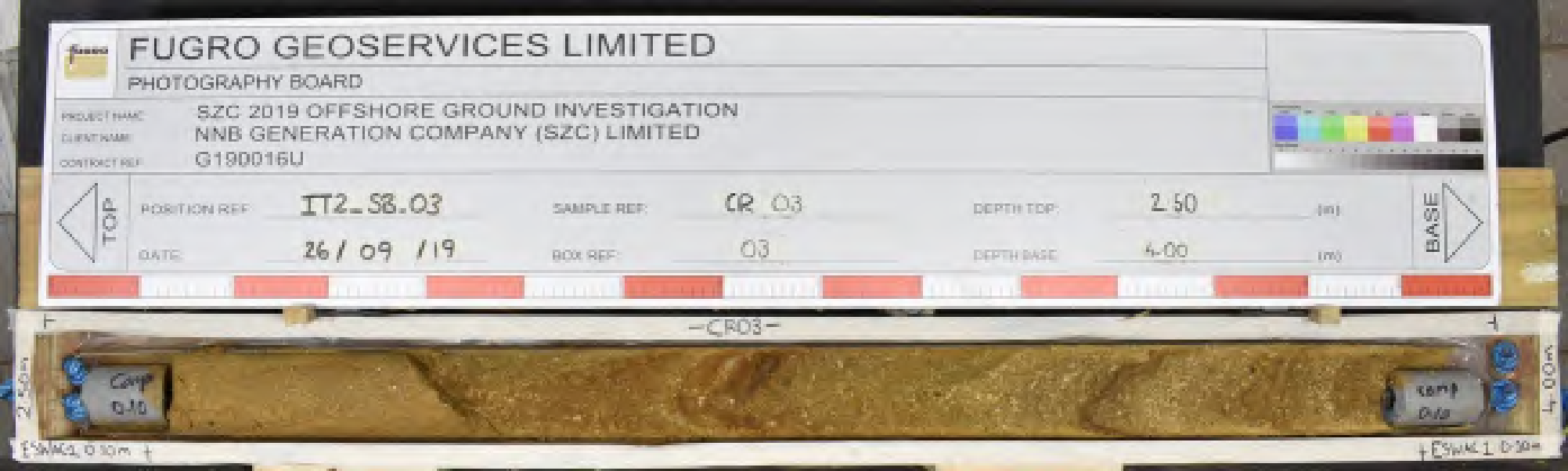
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB.03 SAMPLE REF: CR 02 DEPTH TOP: 1.00 (m)
DATE: 26 / 09 / 19 BOX REF: 02 DEPTH BASE: 2.50 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_SB.03
SAMPLE REF: CR 03
DEPTH TOP: 2.50 (m)
DATE: 26/09/19
BOX REF: 03
DEPTH BASE: 4.00 (m)
BASE
-CR03-
Core 03
Core 03
2.50m
4.00m
ESWAC1 0.10m
ESWAC1 0.10m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB.03 SAMPLE REF: CR 04 DEPTH TOP: 4.00 (m)

DATE: 25/09/19 BOX REF: 04 DEPTH BASE: 5.50 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_58.03 SAMPLE REF: CR 05 DEPTH TOP: 5.50 (m)

DATE: 25/09/19 BOX REF: 05 DEPTH BASE: 7.00 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

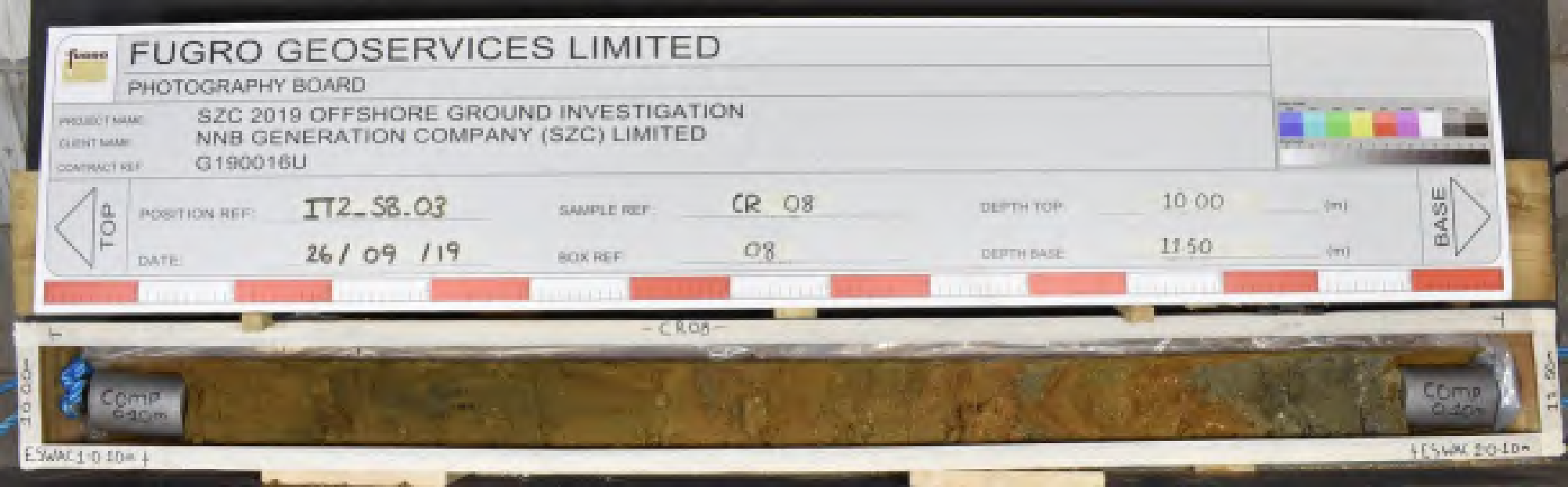
TOP

POSITION REF: IT2_58.03
SAMPLE REF: CR 07
DEPTH TOP: 8.50 (m)

DATE: 26 / 09 / 19
BOX REF: 03
DEPTH BASE: 10.00 (m)

BASE

CR07


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_58.03
DATE: 26/09/19
SAMPLE REF: CR 08
BOX REF: 08
DEPTH TOP: 10.00 (m)
DEPTH BASE: 11.50 (m)
BASE
CR 08
Comp 0.40m
Comp 0.40m
ESWAC 10.10m
ESWAC 10.10m

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PHOTOGRAPHY BOARD

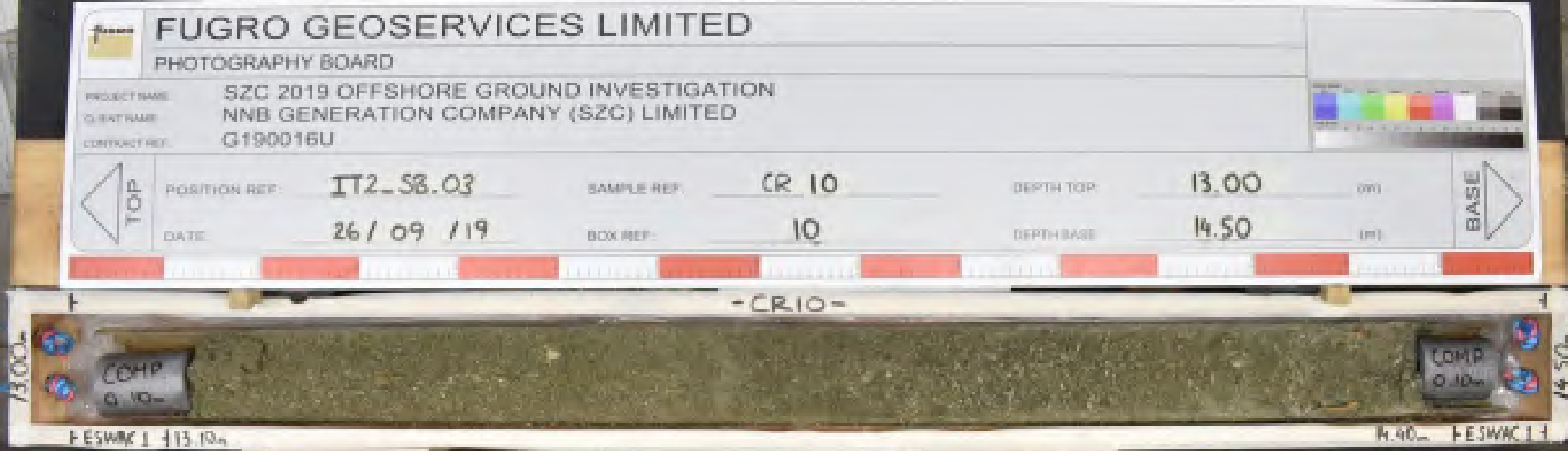
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

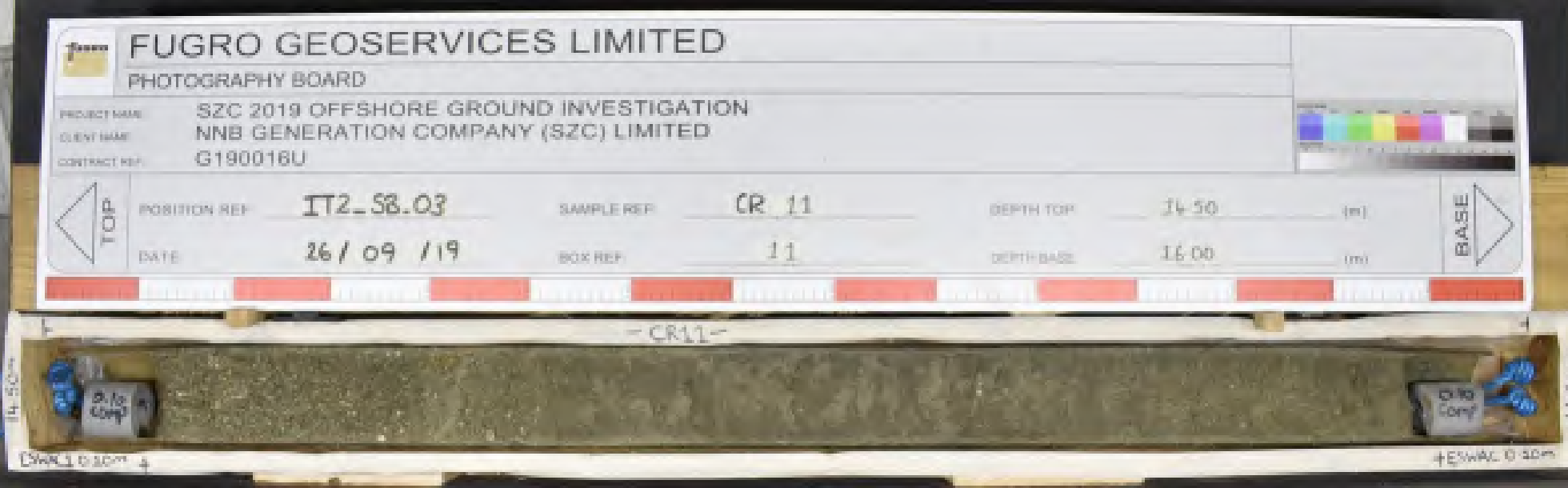
TOP

POSITION REF: IT2_58.03 SAMPLE REF: CR 09 DEPTH TOP: 11.50 (m)

DATE: 26 / 09 / 19 BOX REF: 09 DEPTH BASE: 13.00 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_58.03
DATE: 26/09/19
SAMPLE REF: CR 10
BOX REF: 10
DEPTH TOP: 13.00 (m)
DEPTH BASE: 14.50 (m)
BASE
-CR10-
COMP
0.10m
COMP
0.10m
13.00m
14.50m
PESWAC 1 @ 13.10m
14.40m PESWAC 1 1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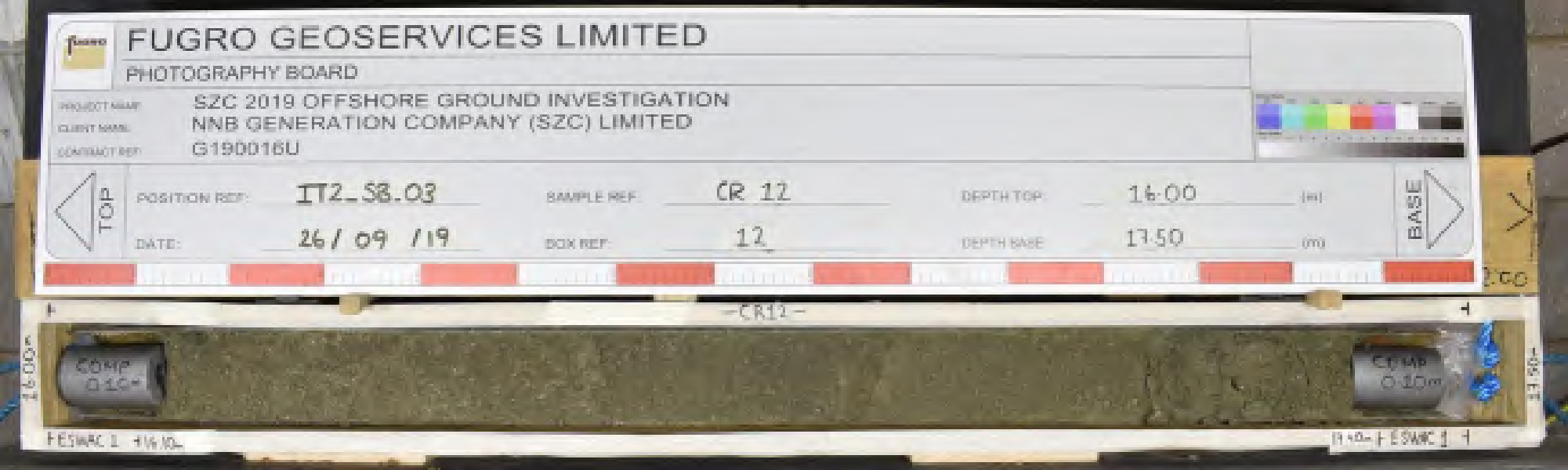
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_58.03
SAMPLE REF: CR 11
DEPTH TOP: 14.50 (m)
DATE: 26/09/19
BOX REF: 11
DEPTH BASE: 16.00 (m)
BASE
-CR11-
14.50m
16.00m
CWAC 0.10m
CWAC 0.10m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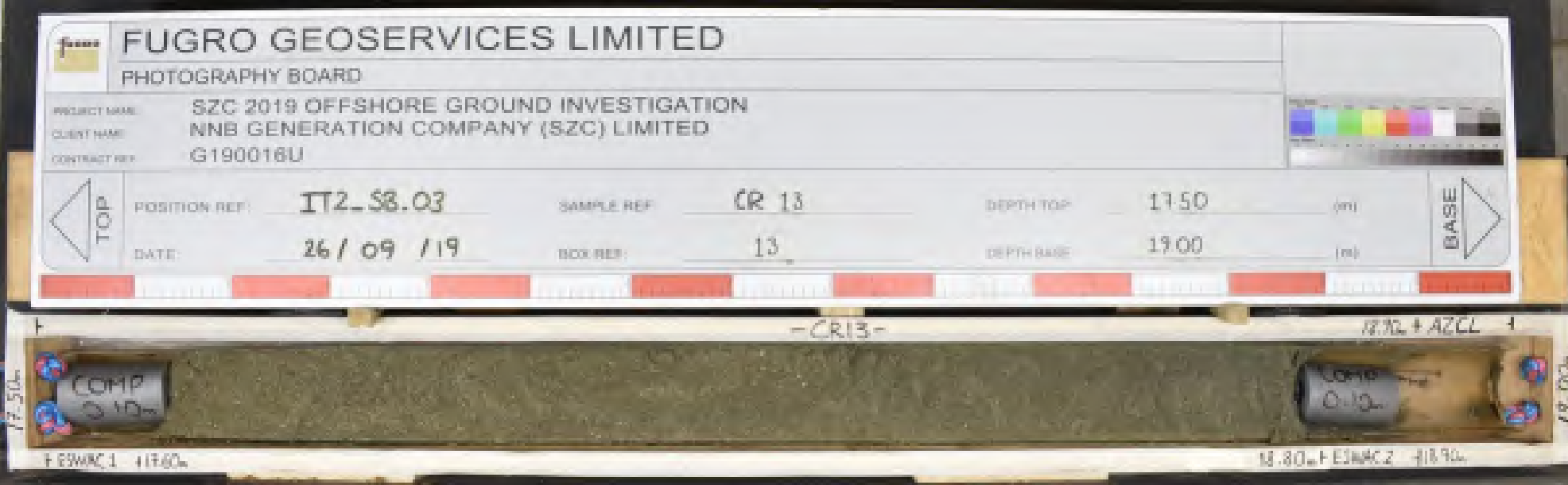
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_SB.03
SAMPLE REF: CR 12
DEPTH TOP: 16.00 (m)
DATE: 26/09/19
BOX REF: 12
DEPTH BASE: 17.50 (m)
BASE
-CR12-
COMP 0.10m
COMP 0.10m
16.00m
17.50m
ESWAC 1
ESWAC 1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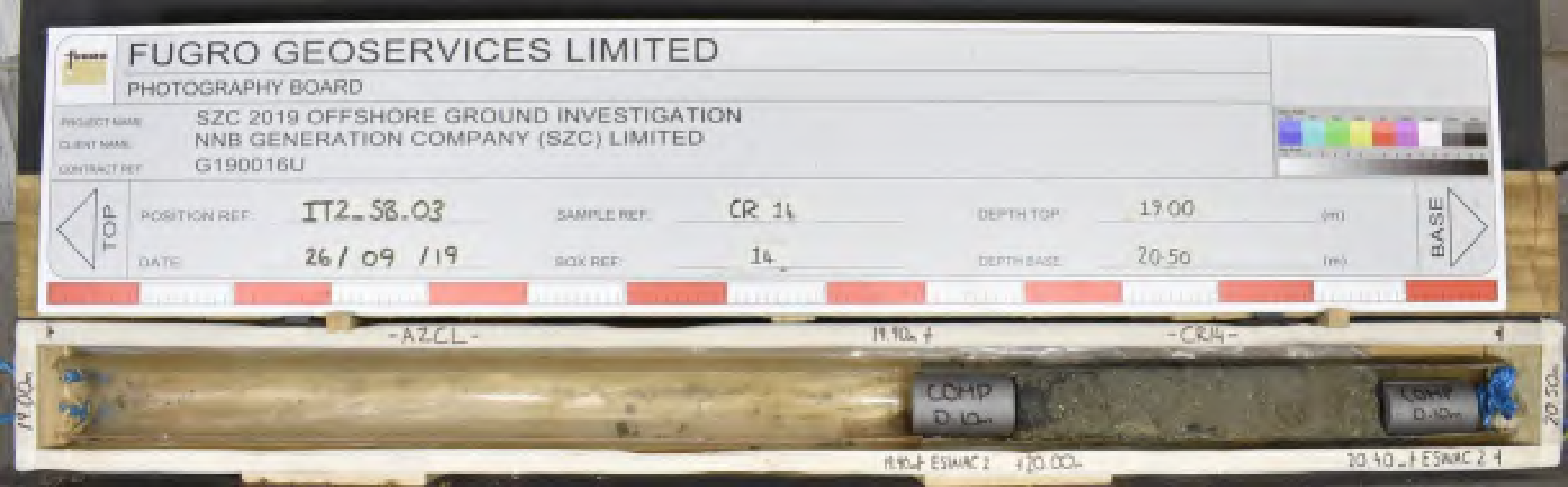
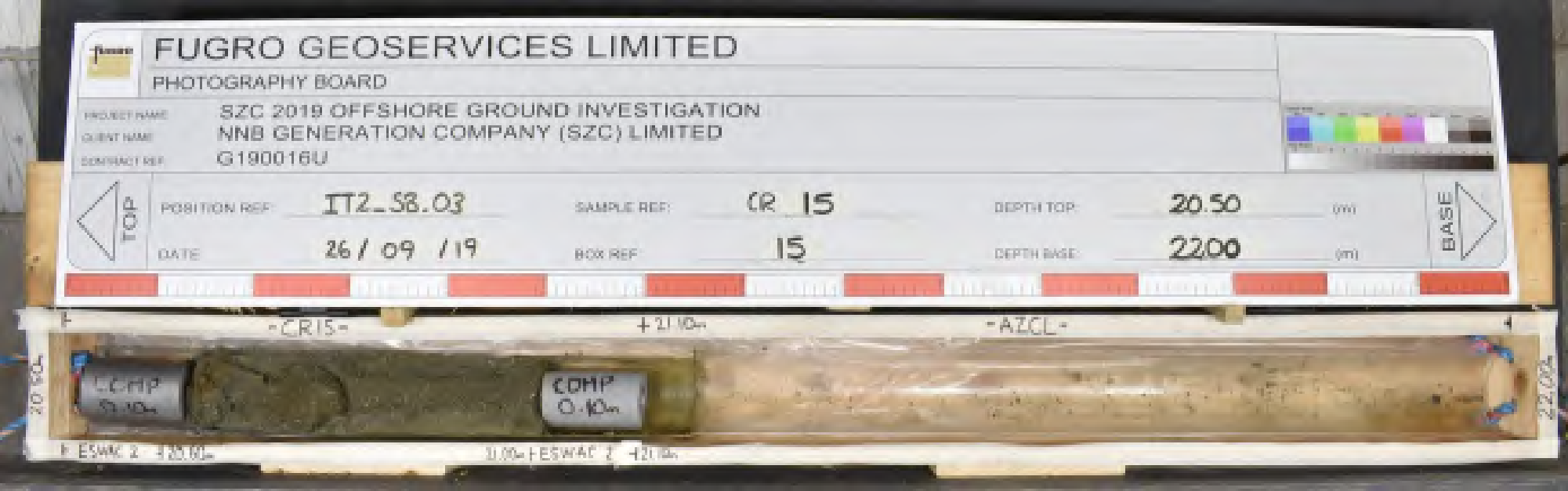
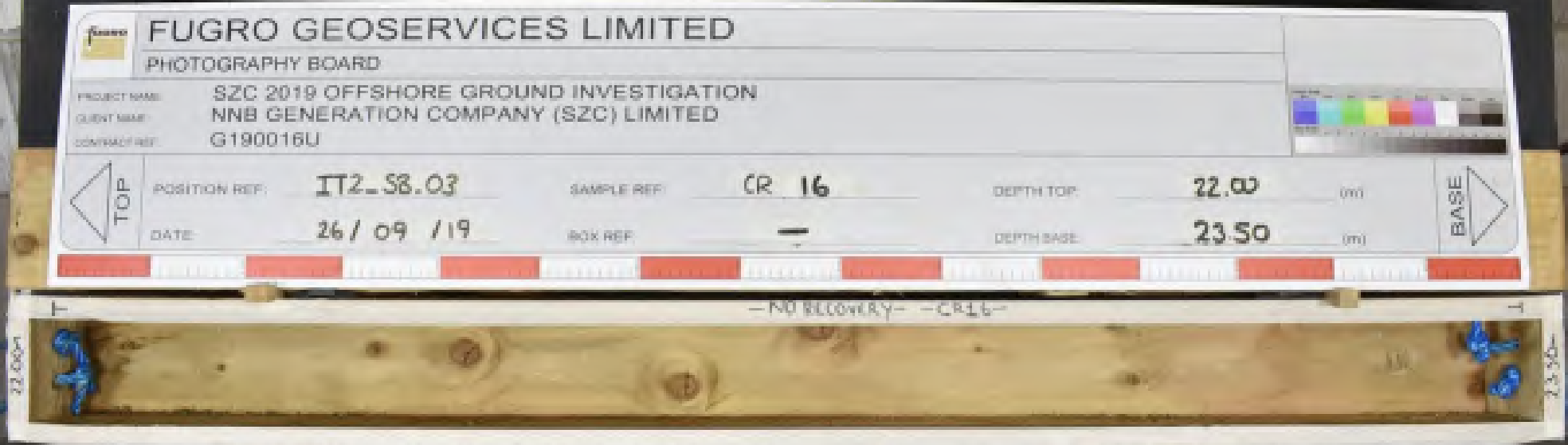
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_SB.03
SAMPLE REF: CR 13
DEPTH TOP: 17.50 (m)
DATE: 26 / 09 / 19
BOX REF: 13
DEPTH BASE: 19.00 (m)
BASE
-CR13-
COMP 0.10m
17.50m
18.50m
17.60m
18.80m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_58.03
DATE: 26 / 09 / 19
SAMPLE REF: CR 14
BOX REF: 14
DEPTH TOP: 19.00 (m)
DEPTH BASE: 20.50 (m)
BASE
-AZCL-
19.90
-CR14-
CCHP
0.10
ESHP
0.10m
19.00
20.50
19.90 ESWAC 2
20.00
20.40 ESWAC 2


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF G190016U
TOP
POSITION REF IT2_58.03
SAMPLE REF CR 15
DEPTH TOP 20.50 (m)
DATE 26 / 09 / 19
BOX REF 15
DEPTH BASE 22.00 (m)
BASE
-CRIS-
+21.10m
-AZCL-
COMP 0.10m
COMP 0.10m
20.50
22.00
ESWAC 2 +20.00m
ESWAC 2 +21.10m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_S8.03
DATE: 26/09/19
SAMPLE REF: CR 16
BOX REF: —
DEPTH TOP: 22.00 (m)
DEPTH BASE: 23.50 (m)
BASE
-NO RECOVERY- -CR16-
22.00m
23.50-

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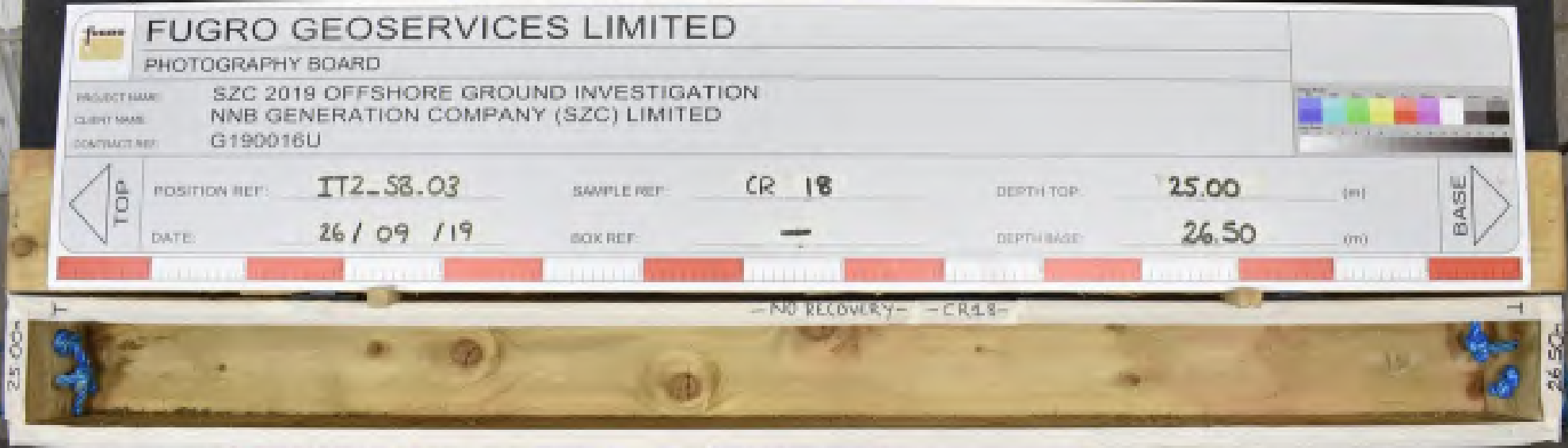
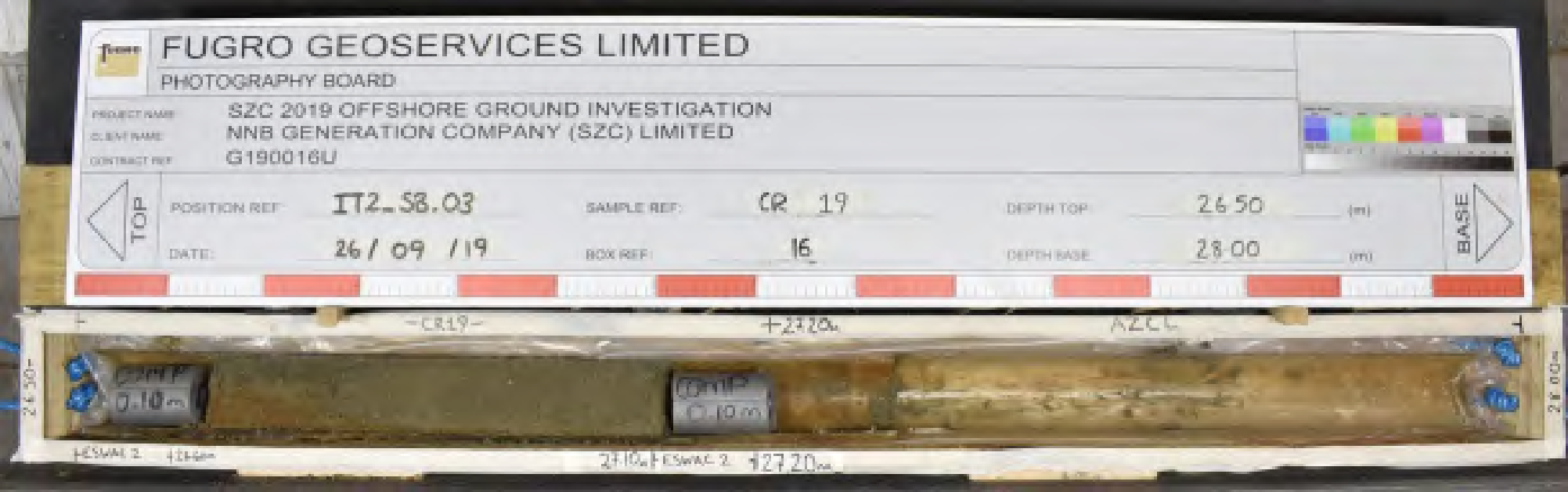
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_58.03
SAMPLE REF: CR 17
DEPTH TOP: 23.50 (m)
DATE: 26/09/19
BOX REF: —
DEPTH BASE: 25.00 (m)
BASE
-NO RECOVERY- -CR17-
23.50
25.00


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_S8.03
SAMPLE REF: CR 18
DEPTH TOP: 25.00 (m)
DATE: 26 / 09 / 19
BOX REF: —
DEPTH BASE: 26.50 (m)
BASE
-NO RECOVERY- -CR18-
25.00
26.50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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_SB.03
SAMPLE REF: CR 19
DEPTH TOP: 26.50 (m)
DATE: 26/09/19
BOX REF: 16
DEPTH BASE: 28.00 (m)
BASE
-CR19-
+27.20
AZCC
CRP
0.10m
CRP
0.10m
26.50
28.00
ESWAC 2
27.10
ESWAC 2
27.20

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_SB.03
SAMPLE REF: CR 20
DEPTH TOP: 28.00 (m)
DATE: 26/09/19
BOX REF: 17
DEPTH BASE: 29.50 (m)
BASE
28.00 ↓
-CR20-
29.25 ↓ ARCL(MTS) ↓
28.00
29.50
COMP 0.10m
COMP 0.10m
↓ ESWAC 2 ↓ 28.10m
29.15m ↓ ESWAC 2 ↓ 29.25m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF.: G190016U

TOP

POSITION REF: IT2_58.03 SAMPLE REF: CR 21 DEPTH TOP: 29.50 (m)
DATE: 26 / 09 / 19 BOX REF: 18 DEPTH BASE: 31.00 (m)

BASE

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2-SB-03 SAMPLE REF: CR 22 DEPTH TOP: 31.00 (m)

DATE: 23/09/19 BOX REF: 19 DEPTH BASE: 32.50 (m)

BASE

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PHOTOGRAPHY BOARD

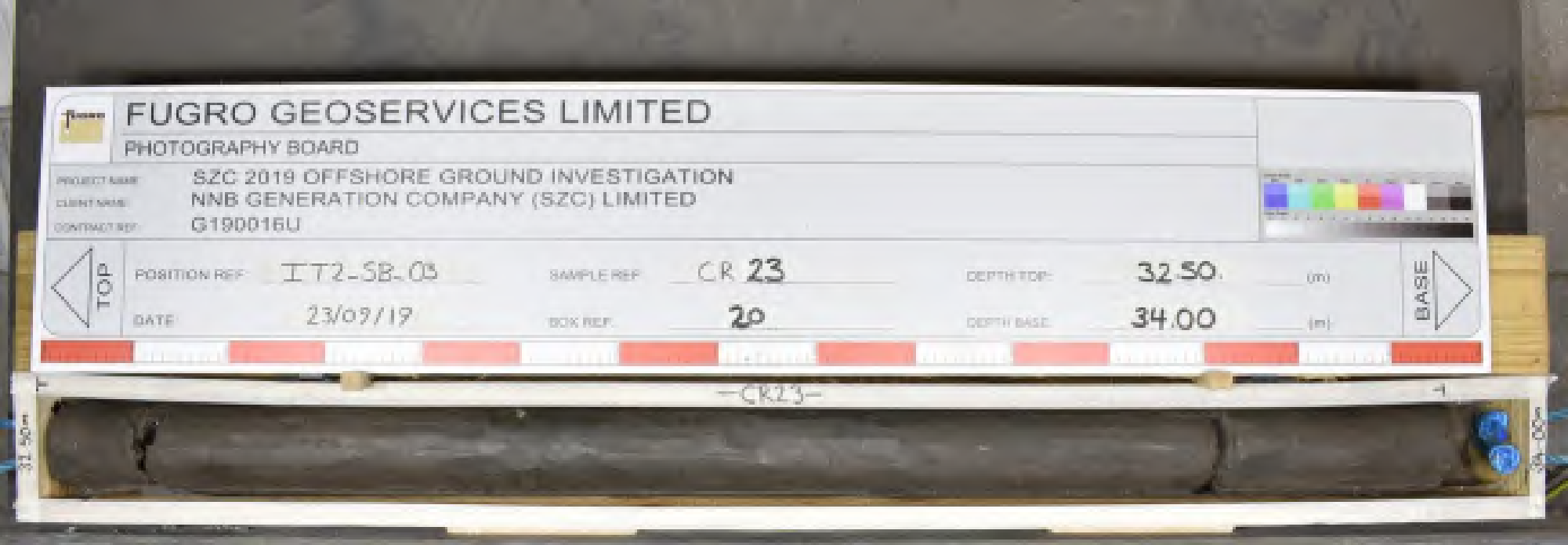
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB.03 SAMPLE REF: CR 22 DEPTH TOP: 31.00 (m)

DATE: 26/09/19 BOX REF: 19 DEPTH BASE: 32.50 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2-SB-03
SAMPLE REF: CR 23
DEPTH TOP: 32.50 (m)
DATE: 23/09/19
BOX REF: 20
DEPTH BASE: 34.00 (m)
BASE
-CR23-
32.50m
34.00m

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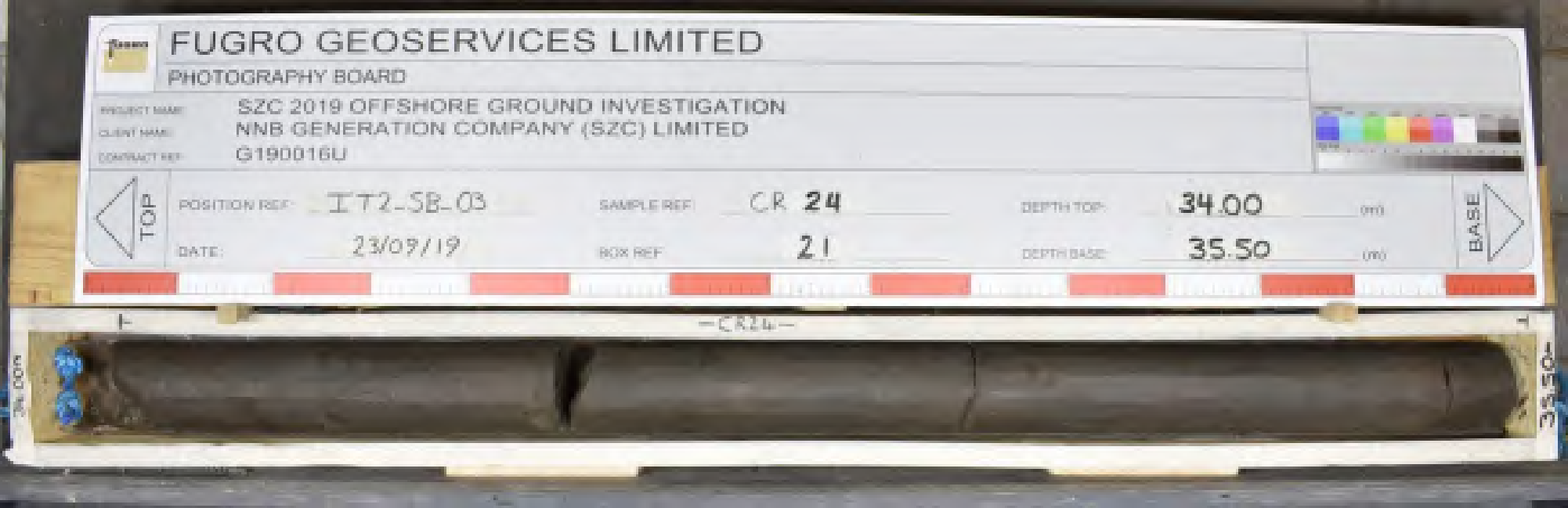
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

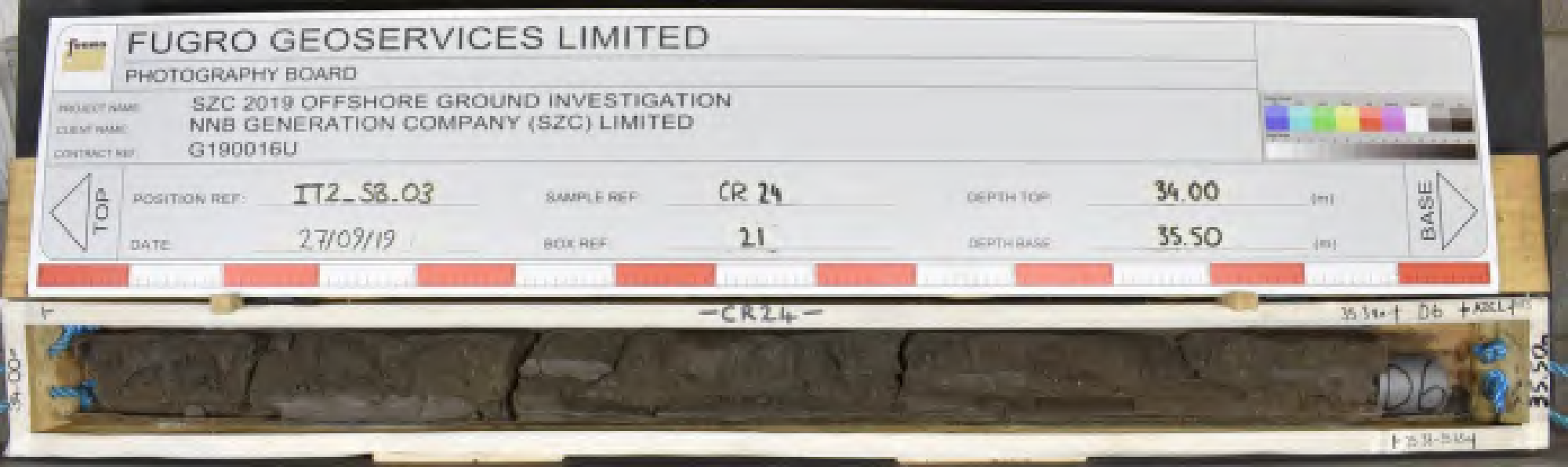
TOP

POSITION REF: IT2_SB.03
SAMPLE REF: CR 23
DEPTH TOP: 32.50 (m)

DATE: 26/09/19
BOX REF: 20
DEPTH BASE: 34.00 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2-SB-03
SAMPLE REF: CR 24
DEPTH TOP: 34.00 (m)
DATE: 23/09/19
BOX REF: 21
DEPTH BASE: 35.50 (m)
BASE
CR24
34.00
35.50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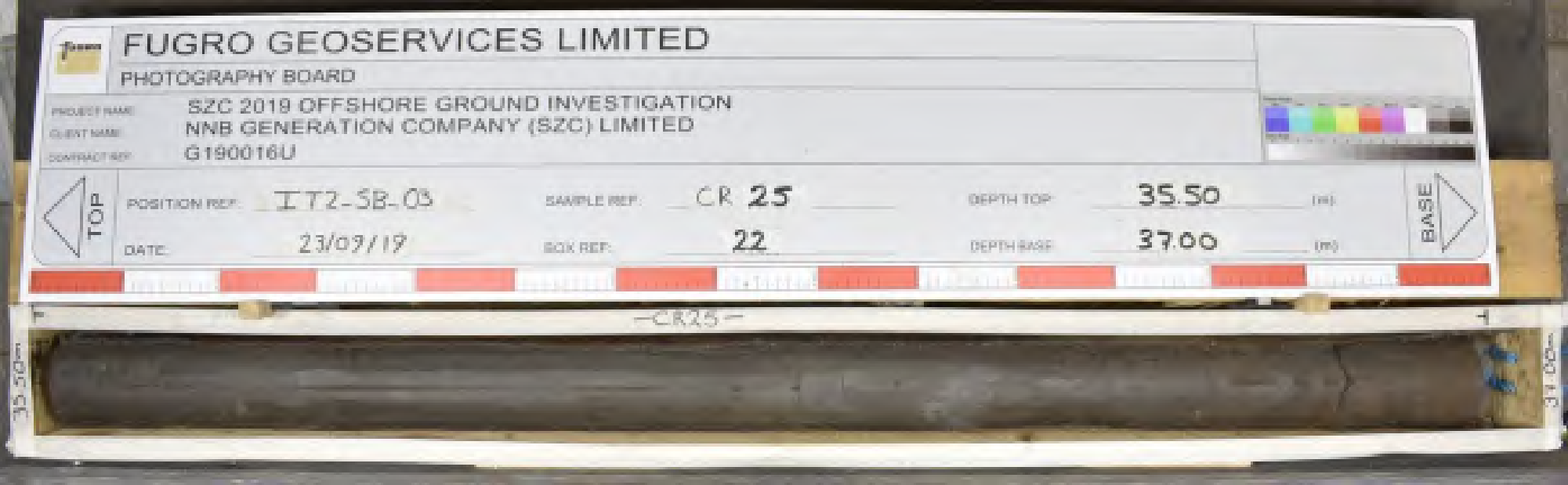
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_58.03
SAMPLE REF: CR 24
DEPTH TOP: 34.00 (m)
DATE: 27/09/19
BOX REF: 21
DEPTH BASE: 35.50 (m)
BASE
CR24
34.00
35.50
D6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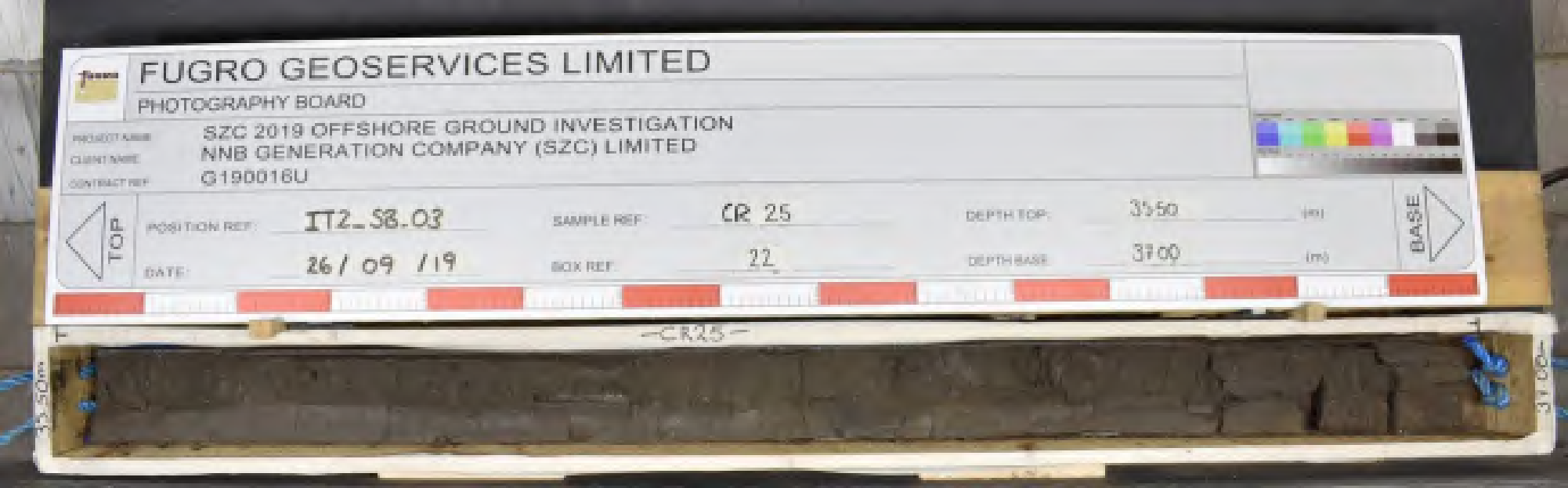
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2-SB-03
SAMPLE REF: CR 25
DEPTH TOP: 35.50 (m)
DATE: 23/09/19
BOX REF: 22
DEPTH BASE: 37.00 (m)
BASE
-CR25-
35.50m
37.00m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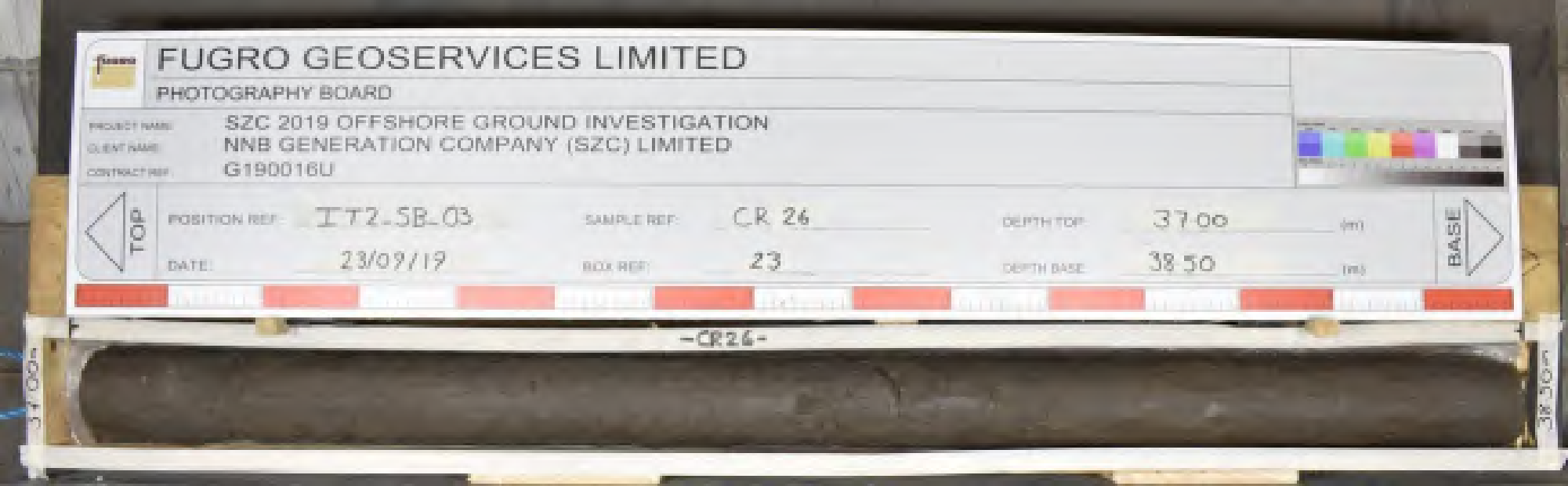
PHOTOGRAPHY BOARD
PROJECT NAME SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF G190016U
TOP
POSITION REF IT2_SB.03
SAMPLE REF CR 25
DEPTH TOP 3550 (m)
DATE 26/09/19
BOX REF 22
DEPTH BASE 3700 (m)
BASE
CR25
3550
3700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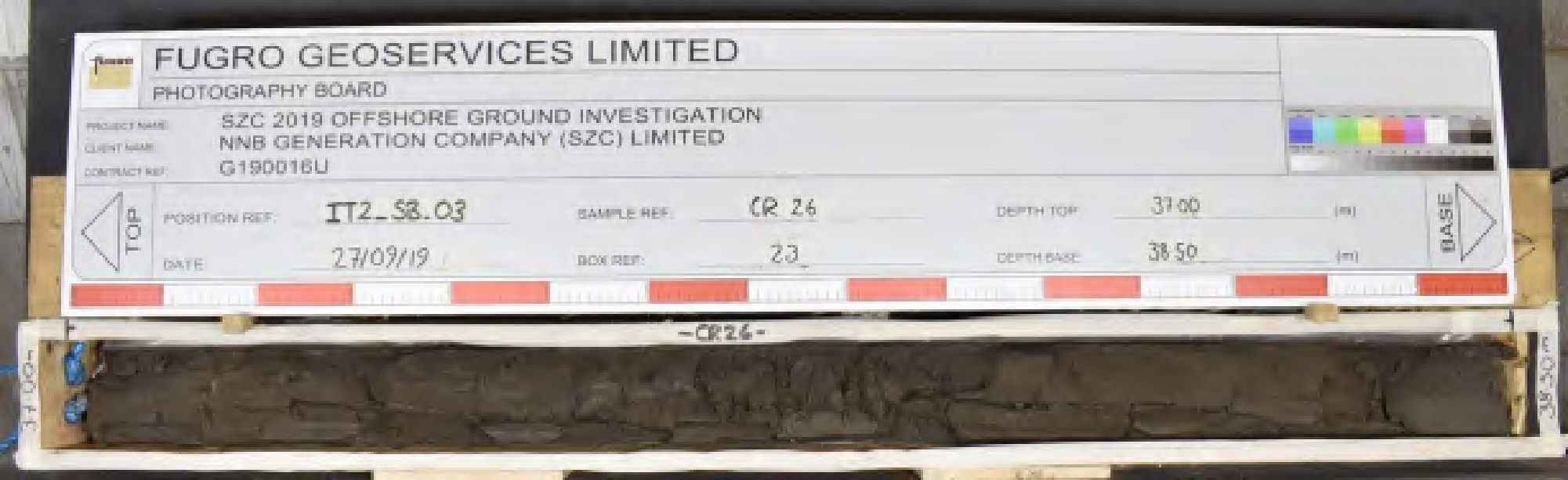
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2-SB-03
SAMPLE REF: CR 26
DEPTH TOP: 37.00 (m)
DATE: 23/09/19
BOX REF: 23
DEPTH BASE: 38.50 (m)
BASE
-CR26-
37.00m
38.50m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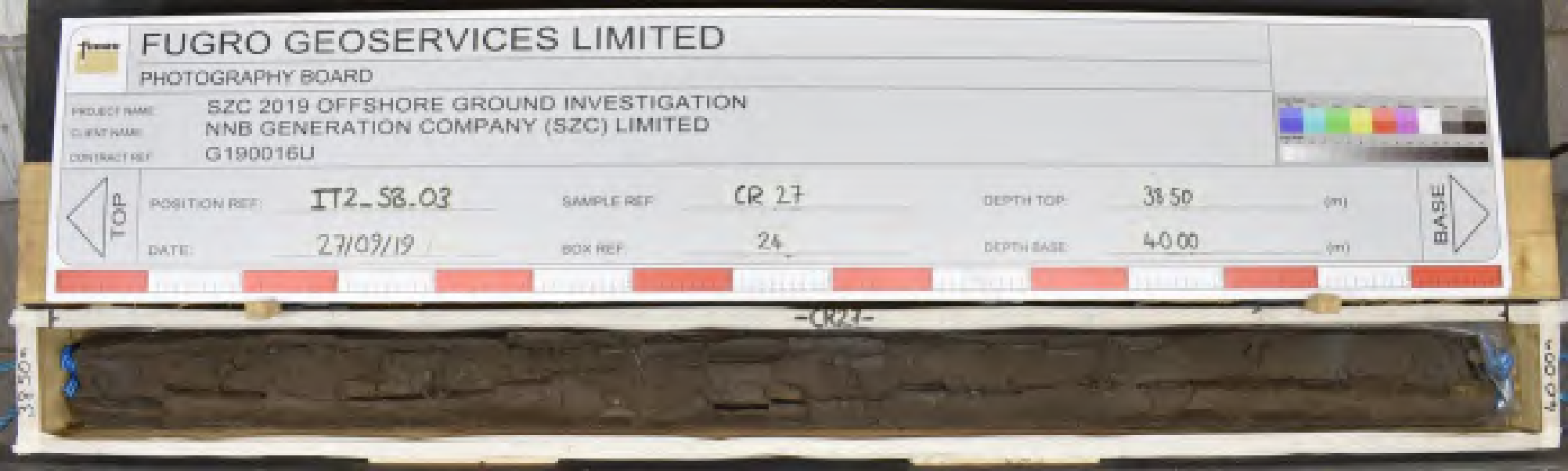
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_SB.03
SAMPLE REF: CR 26
DEPTH TOP: 37.00 (m)
DATE: 27/09/19
BOX REF: 23
DEPTH BASE: 38.50 (m)
BASE
-CR26-
37.00
38.50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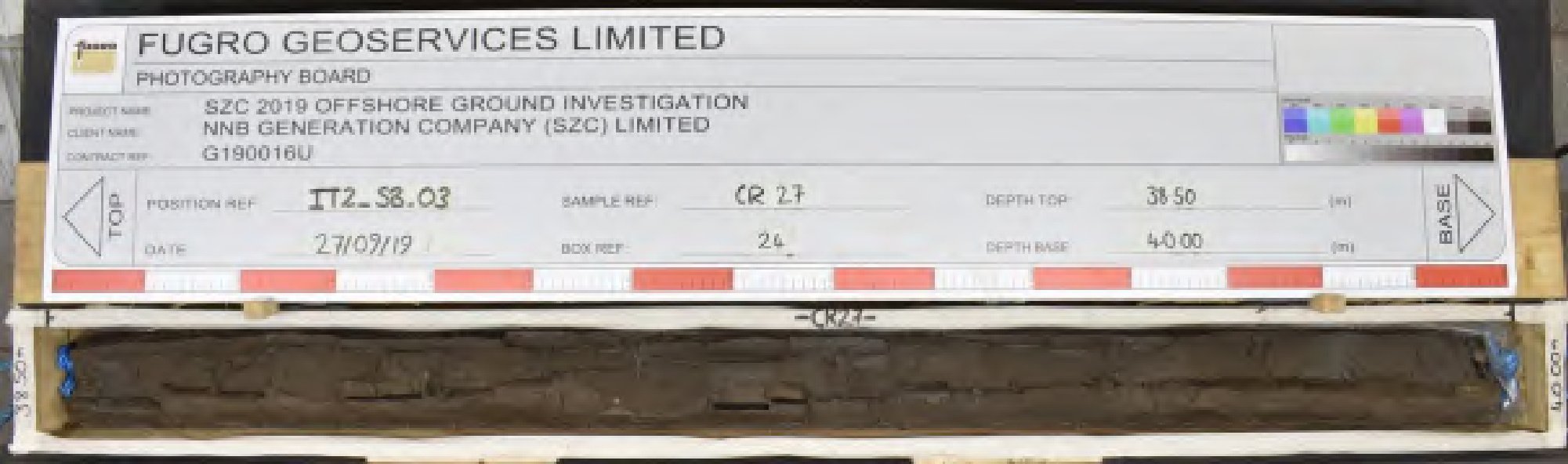
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_SB.03
SAMPLE REF: CR 27
DEPTH TOP: 38.50 (m)
DATE: 27/09/19
BOX REF: 24
DEPTH BASE: 40.00 (m)
BASE
-CR27-
38.50m
40.00m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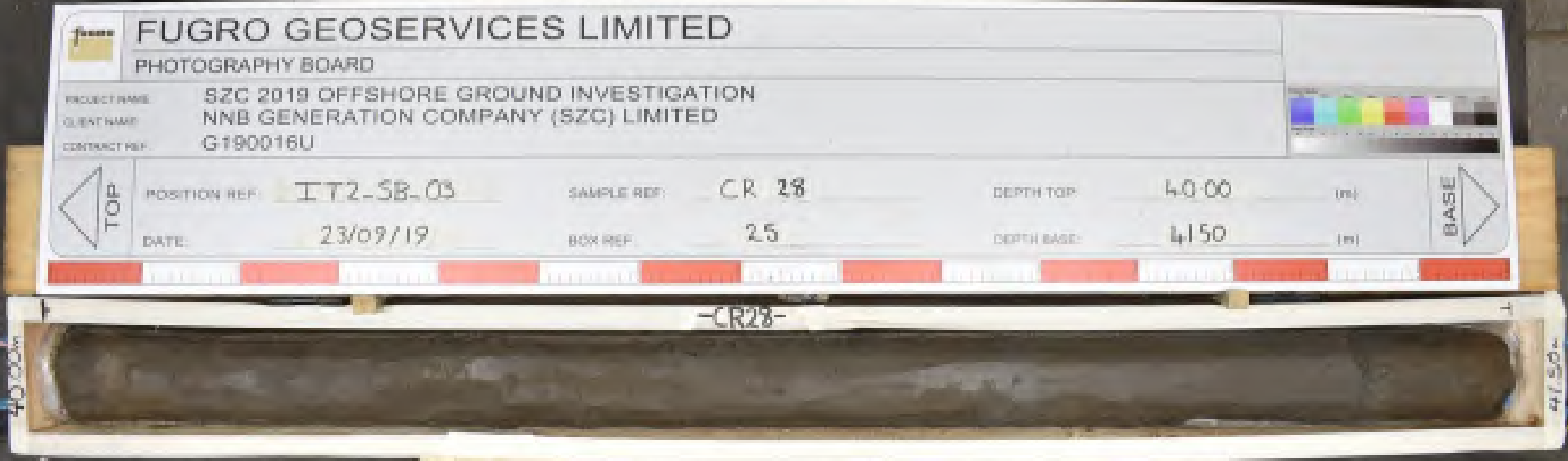
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_SB.03
SAMPLE REF: CR 27
DEPTH TOP: 38.50 (m)
DATE: 27/09/19
BOX REF: 24
DEPTH BASE: 40.00 (m)
BASE
-CR27-
38.50m
40.00m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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2-SB-03
SAMPLE REF: CR 28
DEPTH TOP: 40.00 (m)
DATE: 23/09/19
BOX REF: 25
DEPTH BASE: 41.50 (m)
BASE
-CR28-
40.00m
41.50m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_58.03
SAMPLE REF: CR 28
DEPTH TOP: 40.00 (m)
DATE: 27/09/19
BOX REF: 25
DEPTH BASE: 41.50 (m)
BASE
-CR28-
40.00m
41.50m

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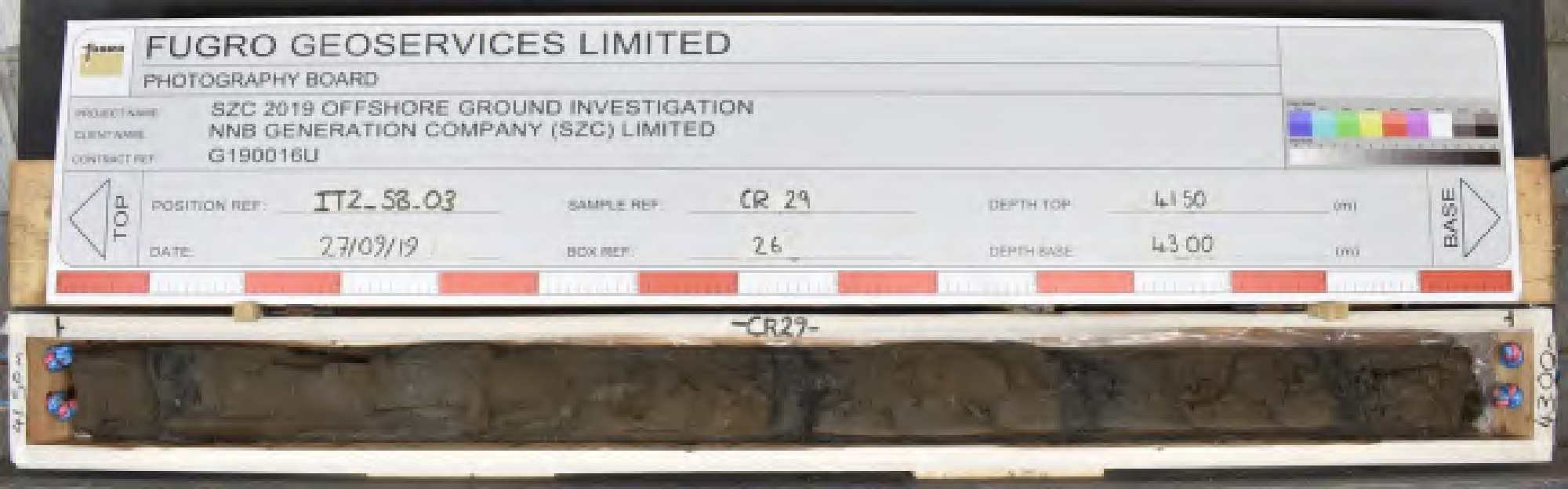
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2-SB-03
SAMPLE REF: CR 29
DEPTH TOP: 4150 (m)
DATE: 23/09/19
BOX REF: 26
DEPTH BASE: 4300 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF. G190016U
TOP
POSITION REF: IT2_SB.03
SAMPLE REF: CR 29
DEPTH TOP: 41.50 (m)
DATE: 27/09/19
BOX REF: 26
DEPTH BASE: 43.00 (m)
BASE
-CR29-
41.50
43.00

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

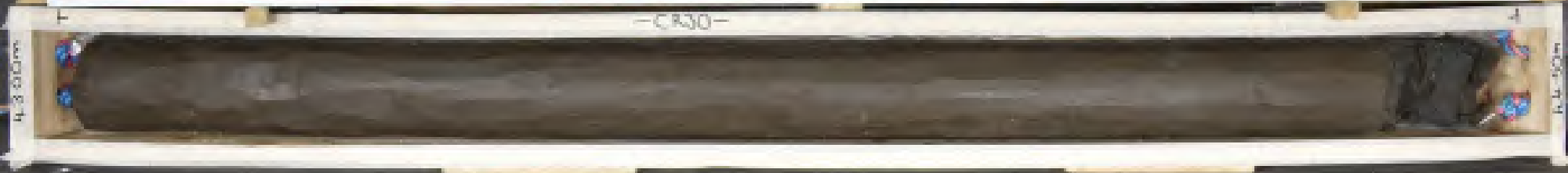
CONTRACT REF: G190016U

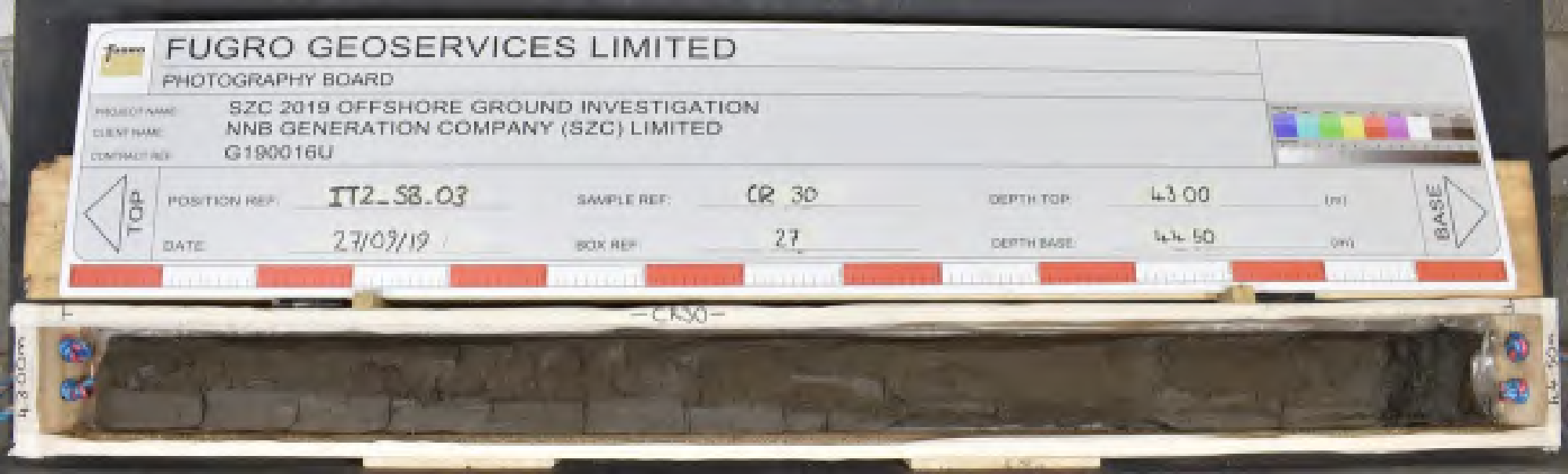
TOP

POSITION REF: IT2-SB-03 SAMPLE REF: CR 30 DEPTH TOP: 43.00 (m)

DATE: 23/09/19 BOX REF: 27 DEPTH BASE: 44.50 (m)

BASE




FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_SB.03
SAMPLE REF: CR 30
DEPTH TOP: 43.00 (m)
DATE: 27/03/19
BOX REF: 27
DEPTH BASE: 44.50 (m)
BASE
CRSO
48.0cm

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

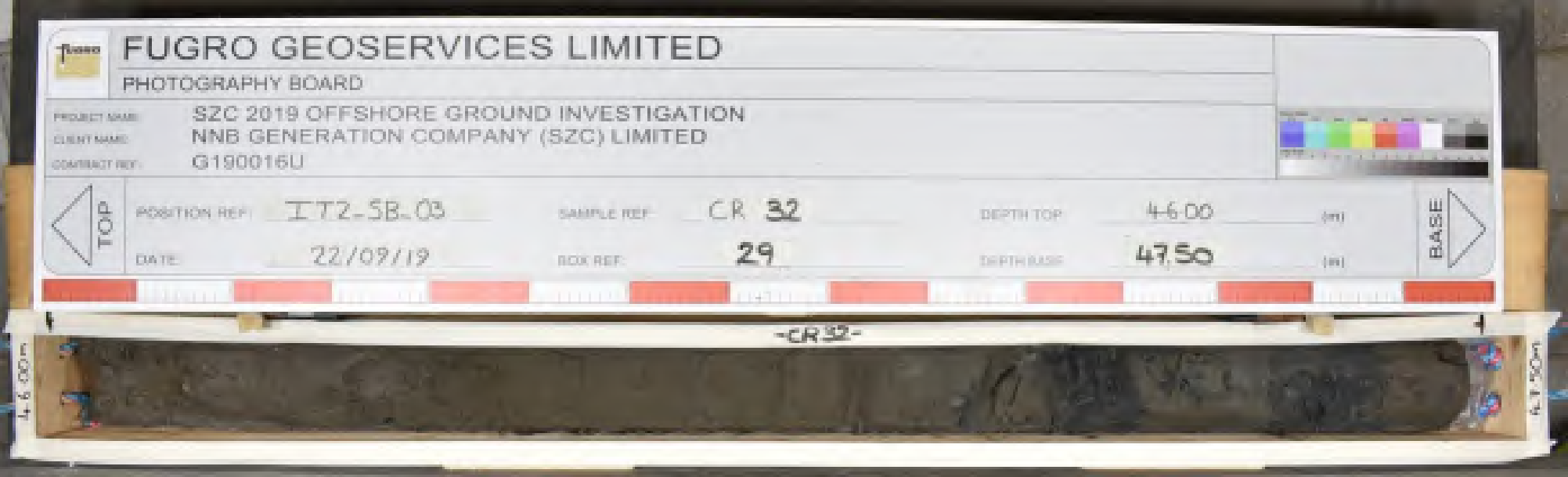
TOP

POSITION REF: IT2-SB-03 SAMPLE REF: CR 31 DEPTH TOP: 44.50 (m)

DATE: 22/09/19 BOX REF: 28 DEPTH BASE: 46.00 (m)

BASE

FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_58.03
SAMPLE REF: CR 31
DEPTH TOP: 44.50 (m)
DATE: 27/09/19
BOX REF: 28
DEPTH BASE: 46.00 (m)
BASE
-CR31- 44.60
-AZCL-
CR.31
44.50
46.00


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2-SB-03
SAMPLE REF: CR 32
DEPTH TOP: 46.00 (m)
DATE: 22/09/19
BOX REF: 29
DEPTH BASE: 47.50 (m)
BASE
-CR 32-
46.00m
47.50m

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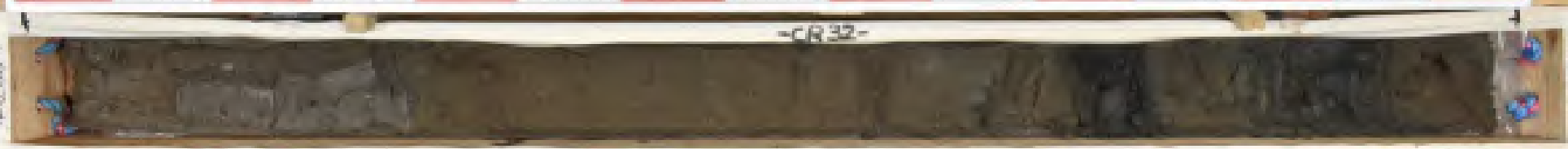
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB.03 | SAMPLE REF: CR 32 | DEPTH TOP: 46.00 (m)
DATE: 27/09/19 | BOX REF: 29 | DEPTH BASE: 47.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2-SB-03 SAMPLE REF: CR 33 DEPTH TOP: 47.50 (m)

DATE: 22/09/19 BOX REF: 30 DEPTH BASE: 49.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_58.03 SAMPLE REF: CR 33 DEPTH TOP: 47.50 (m)

DATE: 27/09/19 BOX REF: 30 DEPTH BASE: 49.00 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2-SB-03
DATE: 22/09/19
SAMPLE REF: CR 34
BOX REF: 31
DEPTH TOP: 49.00 (m)
DEPTH BASE: 50.50 (m)

BASE

*NOTE - AZCL: 49.87-50.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT2_S8.03

SAMPLE REF: CR 34

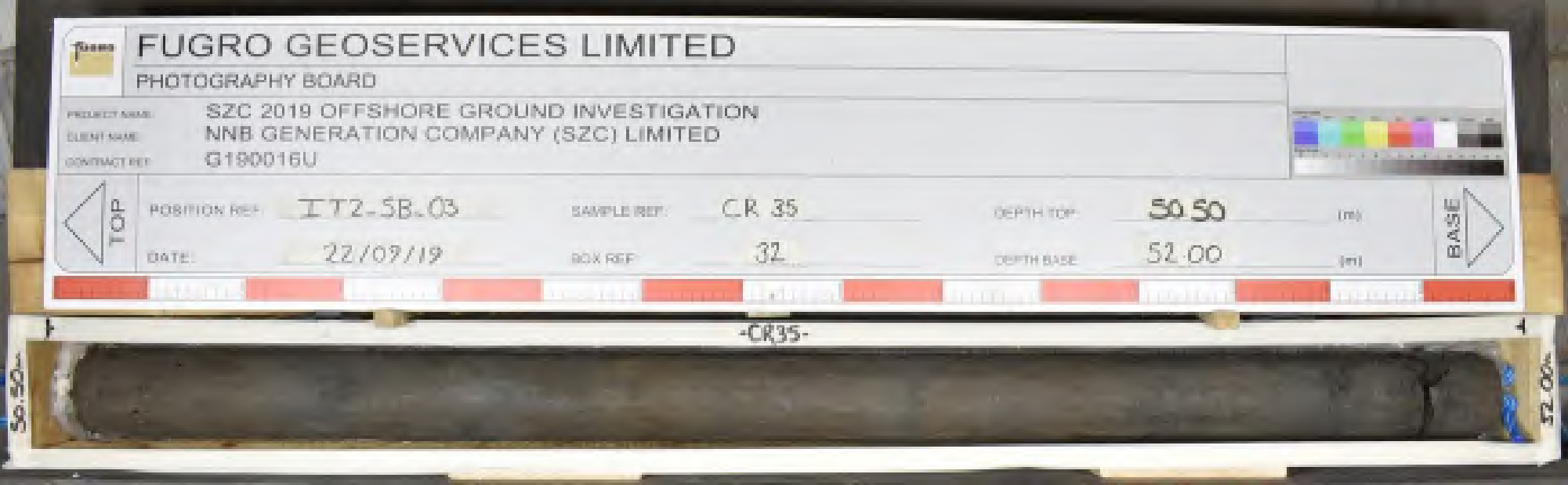
DEPTH TOP: 49.00 (m)

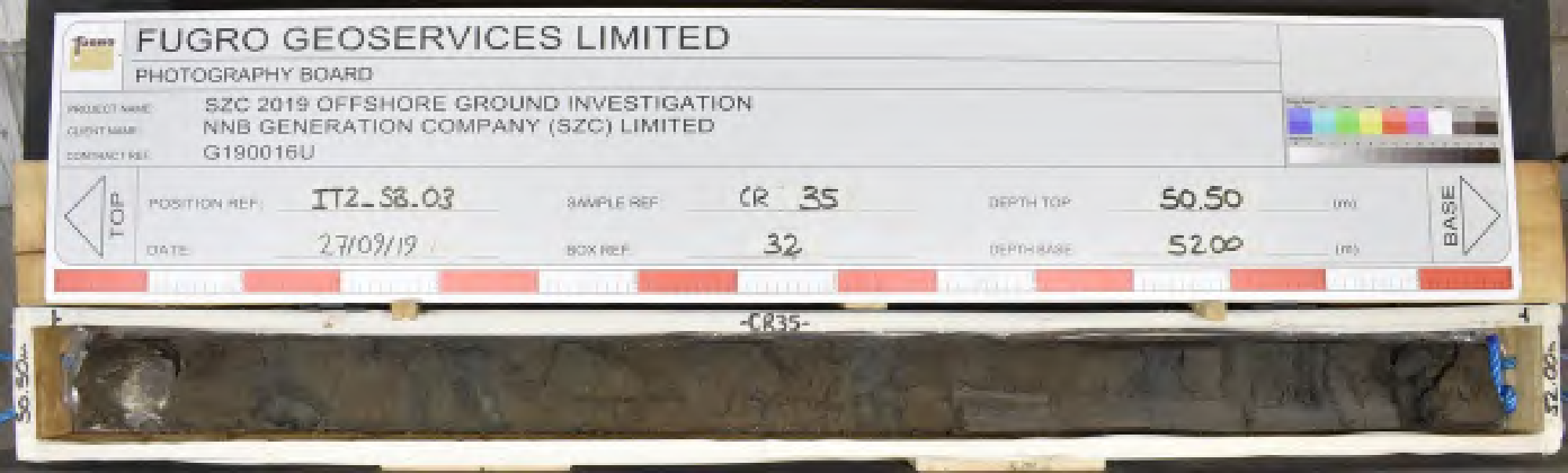
DATE: 27/09/19

BOX REF: 31

DEPTH BASE: 50.50 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2-SB.03
SAMPLE REF: CR 35
DEPTH TOP: 50.50 (m)
DATE: 22/09/19
BOX REF: 32
DEPTH BASE: 52.00 (m)
BASE
-CR35-
50.50
52.00


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_SB.03
SAMPLE REF: CR 35
DEPTH TOP: 50.50 (m)
DATE: 27/09/19
BOX REF: 32
DEPTH BASE: 52.00 (m)
BASE
-CR35-
50.50m
52.00m

FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_58.03
SAMPLE REF: CR 36
DEPTH TOP: 52.00 (m)
DATE: 27/09/19
BOX REF: 33
DEPTH BASE: 53.50 (m)
BASE
- CR36 -
52.00
53.50

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

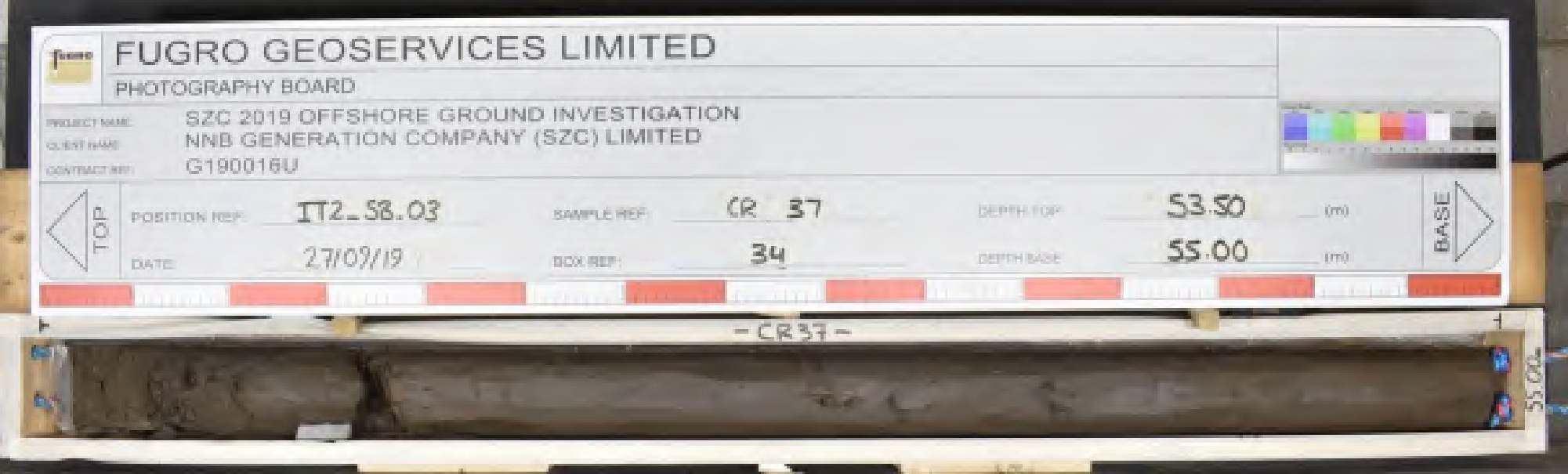
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_58.03
SAMPLE REF: CR 36
DEPTH TOP: 5200 CMD

DATE: 27/09/19
BOX REF: 33
DEPTH BASE: 5350 CMD

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_58.03
SAMPLE REF: CR 37
DEPTH TOP: 53.50 (m)
DATE: 27/09/19
BOX REF: 34
DEPTH BASE: 55.00 (m)
BASE
- CR37 -
55.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT2_58.03

SAMPLE REF: CR 37

DEPTH TOP: 53.50 (m)

DATE: 27/09/19

BOX REF: 34

DEPTH BASE: 55.00 (m)

BASE

FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF G190016U
TOP
POSITION REF IT2-SPT-03
SAMPLE REF CR 03
DEPTH TOP 36.00 (m)
DATE 23/09/19
BOX REF 01
DEPTH BASE 37.00 (m)
BASE
CR03
C4; Triaxial: 36.35-36.90m
36.00m
37.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2-SPT-03
DATE: 23/09/19
SAMPLE REF: CR 14
BOX REF: 11
DEPTH TOP: 51.00 (m)
DEPTH BASE: 52.50 (m)

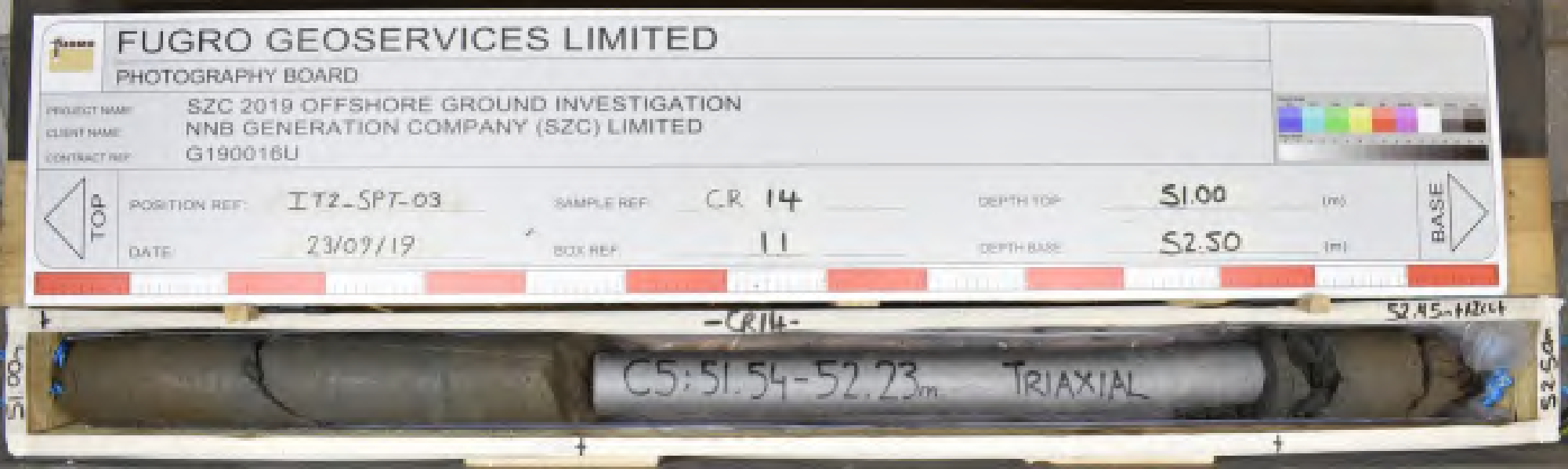
BASE

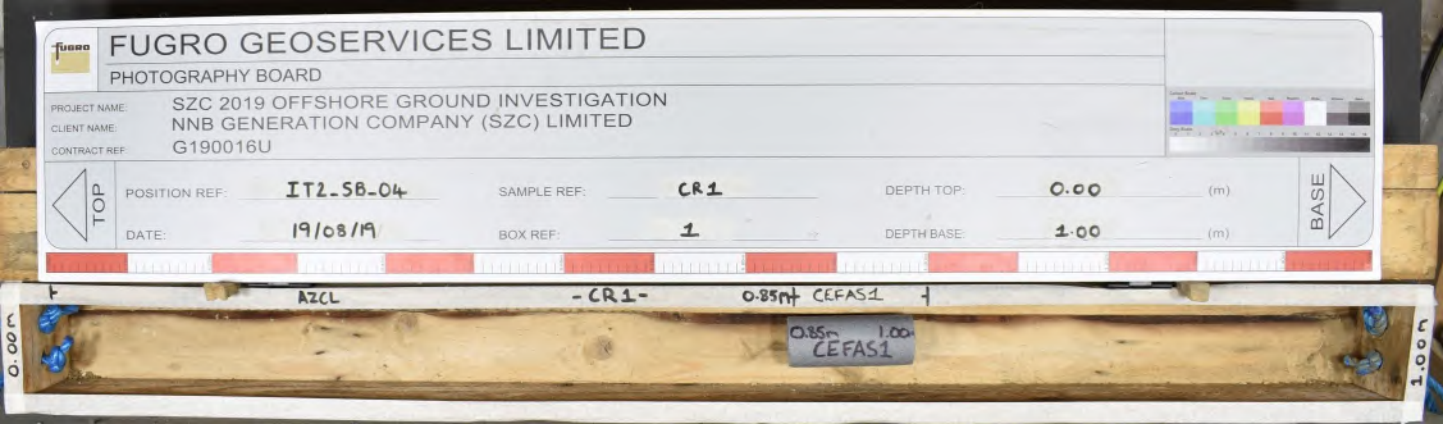
-CR14-

51.00m

52.45-52.50

52.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_SPT-03
SAMPLE REF: CR 14
DEPTH TOP: 51.00 (m)
DATE: 23/09/19
BOX REF: 11
DEPTH BASE: 52.50 (m)
BASE
-CR14-
52.45-52.44
C5: 51.54-52.23m TRIAXIAL
51.00
52.50


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_SB_04
SAMPLE REF: CR1
DEPTH TOP: 0.00 (m)
DATE: 19/08/19
BOX REF: 1
DEPTH BASE: 1.00 (m)
BASE
AZCL
-CR1-
0.85mt CEFAS1
0.85m 1.00m
CEFAS1
0.000m
1.000m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04 SAMPLE REF: CR 2 DEPTH TOP: 1.00 (m)

DATE: 19/08/19 BOX REF: 2 DEPTH BASE: 2.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04 SAMPLE REF: CR 3 DEPTH TOP: 2.50 (m)

DATE: 19/08/19 BOX REF: 3 DEPTH BASE: 4.00 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04 SAMPLE REF: CR 4 DEPTH TOP: 4.00 (m)

DATE: 19/08/19 BOX REF: 4 DEPTH BASE: 5.50 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04
SAMPLE REF: CR 5
DEPTH TOP: 5.50 (m)
DATE: 20/08/19
BOX REF: 5
DEPTH BASE: 7.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04 SAMPLE REF: CR 6 DEPTH TOP: 7.00 (m)

DATE: 20/08/19 BOX REF: 6 DEPTH BASE: 8.50 (m)

BASE

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PHOTOGRAPHY BOARD

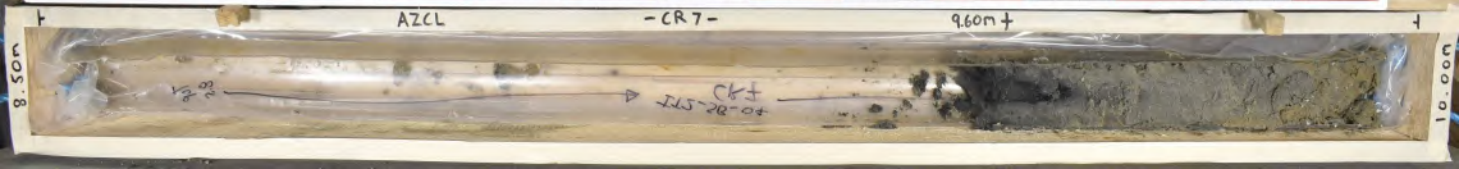
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04 SAMPLE REF: CR 7 DEPTH TOP: 8.50 (m)

DATE: 20/08/19 BOX REF: 7 DEPTH BASE: 10.00 (m)

BASE



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PHOTOGRAPHY BOARD

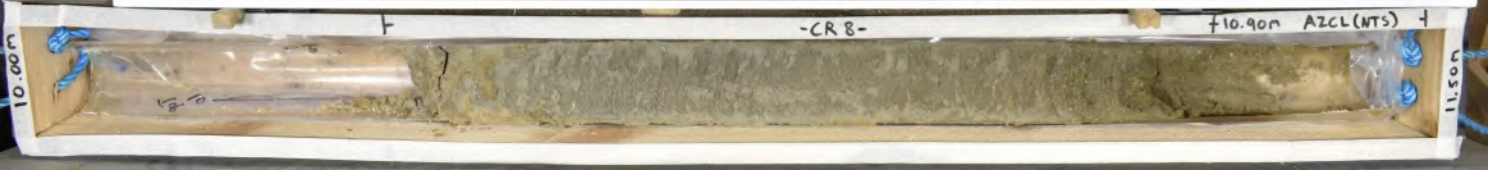
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04 SAMPLE REF: CR 8 DEPTH TOP: 10.00 (m)

DATE: 20/08/19 BOX REF: 8 DEPTH BASE: 11.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2-SB-04 SAMPLE REF: CR 9 DEPTH TOP: 11.50 (m)

DATE: 20/08/19 BOX REF: 9 DEPTH BASE: 13.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04 SAMPLE REF: CR 10 DEPTH TOP: 13.00 (m)

DATE: 20/08/19 BOX REF: 10 DEPTH BASE: 14.50 (m)

BASE

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PHOTOGRAPHY BOARD

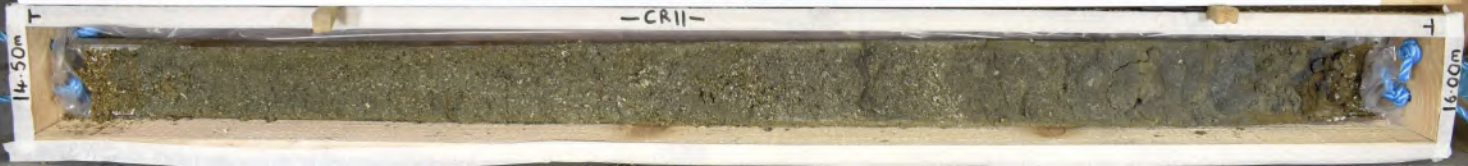
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04 SAMPLE REF: CR 11 DEPTH TOP: 14.50 (m)

DATE: 20/08/19 BOX REF: 11 DEPTH BASE: 16.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04 SAMPLE REF: CR 12 DEPTH TOP: 16.00 (m)

DATE: 20/08/19 BOX REF: 12 DEPTH BASE: 17.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04 SAMPLE REF: CR 13 DEPTH TOP: 17.50 (m)

DATE: 20/08/19 BOX REF: 13 DEPTH BASE: 19.00 (m)

BASE

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PHOTOGRAPHY BOARD

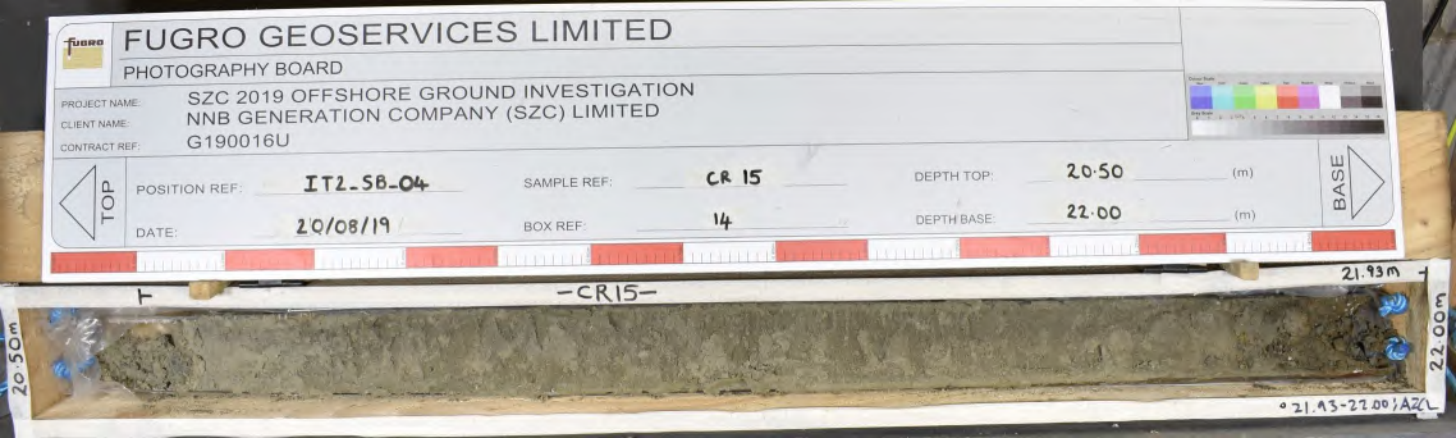
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04 SAMPLE REF: CR14 DEPTH TOP: 19.00 (m)

DATE: 20/08/19 BOX REF: – DEPTH BASE: 20.50 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_SB_04
SAMPLE REF: CR 15
DEPTH TOP: 20.50 (m)
DATE: 20/08/19
BOX REF: 14
DEPTH BASE: 22.00 (m)
BASE
-CR15-
21.93m
20.50m
22.00m
21.93-22.00 AZCL

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04 SAMPLE REF: CR 16 DEPTH TOP: 22.00 (m)

DATE: 20/08/19 BOX REF: 15 DEPTH BASE: 23.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT2-SB-04

SAMPLE REF: CR 17

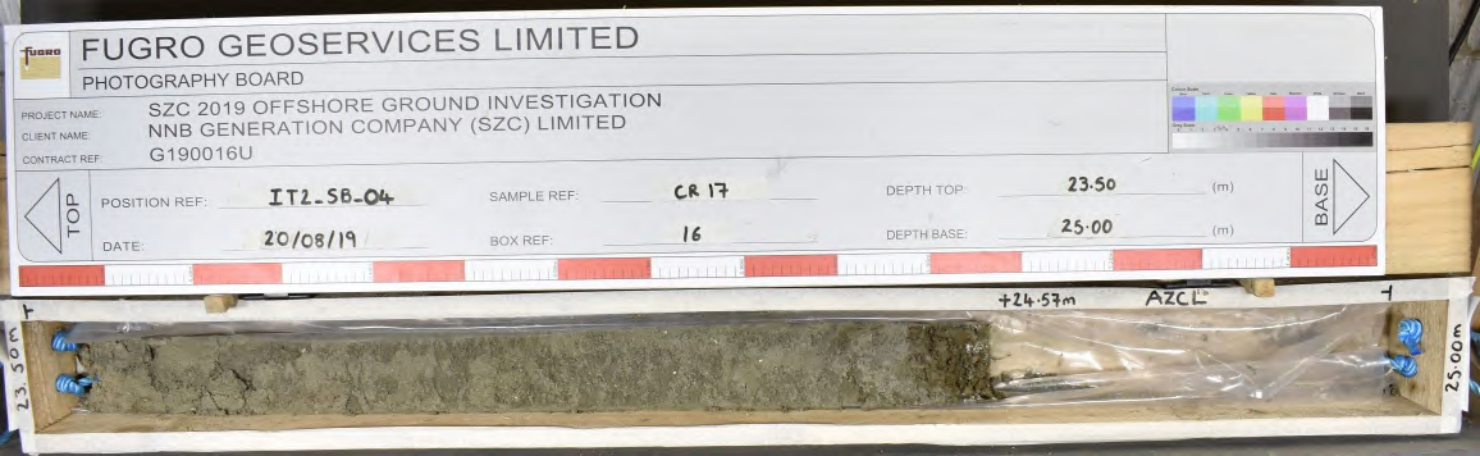
DEPTH TOP: 23.50 (m)

DATE: 20/08/19

BOX REF: 16

DEPTH BASE: 25.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04 SAMPLE REF: CR 18 DEPTH TOP: 25.00 (m)

DATE: 20/08/19 BOX REF: 17 DEPTH BASE: 26.50 (m)

BASE

FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2-SB-04
SAMPLE REF: CR 19
DEPTH TOP: 26.50 (m)
DATE: 20/08/19
BOX REF: 18A
DEPTH BASE: 28.00 (m)
BASE
— CR19 — * NO RECOVERY *
26.50m
28.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04 SAMPLE REF: CR20 DEPTH TOP: 28.00 (m)

DATE: 20/08/19 BOX REF: 18B DEPTH BASE: 29.50 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2-SB-04
SAMPLE REF: CR 21
DEPTH TOP: 29.50 (m)
DATE: 20/08/19
BOX REF: 18C
DEPTH BASE: 31.00 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT2-SB-04 SAMPLE REF: CR 22 DEPTH TOP: 31.00 (m)

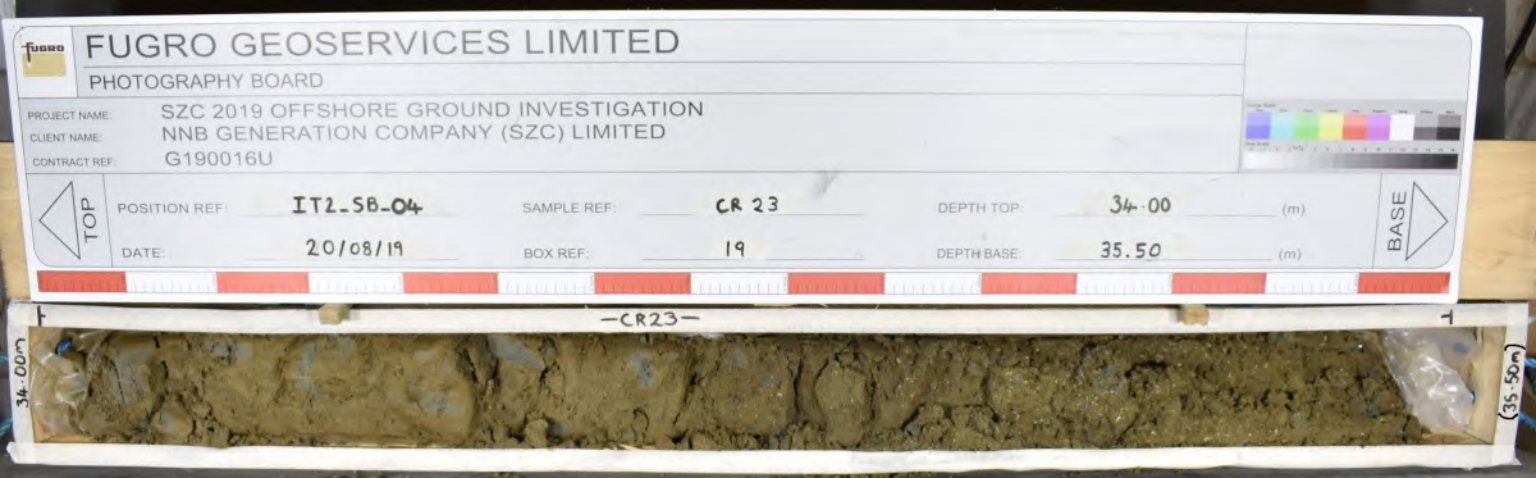
DATE: 20/08/19 BOX REF: 18D DEPTH BASE: 34.00 (m)

BASE

T *NO RECOVERY* -CR22- T

31.00m

34.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_SB_04
SAMPLE REF: CR 23
DEPTH TOP: 34.00 (m)
DATE: 20/08/19
BOX REF: 19
DEPTH BASE: 35.50 (m)
BASE
-CR23-
34.00m
(35.50m)

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04
SAMPLE REF: CR 23
DEPTH TOP: 35.50 (m)

DATE: 20/08/19
BOX REF: 20
DEPTH BASE: 37.00 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04
SAMPLE REF: CR 23
DEPTH TOP: 35.50 (m)
DATE: 22/ 10 /19
BOX REF: 20
DEPTH BASE: 37.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2-SB-04 SAMPLE REF: CR 24 DEPTH TOP: 37.00 (m)

DATE: 21/08/19 BOX REF: 21 DEPTH BASE: 38.50 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04 SAMPLE REF: CR 24 DEPTH TOP: 37.00 (m)

DATE: 22/ 10 /19 BOX REF: 21 DEPTH BASE: 38.50 (m)

BASE

-CR24-

37.00m

38.50m

FUGRO

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2-SB-04
SAMPLE REF: CR 25
DEPTH TOP: 38.50 (m)

DATE: 21/08/19
BOX REF: 22
DEPTH BASE: 40.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04 SAMPLE REF: CR 25 DEPTH TOP: 38.50 (m)

DATE: 22/ 10 /19 BOX REF: 22 DEPTH BASE: 40.00 (m)

BASE

-CR25-

38.50m

40.00m

39.70 DIK LLPL 39.90

39.90 40.00 K density

39.70m† DIK ATTERBERGS †39.80m 3990m† CS BULKDS †

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PHOTOGRAPHY BOARD

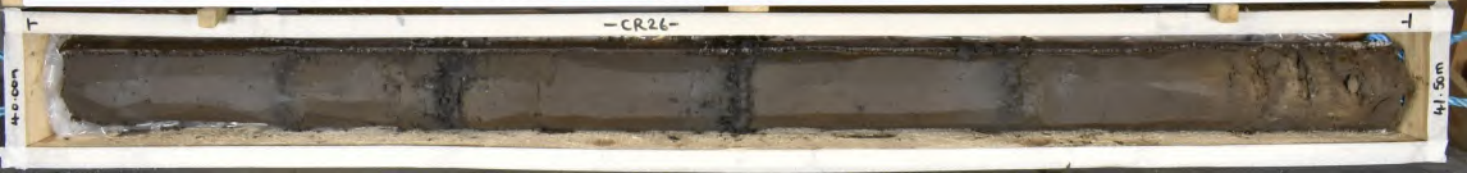
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

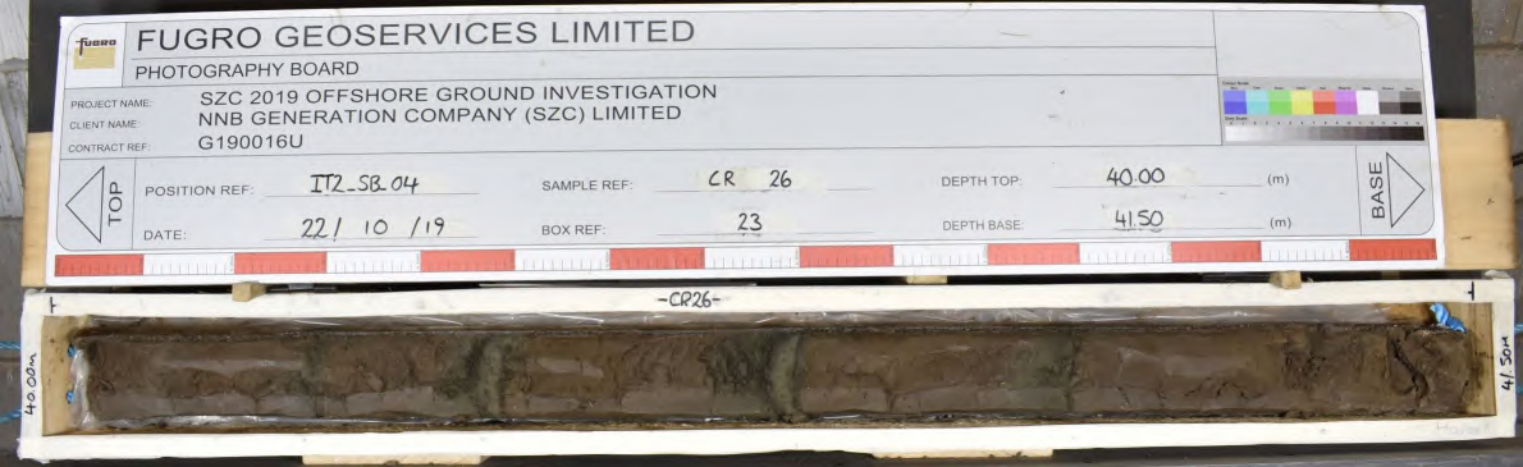
TOP

POSITION REF: IT2_SB_04 SAMPLE REF: CR 26 DEPTH TOP: 40.00 (m)

DATE: 21/08/19 BOX REF: 23 DEPTH BASE: 41.50 (m)

BASE




FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_SB_04
SAMPLE REF: CR 26
DEPTH TOP: 40.00 (m)
DATE: 22/ 10 /19
BOX REF: 23
DEPTH BASE: 41.50 (m)
BASE
-CR26-
40.00m
41.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2-SB-04 SAMPLE REF: CR 27 DEPTH TOP: 41.50 (m)

DATE: 21/08/19 BOX REF: 24 DEPTH BASE: 43.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04
SAMPLE REF: CR 27
DEPTH TOP: 41.50 (m)
DATE: 22/ 10 /19
BOX REF: 24
DEPTH BASE: 43.00 (m)

BASE

-CR27-

41.50m

43.00m

FUGRO

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04 SAMPLE REF: CR 28 DEPTH TOP: 43.00 (m)

DATE: 21/08/19 BOX REF: 25 DEPTH BASE: 44.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04
SAMPLE REF: CR 28
DEPTH TOP: 43.00 (m)

DATE: 22/ 10 /19
BOX REF: 25
DEPTH BASE: 44.50 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

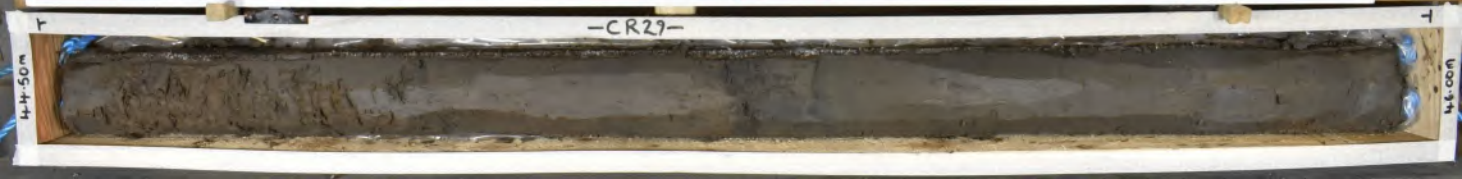
CONTRACT REF: G190016U

TOP

POSITION REF: IT2-SB-04 SAMPLE REF: CR 29 DEPTH TOP: 44.50 (m)

DATE: 21/08/19 BOX REF: 26 DEPTH BASE: 46.00 (m)

BASE



FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04 SAMPLE REF: CR 29 DEPTH TOP: 44.50 (m)

DATE: 22/10/19 BOX REF: 26 DEPTH BASE: 46.00 (m)

BASE

-CR29-

44.50m

46.00m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT2-SB-04 SAMPLE REF: CR 30 DEPTH TOP: 46.00 (m)

DATE: 21/08/19 BOX REF: 27 DEPTH BASE: 47.50 (m)

BASE

-CR30-

46.00m

47.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04 SAMPLE REF: CR 30 DEPTH TOP: 46.00 (m)

DATE: 22/ 10 /19 BOX REF: 27 DEPTH BASE: 47.50 (m)

BASE

-CR30-

46.00m

47.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2-SB-04 SAMPLE REF: CR 31 DEPTH TOP: 47.50 (m)

DATE: 21/08/19 BOX REF: 28 DEPTH BASE: 49.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04

SAMPLE REF: CR 31

DEPTH TOP: 47.50 (m)

DATE: 22/ 10 /19

BOX REF: 28

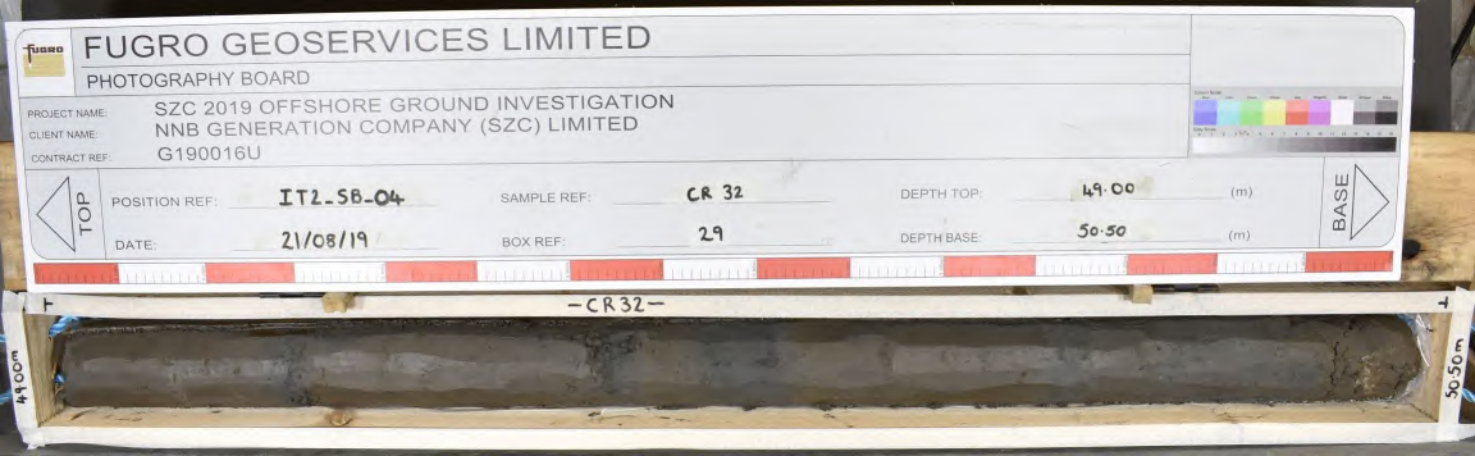
DEPTH BASE: 4900 (m)

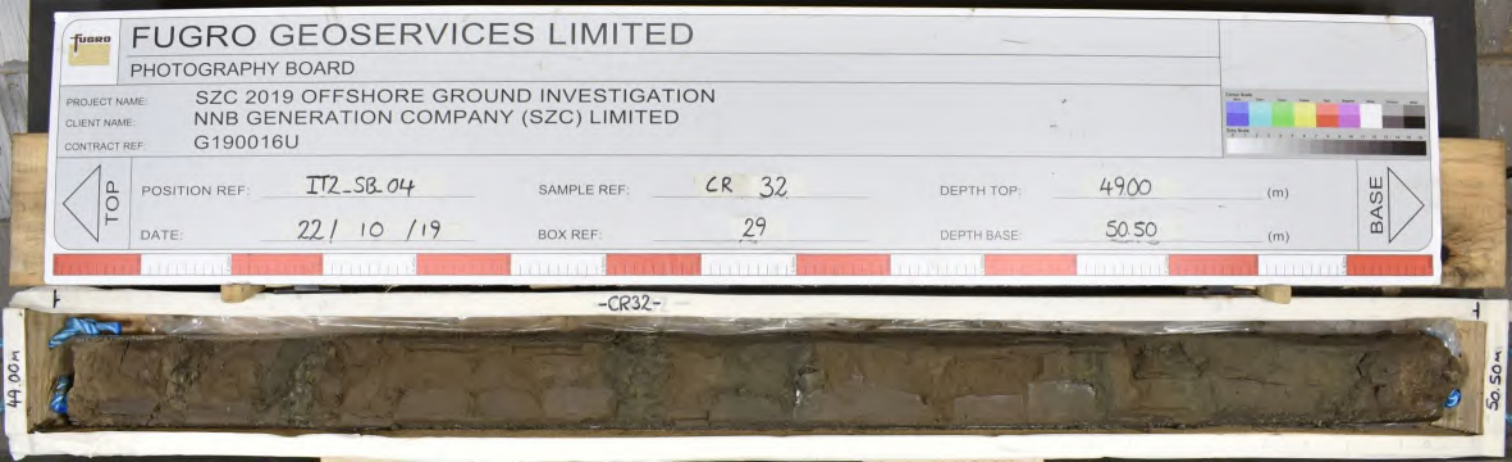
BASE

-CR31-

47.50m

49.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2-SB-04
SAMPLE REF: CR 32
DEPTH TOP: 49.00 (m)
DATE: 21/08/19
BOX REF: 29
DEPTH BASE: 50.50 (m)
BASE
-CR32-
49.00m
50.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_SB.04
SAMPLE REF: CR 32
DEPTH TOP: 49.00 (m)
DATE: 22/ 10 /19
BOX REF: 29
DEPTH BASE: 50.50 (m)
BASE
-CR32-
49.00m
50.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2-SB-04 SAMPLE REF: CR 33 DEPTH TOP: 50·50 (m)

DATE: 21/08/19 BOX REF: 30 DEPTH BASE: 52·00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04
SAMPLE REF: CR 33
DEPTH TOP: 50.50 (m)

DATE: 22/ 10 /19
BOX REF: 30
DEPTH BASE: 52.00 (m)

BASE

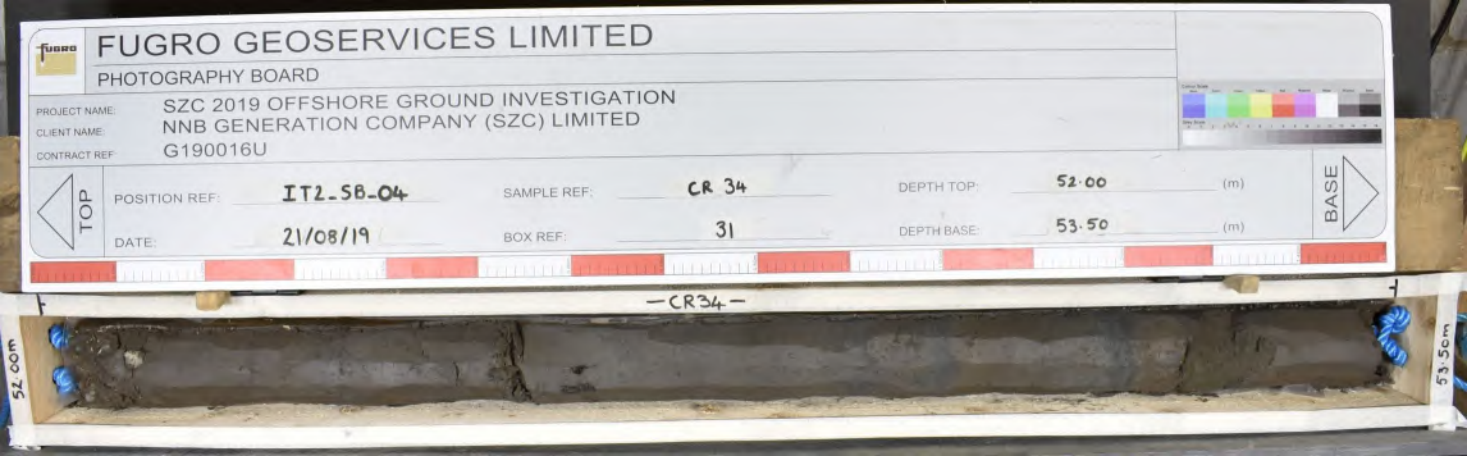
-CR33-

50.50m

52.00m

CB 50.50 50.60

CB Bulk Ds 50.60m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2-SB-04
SAMPLE REF: CR 34
DEPTH TOP: 52.00 (m)
DATE: 21/08/19
BOX REF: 31
DEPTH BASE: 53.50 (m)
BASE
-CR34-
52.00m
53.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04
SAMPLE REF: CR 34
DEPTH TOP: 52.00 (m)

DATE: 22/ 10 /19
BOX REF: 31
DEPTH BASE: 53.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04 SAMPLE REF: CR 35 DEPTH TOP: 53.50 (m)

DATE: 21/08/19 BOX REF: 32 DEPTH BASE: 55.00 (m)

BASE

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PHOTOGRAPHY BOARD

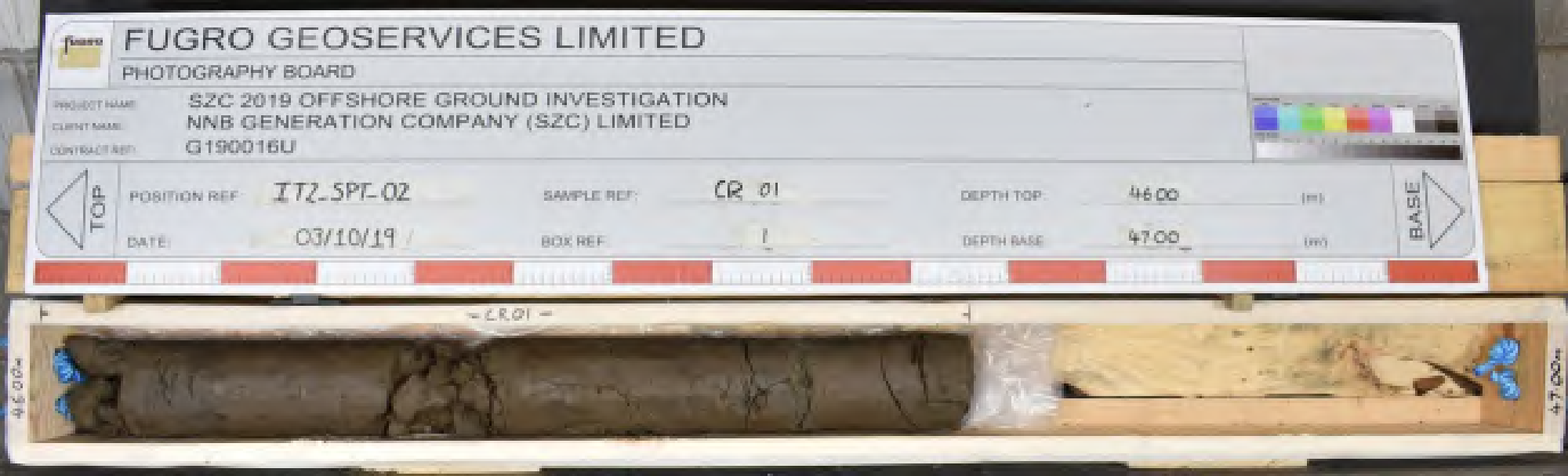
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SB_04
SAMPLE REF: CR 35
DEPTH TOP: 53.50 (m)

DATE: 22/ 10 /19
BOX REF: 32
DEPTH BASE: 55.00 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: ITZ_SPT-02
SAMPLE REF: CR 01
DEPTH TOP: 46.00 (m)
DATE: 03/10/19
BOX REF: 1
DEPTH BASE: 47.00 (m)
BASE
~CR01~
46.00m
47.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SPT_02 SAMPLE REF: CR 01 DEPTH TOP: 46.00 (m)

DATE: 03/10/19 BOX REF: 01 DEPTH BASE: 47.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

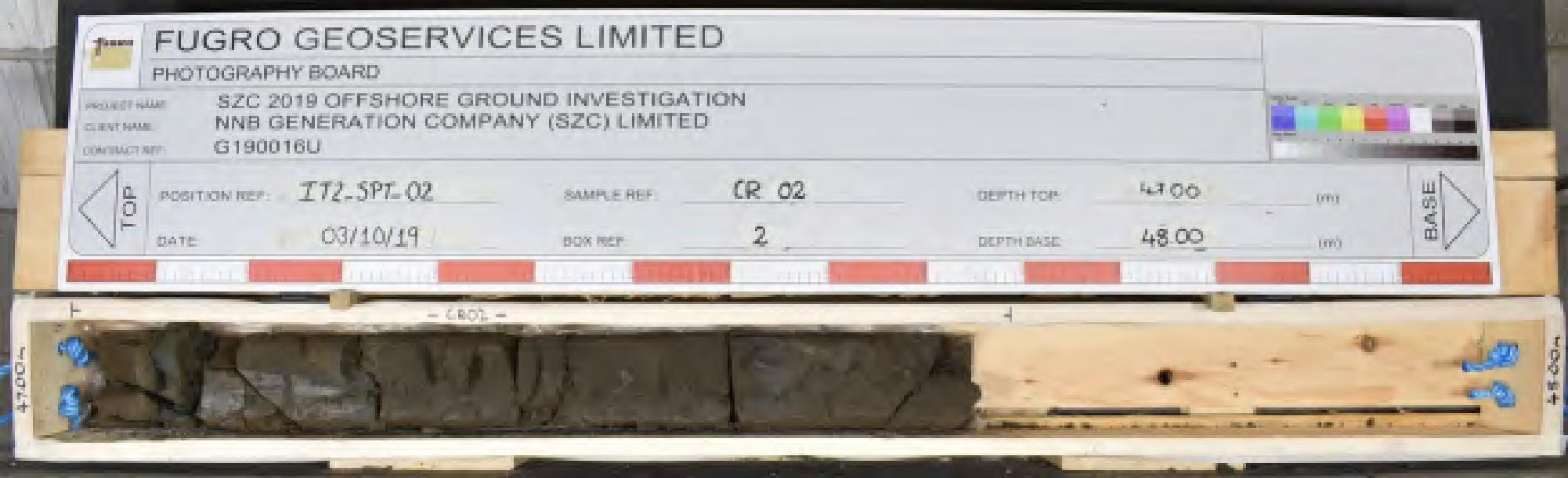
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SPT-02 SAMPLE REF: CR 02 DEPTH TOP: 47.00 (m)

DATE: 03/10/19 BOX REF: 2 DEPTH BASE: 48.00 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2-SPT-02
SAMPLE REF: CR 02
DEPTH TOP: 44.00 (m)
DATE: 03/10/19
BOX REF: 2
DEPTH BASE: 48.00 (m)
BASE
- CROP -
47.00
48.00

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PHOTOGRAPHY BOARD

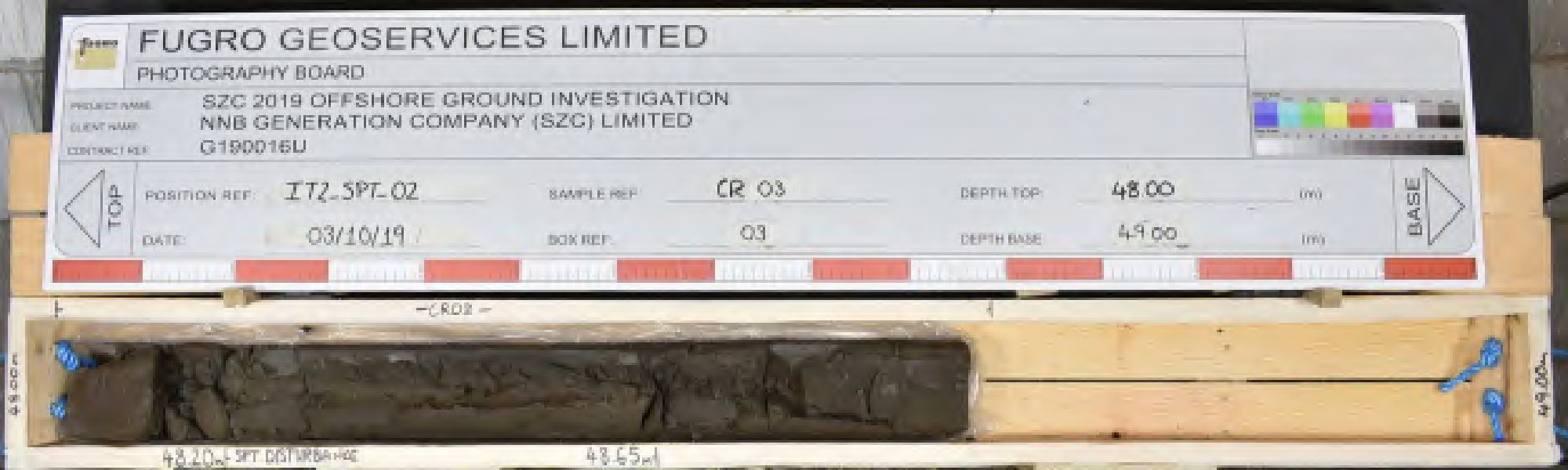
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: ITZ-SPT-02
SAMPLE REF: CR 03
DEPTH TOP: 48.00 (m)

DATE: 03/10/19
BOX REF: 3
DEPTH BASE: 49.00 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_SPT_02
SAMPLE REF: CR 03
DEPTH TOP: 48.00 (m)
DATE: 03/10/19
BOX REF: 03
DEPTH BASE: 49.00 (m)
BASE
CR03
48.20m SPT DISTURBANCE
48.65m
48.00m
49.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SPT-02 SAMPLE REF: CR 04+05 DEPTH TOP: 49.00 (m)

DATE: 03/10/19 BOX REF: 4 DEPTH BASE: 50.50 (m)

BASE

NOTE : SPT DISTURBANCE 50.08 - 50.50m

NOTE: 008m OF CR05 PICKED UP IN CR04

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SPT_02
SAMPLE REF: CR 04+05
DEPTH TOP: 49.00 (m)
DATE: 03/10/19
BOX REF: 04
DEPTH BASE: 50.50 (m)

BASE

NOTE : SPT DISTURBANCE 50.08-50.50m

NOTE: 0.08m OF CR05 PICKED UP IN CR04

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: ITZ_SPT_02

SAMPLE REF: CR 06

DEPTH TOP: 50.50 (m)

DATE: 03/10/19

BOX REF: 05

DEPTH BASE: 52.00 (m)

BASE

-CR06-

50.50m

52.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: IT2_SPT-02 SAMPLE REF: CR_06 DEPTH TOP: 50.50 (m)

DATE: 03/10/19 BOX REF: 05 DEPTH BASE: 51.00 (m)

BASE

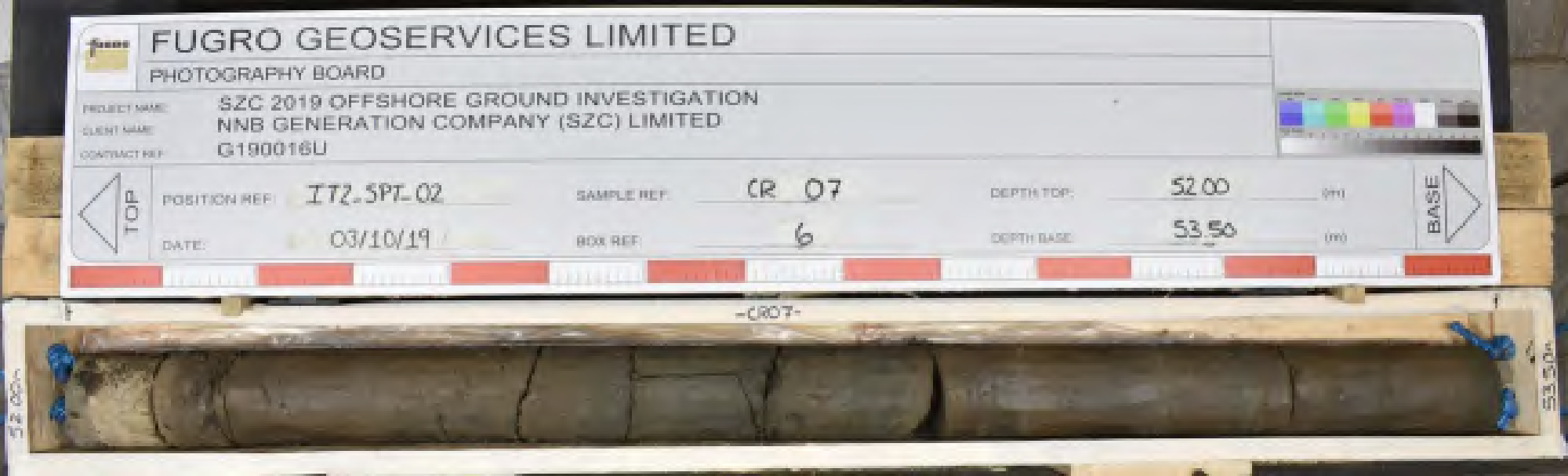
-CR06-

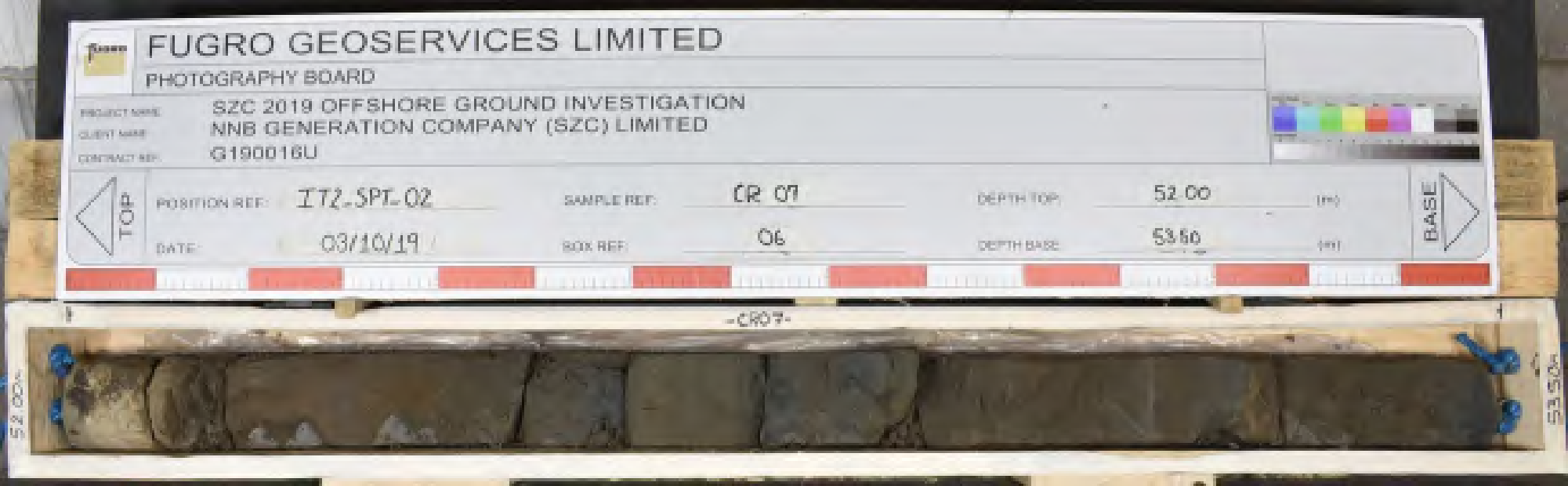
50.50m

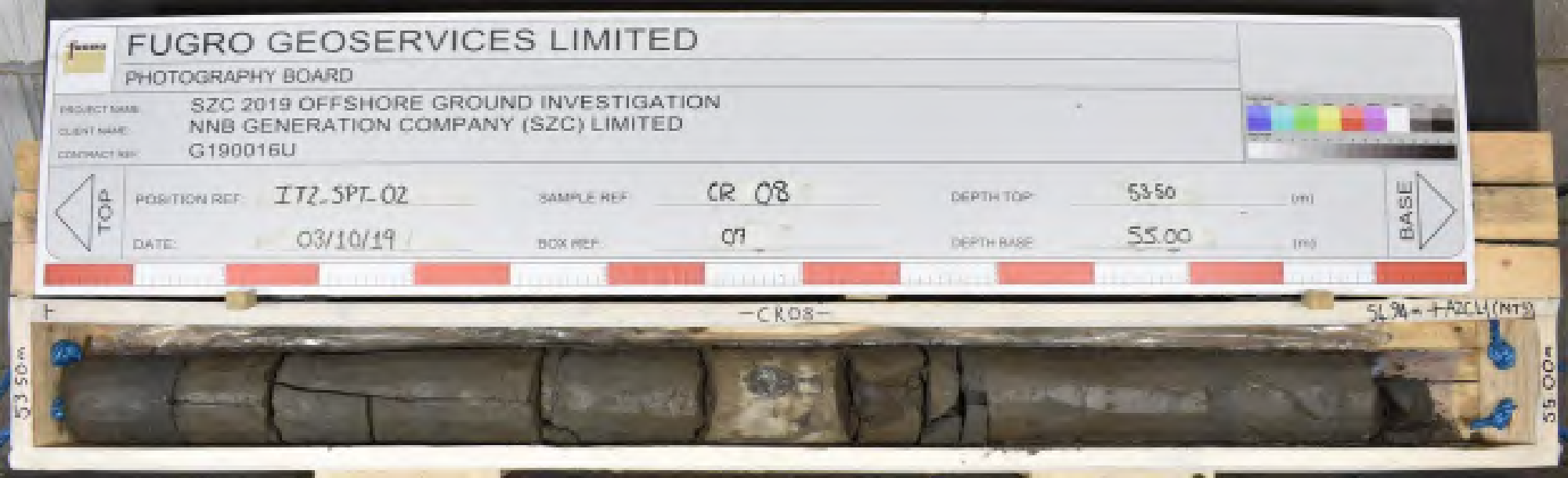
C3; TRIAXIAL; 50.50-51.03 D4

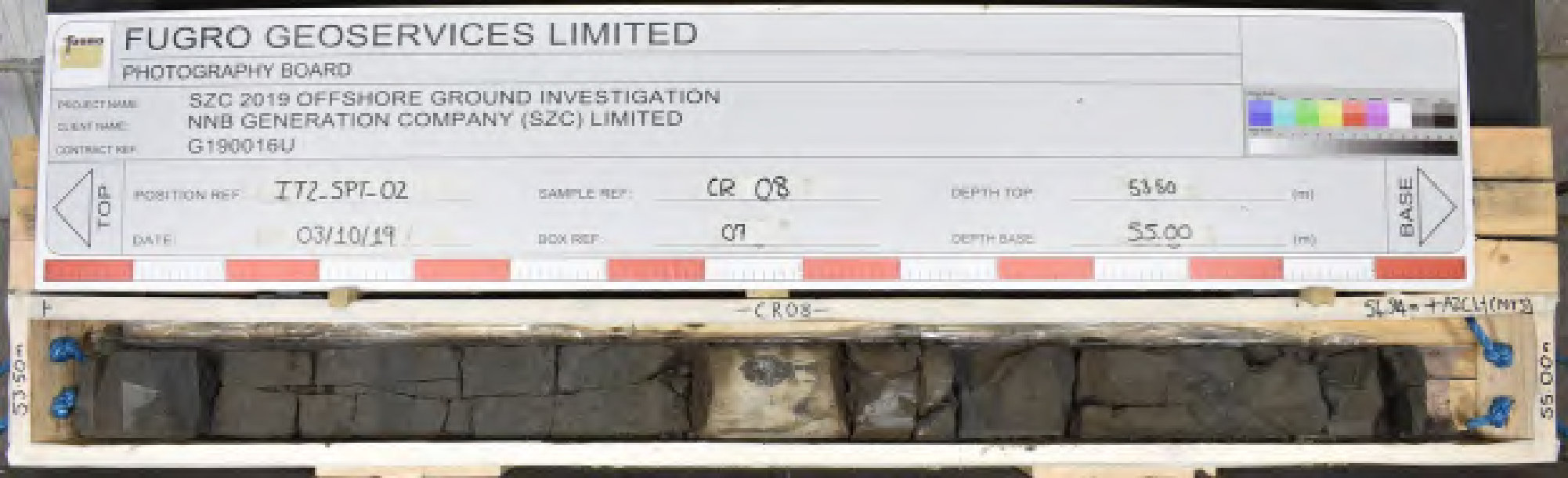
51.00m

HC3;Triaxial; 50.50-51.03m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2-SPT-02
SAMPLE REF: CR 07
DEPTH TOP: 52.00 (m)
DATE: 03/10/19
BOX REF: 6
DEPTH BASE: 53.50 (m)
BASE
-CR07-
52.00m
53.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: ITZ-SPL-02
SAMPLE REF: CR 07
DEPTH TOP: 52.00 (m)
DATE: 03/10/19
BOX REF: 06
DEPTH BASE: 53.50 (m)
BASE
-CR07-
52.00m
53.50m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: IT2_SPT_02
DATE: 03/10/19
SAMPLE REF: CR 08
BOX REF: 09
DEPTH TOP: 53.50 (m)
DEPTH BASE: 55.00 (m)
BASE
-CR08-
53.50m
55.00m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: TT2_SPT-02
SAMPLE REF: CR 08
DEPTH TOP: 53.50 (m)
DATE: 03/10/19
BOX REF: 07
DEPTH BASE: 55.00 (m)
BASE
-CR08-
53.50
55.00

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
SAMPLE REF: CR 1
DEPTH TOP: 0.00 (m)
DATE: 13/08/19
BOX REF: 1
DEPTH BASE: 1.50 (m)

BASE

AZCL — CR1 — +0.74m

0.00m

1.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
SAMPLE REF: CR 2
DEPTH TOP: 1.50 (m)
DATE: 13/08/19
BOX REF: 2
DEPTH BASE: 3.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
SAMPLE REF: CR 3
DEPTH TOP: 3.00 (m)

DATE: 13/08/19
BOX REF: 3
DEPTH BASE: 4.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT-SB-01
SAMPLE REF: CR 4
DEPTH TOP: 4.50 (m)

DATE: 13/08/19
BOX REF: 4
DEPTH BASE: 6.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT-SB-01
DATE: 13/08/19
SAMPLE REF: CR 5
BOX REF: 5
DEPTH TOP: 6.00 (m)
DEPTH BASE: 7.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
SAMPLE REF: CR 6
DEPTH TOP: 7.50 (m)

DATE: 13/08/19
BOX REF: 6
DEPTH BASE: 9.00 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01

SAMPLE REF: CR 7

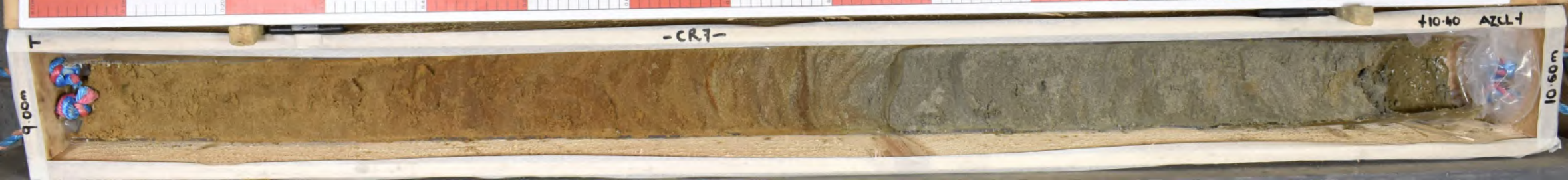
DEPTH TOP: 9.00 (m)

DATE: 13/08/19

BOX REF: 7

DEPTH BASE: 10.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
SAMPLE REF: CR 8
DEPTH TOP: 10.50 (m)

DATE: 13/08/19
BOX REF: 8
DEPTH BASE: 12.00 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT-SB-01
SAMPLE REF: CR 9
DEPTH TOP: 12.00 (m)
DATE: 13/08/19
BOX REF: 9
DEPTH BASE: 13.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
SAMPLE REF: CR 10
DEPTH TOP: 13.50 (m)

DATE: 13/08/19
BOX REF: 10
DEPTH BASE: 15.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT-SB-01
SAMPLE REF: CR 11
DEPTH TOP: 15.00 (m)
DATE: 13/08/19
BOX REF: 11
DEPTH BASE: 16.50 (m)

BASE

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PHOTOGRAPHY BOARD

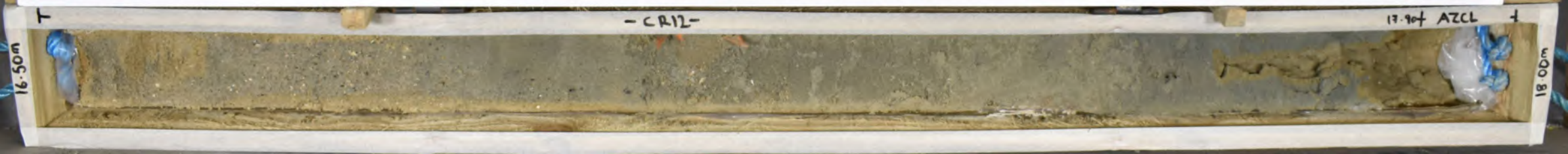
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
SAMPLE REF: CR 12
DEPTH TOP: 16.50 (m)

DATE: 13/08/19
BOX REF: 12
DEPTH BASE: 18.00 (m)

BASE



FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_01
SAMPLE REF: CR 13
DEPTH TOP: 18.00 (m)
DATE: 13/08/19
BOX REF: —
DEPTH BASE: 19.50 (m)
BASE
NO RECOVERY -CR13-
18.00m
19.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
SAMPLE REF: CR 14
DEPTH TOP: 19.50 (m)

DATE: 13/08/19
BOX REF: 13
DEPTH BASE: 21.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
SAMPLE REF: CR 15
DEPTH TOP: 21.00 (m)
DATE: 13/08/19
BOX REF: 14
DEPTH BASE: 22.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
SAMPLE REF: CR 16
DEPTH TOP: 22.50 (m)

DATE: 13/08/19
BOX REF: 15
DEPTH BASE: 24.00 (m)

BASE

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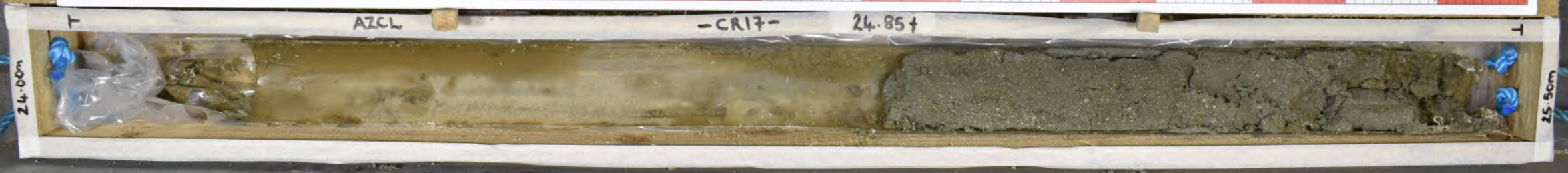
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
SAMPLE REF: CR 17
DEPTH TOP: 24.00 (m)
DATE: 13/08/19
BOX REF: 16
DEPTH BASE: 25.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
DATE: 14/08/19
SAMPLE REF: CR 18
BOX REF: 17
DEPTH TOP: 25.50 (m)
DEPTH BASE: 27.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01 SAMPLE REF: CR 19 DEPTH TOP: 27.00 (m)

DATE: 14/08/19 BOX REF: 18 DEPTH BASE: 28.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
SAMPLE REF: CR 20
DEPTH TOP: 28.50 (m)
DATE: 14/08/19
BOX REF: 19
DEPTH BASE: 30.00 (m)

BASE

FUGRO GEOSERVICES LIMITED

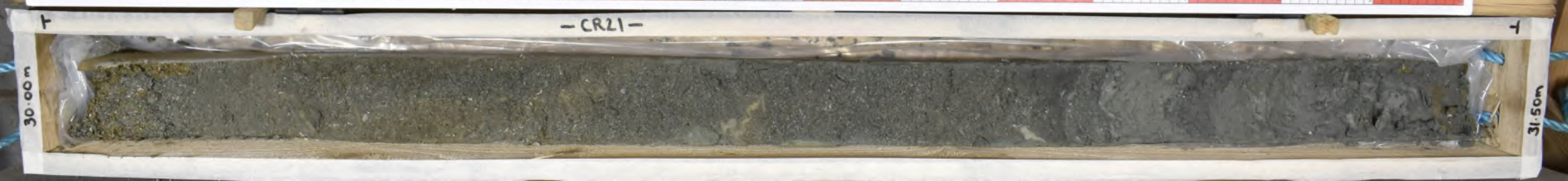
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
SAMPLE REF: CR 21
DEPTH TOP: 30.00 (m)
DATE: 14/08/19
BOX REF: 20
DEPTH BASE: 31.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT-SB-01
DATE: 14/08/19
SAMPLE REF: CR 22
BOX REF: 21
DEPTH TOP: 31.50 (m)
DEPTH BASE: 33.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
SAMPLE REF: CR 23
DEPTH TOP: 33.00 (m)

DATE: 14/08/19
BOX REF: 22
DEPTH BASE: 34.50 (m)

BASE

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PHOTOGRAPHY BOARD

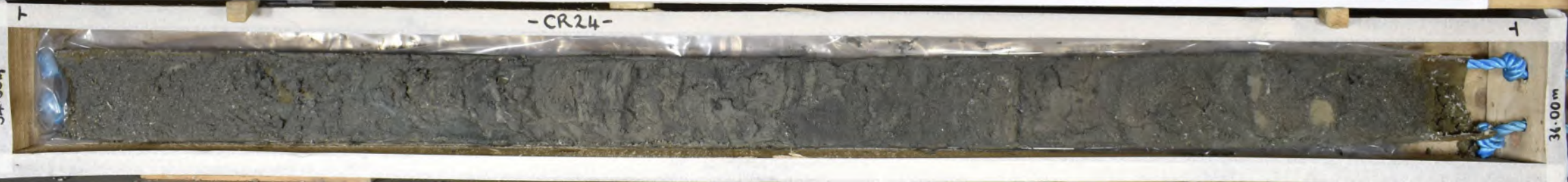
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
SAMPLE REF: CR 24
DEPTH TOP: 34.50 (m)

DATE: 14/08/19
BOX REF: 23
DEPTH BASE: 36.00 (m)

BASE



FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01

DATE: 14/08/19

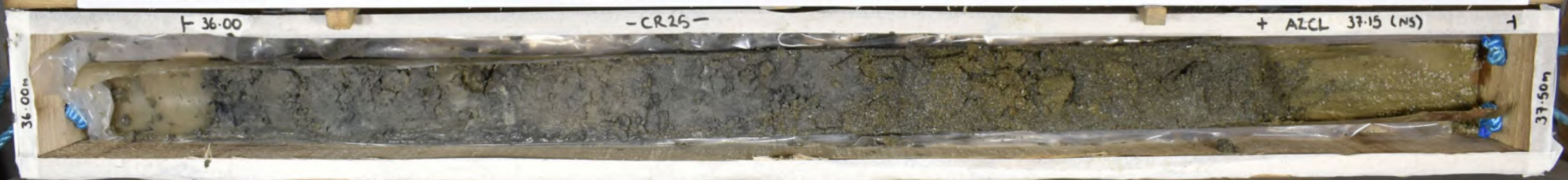
SAMPLE REF: CR 25

BOX REF: 24

DEPTH TOP: 36.00 (m)

DEPTH BASE: 37.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
DATE: 14/08/19
SAMPLE REF: CR 26
BOX REF: 25
DEPTH TOP: 37.50 (m)
DEPTH BASE: 39.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
DATE: 14/08/19
SAMPLE REF: CR 27
BOX REF: 26
DEPTH TOP: 39.00 (m)
DEPTH BASE: 40.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
SAMPLE REF: CR 28
DEPTH TOP: 40·50 (m)

DATE: 14/08/19
BOX REF: 27
DEPTH BASE: 42·00 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB-01
SAMPLE REF: CR 28
DEPTH TOP: 40.50 (m)

DATE: 15/10/19
BOX REF: 27
DEPTH BASE: 42.00 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
DATE: 14/08/19
SAMPLE REF: CR 29
BOX REF: 28
DEPTH TOP: 42.00 (m)
DEPTH BASE: 43.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
SAMPLE REF: CR 29
DEPTH TOP: 42.00 (m)

DATE: 15/10/19
BOX REF: 28
DEPTH BASE: 43.50 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01

DATE: 14/08/19

SAMPLE REF: CR 30

BOX REF: 29

DEPTH TOP: 43.50 (m)

DEPTH BASE: 45.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB-01
SAMPLE REF: CR 30
DEPTH TOP: 43.50 (m)

DATE: 15/10/19
BOX REF: 29
DEPTH BASE: 45.00 (m)

BASE

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

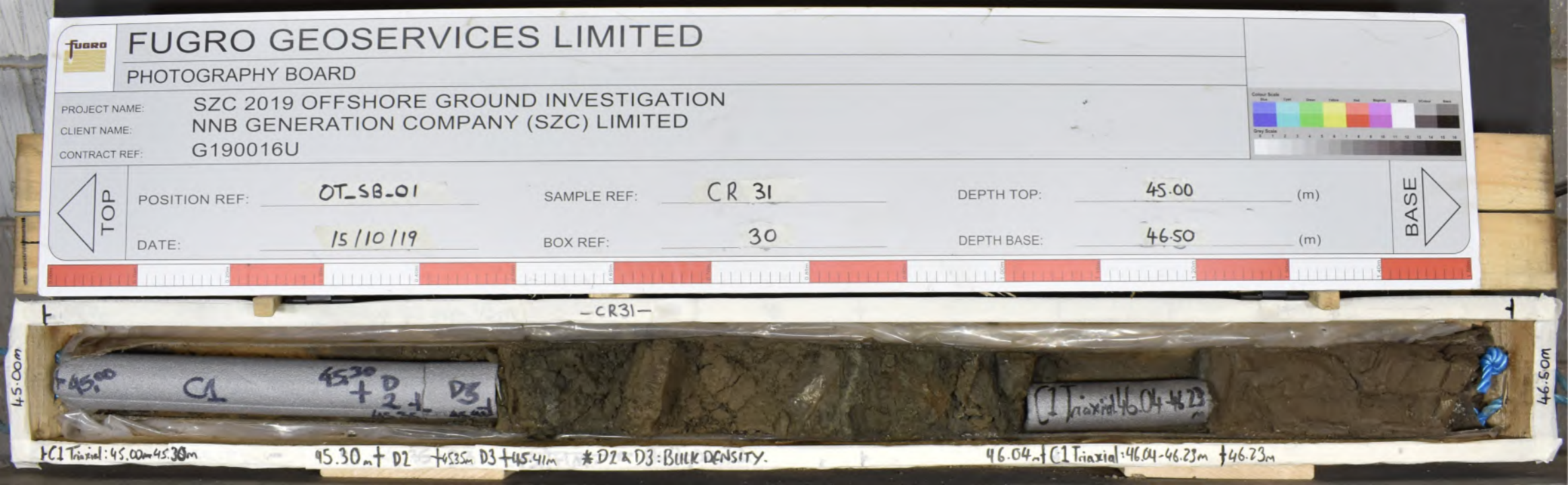
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
SAMPLE REF: CR 31
DEPTH TOP: 45.00 (m)

DATE: 14/08/19
BOX REF: 30
DEPTH BASE: 46.50 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_01
SAMPLE REF: CR 31
DEPTH TOP: 45.00 (m)
DATE: 15/10/19
BOX REF: 30
DEPTH BASE: 46.50 (m)
BASE
-CR31-
45.00m
46.50m
45.00
C1
45.30
D2
D3
C1 Triaxial 46.04 - 46.23m
C1 Triaxial: 45.00m-45.30m
45.30m D2
45.35m D3 45.41m
* D2 & D3: BULK DENSITY.
46.04m C1 Triaxial: 46.04-46.23m 46.23m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT-SB-01
SAMPLE REF: CR 32
DEPTH TOP: 46.50 (m)
DATE: 14/08/19
BOX REF: 31
DEPTH BASE: 48.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
DATE: 15/10/19
SAMPLE REF: CR 32
BOX REF: 31
DEPTH TOP: 46.50 (m)
DEPTH BASE: 48.00 (m)

BASE

48.00
1/1

-CR32-

46.50m

48.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT-SB-01
SAMPLE REF: CR 33
DEPTH TOP: 48.00 (m)

DATE: 14/08/19
BOX REF: 32
DEPTH BASE: 49.50 (m)

BASE

-CR33-

48.00m

49.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
DATE: 15/10/19
SAMPLE REF: CR 33
BOX REF: 32
DEPTH TOP: 48.00 (m)
DEPTH BASE: 49.50 (m)

BASE

-CR33-

48.00m

49.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
DATE: 14/08/19
SAMPLE REF: CR 34
BOX REF: 33
DEPTH TOP: 49.50 (m)
DEPTH BASE: 51.00 (m)

BASE

T

-CR34-

T

49.50m

51.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
SAMPLE REF: CR 34
DEPTH TOP: 49.50 (m)

DATE: 15/10/19
BOX REF: 33
DEPTH BASE: 51.00 (m)

BASE

CR34

49.50m

51.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
DATE: 14/08/19
SAMPLE REF: CR 35
BOX REF: 34
DEPTH TOP: 51.00 (m)
DEPTH BASE: 52.50 (m)

BASE

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PHOTOGRAPHY BOARD

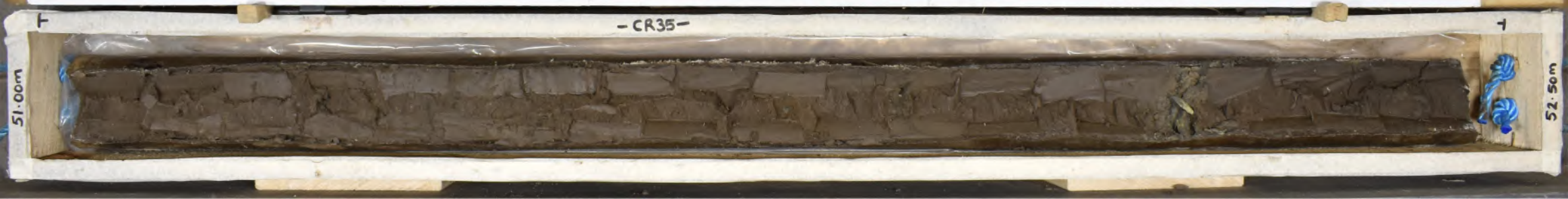
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
SAMPLE REF: CR 35
DEPTH TOP: 51.00 (m)

DATE: 15/10/19
BOX REF: 34
DEPTH BASE: 52.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT-SB-01
DATE: 14/08/19
SAMPLE REF: CR 36
BOX REF: 35
DEPTH TOP: 52.50 (m)
DEPTH BASE: 54.00 (m)

BASE

T — CR36 — 1

52.50m

54.00m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB-01
DATE: 15/10/19
SAMPLE REF: CR 36
BOX REF: 35
DEPTH TOP: 52.50 (m)
DEPTH BASE: 54.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT-SB-01
DATE: 14/08/19
SAMPLE REF: CR 37
BOX REF: 36
DEPTH TOP: 54.00 (m)
DEPTH BASE: 55.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_01
SAMPLE REF: CR 37
DEPTH TOP: 54.00 (m)

DATE: 15/10/19
BOX REF: 36
DEPTH BASE: 55.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02
DATE: 16/07/19
SAMPLE REF: CR 1
BOX REF: Box 1
DEPTH TOP: 0.00 (m)
DEPTH BASE: 1.50 (m)

BASE

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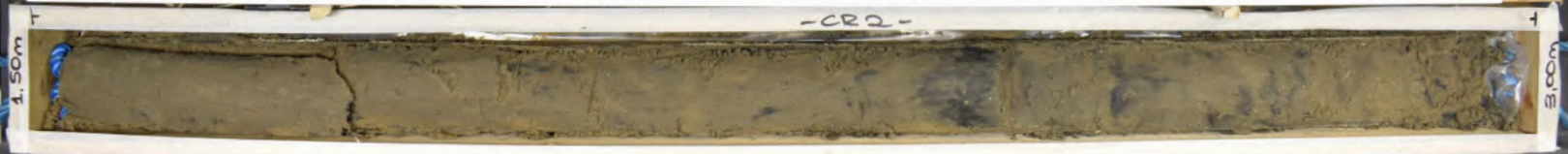
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02
SAMPLE REF: CR 2
DEPTH TOP: 1.50 (m)
DATE: 16/07/19
BOX REF: Box 2
DEPTH BASE: 3.00 (m)

BASE



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PHOTOGRAPHY BOARD

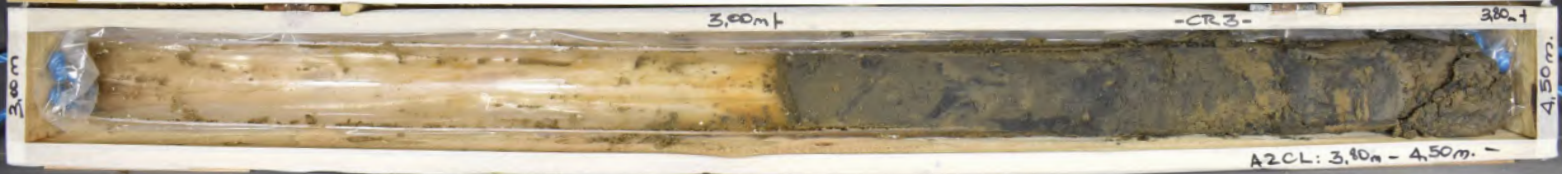
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02 SAMPLE REF: CR 3 DEPTH TOP: 3.00 (m)

DATE: 16/07/19 BOX REF: Box 3 DEPTH BASE: 4.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02
SAMPLE REF: CR 4
DEPTH TOP: 4.50 (m)

DATE: 16/07/19
BOX REF: Box 4
DEPTH BASE: 6.00 (m)

BASE

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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_02
SAMPLE REF: CR 5
DEPTH TOP: 6.00 (m)
DATE: 16/07/19
BOX REF: Box 5
DEPTH BASE: 7.50 (m)
BASE
-CR5-
East
West

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02 SAMPLE REF: CR 6 DEPTH TOP: 7.50 (m)

DATE: 16/07/19 BOX REF: Box 6 DEPTH BASE: 9.00 (m)

BASE

-CR6-

7.50 m

9.00m.

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02
DATE: 16/07/19
SAMPLE REF: CR 7
BOX REF: Box 7
DEPTH TOP: 9.00 (m)
DEPTH BASE: 10.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02
DATE: 16/07/19
SAMPLE REF: CR 8
BOX REF: Box 8
DEPTH TOP: 10.50 (m)
DEPTH BASE: 12.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02
DATE: 16/07/19
SAMPLE REF: CR 9
BOX REF: Box 9
DEPTH TOP: 12.00 (m)
DEPTH BASE: 13.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02
SAMPLE REF: CR 10
DEPTH TOP: 13.50 (m)

DATE: 16/07/19
BOX REF: Box 10
DEPTH BASE: 15.00 (m)

BASE

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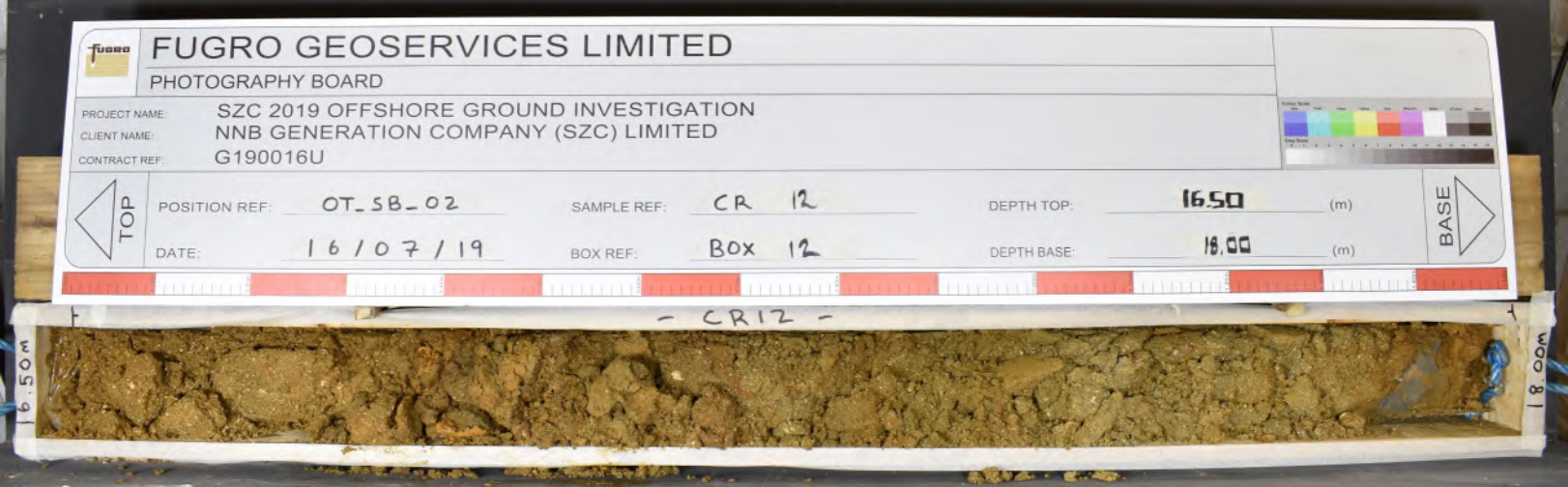
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02
DATE: 16/07/19
SAMPLE REF: CR 11
BOX REF: Box 11
DEPTH TOP: 15.00 (m)
DEPTH BASE: 16.50 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_02
SAMPLE REF: CR 12
DEPTH TOP: 16.50 (m)
DATE: 16/07/19
BOX REF: Box 12
DEPTH BASE: 18.00 (m)
BASE
- CR12 -
16.50m
18.00m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02
DATE: 16/07/19
SAMPLE REF: CR 13
BOX REF: Box 13
DEPTH TOP: 18.00 (m)
DEPTH BASE: 19.50 (m)

BASE

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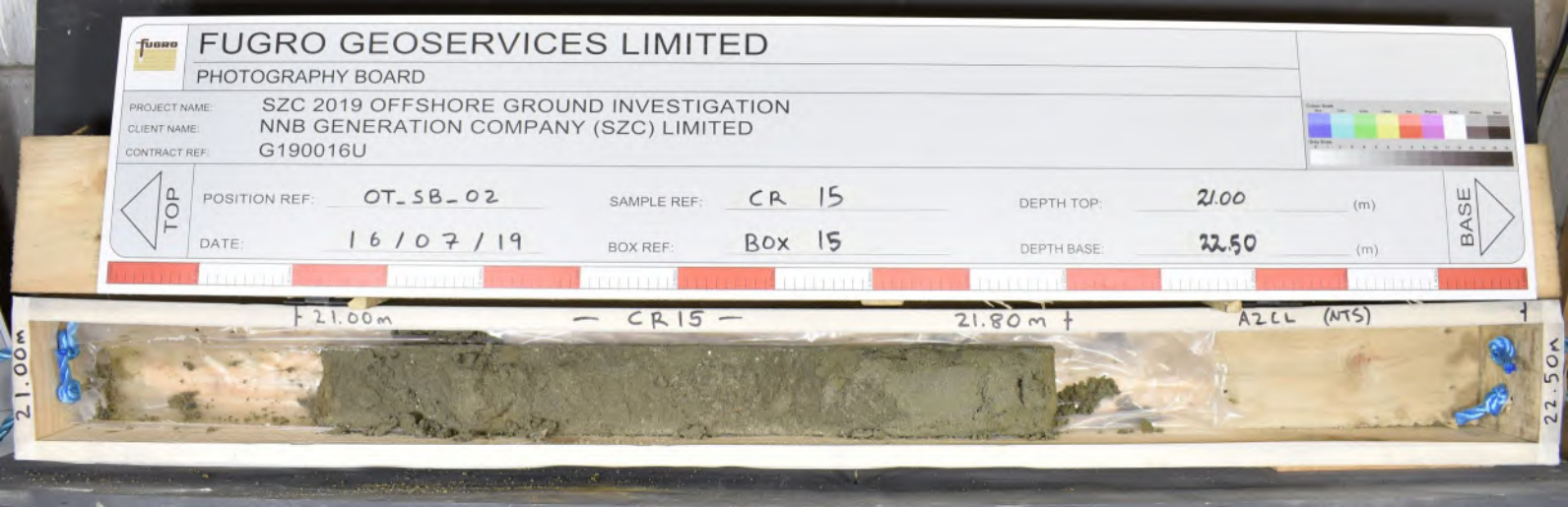
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02
DATE: 16/07/19
SAMPLE REF: CR 14
BOX REF: Box 14
DEPTH TOP: 19.50 (m)
DEPTH BASE: 21.00 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_02
SAMPLE REF: CR 15
DEPTH TOP: 21.00 (m)
DATE: 16/07/19
BOX REF: Box 15
DEPTH BASE: 22.50 (m)
BASE
21.00m
CR15
21.80m
AZCL (NTS)
21.00m
22.50m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02
SAMPLE REF: CR 16
DEPTH TOP: 22.50 (m)

DATE: 16/07/19
BOX REF: Box 16
DEPTH BASE: 24.00 (m)

BASE

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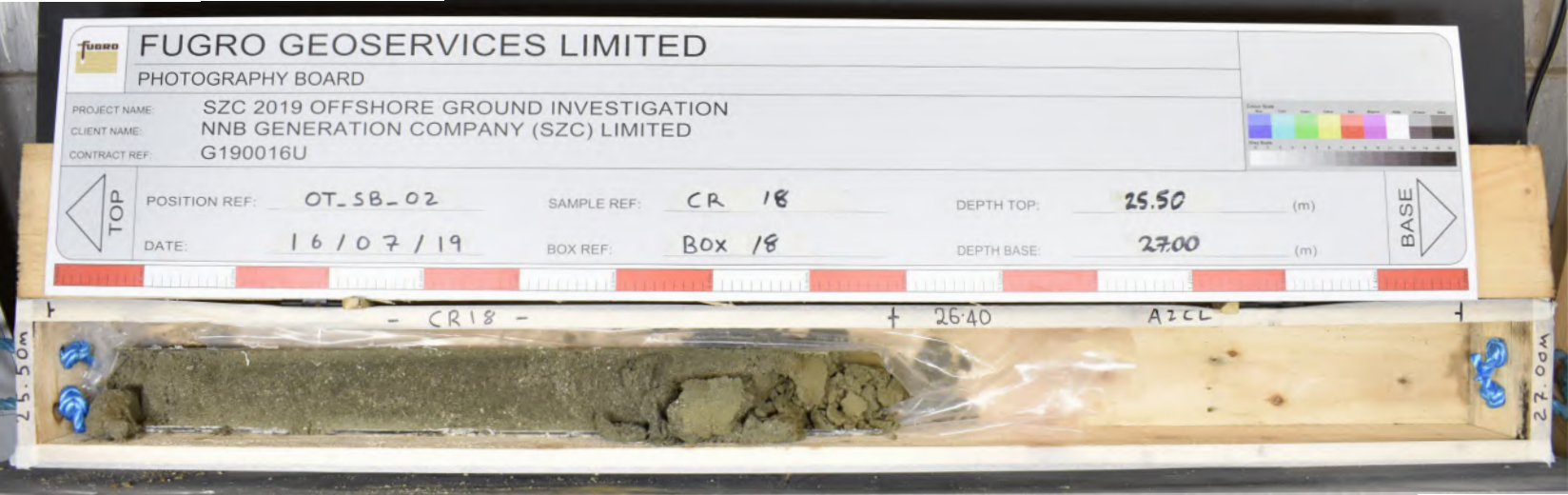
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02
DATE: 16/07/19
SAMPLE REF: CR 17
BOX REF: Box 17
DEPTH TOP: 24.00 (m)
DEPTH BASE: 25.50 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_02
SAMPLE REF: CR 18
DEPTH TOP: 25.50 (m)
DATE: 16/07/19
BOX REF: Box 18
DEPTH BASE: 27.00 (m)
BASE
- CR18 -
26.40
AZCL
25.50m
27.00m

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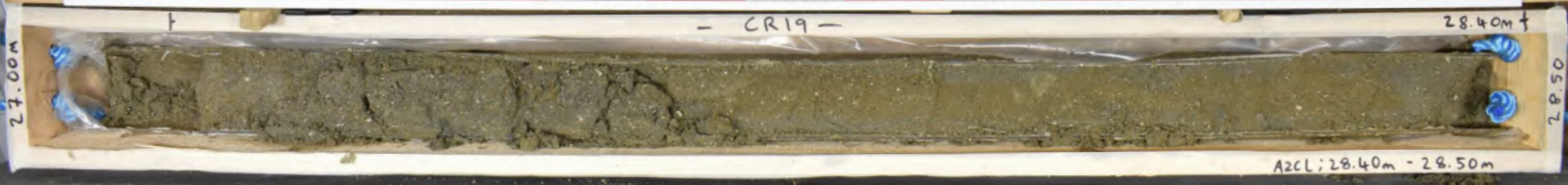
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02
DATE: 16/07/19
SAMPLE REF: CR 19
BOX REF: Box 19
DEPTH TOP: 27.00 (m)
DEPTH BASE: 28.50 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02
DATE: 16/07/19
SAMPLE REF: CR 20
BOX REF: Box 20
DEPTH TOP: 28.50 (m)
DEPTH BASE: 30.00 (m)

BASE

28.50m — CR20 — 29.80m + AZCL 30.00m

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PHOTOGRAPHY BOARD

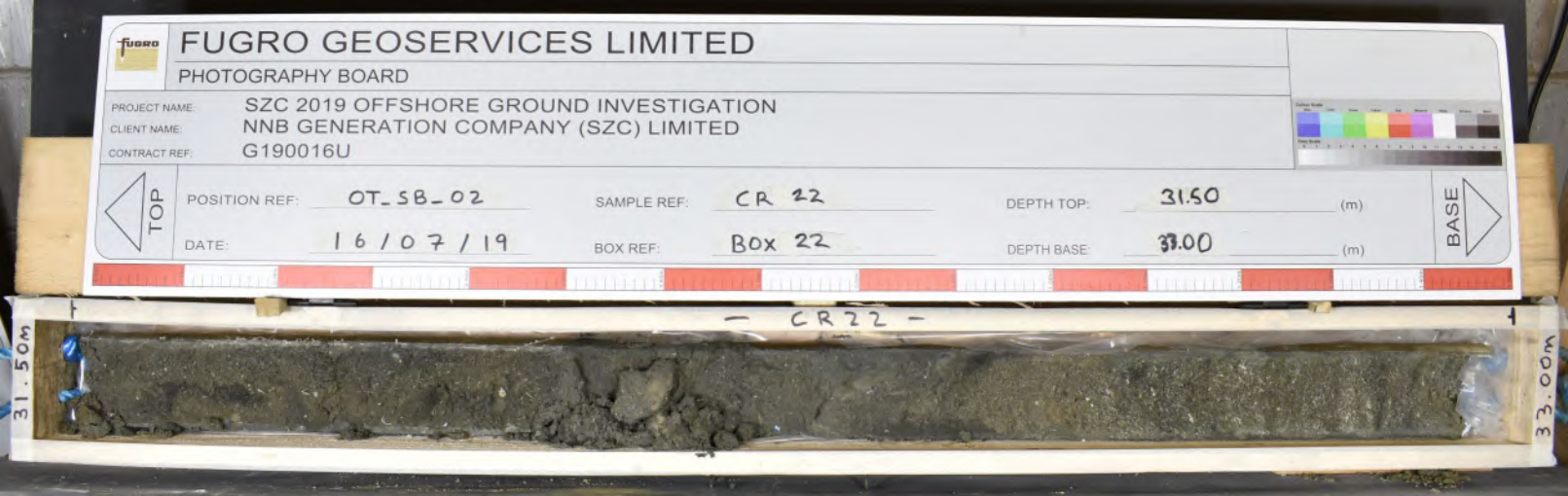
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02
SAMPLE REF: CR 21
DEPTH TOP: 30.00 (m)

DATE: 16/07/19
BOX REF: Box 21
DEPTH BASE: 31.50 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_02
SAMPLE REF: CR 22
DEPTH TOP: 31.50 (m)
DATE: 16/07/19
BOX REF: Box 22
DEPTH BASE: 33.00 (m)
BASE
CR22
31.50m
33.00m

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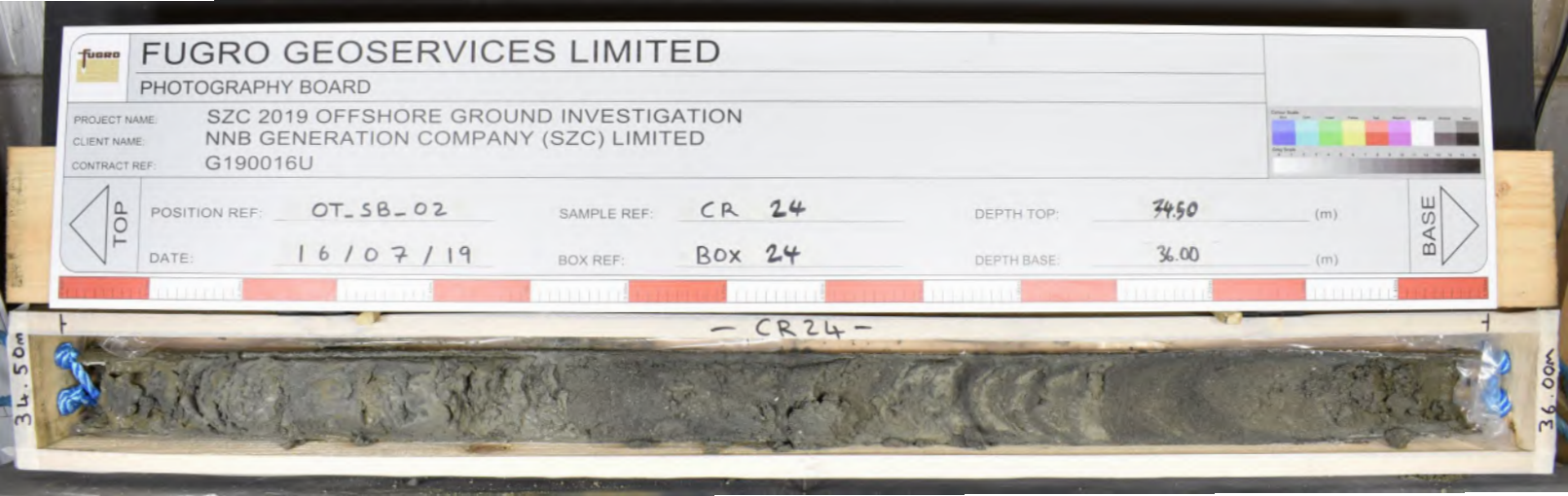
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02
SAMPLE REF: CR 23
DEPTH TOP: 33.00 (m)

DATE: 16/07/19
BOX REF: Box 23
DEPTH BASE: 34.50 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_02
SAMPLE REF: CR 24
DEPTH TOP: 34.50 (m)
DATE: 16/07/19
BOX REF: Box 24
DEPTH BASE: 36.00 (m)
BASE
CR24
34.50m
36.00m

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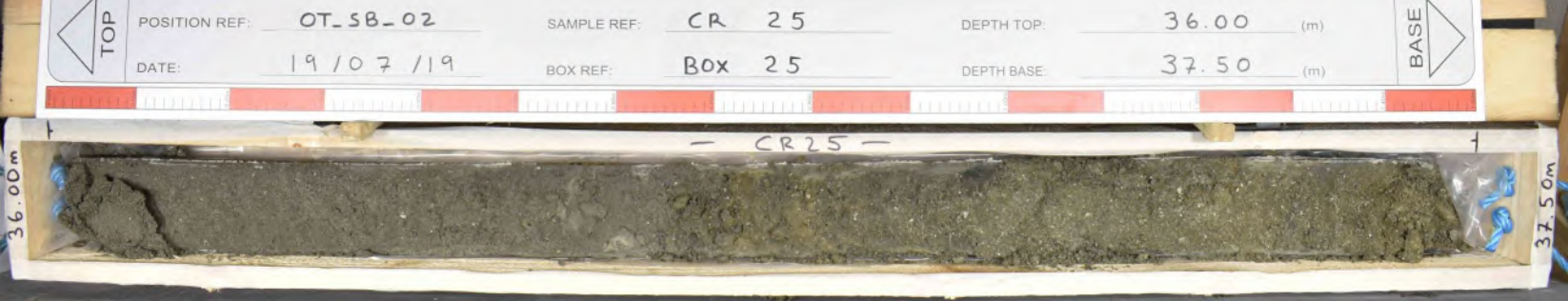
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

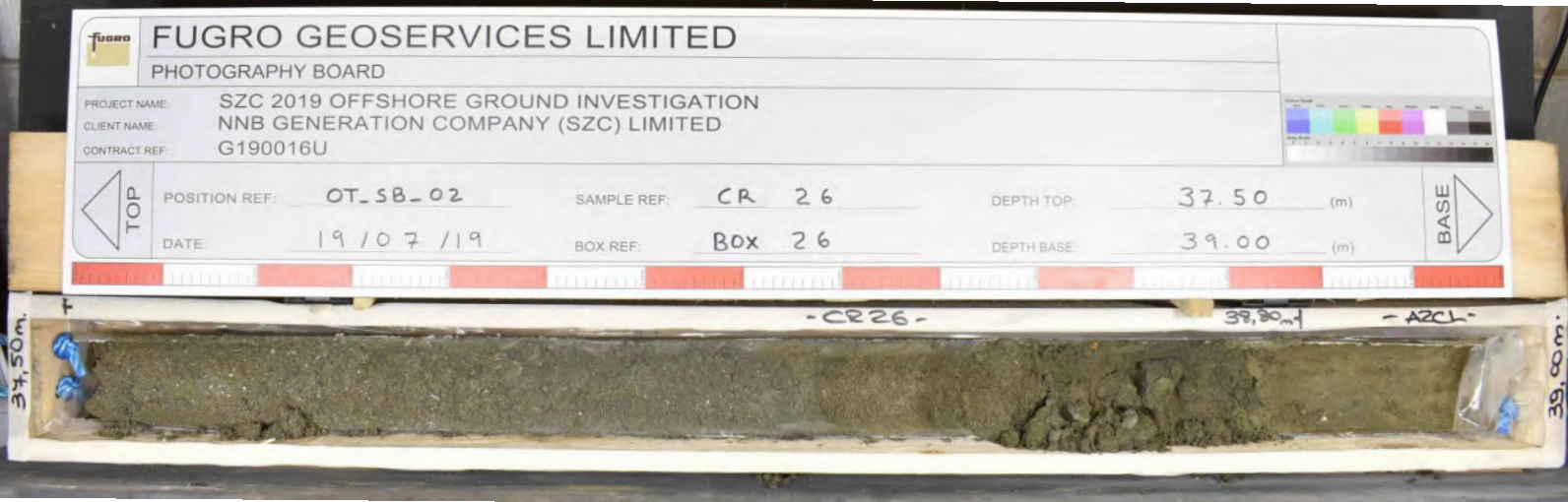
TOP

POSITION REF: OT_SB_02
SAMPLE REF: CR 25
DEPTH TOP: 36.00 (m)

DATE: 19/07/19
BOX REF: Box 25
DEPTH BASE: 37.50 (m)

BASE




FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_02
SAMPLE REF: CR 26
DEPTH TOP: 37.50 (m)
DATE: 19/07/19
BOX REF: Box 26
DEPTH BASE: 39.00 (m)
BASE
-CR26-
38.80m
-AZCL-
37.50m.
39.00m.

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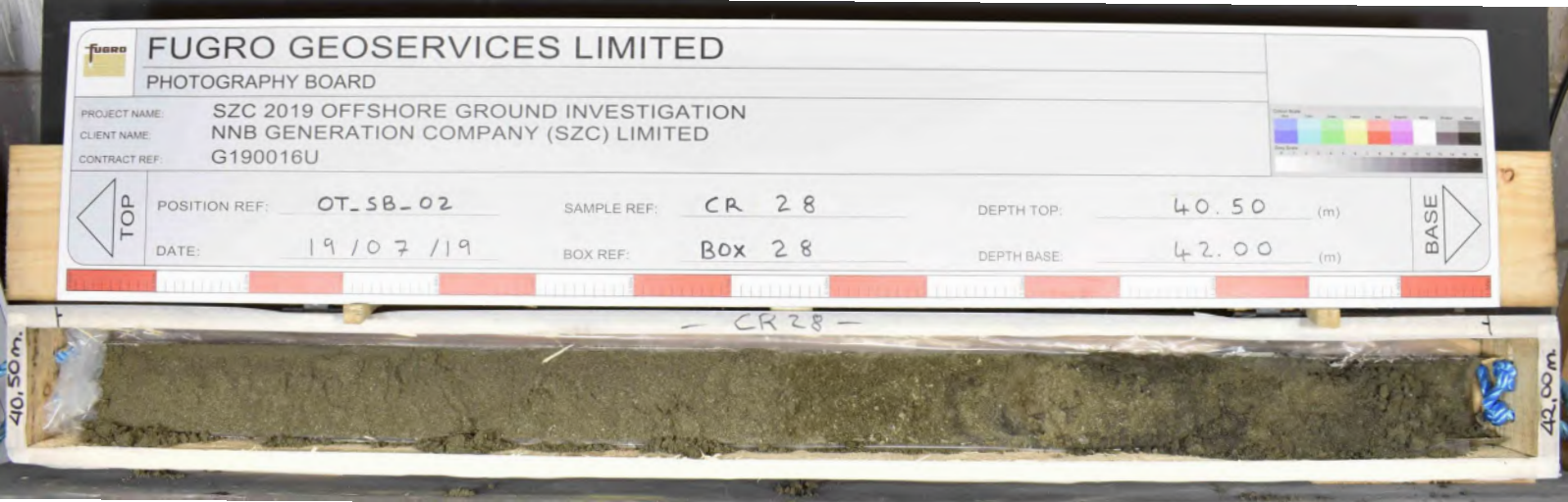
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02
DATE: 19/07/19
SAMPLE REF: CR 27
BOX REF: Box 27
DEPTH TOP: 39.00 (m)
DEPTH BASE: 40.50 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_02
SAMPLE REF: CR 28
DEPTH TOP: 40.50 (m)
DATE: 19/07/19
BOX REF: Box 28
DEPTH BASE: 42.00 (m)
BASE
– CR28 –
40.50m.
42.00m.

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02
SAMPLE REF: CR 29
DEPTH TOP: 42.00 (m)

DATE: 19/07/19
BOX REF: Box 29
DEPTH BASE: 43.50 (m)

BASE

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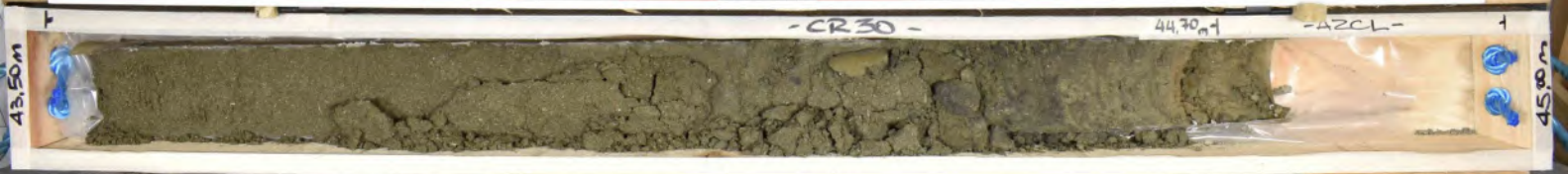
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02
DATE: 19/07/19
SAMPLE REF: CR 30
BOX REF: Box 30
DEPTH TOP: 43.50 (m)
DEPTH BASE: 45.00 (m)

BASE



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PHOTOGRAPHY BOARD

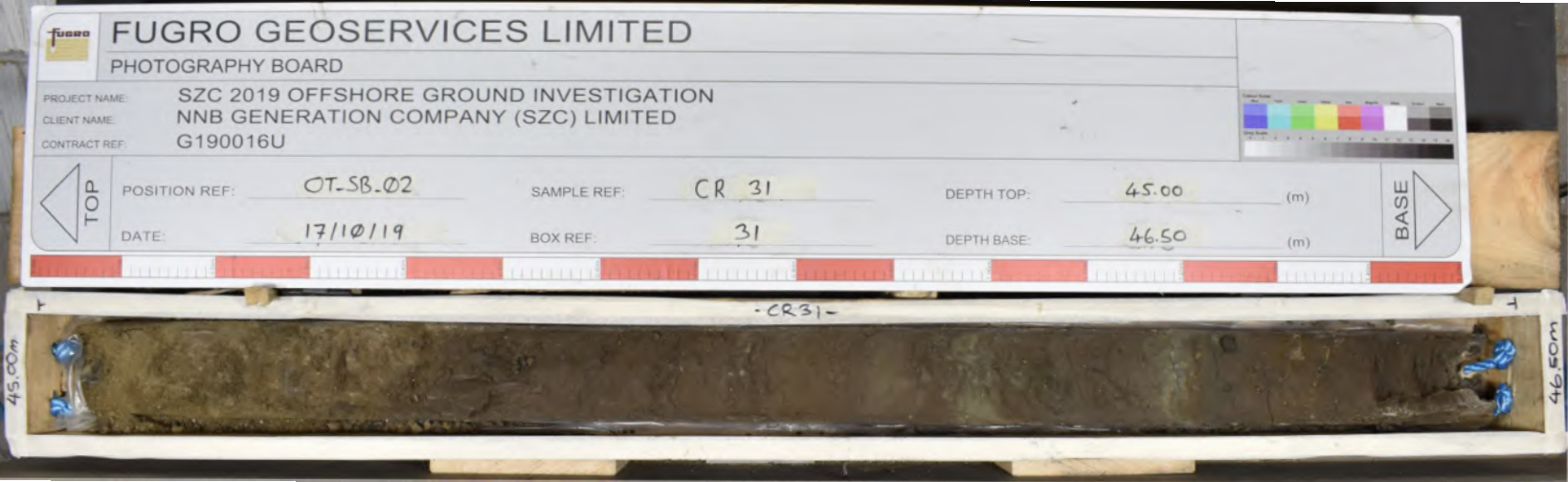
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02
SAMPLE REF: CR 31
DEPTH TOP: 45.00 (m)

DATE: 19/07/19
BOX REF: Box 31
DEPTH BASE: 46.50 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT-SB-02
SAMPLE REF: CR 31
DEPTH TOP: 45.00 (m)
DATE: 17/10/19
BOX REF: 31
DEPTH BASE: 46.50 (m)
BASE
-CR31-
45.00m
46.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02
SAMPLE REF: CR 32
DEPTH TOP: 46.50 (m)
DATE: 19/07/19
BOX REF: Box 32
DEPTH BASE: 48.00 (m)

BASE

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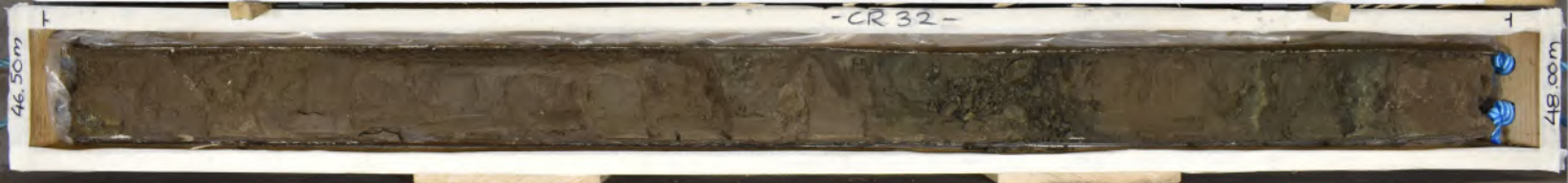
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT-SB-02
SAMPLE REF: CR 32
DEPTH TOP: 46.50 (m)
DATE: 17/10/19
BOX REF: 32
DEPTH BASE: 48.00 (m)

BASE



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PHOTOGRAPHY BOARD

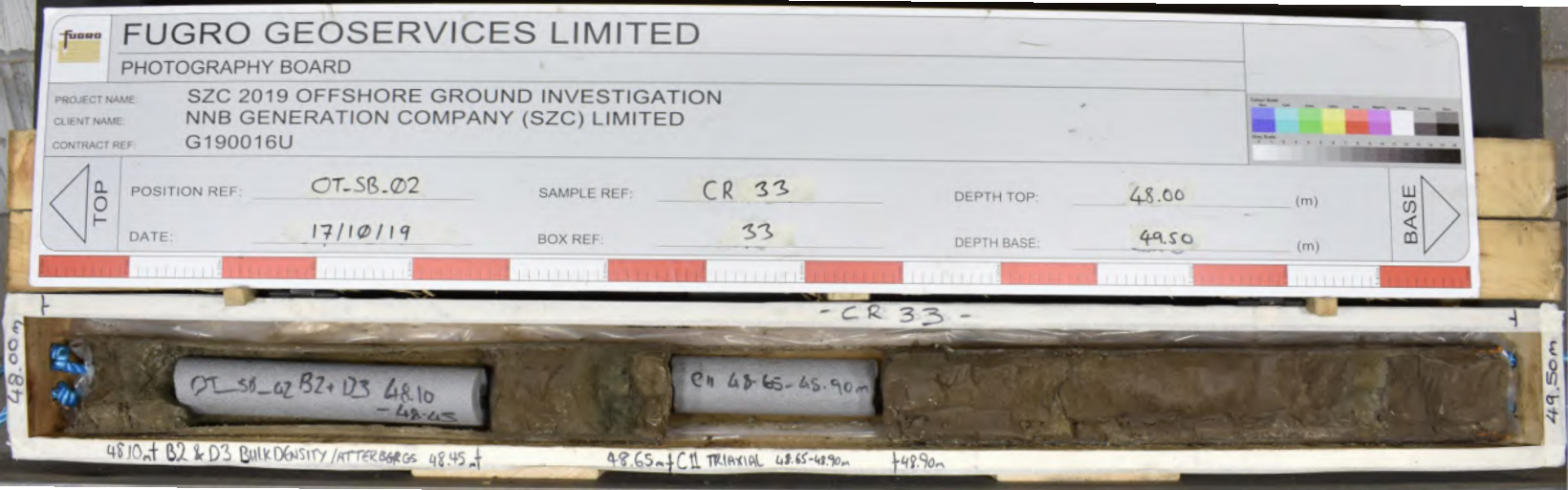
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02
SAMPLE REF: CR 33
DEPTH TOP: 48.00 (m)

DATE: 19/07/19
BOX REF: Box 33
DEPTH BASE: 49.50 (m)

BASE


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT-SB-02
SAMPLE REF: CR 33
DEPTH TOP: 48.00 (m)
DATE: 17/10/19
BOX REF: 33
DEPTH BASE: 49.50 (m)
BASE
- CR 33 -
48.00m
49.50m
OT_SB_02 B2+D3 48.10 - 48.45
C11 48.65 - 48.90m
48.10m B2 & D3 BULK DENSITY / ATTERBERGS 48.45m
48.65m C11 TRIAXIAL 48.65-48.90m
48.90m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02
SAMPLE REF: CR 34
DEPTH TOP: 49.50 (m)
DATE: 19/07/19
BOX REF: Box 34
DEPTH BASE: 51.00 (m)

BASE

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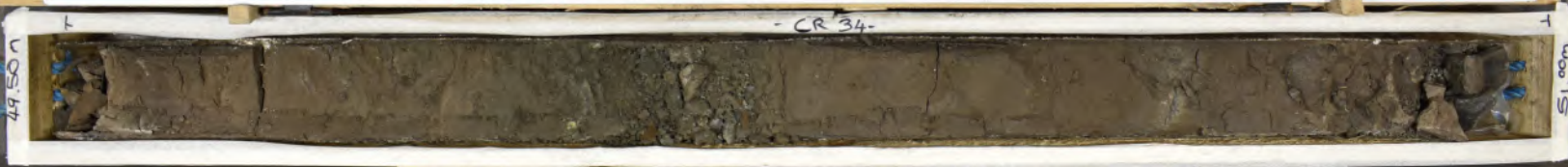
PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT-SB-02
SAMPLE REF: CR 34
DEPTH TOP: 49.50 (m)
DATE: 17/10/19
BOX REF: 34
DEPTH BASE: 51.00 (m)

BASE



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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02
DATE: 19/07/19
SAMPLE REF: CR 35
BOX REF: Box 35
DEPTH TOP: 51.00 (m)
DEPTH BASE: 52.50 (m)

BASE

-CR35-

51.00m

52.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT-SB-02
SAMPLE REF: CR 35
DEPTH TOP: 51.00 (m)
DATE: 17/10/19
BOX REF: 35
DEPTH BASE: 52.50 (m)

BASE

-CR35-

51.00m

52.50m

51.00 B4+B5 51.35 51.35 C12 51.65

+B4+D5 BULK DENSITY / ATTERBERGS 51.35m + C12 TRIAXIAL 51.35-51.65m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_02 SAMPLE REF: CR 36 DEPTH TOP: 52.50 (m)

DATE: 19/07/19 BOX REF: Box 36 DEPTH BASE: 54.00 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT-SB-02
DATE: 19/10/19
SAMPLE REF: CR 36
BOX REF: 36
DEPTH TOP: 52.50 (m)
DEPTH BASE: 54.00 (m)

BASE

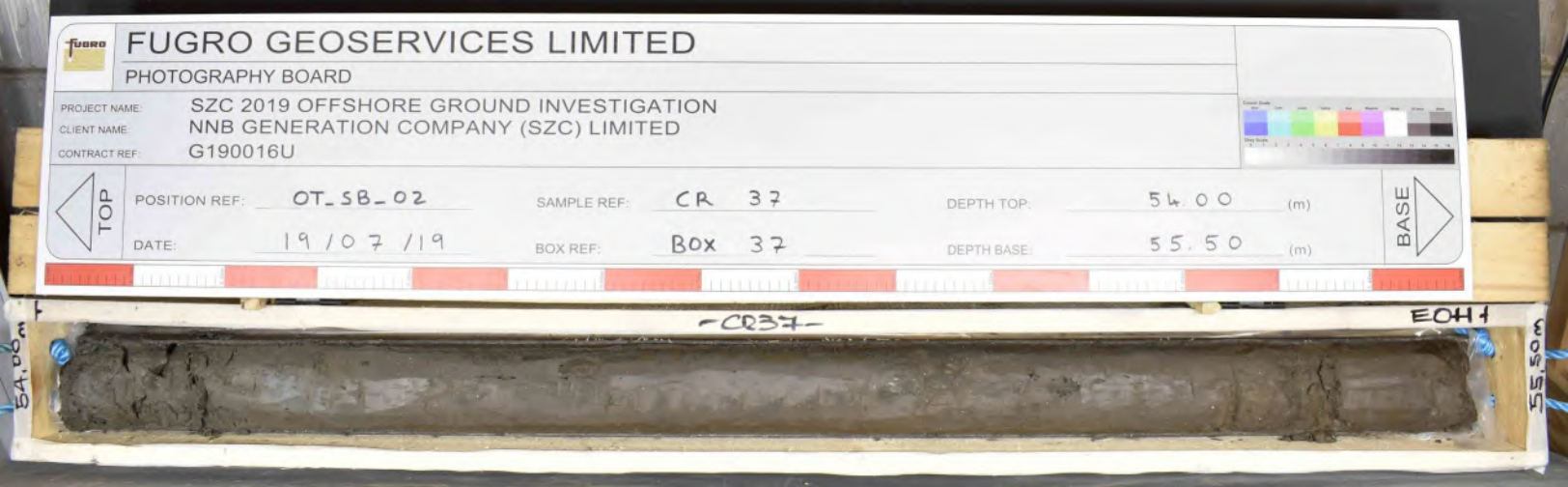
-CR36-

52.50m

54.00m

D5

Block D5 @ 52.55m


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_02
SAMPLE REF: CR 37
DEPTH TOP: 54.00 (m)
DATE: 19/07/19
BOX REF: Box 37
DEPTH BASE: 55.50 (m)
BASE
-CR37-
EOH
54.00m
55.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT-SB-02
SAMPLE REF: CR 37
DEPTH TOP: 54.00 (m)

DATE: 19/10/19
BOX REF: 37
DEPTH BASE: 55.50 (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_03
SAMPLE REF: CR1
DEPTH TOP: 0.00m (m)

DATE: 22 / 08 / 19
BOX REF: 1
DEPTH BASE: 1.50m (m)

BASE

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_03
DATE: 22 / 08 / 19
SAMPLE REF: CR2
BOX REF: 2
DEPTH TOP: 1.50 (m)
DEPTH BASE: 3.00 (m)

BASE

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PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_03
SAMPLE REF: CR3
DEPTH TOP: 3.00 (m)
DATE: 22 / 08 / 19
BOX REF: 3
DEPTH BASE: 4.50 (m)
BASE
-CR3-
3.00m
4.50m

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PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_03
SAMPLE REF: CR4
DEPTH TOP: 4.50 (m)
DATE: 22 / 08 / 19
BOX REF: 4
DEPTH BASE: 6.00 (m)

BASE

NOTE: AZCL: 5.80-6.00m

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PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_03

DATE: 22 / 08 / 19

SAMPLE REF: CR5

BOX REF: 5

DEPTH TOP: 6.00 (m)

DEPTH BASE: 7.50 (m)

BASE

-CR5-

6.00m

7.50m

NOTE: AZCL: 7.40m-7.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION

CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED

CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_03

DATE: 22 / 08 / 19

SAMPLE REF: CR6

BOX REF: 6

DEPTH TOP: 7.50 (m)

DEPTH BASE: 9.00 (m)

BASE

NOTE: AZCL: 8.75 - 9.00m

FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_03
SAMPLE REF: CR7
DEPTH TOP: 9.00 (m)
DATE: 22 / 08 / 19
BOX REF: 7
DEPTH BASE: 10.50 (m)
BASE
-CR7-
9.00m
10.50m
NOTE: AZCL: 10.10 - 10.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_03
DATE: 22 / 08 / 19
SAMPLE REF: CR8
BOX REF: 8
DEPTH TOP: 10.50 (m)
DEPTH BASE: 12.00 (m)

BASE

-CR8-

10.50m

12.00m

NOTE: AZCL: 11.60 - 12.00m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_03
SAMPLE REF: CR9
DEPTH TOP: 12.00 (m)

DATE: 23 / 08 / 19
BOX REF: 9
DEPTH BASE: 13.50 (m)

BASE

F12.00m - CR9 -

12.00m

13.50m

NOTE: AZCL: 13.25m - 13.50m

FUGRO GEOSERVICES LIMITED

PHOTOGRAPHY BOARD

PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U

TOP

POSITION REF: OT_SB_03
DATE: 23 / 08 / 19
SAMPLE REF: CR10
BOX REF: 10
DEPTH TOP: 13.50 (m)
DEPTH BASE: 15.00 (m)

BASE

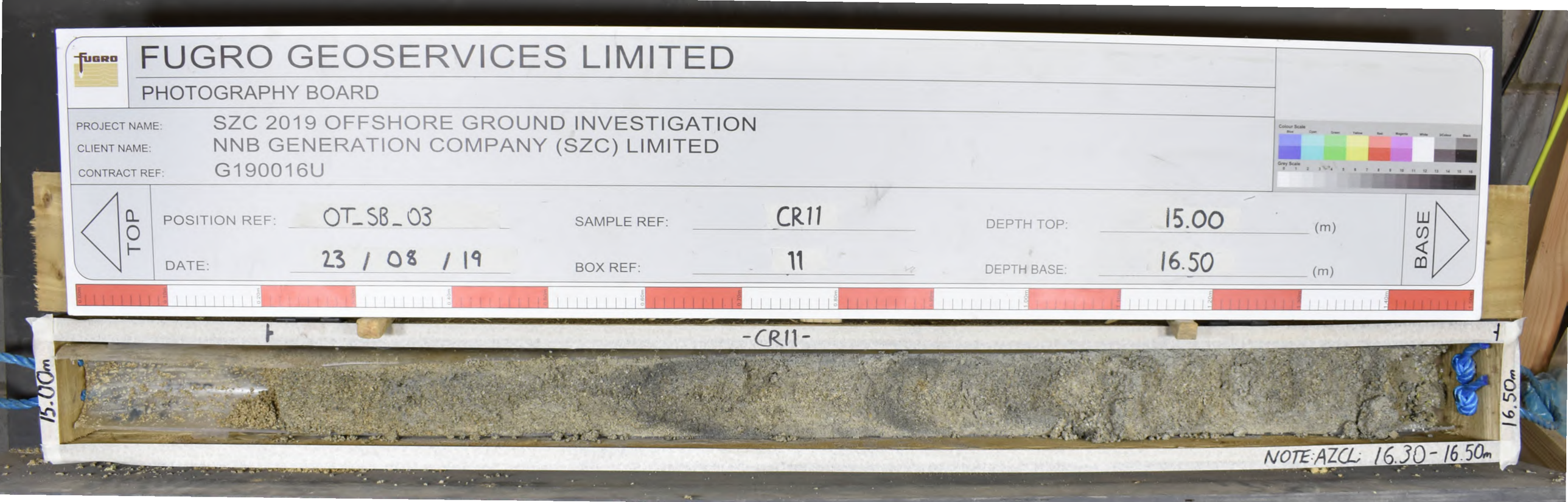
-CR10-

13.50m

15.00m

C1: 13.85-14.50m (CEMETE)

NOTE: AZCL: 14,50m - 15,00m.


FUGRO GEOSERVICES LIMITED
PHOTOGRAPHY BOARD
PROJECT NAME: SZC 2019 OFFSHORE GROUND INVESTIGATION
CLIENT NAME: NNB GENERATION COMPANY (SZC) LIMITED
CONTRACT REF: G190016U
TOP
POSITION REF: OT_SB_03
SAMPLE REF: CR11
DEPTH TOP: 15.00 (m)
DATE: 23 / 08 / 19
BOX REF: 11
DEPTH BASE: 16.50 (m)
BASE
-CR11-
15.00m
16.50m
NOTE:AZCL: 16.30 - 16.50m