

**REPORT ON:  
GREENSTONE – STAGES 3-5, LYNDHUST ROAD  
(LOTS 1 – 44)**

**PROJECT:  
GEOTECHNICAL ASSESSMENT**

CLIENT: GREENSTONE LAND DEVELOPMENTS LTD.

GREENSTONE LAND DEVELOPMENTS LTD.  
P O Box 1200  
HASTINGS 4122

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## 1 OVERVIEW

Greenstone Land Developments Ltd. (Greenstone) engaged Resource Development Consultants Ltd (RDCL) to undertake a geotechnical assessment for Stage 3-5 of the Greenstone Subdivision on Lyndhurst Road in Hastings (Legal Description: LOTS 5 45 DP 511209); including:

- Liquefaction assessment for the subdivision; and
- Site specific shallow testing for each of forty-four (44) proposed lots.

### 1.1 UNDERSTANDING OF THE PROJECT

We understand the intent is to subdivide forty-four (44) residential lots from previously undeveloped land. The site has been in pasture since at least the 1960's, based on historical aerial imagery.

RDCL has previously completed site specific shallow investigations for Stage 2 of the Greenstone development, comprising four residential lots in a neighbouring section on Arbuckle Road.

The site is located in a zone of “high liquefaction vulnerability”, as mapped by Hawke’s Bay Emergency Management Group (2017); requiring assessment of liquefaction potential and likely ground settlements under seismic conditions.

### 1.2 SCOPE OF WORK

Work was undertaken in general accordance with RDCL proposal P17\_070/2, dated 9 October 2017, with additional scope for CPT testing and liquefaction assessment for the full development.

#### 1.2.1 STANDARDS

Geotechnical investigations have been completed in accordance with:

- Hastings District Council Guidelines for Subdivision and Land Development (Decemer, 2017 in prep)
- NZS3604:2011 Timber-Framed Buildings, Section 3.

## 2 SITE DESCRIPTION

Stage 3-5 of the development covers an area of approximately 34,000 m<sup>2</sup>, with forty-four lots accessed by two new roads (Figure 1). The site is surrounded by and comprises generally flat land; with no noticeable change in elevation.

The surface veneer across the development has been altered during subdivision works as part of reshaping for the larger subdivision:

Minor silty fill and trace gravel is present in the upper 0.3-0.5 m adjacent to the road entering from Lyndhurst Road.

### 2.1 REGIONAL GEOLOGY

Regional geology maps indicate the site is underlain by Holocene river deposits; comprising poorly consolidated alluvial gravel, sand and mud (GNS Science, 2011).

#### 2.1.1 ACTIVE FAULTS

The site is located approximately 2.5 km southeast of the active trace of the Awanui Fault, as identified in the GNS Science Active Faults Database.

### 3 SUBSOIL INVESTIGATION

Site specific testing completed for:

- Each of the forty-four (44) lots comprised:
- Engineering geological logging of materials recovered from one (1) hand auger; and
- Four (4) dynamic cone penetrometer (DCP) tests.

Subsurface investigations for the assessment of liquefaction potential across the full development including all of Stage 3-5 comprised:

- Eight (8) Cone Penetration Tests (CPT) to 15 m bgl or refusal.

Results of subsurface investigations for individual lots are attached as Appendix A; with CPT Logs attached as Appendix B.

#### 3.1 SUBSOIL CONDITIONS

The results of shallow investigations suggest the site, including Lots 1-44, is generally underlain in the near surface by:

- Silty TOPSOIL to between 0.1-0.5 m bgl; overlying
- Soft to firm SILT to at least 2.0 m bgl; with lenses of clay and sand;

The upper 0.3 – 0.5 m on Lots 1-8 consists of silty topsoil fill, with trace gravel likely placed during road construction.

The results of CPT investigations suggest the site is generally underlain by

- Medium dense silty SAND and sandy SILT with lenses of clay to approximately 10 – 12 m bgl; underlain by
- Soft to firm CLAY with lenses of sand and silt to at least 15 m bgl.

#### 3.2 SHALLOW BEARING

Correlation of DCP results suggests:

- 200 kPa Ultimate Bearing Capacity is generally available at a depth stripped of topsoil and/or unsuitable materials;

## 4 LIQUEFACTION ASSESSMENT

### 4.1 SEISMIC SOIL CLASSIFICATION

The site is classified as site subsoil “Class D – Deep or Soft Soil Site” in accordance with NZS1170.5:2004, part 5: Earthquake Actions – New Zealand.

The sites subsoil class was determined based on conservative review of the Hawkes Bay well database.

- The Hawkes Bay well database indicates ground conditions are variable in the area, such that the site can be expected to be underlain by deep soils; specifically:
  - Well 10847 consists of sand and clay to 42 m bgl, overlying gravel to at least 44 m bgl;
  - Well 8474 consists of silt to 4.6 m bgl, with clay and sand to 38 m bgl, overlying gravel and sand to at least 44 m bgl; and
  - Well 671 consists of clay to 29 m bgl, with gravel to 32 m bgl, and clay to 44 m bgl overlying gravel to at least 47 m bgl.

### 4.2 GROUNDWATER

Groundwater was not encountered during shallow investigations.

We consider an appropriate indicative groundwater level to be 2.0 m bgl, based on elevation of the site relative to water levels in open drains in the surrounding area.

### 4.3 LIQUEFACTION ASSESSMENT

Liquefaction assessment was carried out on CPT results. The site is considered to have:

- Low risk of liquefaction during a SLS earthquake event, and
- Very high risk of liquefaction during an ULS event; with
  - Expected vertical settlements on the order of 100-150 mm.

Liquefaction potential and induced settlement results are summarised in Table 1; lateral displacements are not expected due to the generally flat relief across the site and surrounding area.

The output results of our liquefaction assessment are presented in Appendix C.

TABLE 1: LIQUEFACTION POTENTIAL AND INDUCED SETTLEMENT

SLS Event	Liquefaction Potential Index	Estimated Vertical Settlement (mm)
170602050_CPT01	Low Risk	14
170602050_CPT02	Low Risk	19
170602050_CPT03	Low Risk	17
170602050_CPT04	Low Risk	13
170602050_CPT05	Low Risk	20
170602050_CPT06	Low Risk	7
170602050_CPT07	Low Risk	8
170602050_CPT08	Low Risk	20
ULS Event	Liquefaction Potential Index	Estimated Vertical Settlement (mm)
170602050_CPT01	Very High Risk	136
170602050_CPT02	Very High Risk	127
170602050_CPT03	Very High Risk	120
170602050_CPT04	Very High Risk	131
170602050_CPT05	Very High Risk	112
170602050_CPT06	Very High Risk	77
170602050_CPT07	Very High Risk	63
170602050_CPT08	Very High Risk	148

#### 4.3.1 BASIS OF ASSESSMENT

The liquefaction analyses for the site were assessed using CLiq, accepted industry software package (Geoligismiki, 2014), CPT data of current ground conditions, soil logs from Test Pit investigations and the following input parameters (NZS1170.5 section 3.1.3 , 2004):

- PGA = 0.11g (SLS) & 0.44g (ULS), with:
  - Magnitude (M) = 7.5 (SLS & ULS)
  - Z=0.39 (Hastings),
  - C=1.12 (Class D Soil), and
  - R=0.25 (SLS) & 1.3 (ULS).
- Ground water table 2.0 m bgl.

The design earthquake was chosen on the basis of probability of recurrence. The probability is based on historical earthquakes. A 7.5 magnitude earthquake for an importance level category 3 correlates with a 25 year return period (SLS) and 1000 year return period (ULS). A 50 year design life was assigned.

## 5 GEOTECHNICAL CONSIDERATIONS

Recommendations and opinions contained in this report are based on data from site investigations as outlined in Section 3. Inferences about the nature and continuity of subsurface geology and ground conditions are made but cannot be guaranteed.

### 5.1 SITE SPECIFIC ENGINEERING REQUIRED ON ALL LOTS

Based on the results of these investigations, we consider:

- All sites are suitable for residential development subject to specific design of foundations to account for:
  - Bearing capacity  $\leq 200\text{kPa}$ .

### 5.2 FOUNDATION RECOMMENDATIONS

We consider:

- Rib-raft type foundations designed for:
  - Specific bearing capacity tested in each lot; and considering potential for
  - Liquefaction induced deformation.

The footprint of each foundation should be stripped of organic, loose and deleterious materials prior to construction.

Indicative depths likely required to strip unsuitable materials for each lot are presented in Table 2.



TABLE 2. INDICATIVE DEPTH TO 200kPa ULTIMATE BEARING CAPACITY, LOTS 1 - 44

Lot Number	Available Ultimate Beaing Capacity	Indicative depth of strip	Lot Number	Available Ultimate Beaing Capacity	Indicative depth of strip
Lot 1	200 kPa	0.3 m	Lot 23	200 kPa	0.2 m
Lot 2	200 kPa	0.4 m	Lot 24	200 kPa	0.3 m
Lot 3	200 kPa	0.4 m	Lot 25	200 kPa	0.3 m
Lot 4	200 kPa	0.3 m	Lot 26	200 kPa	0.35 m
Lot 5	200 kPa	0.3 m	Lot 27	200 kPa	0.4 m
Lot 6	200 kPa	0.4 m	Lot 28	200 kPa	0.5 m
Lot 7	200 kPa	0.4 m	Lot 29	200 kPa	0.4 m
Lot 8	200 kPa	0.5 m	Lot 30	200 kPa	0.4 m
Lot 9	200 kPa	0.3 m	Lot 31	200 kPa	0.2 m
Lot 10	200 kPa	0.3 m	Lot 32	200 kPa	0.3 m
Lot 11	200 kPa	0.4 m	Lot 33	200 kPa	0.3 m
Lot 12	200 kPa	0.4 m	Lot 34	200 kPa	0.3 m
Lot 13	200 kPa	0.3 m	Lot 35	200 kPa	0.4 m
Lot 14	200 kPa	0.3 m	Lot 36	200 kPa	0.4 m
Lot 15	200 kPa	0.1 m	Lot 37	200 kPa	0.3 m
Lot 16	200 kPa	0.2 m	Lot 38	200 kPa	0.05 m
Lot 17	200 kPa	0.3 m	Lot 39	200 kPa	0.2 m
Lot 18	200 kPa	0.2 m	Lot 40	200 kPa	0.1 m
Lot 19	200 kPa	0.2 m	Lot 41	200 kPa	0.15 m
Lot 20	200 kPa	0.15 m	Lot 42	200 kPa	0.2 m
Lot 21	200 kPa	0.2 m	Lot 43	200 kPa	0.4 m
Lot 22	200 kPa	0.2 m	Lot 44	200 kPa	0.3 m

### 5.3 FURTHER GEOTECHNICAL INPUT

We recommend foundation excavations be inspected during construction:

- should subsurface materials be found to differ from those described in this report; and/or
- to ensure organic, loose and deleterious materials are properly removed from beneath foundations.

## 6 REFERENCES

- GNS Science. (2004). Active Faults Database. *Institute of Geological and Nuclear Sciences*. GNS Science.
- GNS Science. (2011). HAWKE'S BAY. *Institute of Geological and Nuclear Sciences, 1:250,000 Geological Map 8*. (J. Lee, K. Bland, D. Townsend, & P. Kamp, Compilers) GNS Science.
- GNS Science. (2011). HAWKE'S BAY. *Institute of Geological and Nuclear Sciences, 1:250,000 Geological Map 8*. GNS Science.
- Hastings District Council. (2014). Online GIS - IntraMaps.
- Hawkes Bay Emergency Management Group. (2017). Online Mapping Site.
- NZS1170.5. (2004, December 22). NZS1170.5:2004 - Structural Design Actions; Part 5: Earthquake actions - New Zealand. Standards New Zealand.
- NZS3604. (2011). NZS3604:2011 - *Timber-framed buildings*. Standards New Zealand.

## 7 LIMITATIONS

- This report has been prepared for the particular purpose outlined in the project scope and no responsibility is accepted for the use of any part in other contexts or for any other purpose.
- Ground conditions assessed in this report are inferred from published sources, site inspection and the investigation described. Variations from the interpreted conditions may occur, and special conditions relating to the site may not have been revealed by this investigation, and which are therefore not taken into account. No warranty is included either expressed or implied that the actual conditions will conform to the interpretation contained in this report.
- No responsibility is accepted by Resource Development Consultants Ltd for inaccuracies in data supplied by others. Where data has been supplied by others, it has been assumed that this information is correct.
- Groundwater conditions can vary with season or due to other events. Any comments on groundwater conditions are based on observation at the time.
- This report is provided for use by the client, section owners, and Hastings District Council and is confidential to the client and their professional advisors. No responsibility whatsoever for the contents of this report shall be accepted for any person other than the client.

## 8 CLOSURE

We trust this meets your current needs. Should you wish to discuss any aspect of the contents of this document please contact the undersigned on 06 877-1652.

Prepared by:

Reviewed by:



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EA Cairns  
MSc  
Engineering Geologist

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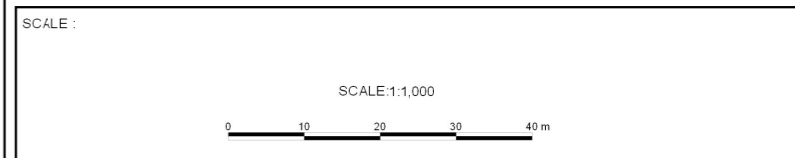
CA Wylie  
MSc; MIPENZ, CPEng  
Principal

## FIGURE 1 – INVESTIGATION LAYOUT



**Legend**

- Lot Boundaries
- Test Locations**
  - Dynamic Cone Penetrometer (DCP)
  - Hand Auger (HA)
  - Cone Penetrometer Test (CPT)



GEODETTIC DATUM:      PROJECTION:      NZTM      VERTICAL DATUM:      N/A

**NOTES:**

1. Aerial image source Land Information New Zealand
2. Lot locations source Strata Group Consulting Engineers

**CLIENT:**

**Greenstone Land Developments**

**PROJECT:**

**Stages 3 - 5 - Lyndhurst Road**

**TITLE:**

**Lots 1 - 44 Lyndhurst Road**

**PROJECT NUMBER:**

**170602050**

DRAWN BY:    OG	DATE:    08/12/2017	APPROVED BY:    ECA	DATE:    08/12/2017
CHECKED BY:    ECA	DATE:    08/12/2017	FILE NAME:    Greenstone Map.qgs	
FIGURE NUMBER:    01	PLOTTED DRAWING SIZE:    A3 (420 x 297)		

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## APPENDIX A – HAND AUGER & DCP LOGS



# HAND AUGER LOG

Lot 01 HA01

SHEET 1 OF 1

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928714.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607801.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
				SILT; medium brown. Stiff; low plasticity; moist; trace organic silt.		SF				
0.5	-0.5			SILT; light brown. Firm; low plasticity; moist.	M	FM				
1.0	-1.0			EOH: 1.20m						
1.5	-1.5									
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS

- SYMBOLS**
- ▼ Standing Water Level
  - ◁ Out flow
  - ▷ In flow



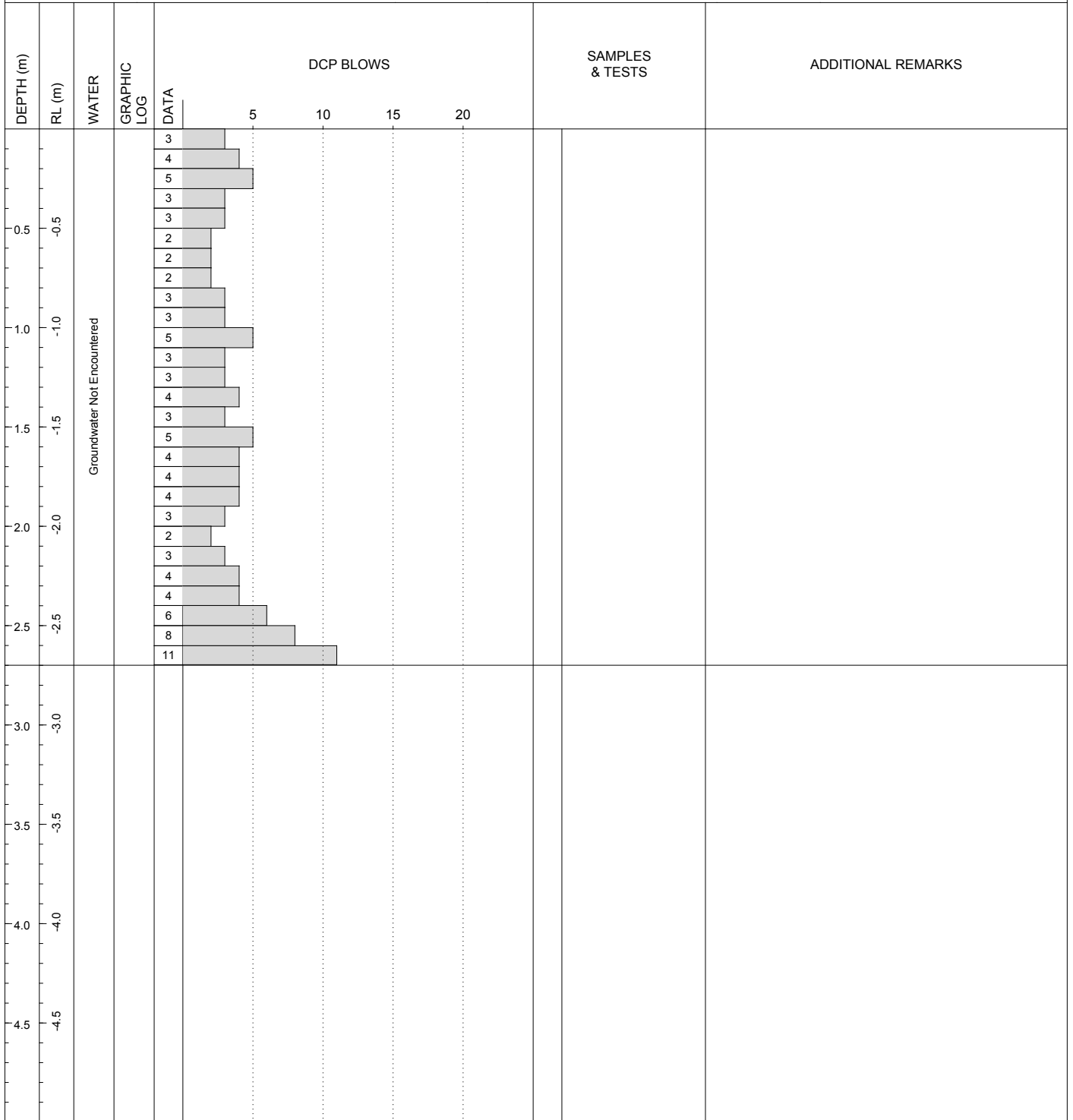
# DCP LOG

Lot 01 DCP01

SHEET 1 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928729.00	STARTED: 16/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607807.00	FINISHED: 16/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 16/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 20/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

Produced with Core-GS by Geric





# DCP LOG

Lot 01 DCP02

SHEET 2 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stage 3-5	EASTING: 1928706.00	STARTED: 16/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607788.00	FINISHED: 16/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 16/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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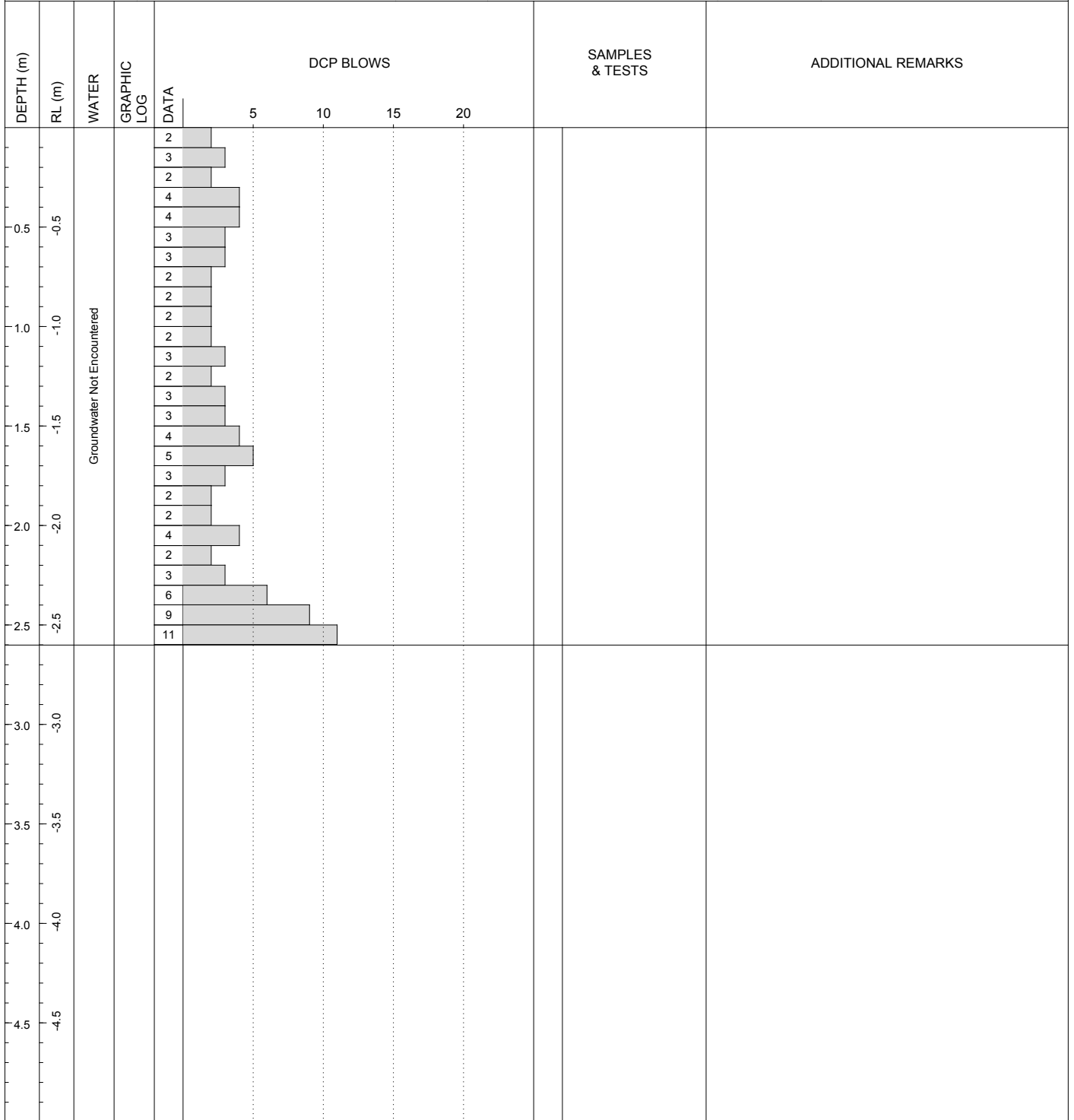
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					5	10	15	20		
0.0	-0.1	Groundwater Not Encountered		3						
0.1	-0.2		2							
0.2	-0.3		3							
0.3	-0.4		2							
0.4	-0.5		2							
0.5	-0.6		1							
0.6	-0.7		1							
0.7	-0.8		1							
0.8	-0.9		3							
0.9	-1.0		3							
1.0	-1.1		3							
1.1	-1.2		3							
1.2	-1.3		2							
1.3	-1.4		2							
1.4	-1.5		3							
1.5	-1.6		2							
1.6	-1.7		3							
1.7	-1.8		4							
1.8	-1.9		2							
1.9	-2.0		4							
2.0	-2.1	3								
2.1	-2.2	3								
2.2	-2.3	5								
2.3	-2.4	7								
2.4	-2.5	10								
2.5	-2.6									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

Produced with Core-GS by Geoc

CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stage 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928699.00 NORTHING: 5607797.00 DATUM: ELEVATION: AZUMITH: 0° PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 16/11/2017 FINISHED: 16/11/2017 LOGGED BY: JB DATE: 16/11/2017 CHECKED BY: JM DATE: 24/11/2017 STATUS: Final data
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CONTRACTOR:	MACHINE:	OPERATOR:
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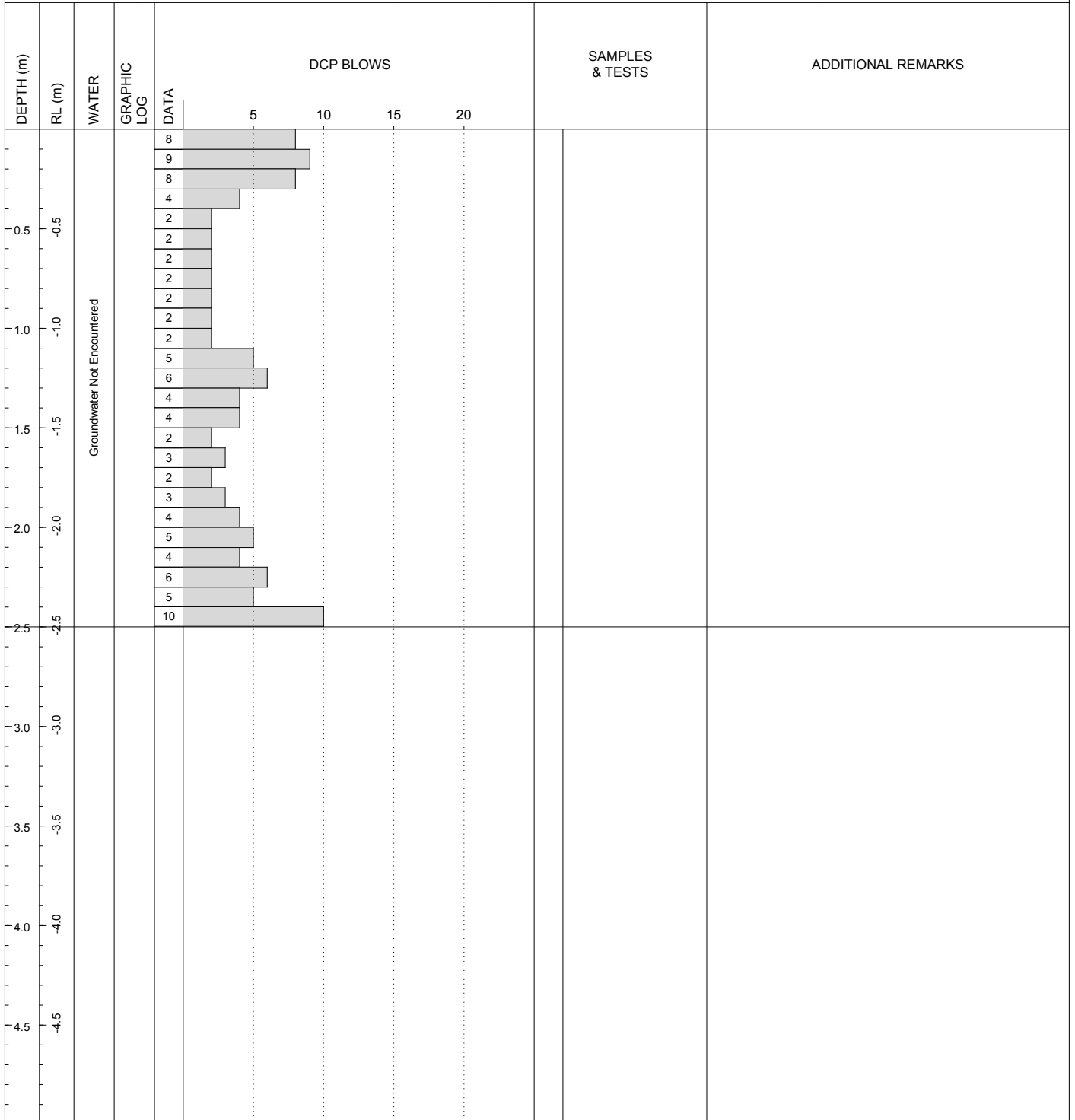


REMARKS	SYMBOLS ▼ Standing Water Level ◁ Out flow ▷ In flow
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Produced with Core-GS by Geric

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PROJECT: 170602050_Stage 3-5	EASTING: 1928721.00	STARTED: 16/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607815.00	FINISHED: 16/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 16/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



# HAND AUGER LOG

Lot 02 HA01

SHEET 1 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928692.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607825.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.5	-0.5		X X X X X X X X X X	SILT, with trace rootlets; dark brown. Firm; non-plastic; moist.		FM				
			X X X X X X X X X X	SILT; medium brown. Non-plastic; moist.						
1.0	-1.0			SILT, with trace clay; medium brown with orange mottle. Soft; low plasticity; moist.	M	S				
1.5	-1.5			EOH: 1.80m						
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

**REMARKS**  
Too hard to pull auger

**SYMBOLS**  
 ▼ Standing Water Level  
 ◁ Out flow  
 ▷ In flow



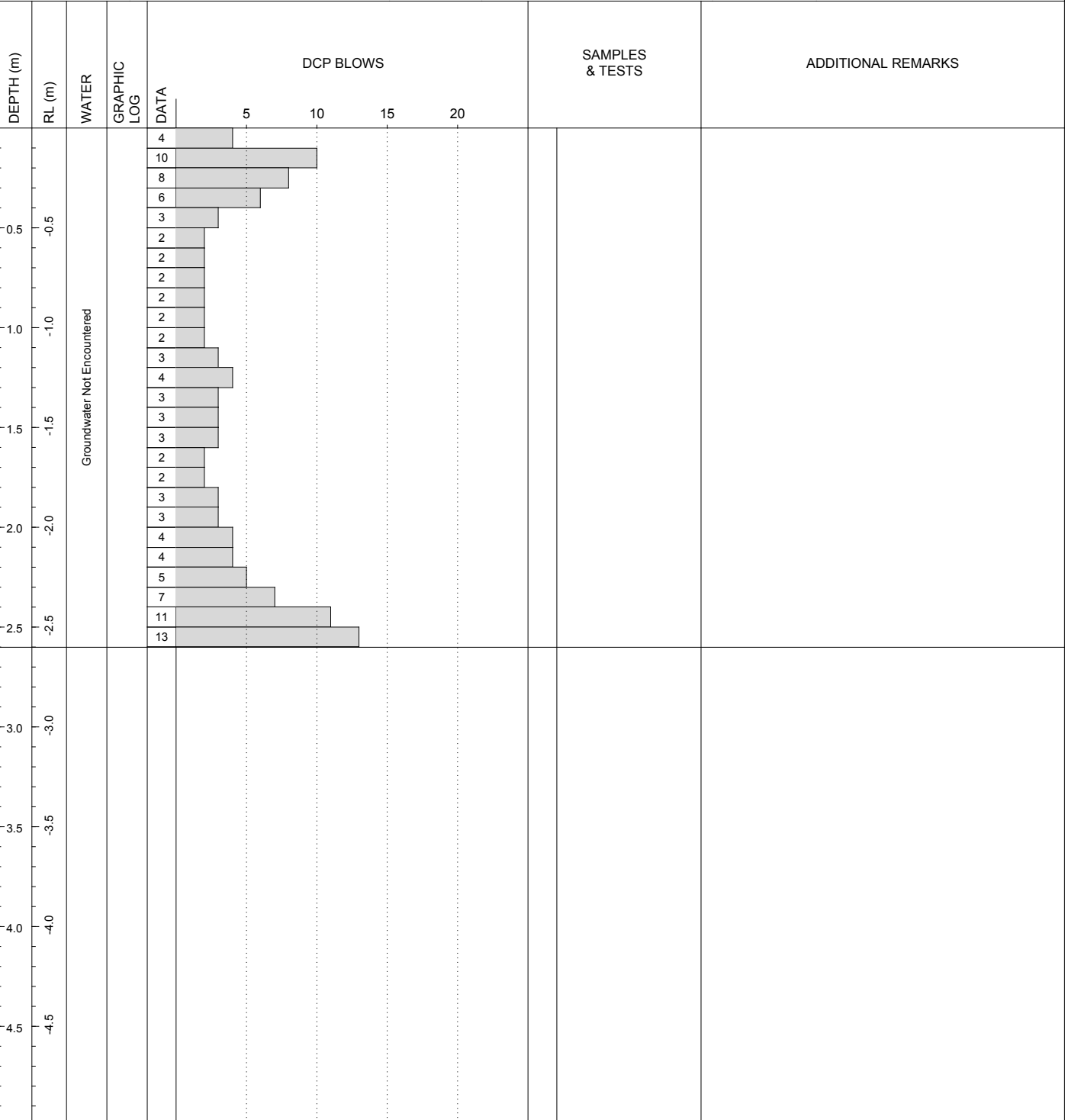
# DCP LOG

Lot 02 DCP01

SHEET 5 OF 176

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LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607813.00	FINISHED: 13/11/2017
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ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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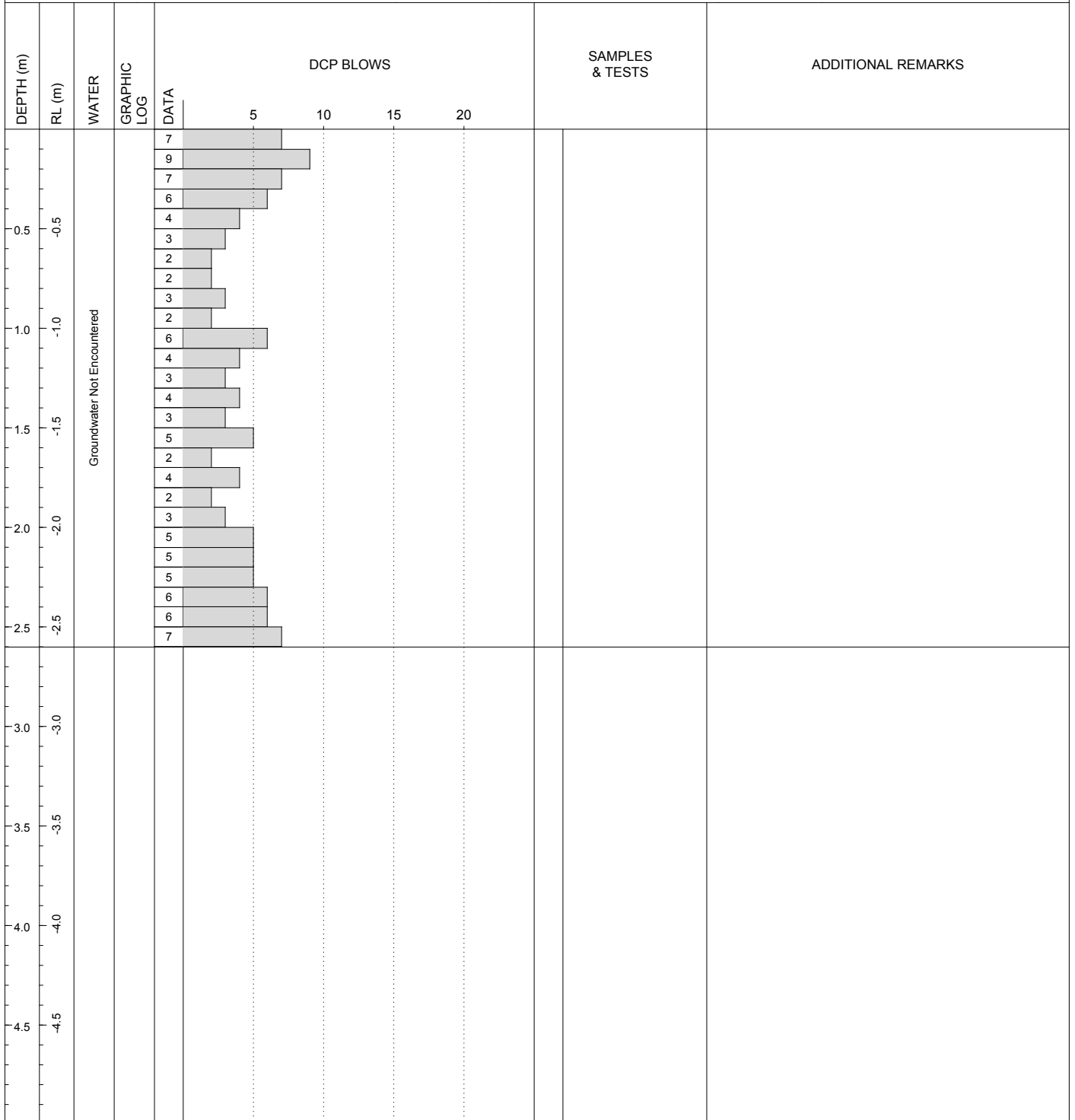


REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

Produced with Core-GS by Geric

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LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607821.00	FINISHED: 13/11/2017
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ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

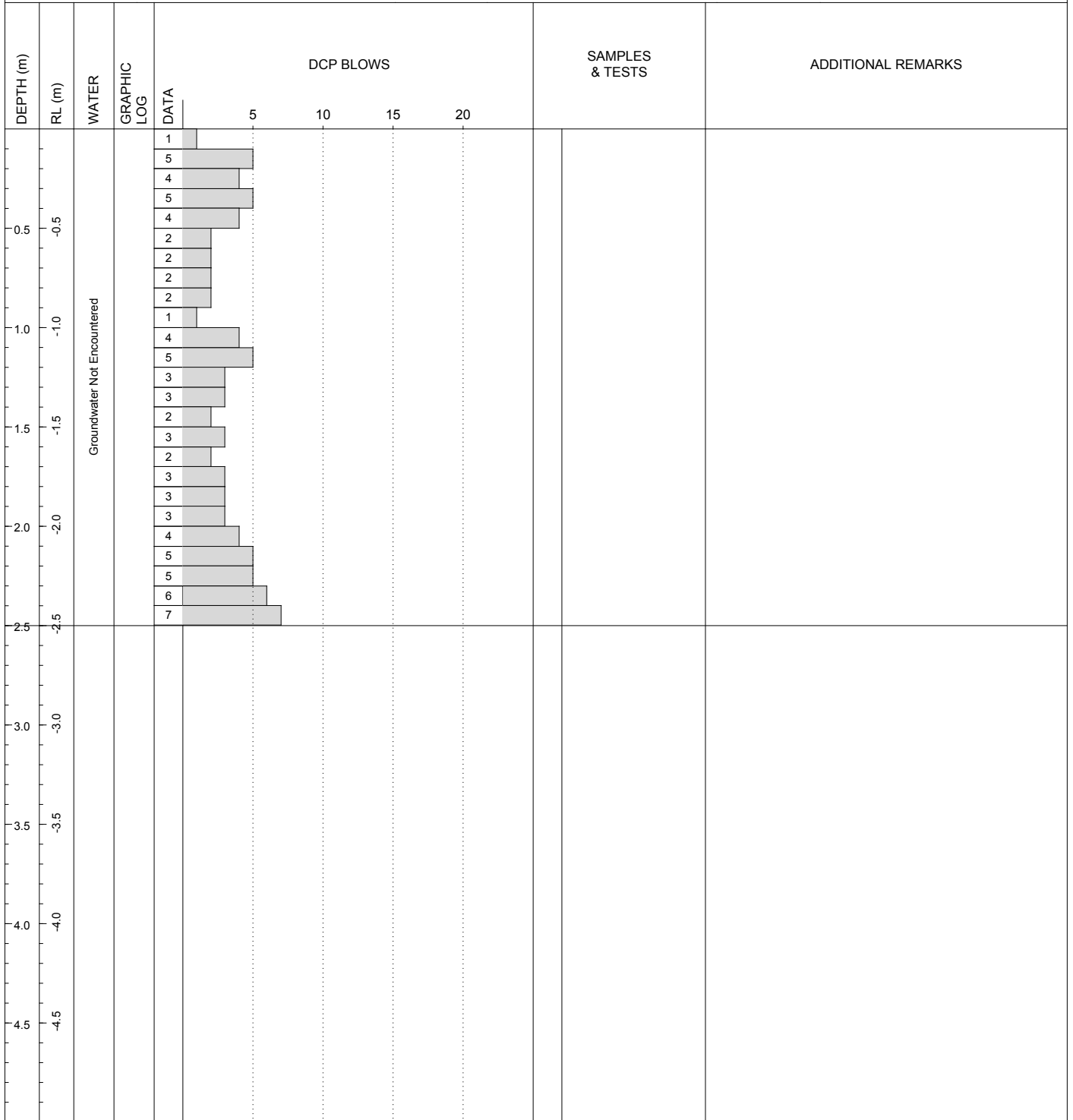
CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928701.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607839.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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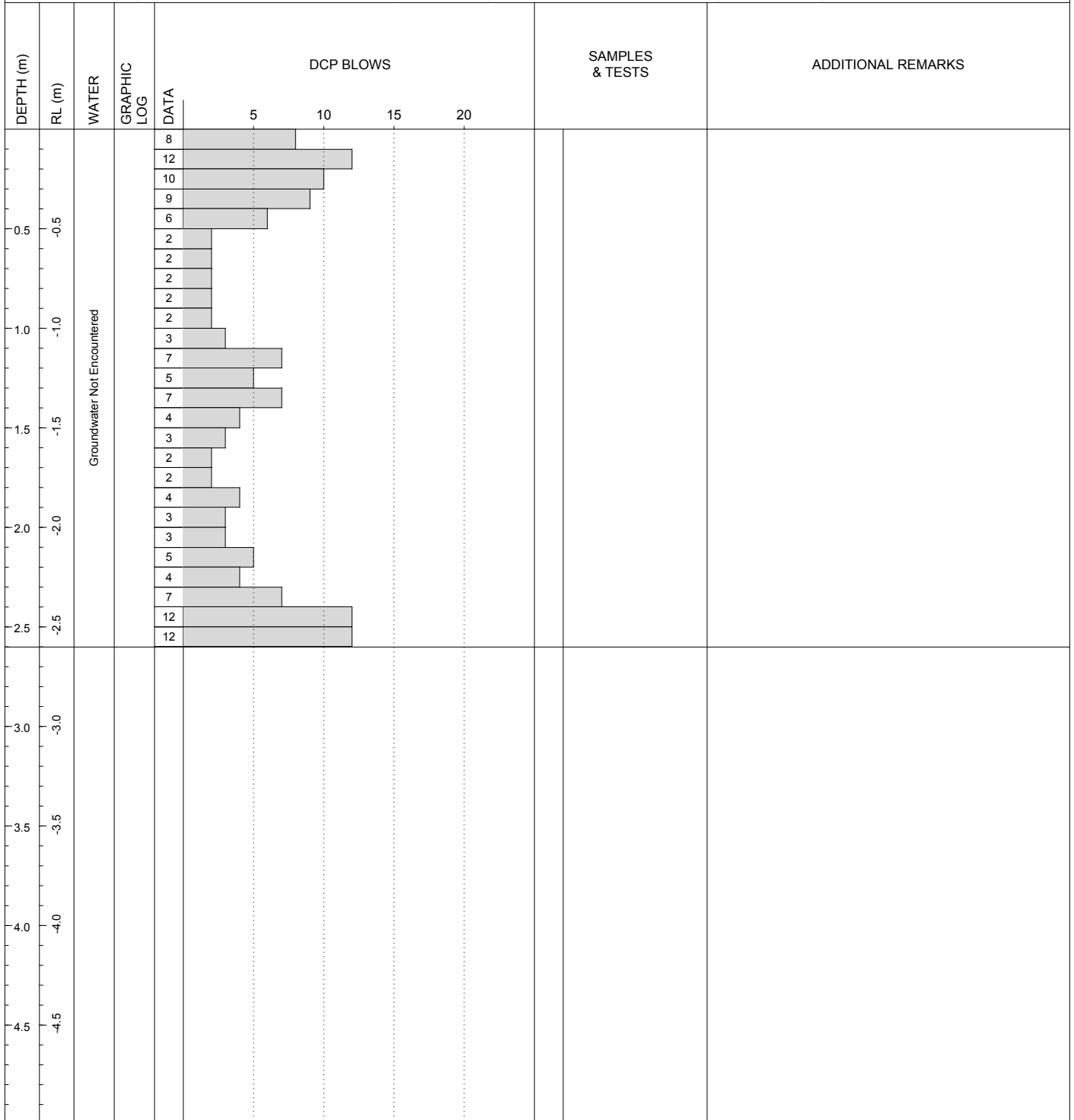


REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

Produced with Core-GS by Geric

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928709.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607829.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/08/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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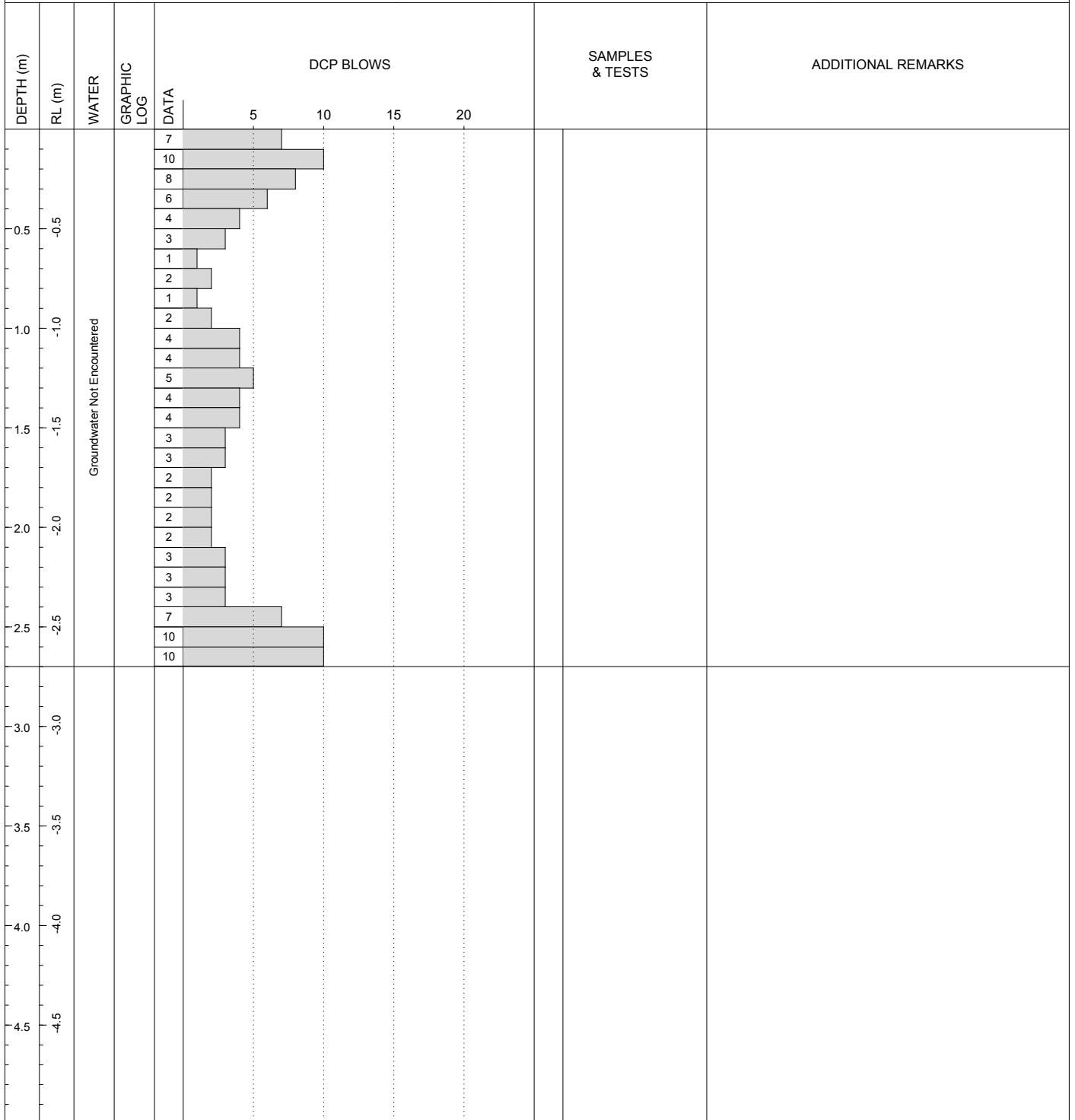
REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow





CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stage 3-5	EASTING: 1928699.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607846.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



# DCP LOG

Lot 03 DCP02

SHEET 10 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stage 3-5	EASTING: 1928675.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607828.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB DATE: 13/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
					5 10 15 20		
0.5	-0.5	Groundwater Not Encountered		7	~8		
			12	~12			
			10	~10			
			8	~8			
			7	~7			
			4	~4			
			4	~4			
			3	~3			
			2	~2			
1.0	-1.0		5	~5			
			4	~4			
			7	~7			
			7	~7			
			4	~4			
			3	~3			
			3	~3			
			3	~3			
			4	~4			
			2	~2			
2.0	-2.0		3	~3			
		4	~4				
		4	~4				
		5	~5				
		5	~5				
2.5	-2.5	6	~6				
		7	~7				
3.0	-3.0						
3.5	-3.5						
4.0	-4.0						
4.5	-4.5						

REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>



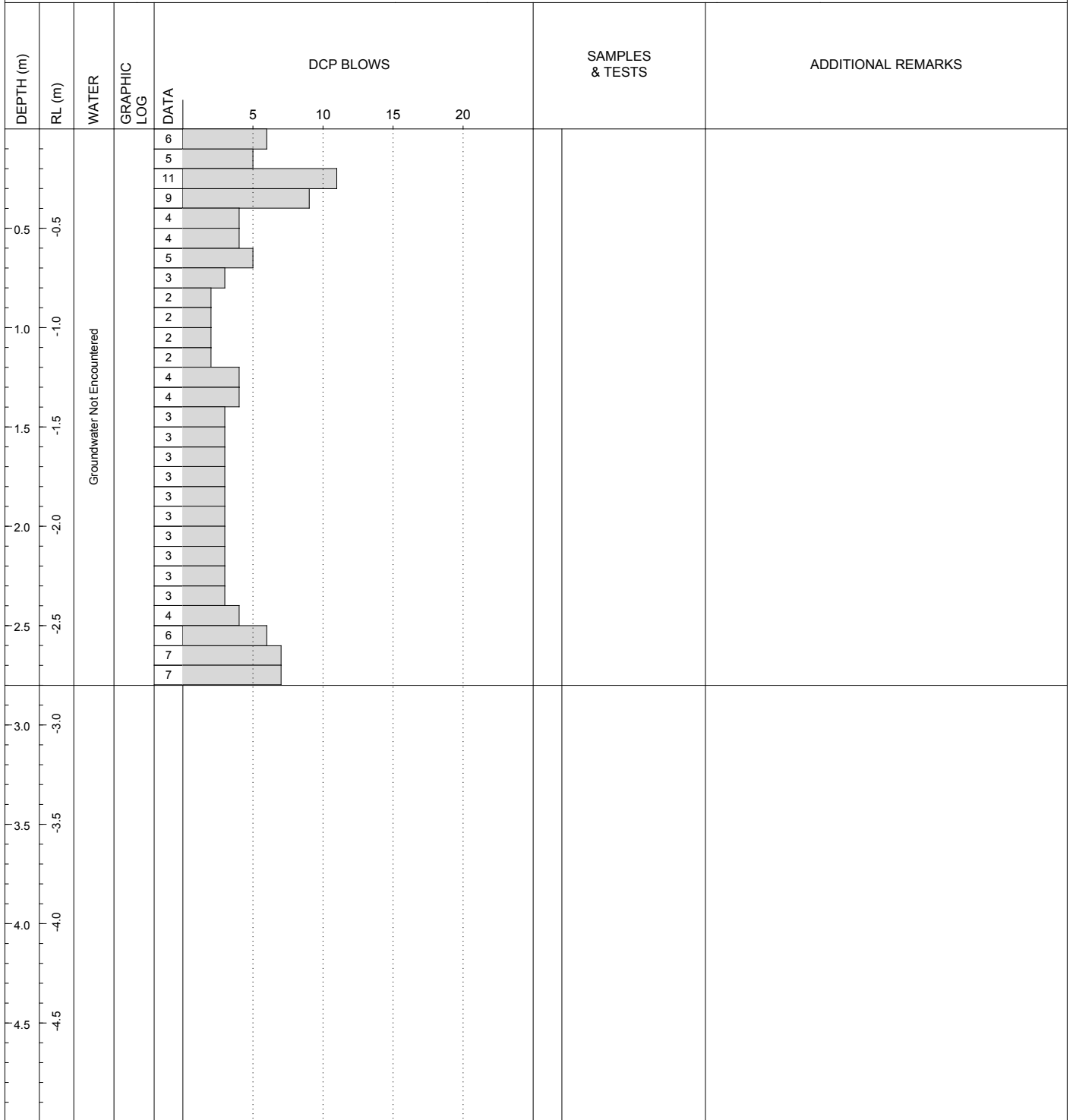
# DCP LOG

Lot 03 DCP03

SHEET 11 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928667.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607838.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

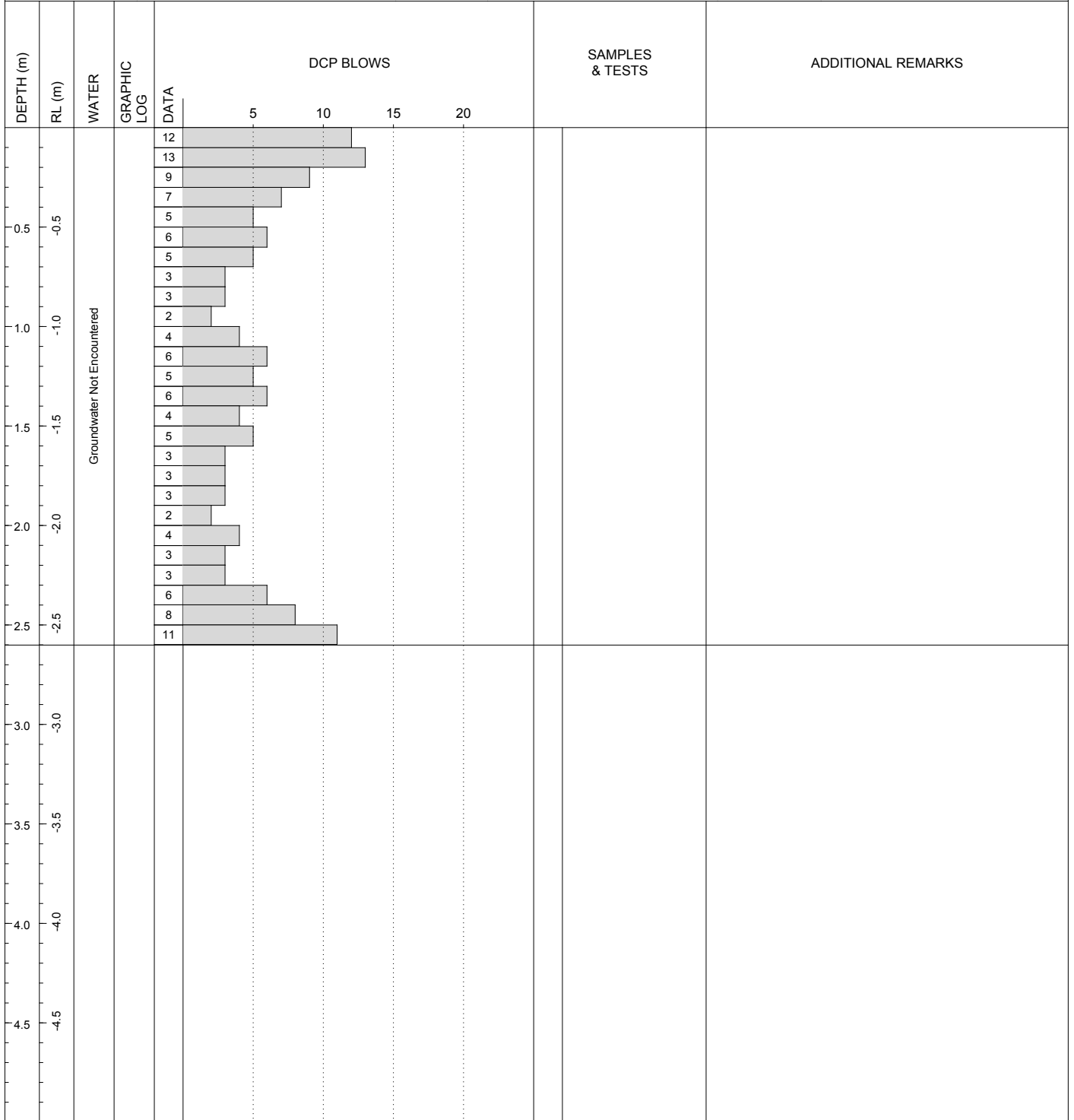
CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928690.00	STARTED: 14/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607851.00	FINISHED: 14/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 14/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



# HAND AUGER LOG

**Lot 04 HA01**

SHEET 3 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928665.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607814.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.0	-0.5		×	SILT, with trace rootlets; medium brown. Firm; non-plastic; dry; (Clean).	D	FM				
0.5	-1.0		×	SILT; medium brown in dark brown pockets. Soft; non-plastic; moist; with trace organic silt.						
1.0	-1.5		•	Sandy SILT; medium brown with orange mottle. Soft; non-plastic; moist.	M	S				
1.5	-1.5			EOH: 1.50m						
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

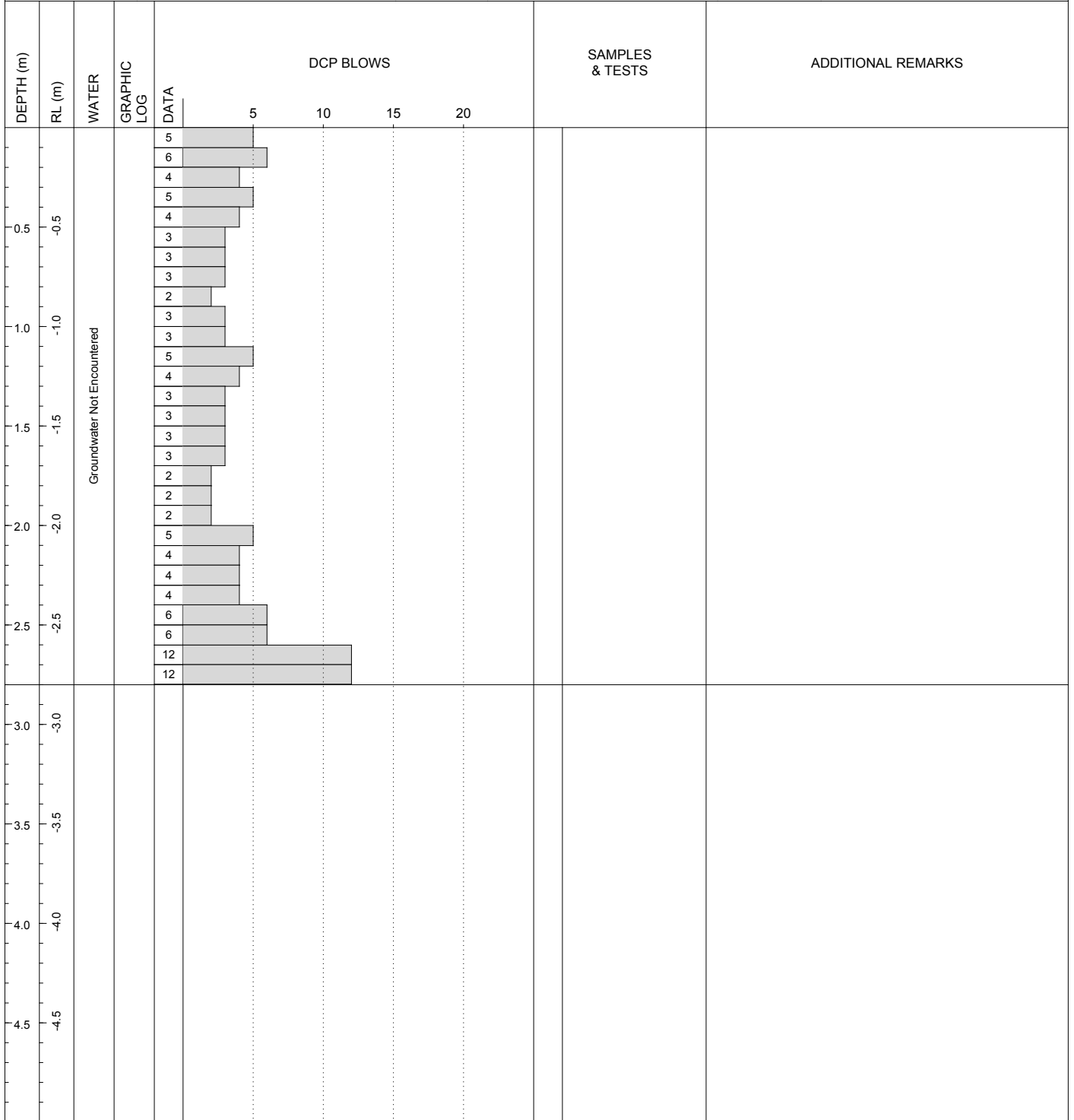
REMARKS

SYMBOLS

- ▼ Standing Water Level
- ◁ Out flow
- ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928660.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607829.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

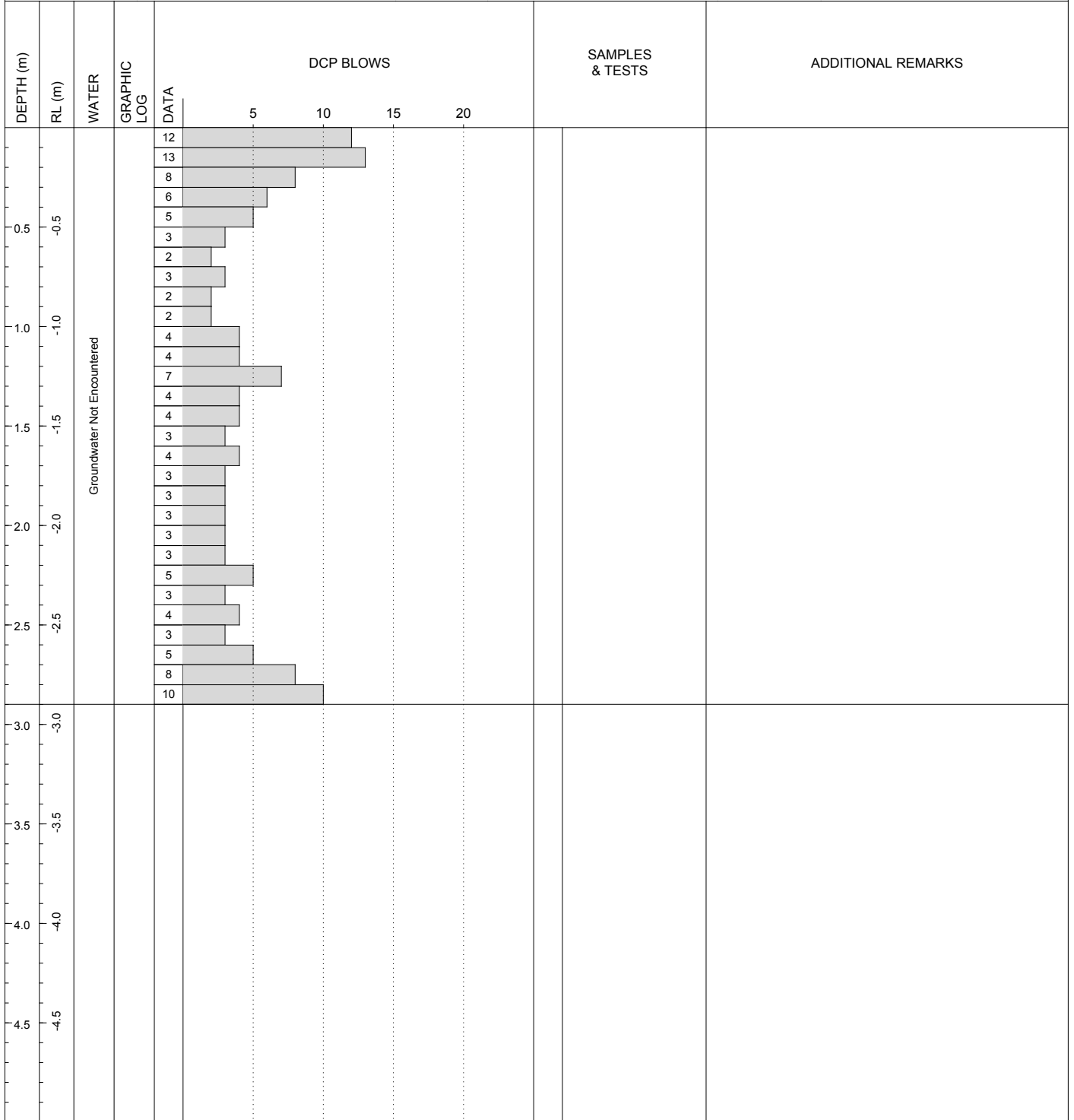
CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928647.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607828.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stages 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928663.00 NORTHING: 5607805.00 DATUM: ELEVATION: AZUMITH: 0° PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 13/11/2017 FINISHED: 13/11/2017 LOGGED BY: JB DATE: 13/11/2017 CHECKED BY: JM DATE: 24/11/2017 STATUS: Final data
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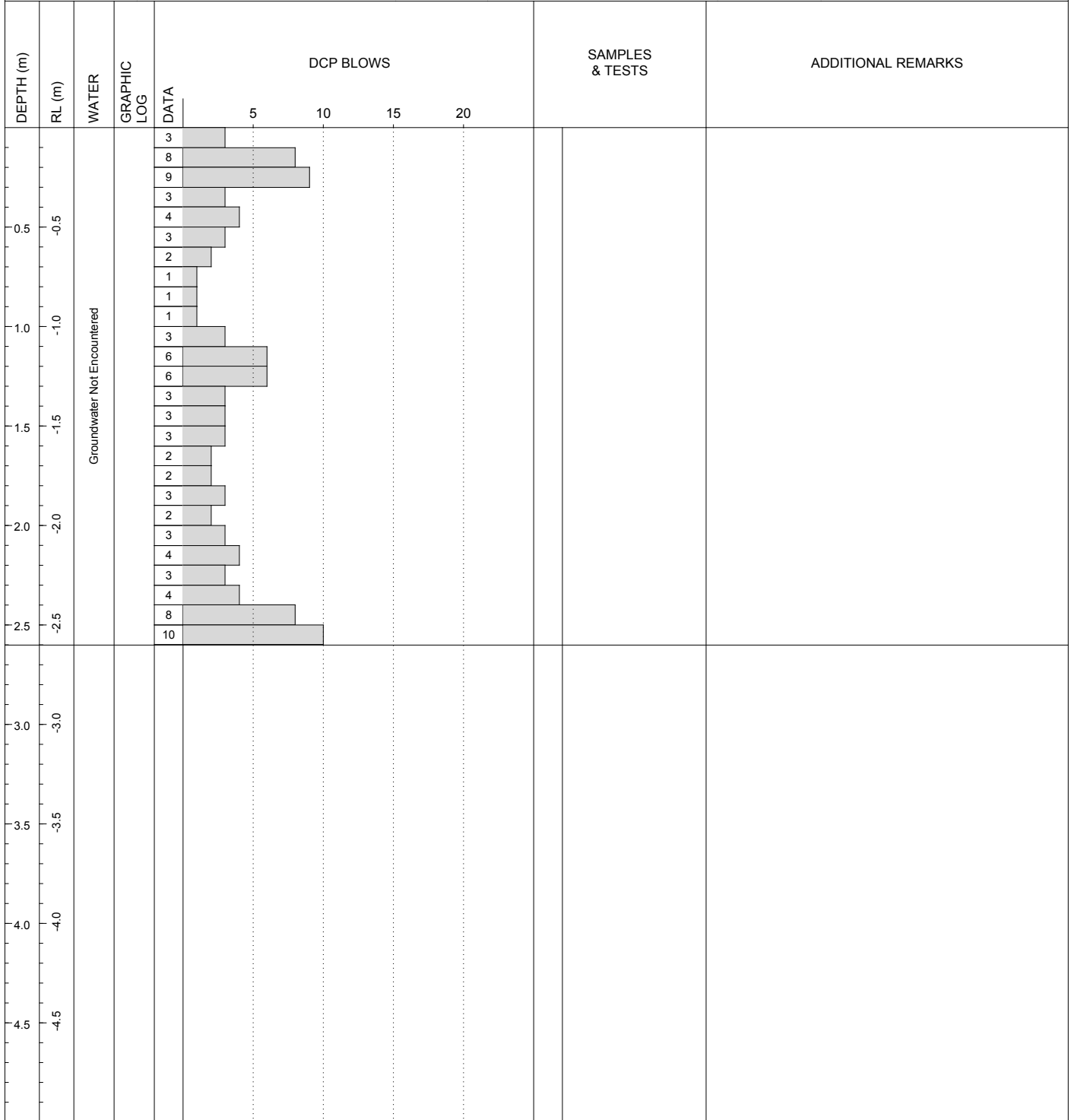
CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
					5 10 15 20		
0.5	-0.5	Groundwater Not Encountered		4			
			7				
			8				
			6				
			4				
			3				
			2				
			2				
			2				
1.0	-1.0		3				
			4				
			4				
			4				
			2				
			3				
			3				
1.5	-1.5		5				
			3				
			4				
			5				
		5					
		5					
		5					
		6					
		6					
2.5	-2.5						
3.0	-3.0						
3.5	-3.5						
4.0	-4.0						
4.5	-4.5						

REMARKS	<b>SYMBOLS</b> ▼ Standing Water Level ◁ Out flow ▷ In flow
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CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928677.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607807.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



# HAND AUGER LOG

Lot 05 HA01

SHEET 4 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928648.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607804.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

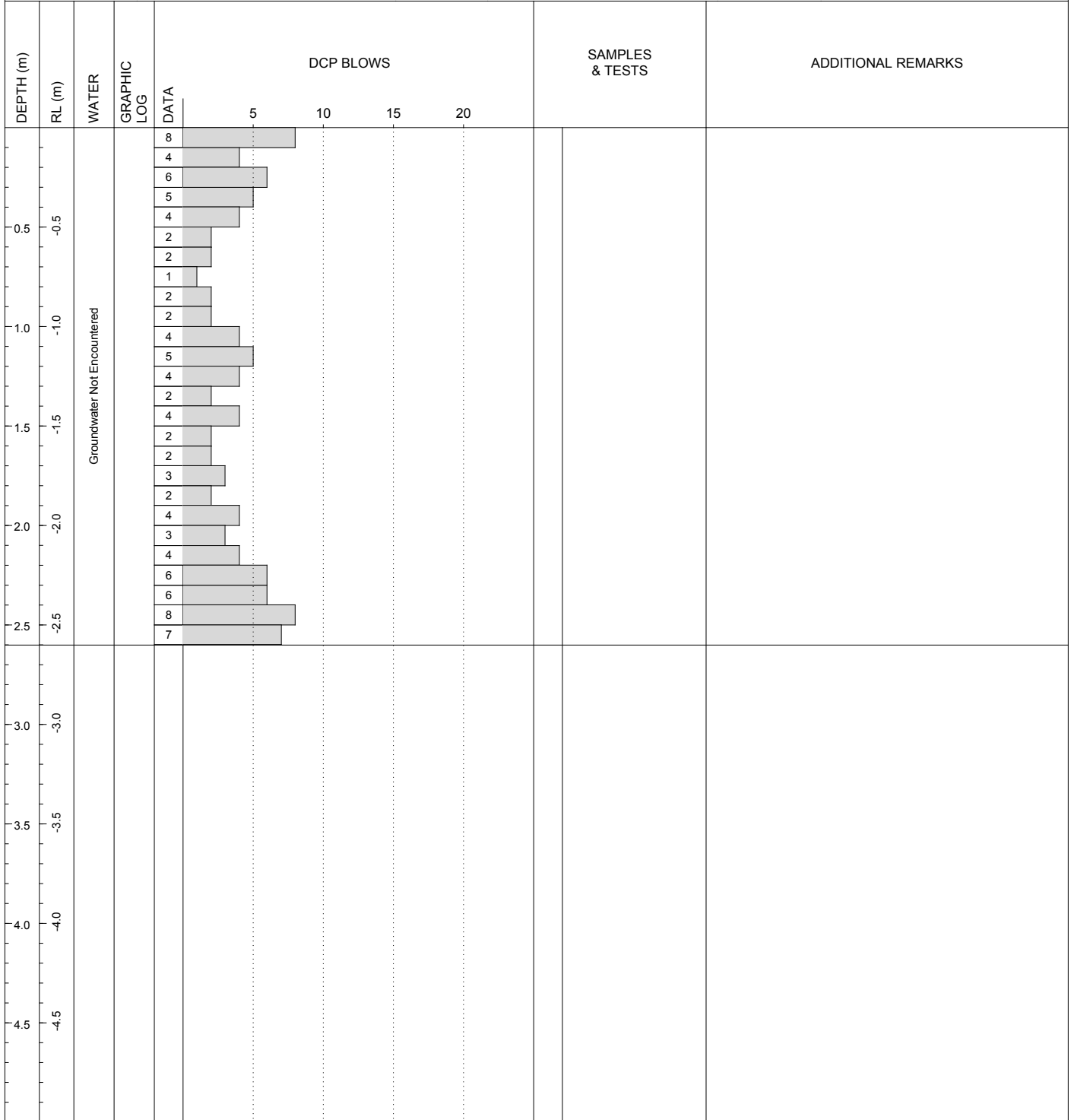
DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
				SILT; medium brown. Firm; dry; (Clean).	D	FM				
0.5	-0.5			SILT, with trace rootlets and pockets of dark brown silt; medium yellowish brown. Soft; non-plastic; moist.						
				SILT; medium yellowish brown. Soft; moist; trace of sand with depth.						
1.0	-1.0			Sandy SILT, with trace rootlets; medium yellowish brown in trace orange mottle. Soft; non-plastic; moist.	M	S				
1.5	-1.5			SILT, with trace clay and sand; medium yellowish brown. Soft; moderate plasticity; moist.						
2.0	-2.0			EOH: 1.90m						
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS

- SYMBOLS
- ▼ Standing Water Level
  - ◁ Out flow
  - ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928638.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607809.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stage 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928646.00 NORTHING: 5607820.00 DATUM: ELEVATION: AZUMITH: 0°    PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 13/11/2017 FINISHED: 13/11/2017 LOGGED BY: JB      DATE: 13/11/2017 CHECKED BY: JM      DATE: 24/11/2017 STATUS: Final data
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CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.1	Groundwater Not Encountered		1						
0.1	-0.2		4							
0.2	-0.3		2							
0.3	-0.4		4							
0.4	-0.5		4							
0.5	-0.6		3							
0.6	-0.7		4							
0.7	-0.8		1							
0.8	-0.9		2							
0.9	-1.0		1							
1.0	-1.1		3							
1.1	-1.2		4							
1.2	-1.3		3							
1.3	-1.4		3							
1.4	-1.5		3							
1.5	-1.6		4							
1.6	-1.7		3							
1.7	-1.8		2							
1.8	-1.9		3							
1.9	-2.0		3							
2.0	-2.1	3								
2.1	-2.2	3								
2.2	-2.3	4								
2.3	-2.4	4								
2.4	-2.5	3								
2.5	-2.6	6								
2.6	-2.7	7								
2.7	-2.8									
2.8	-2.9									
2.9	-3.0									
3.0	-3.1									
3.1	-3.2									
3.2	-3.3									
3.3	-3.4									
3.4	-3.5									
3.5	-3.6									
3.6	-3.7									
3.7	-3.8									
3.8	-3.9									
3.9	-4.0									
4.0	-4.1									
4.1	-4.2									
4.2	-4.3									
4.3	-4.4									
4.4	-4.5									

REMARKS	SYMBOLS ▼ Standing Water Level ◁ Out flow ▷ In flow
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CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stage 3-5	EASTING: 1928649.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607794.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.1	Groundwater Not Encountered		5						
0.1	-0.2		5							
0.2	-0.3		5							
0.3	-0.4		3							
0.4	-0.5		3							
0.5	-0.6		2							
0.6	-0.7		1							
0.7	-0.8		2							
0.8	-0.9		3							
0.9	-1.0		2							
1.0	-1.1		3							
1.1	-1.2		3							
1.2	-1.3		3							
1.3	-1.4		2							
1.4	-1.5		4							
1.5	-1.6		4							
1.6	-1.7		3							
1.7	-1.8		3							
1.8	-1.9		5							
1.9	-2.0		2							
2.0	-2.1	4								
2.1	-2.2	4								
2.2	-2.3	5								
2.3	-2.4	4								
2.4	-2.5	5								
2.5	-2.6	6								
2.6	-2.7	5								
2.7	-2.8	7								

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



# DCP LOG

Lot 05 DCP04

SHEET 20 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928662.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607796.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0				5						
0.1				4						
0.2				4						
0.3				3						
0.4				2						
0.5				3						
0.6				2						
0.7				2						
0.8				2						
0.9				2						
1.0				3						
1.1				3						
1.2				3						
1.3				2						
1.4				2						
1.5				2						
1.6				4						
1.7				4						
1.8				2						
1.9				2						
2.0				3						
2.1				4						
2.2				3						
2.3				3						
2.4				4						
2.5				5						
2.6				5						
2.7				7						
2.8				8						
2.9										
3.0										
3.1										
3.2										
3.3										
3.4										
3.5										
3.6										
3.7										
3.8										
3.9										
4.0										
4.1										
4.2										
4.3										
4.4										
4.5										

REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>



# HAND AUGER LOG

Lot 06 HA01

SHEET 5 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928662.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607767.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.0	-0.5			SILT; medium brown. Firm; non-plastic; dry; (clean).	D	FM				
0.5	-1.0			SILT, with trace rootlets ; medium yellowish brown with dark brown pockets. Soft; non-plastic; moist.						
1.0	-1.5			Sandy SILT; medium yellowish brown with trace of orange mottle. Soft; non-plastic; moist.	M	S				
1.5	-2.0			EOH: 1.90m						
2.0	-2.5									
2.5	-3.0									
3.0	-3.5									
3.5	-4.0									
4.0	-4.5									

REMARKS

- SYMBOLS
- Standing Water Level
  - Out flow
  - In flow





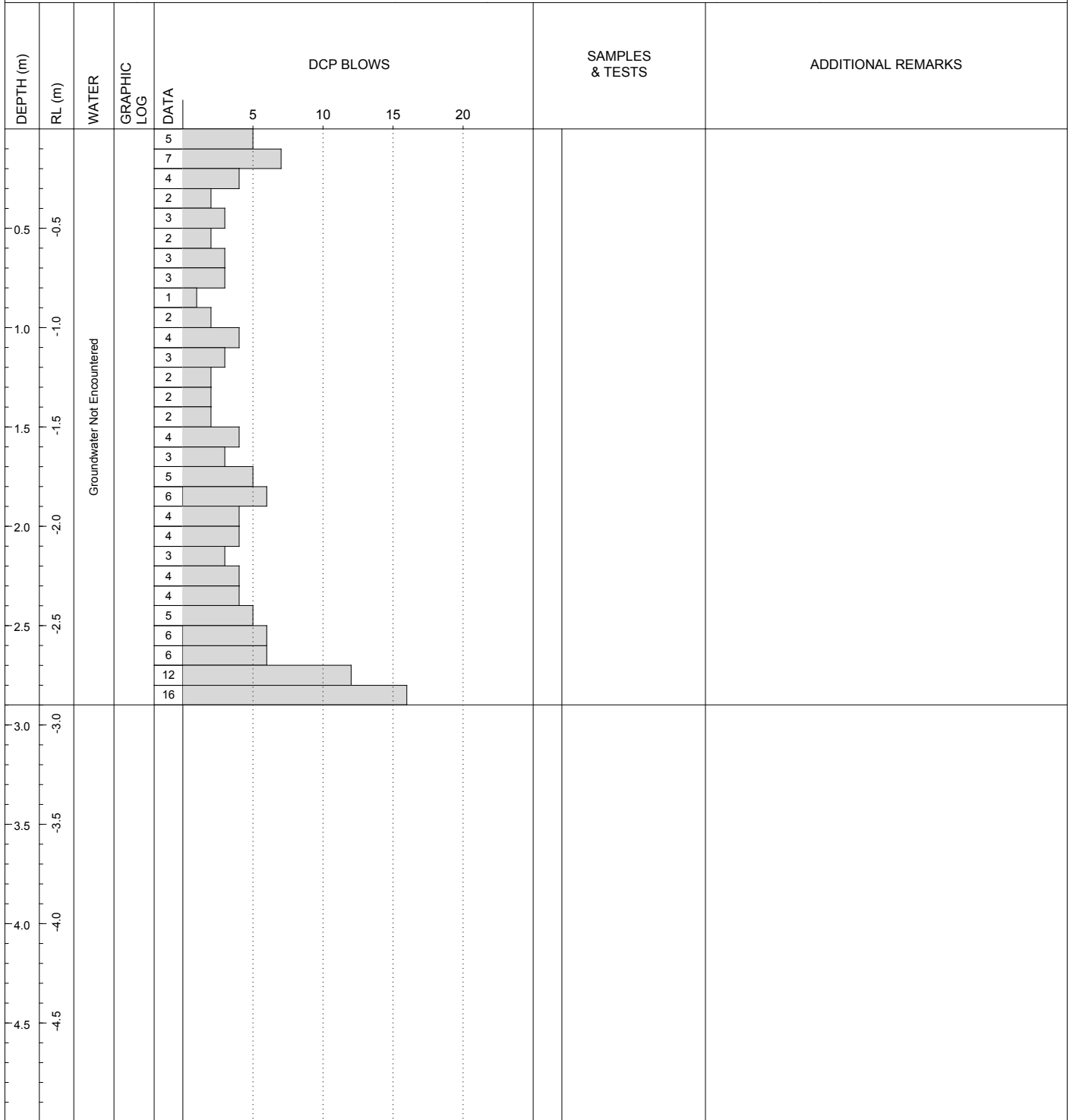
# DCP LOG

Lot 06 DCP01

SHEET 21 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928647.00	STARTED: 14/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607787.00	FINISHED: 14/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI DATE: 14/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

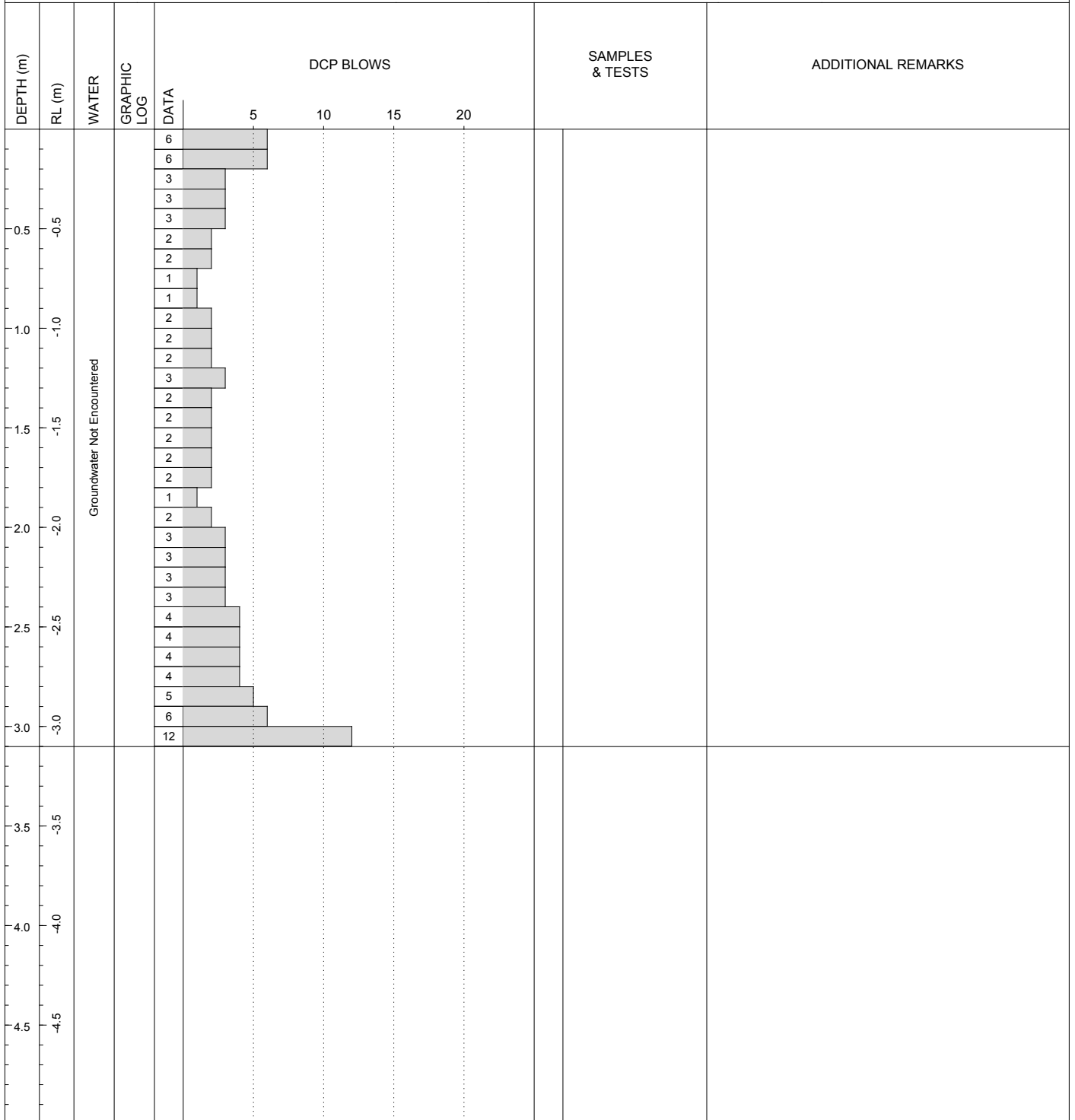
CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928638.00	STARTED: 14/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607779.00	FINISHED: 14/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI      DATE: 14/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

Produced with Core-GS by Geric

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928622.00	STARTED: 14/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607797.00	FINISHED: 14/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI      DATE: 14/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.5	-0.5	Groundwater Not Encountered		5						
			5							
			5							
			4							
			3							
			2							
			2							
			2							
			1							
1.0	-1.0				2					
					2					
					2					
					3					
					4					
1.5	-1.5				3					
					3					
					5					
					3					
2.0	-2.0				6					
					5					
				5						
				4						
				5						
2.5	-2.5			7						
				7						
				8						
				8						
				10						
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



# DCP LOG

Lot 06 DCP04

SHEET 24 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928634.00	STARTED: 14/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607808.00	FINISHED: 14/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI DATE: 14/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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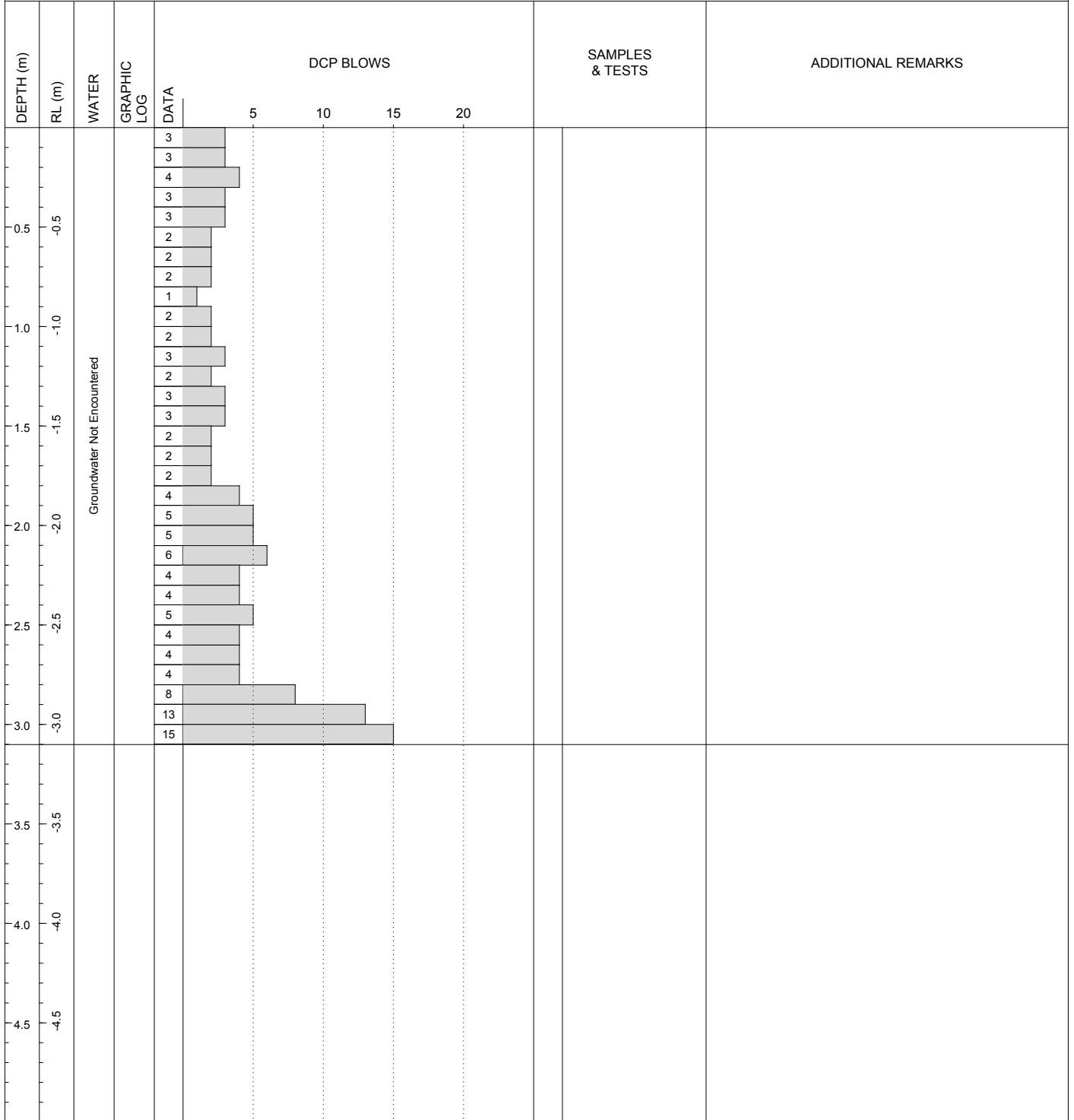
DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0				3						
0.1				6						
0.2				4						
0.3				3						
0.4				6						
0.5				3						
0.6				3						
0.7				3						
0.8				3						
0.9				2						
1.0				3						
1.1				2						
1.2				2						
1.3				2						
1.4				3						
1.5				3						
1.6				3						
1.7				4						
1.8				3						
1.9				3						
2.0				2						
2.1				4						
2.2				2						
2.3				5						
2.4				5						
2.5				5						
2.6				6						
2.7				6						
2.8				8						
2.9										
3.0										
3.1										
3.2										
3.3										
3.4										
3.5										
3.6										
3.7										
3.8										
3.9										
4.0										
4.1										
4.2										
4.3										
4.4										
4.5										

REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>



CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stage 3-5	EASTING: 1928652.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607760.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°    PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928664.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607742.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.5	Groundwater Not Encountered		4						
0.1	-0.5		4							
0.2	-0.5		4							
0.3	-0.5		6							
0.4	-0.5		4							
0.5	-0.5		5							
0.6	-0.5		3							
0.7	-0.5		2							
0.8	-0.5		2							
0.9	-1.0		3							
1.0	-1.0		4							
1.1	-1.0		4							
1.2	-1.0		3							
1.3	-1.0		4							
1.4	-1.0		4							
1.5	-1.5		5							
1.6	-1.5		4							
1.7	-1.5		2							
1.8	-1.5		3							
1.9	-2.0		3							
2.0	-2.0	4								
2.1	-2.0	4								
2.2	-2.0	5								
2.3	-2.5	6								
2.4	-2.5	6								
2.5	-2.5	7								
2.6	-2.5	7								
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928675.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607747.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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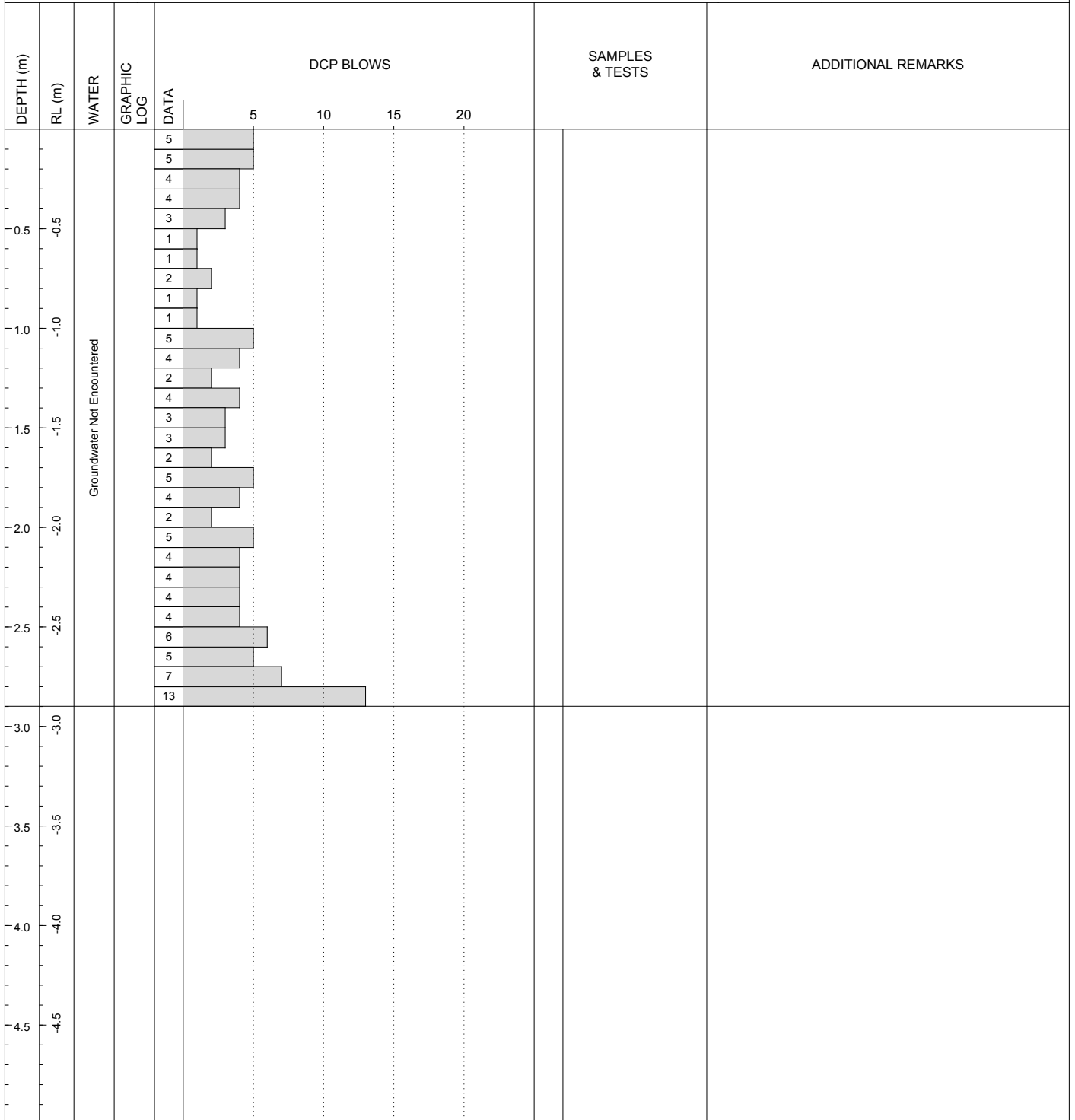
DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
					5      10      15      20		
0.5	-0.5	Groundwater Not Encountered		4	4		
			6	6			
			5	5			
			3	3			
			5	5			
			2	2			
			2	2			
			2	2			
			2	2			
1.0	-1.0		5	5			
			3	3			
			4	4			
			3	3			
			3	3			
			4	4			
			3	3			
			2	2			
			2	2			
			3	3			
2.0	-2.0		5	5			
		5	5				
		3	3				
		5	5				
		6	6				
2.5	-2.5	6	6				
		6	6				
		6	6				
		8	8				
3.0	-3.0						
3.5	-3.5						
4.0	-4.0						
4.5	-4.5						

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928675.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607747.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow





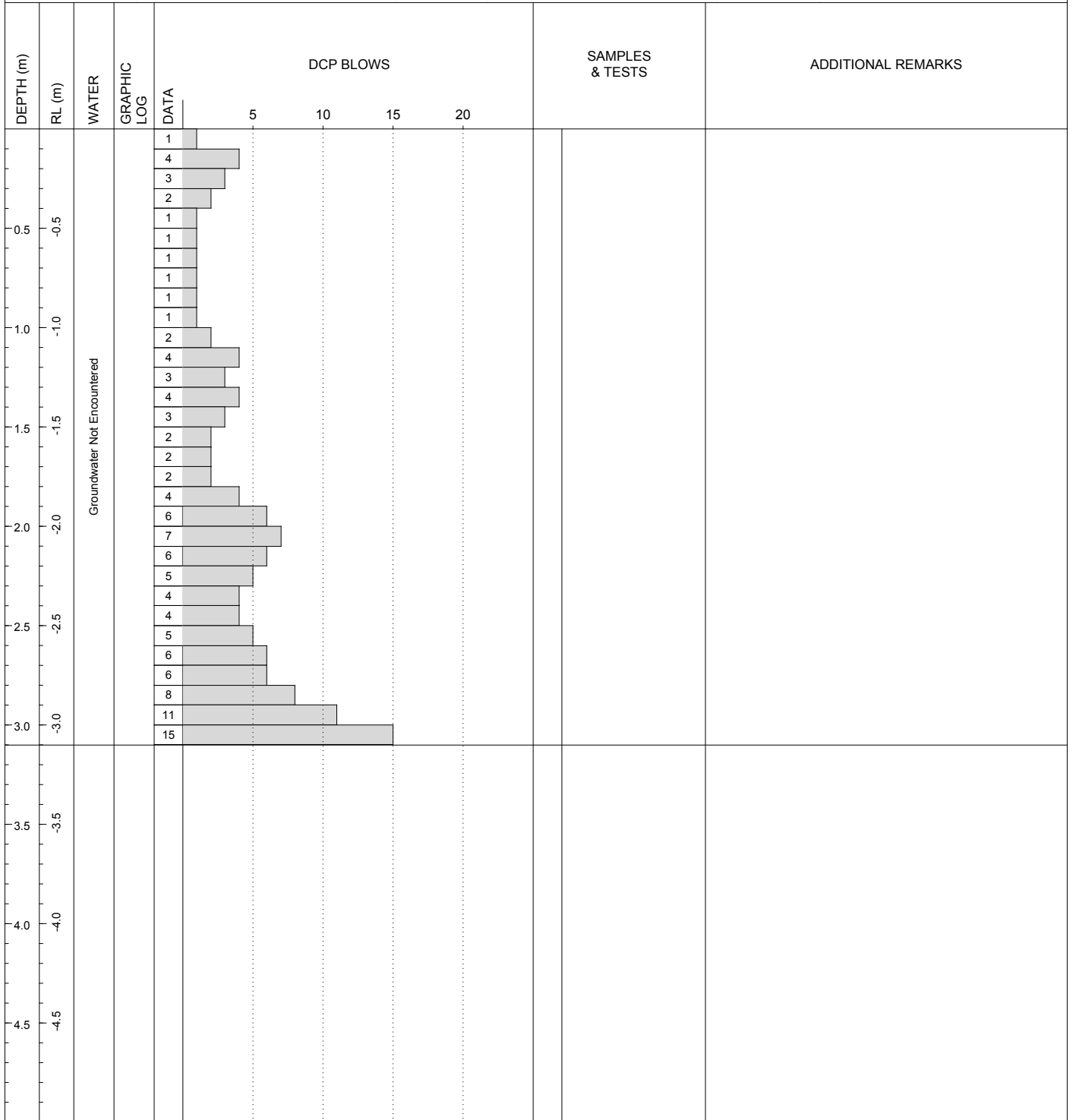
# DCP LOG

Lot 08 DCP01

SHEET 29 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928692.00	STARTED: 14/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607760.00	FINISHED: 14/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI DATE: 14/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928682.00	STARTED: 14/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607753.00	FINISHED: 14/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI      DATE: 14/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

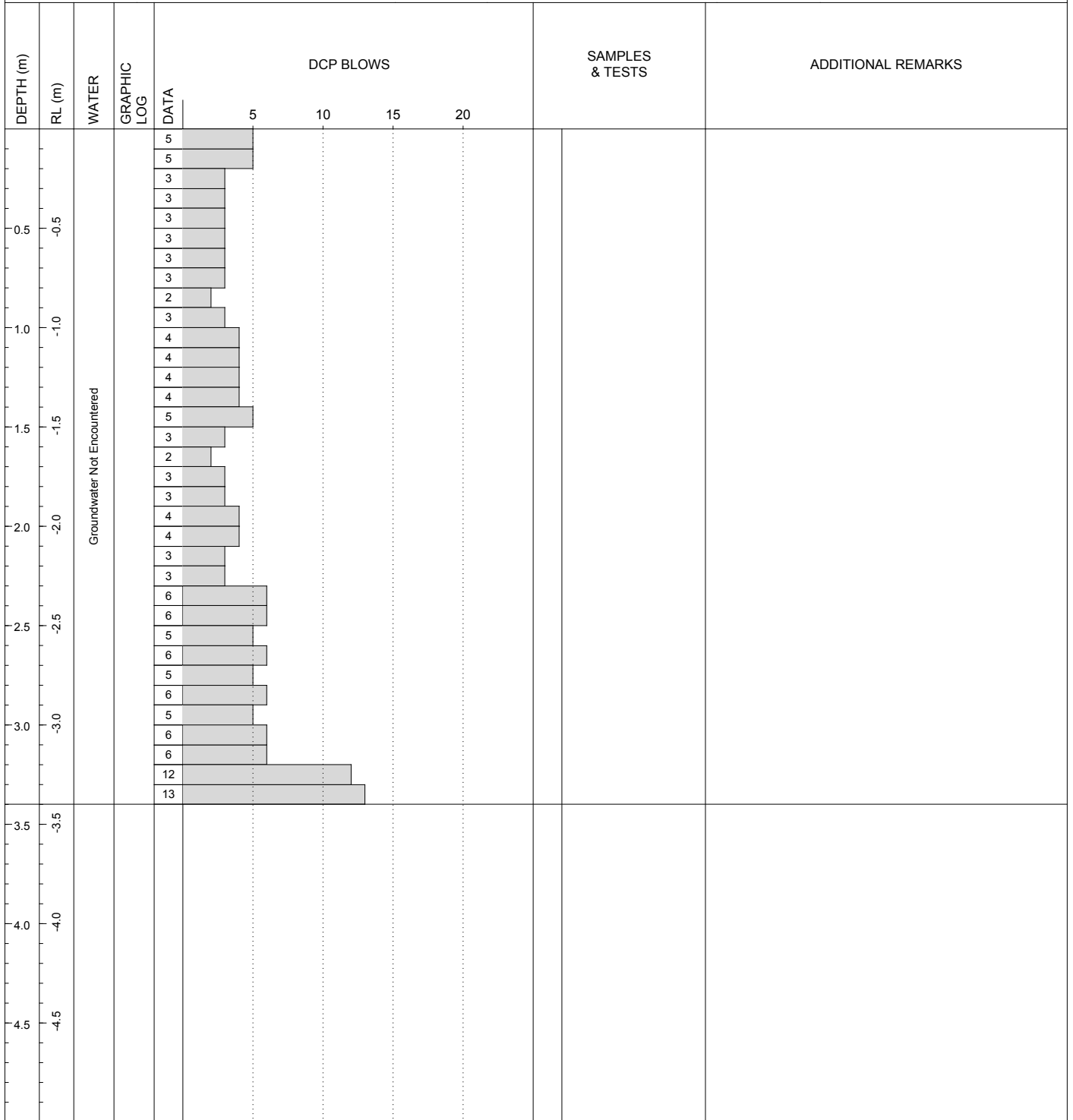
CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0				4						
0.1				5						
0.2				5						
0.3				5						
0.4				2						
0.5				2						
0.6				2						
0.7				2						
0.8				2						
0.9				2						
1.0				3						
1.1				3						
1.2				4						
1.3				4						
1.4				4						
1.5				4						
1.6				3						
1.7				2						
1.8				2						
1.9				3						
2.0				2						
2.1				3						
2.2				3						
2.3				3						
2.4				4						
2.5				5						
2.6				5						
2.7				5						
2.8				6						
2.9				5						
3.0				6						
3.1				11						
3.2				10						
3.3				12						

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stages 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928667.00 NORTHING: 5607771.00 DATUM: ELEVATION: AZUMITH: 0°    PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 14/11/2017 FINISHED: 14/11/2017 LOGGED BY: CI      DATE: 14/11/2017 CHECKED BY: JM     DATE: 24/11/2017 STATUS: Final data
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CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	<b>SYMBOLS</b> ▼ Standing Water Level ◁ Out flow ▷ In flow
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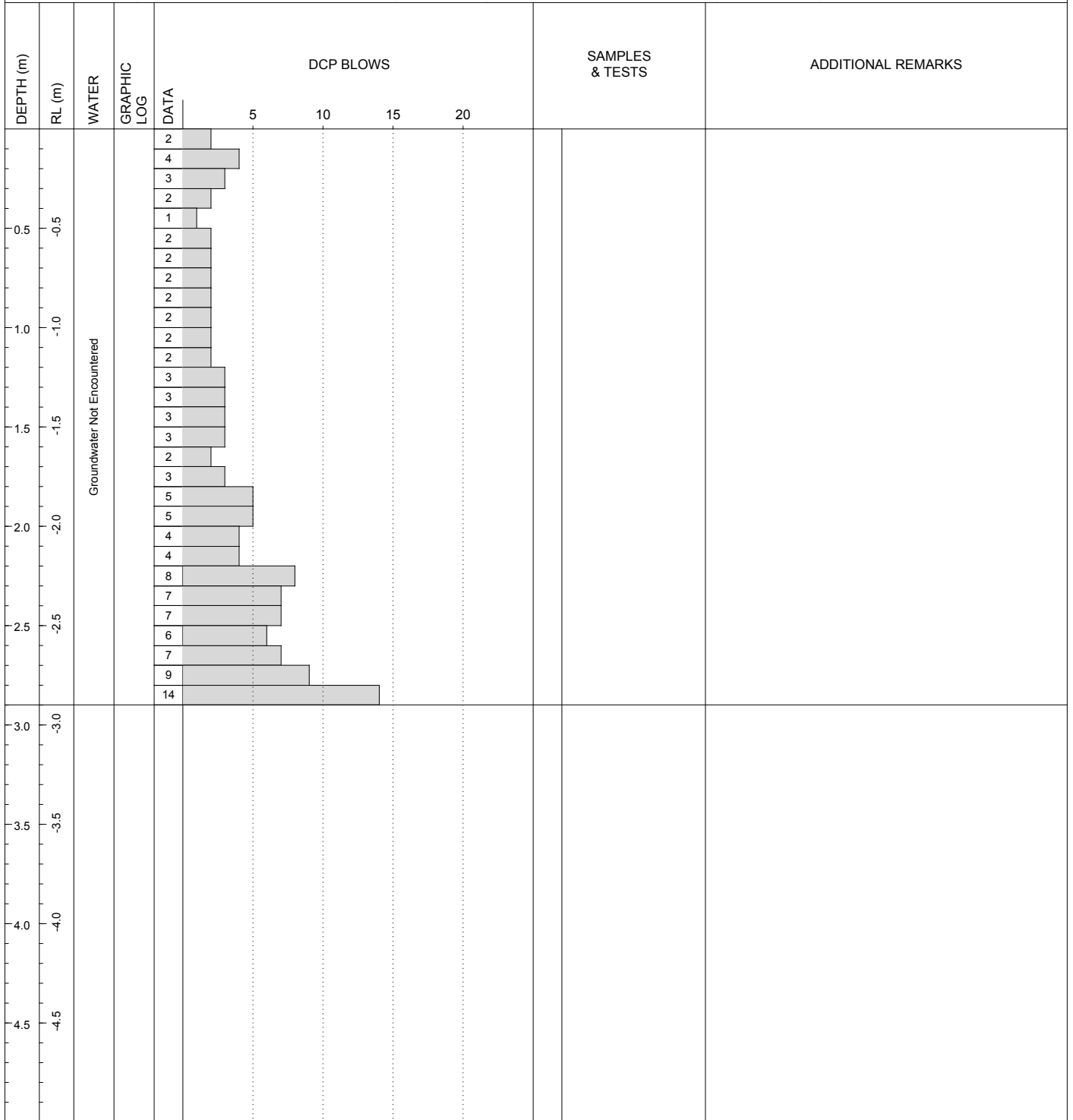
# DCP LOG

Lot 08 DCP04

SHEET 32 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928679.00	STARTED: 14/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607776.00	FINISHED: 14/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI DATE: 14/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>



# HAND AUGER LOG

Lot 09 HA01

SHEET 8 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928692.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607783.05	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.0	-0.5			TOPSOIL, with trace gravel; dark brown. Soft; moist; gravel, subround, to 5mm; organic silt, trace rootlets.						
0.5	-1.0			SILT; medium brown with trace dark brown silt. Soft; moist.	M	S				
1.0	-1.5			SILT, with trace sand; medium yellowish brown. Soft; low plasticity; moist; sand, fine.						
1.30	-1.80			EOH: 1.30m						
1.5	-2.0									
2.0	-2.5									
2.5	-3.0									
3.0	-3.5									
3.5	-4.0									
4.0	-4.5									
4.5	-5.0									

REMARKS  
too hard to pull auger

SYMBOLS  
 Standing Water Level  
 Out flow  
 In flow



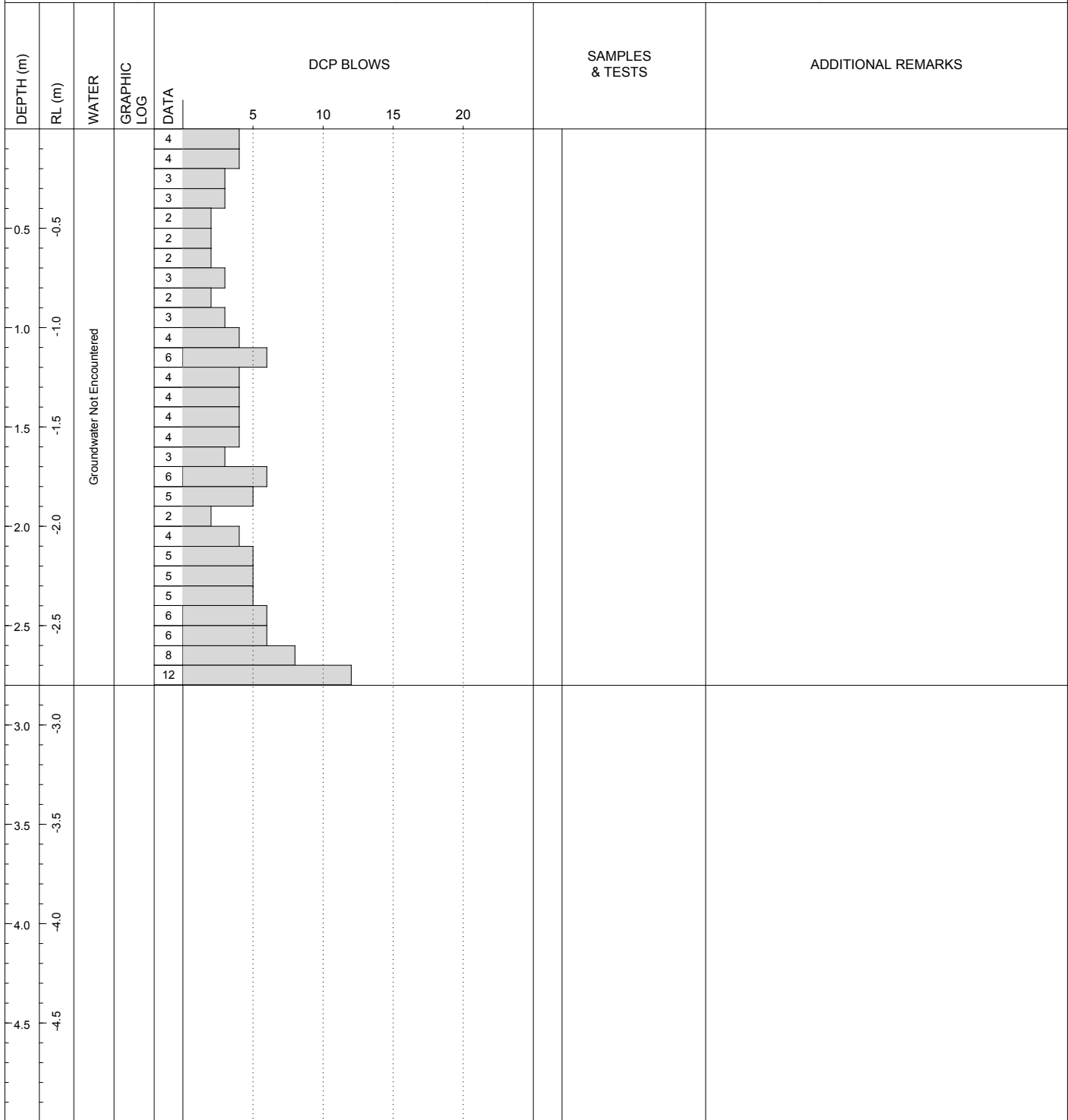
# DCP LOG

Lot 09 DCP01

SHEET 33 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928709.00	STARTED: 14/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607772.00	FINISHED: 14/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB DATE: 14/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>





# DCP LOG

Lot 09 DCP02

SHEET 34 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928702.00	STARTED: 14/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607762.00	FINISHED: 14/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 14/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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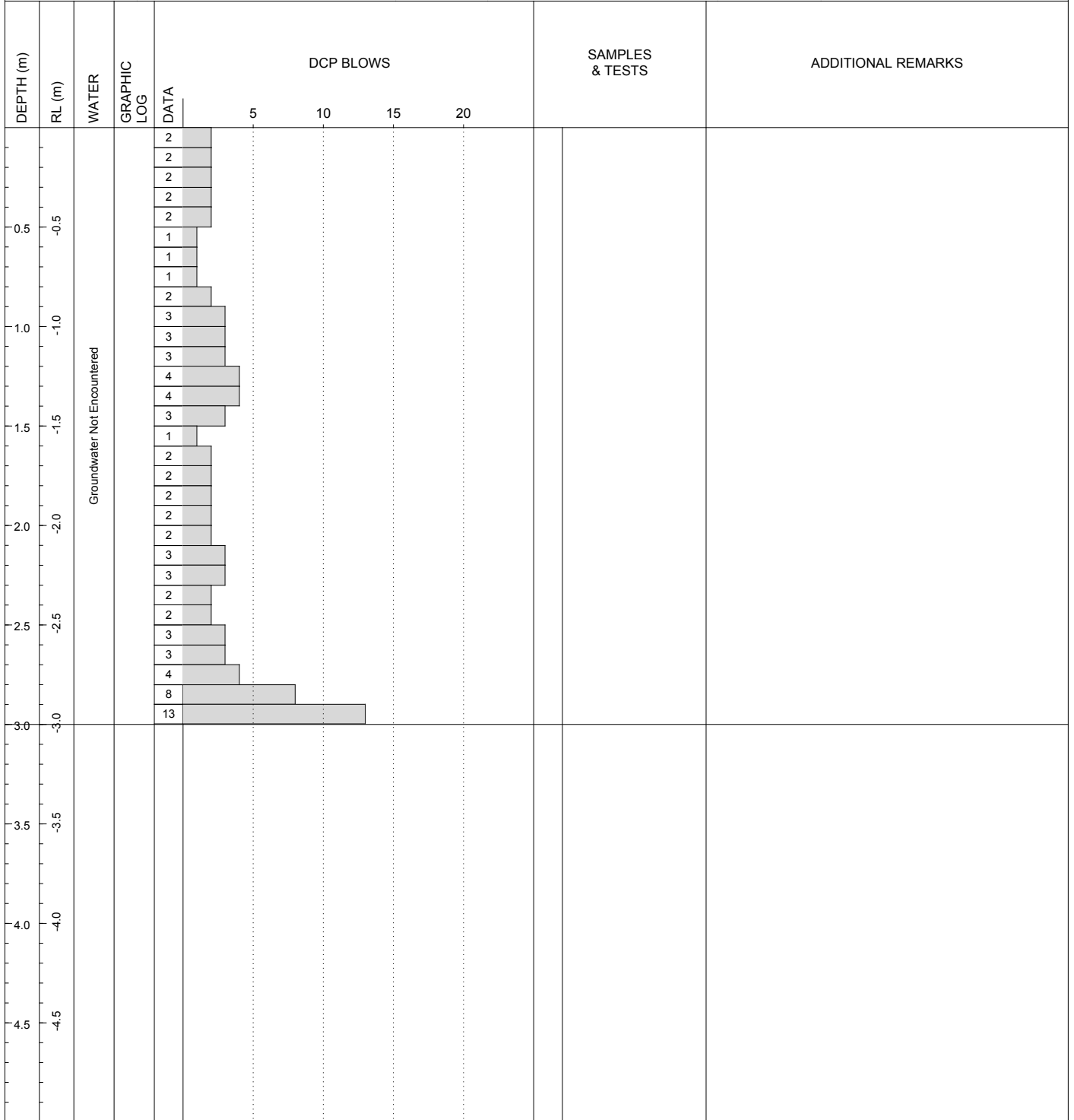
DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0		Groundwater Not Encountered		2						
0.1			2							
0.2			2							
0.3			2							
0.4			1							
0.5			1							
0.6			1							
0.7			1							
0.8			2							
0.9			1							
1.0			2							
1.1			2							
1.2			3							
1.3			2							
1.4			3							
1.5			3							
1.6			6							
1.7			3							
1.8			4							
1.9			5							
2.0		5								
2.1		4								
2.2		7								
2.3		6								
2.4		6								
2.5		5								
2.6		7								
2.7										
2.8										
2.9										
3.0										
3.1										
3.2										
3.3										
3.4										
3.5										
3.6										
3.7										
3.8										
3.9										
4.0										
4.1										
4.2										
4.3										
4.4										
4.5										

REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

Produced with Core-GS by Geoc

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928682.00	STARTED: 14/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607783.00	FINISHED: 14/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 14/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



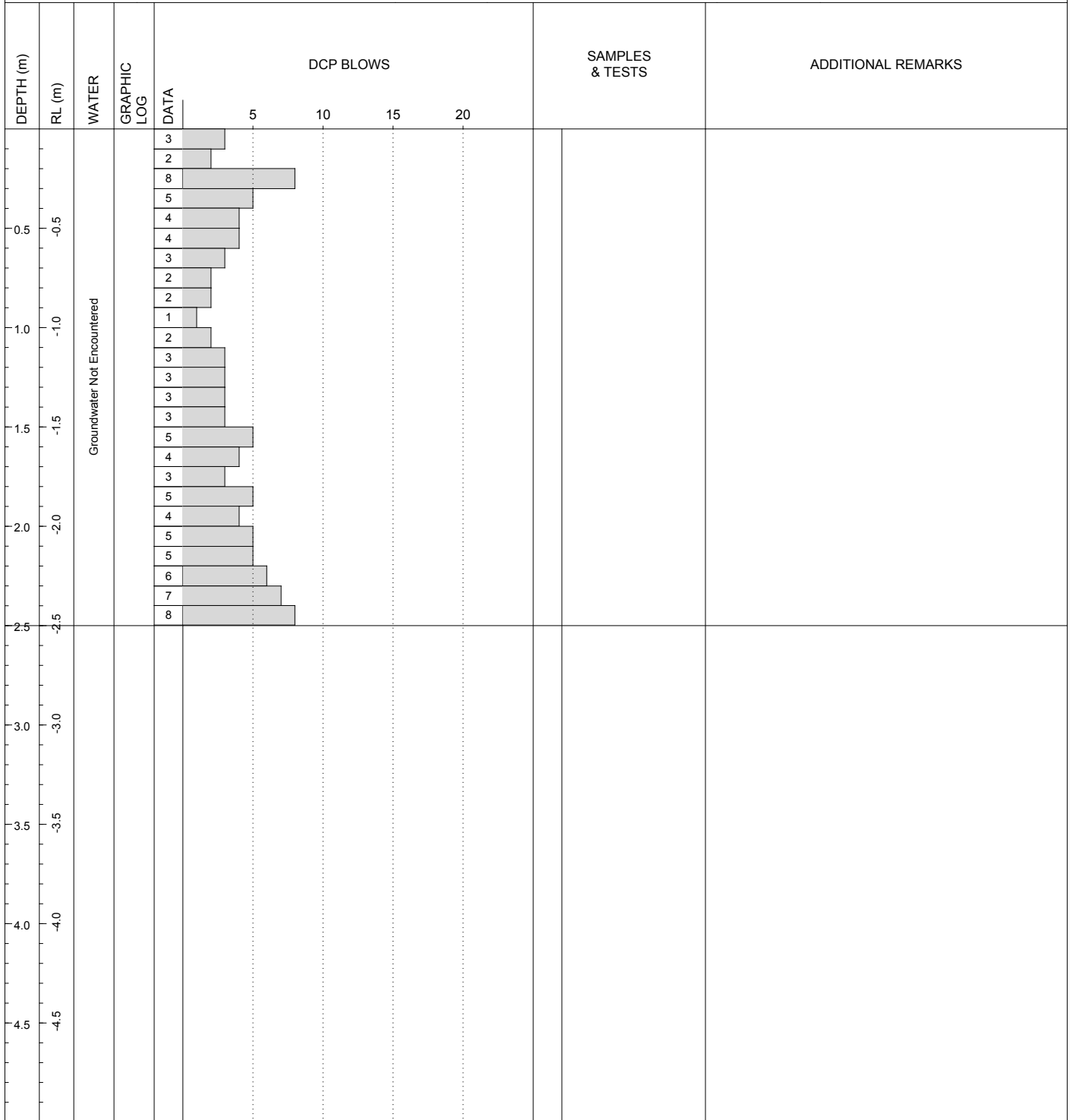
# DCP LOG

Lot 09 DCP04

SHEET 36 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928689.00	STARTED: 14/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607789.00	FINISHED: 14/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 14/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>



# HAND AUGER LOG

Lot 10 HA01

SHEET 9 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928488.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607717.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.0	-0.5			TOPSOIL; dark brown. Firm; moist; non plastic, trace roots.		FM				
0.5	-1.0			SILT; medium brown, trace orange mottle. Soft; non-plastic; moist.	M	S				
1.0	-1.5			EOH: 1.40m						
1.5	-2.0									
2.0	-2.5									
2.5	-3.0									
3.0	-3.5									
3.5	-4.0									
4.0	-4.5									
4.5										

REMARKS

SYMBOLS

- ▼ Standing Water Level
- ◁ Out flow
- ▷ In flow



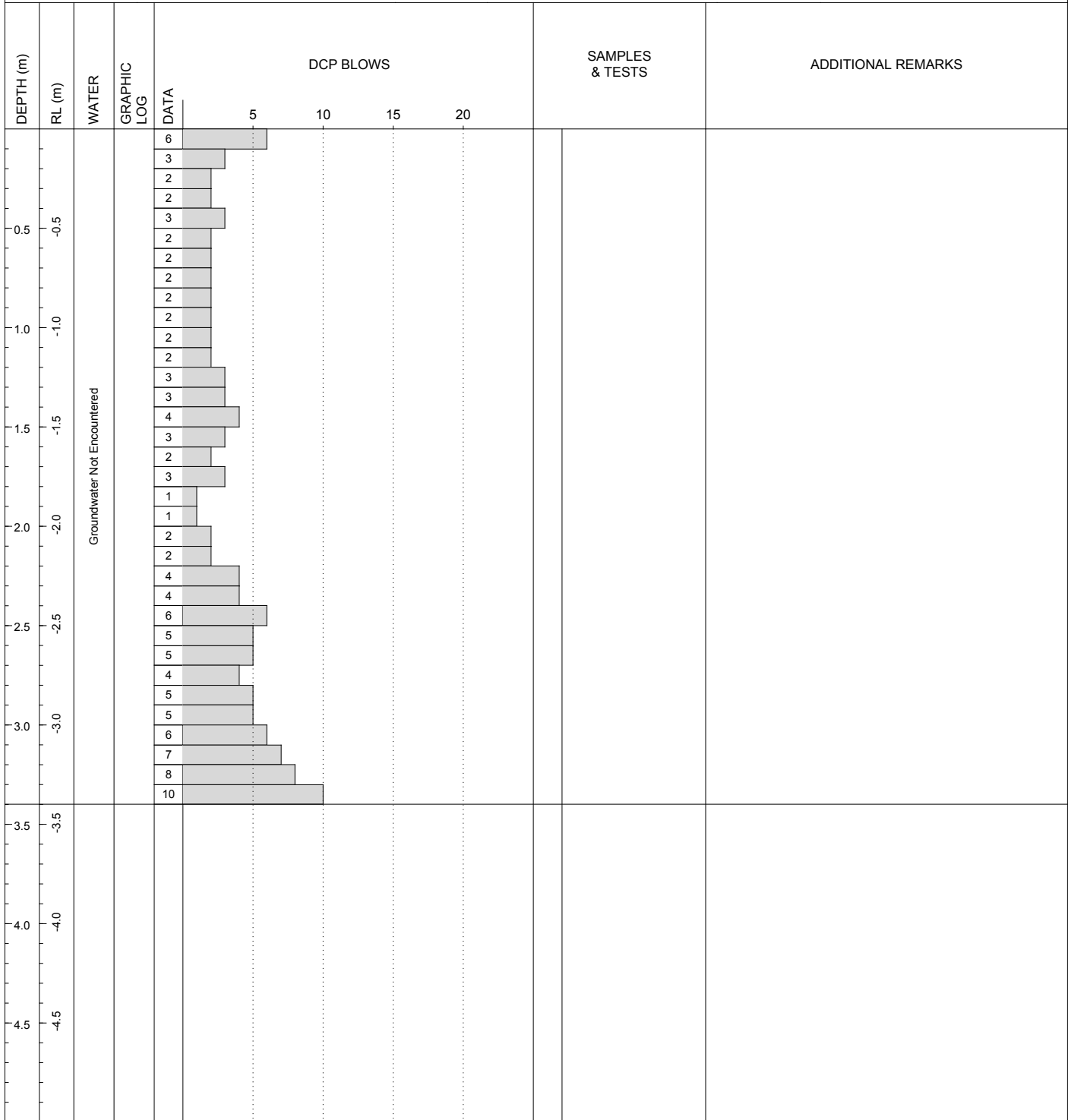
# DCP LOG

Lot 10 DCP01

SHEET 37 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928501.00	STARTED: 14/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607719.00	FINISHED: 14/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 14/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>



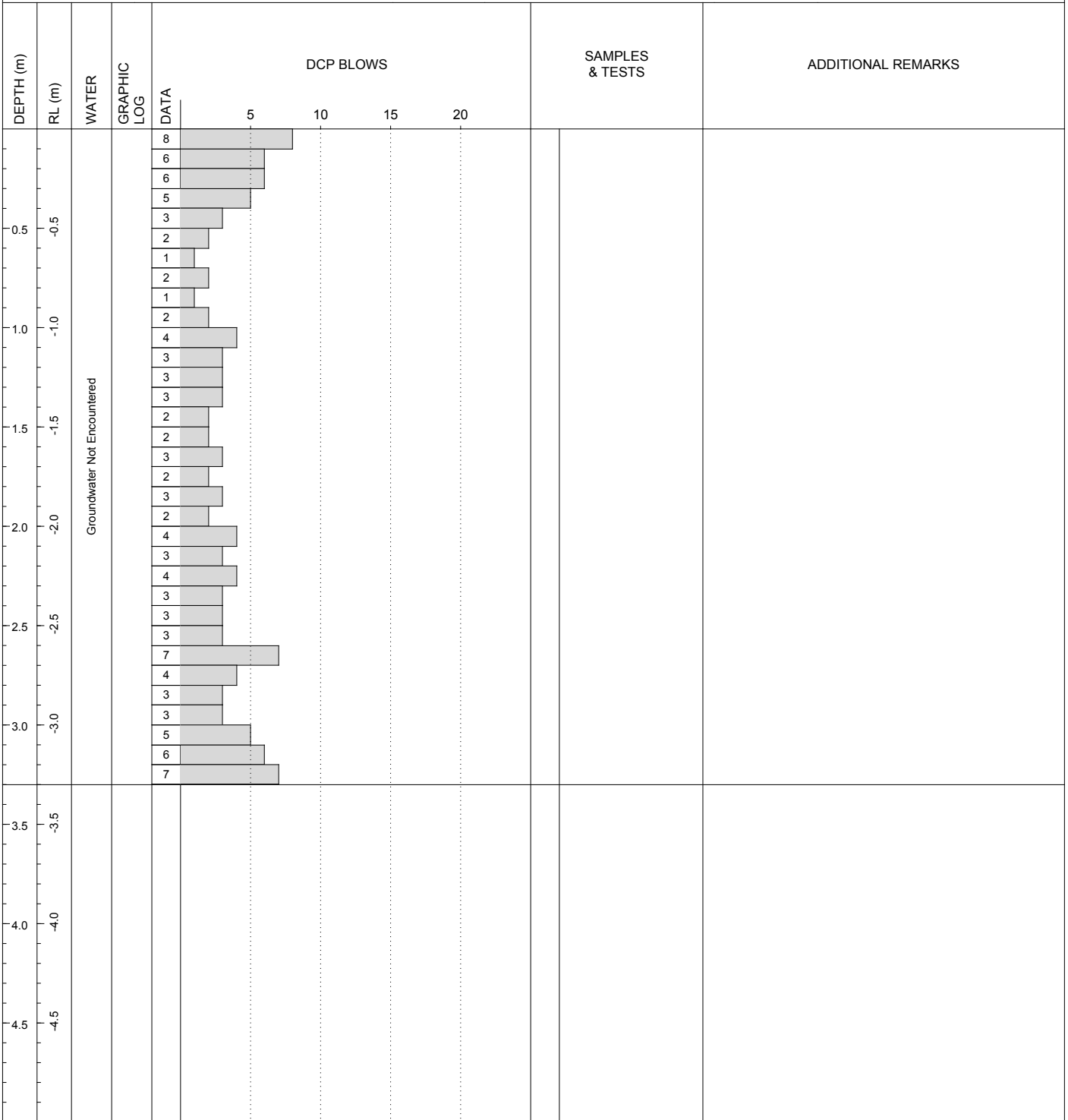
# DCP LOG

Lot 10 DCP02

SHEET 38 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928490.00	STARTED: 14/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607729.00	FINISHED: 14/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB DATE: 14/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

Produced with Core-GS by Geric



# DCP LOG

Lot 10 DCP03

SHEET 39 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stage 3-5	EASTING: 1928484.00	STARTED: 14/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607706.00	FINISHED: 14/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 14/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.5	-0.5	Groundwater Not Encountered		5						
			3							
			3							
			2							
			1							
			2							
			2							
			1							
1.0	-1.0				3					
					3					
					6					
					3					
					4					
1.5	-1.5				3					
					2					
					3					
					5					
					3					
2.0	-2.0				2					
					3					
				4						
				5						
2.5	-2.5			4						
				4						
				7						
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

Produced with Core-GS by Geoc



# DCP LOG

Lot 10 DCP04

SHEET 40 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928474.00	STARTED: 14/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607719.00	FINISHED: 14/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: SLK      DATE: 14/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.5	Groundwater Not Encountered		1						
0.1	-0.5		5							
0.2	-0.5		2							
0.3	-0.5		3							
0.4	-0.5		3							
0.5	-0.5		2							
0.6	-0.5		2							
0.7	-0.5		2							
0.8	-0.5		1							
0.9	-1.0		2							
1.0	-1.0		3							
1.1	-1.0		4							
1.2	-1.0		3							
1.3	-1.0		4							
1.4	-1.0		4							
1.5	-1.5		4							
1.6	-1.5		4							
1.7	-1.5		3							
1.8	-1.5		2							
1.9	-1.5		2							
2.0	-2.0	3								
2.1	-2.0	4								
2.2	-2.0	4								
2.3	-2.0	4								
2.4	-2.5	5								
2.5	-2.5	4								
2.6	-2.5	4								
2.7	-2.5	4								
2.8	-2.5	6								
2.9	-2.5	6								
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

Produced with Core-GS by Geoc





# HAND AUGER LOG

Lot 11 HA01

SHEET 10 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 198612.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607772.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

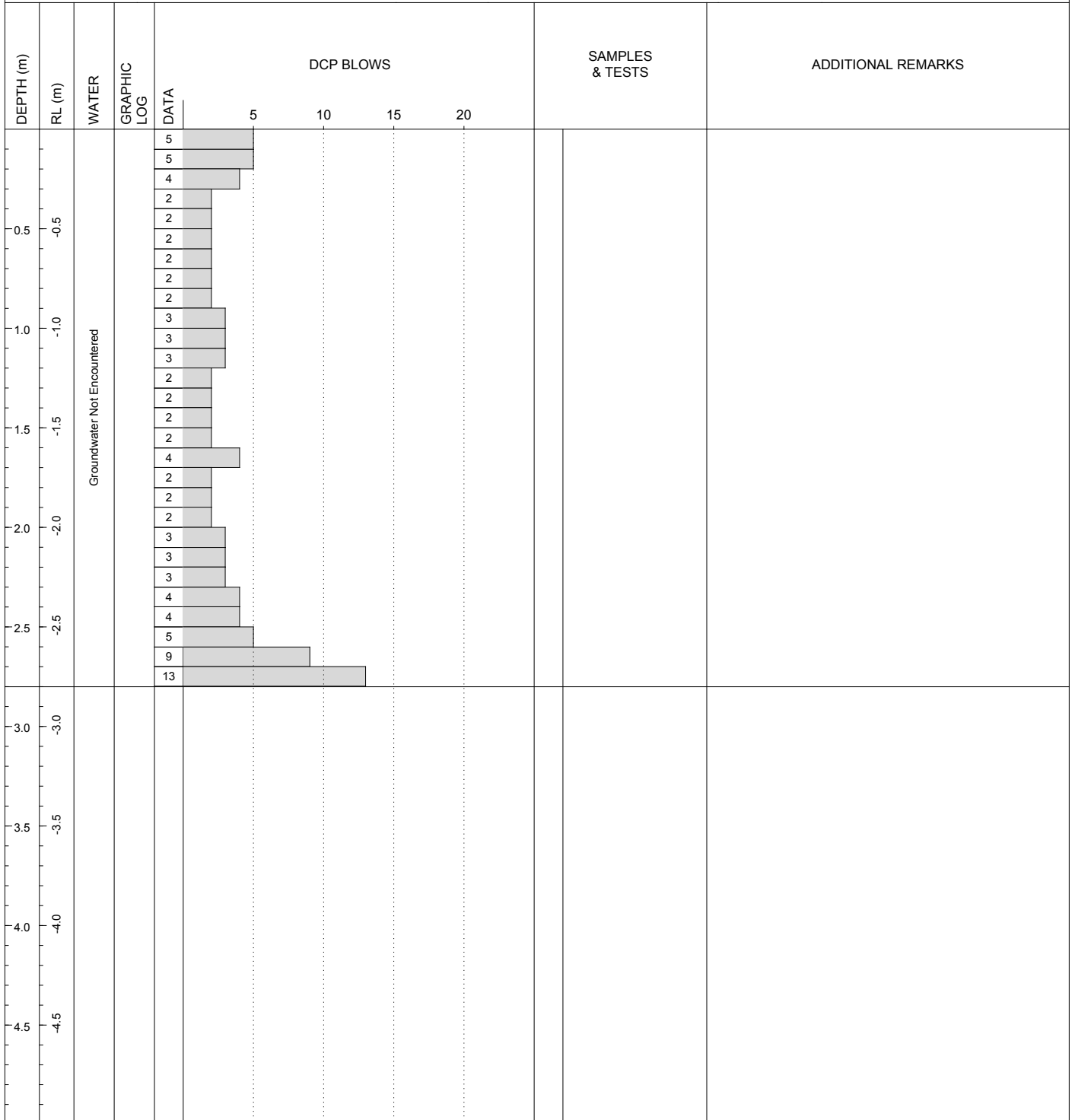
DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.0	-0.5			TOPSOIL; dark brown. Firm; organic silt, trace rootlets, non plastic.		FM				
0.5	-1.0			SILT; medium yellowish brown. Soft; non-plastic; moist.	M	S				
1.0	-1.5			SILT, with trace sand; medium yellowish brown. Soft; low plasticity; moist.						
1.5	-2.0			EOH: 1.50m						
2.0	-2.5									
2.5	-3.0									
3.0	-3.5									
3.5	-4.0									
4.0	-4.5									

REMARKS

- SYMBOLS
- Standing Water Level
  - Out flow
  - In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stage 3-5	EASTING: 1928622.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607766.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI      DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



# DCP LOG

Lot 11 DCP02

SHEET 42 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928613.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607758.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR: MACHINE: OPERATOR:

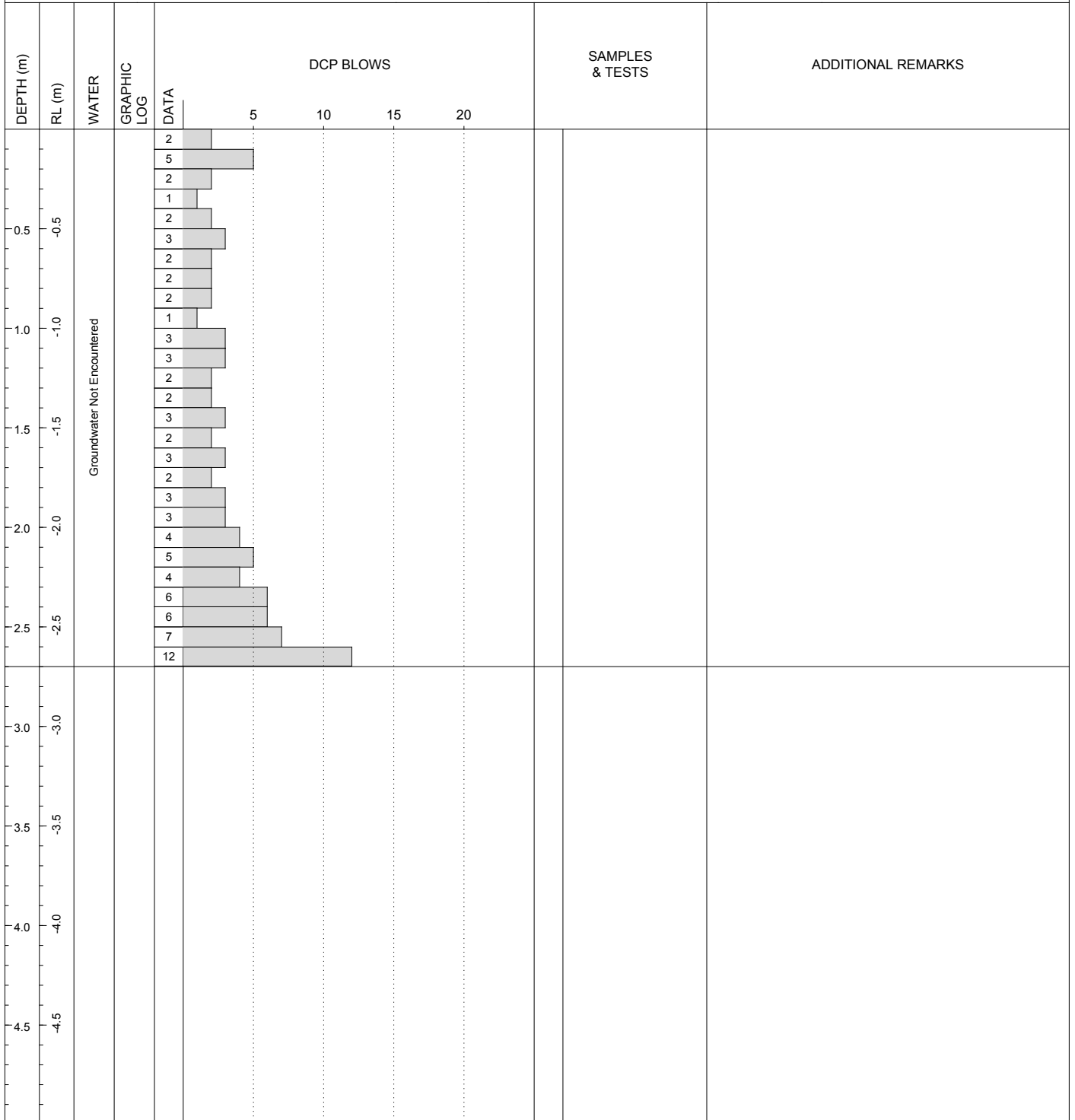
DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.1			3						
0.1	-0.2			3						
0.2	-0.3			3						
0.3	-0.4			3						
0.4	-0.5			2						
0.5	-0.6			2						
0.6	-0.7			2						
0.7	-0.8			2						
0.8	-0.9			1						
0.9	-1.0			1						
1.0	-1.1			2						
1.1	-1.2			2						
1.2	-1.3			2						
1.3	-1.4			3						
1.4	-1.5			2						
1.5	-1.6			2						
1.6	-1.7			2						
1.7	-1.8			4						
1.8	-1.9			3						
1.9	-2.0			3						
2.0	-2.1			4						
2.1	-2.2			3						
2.2	-2.3			3						
2.3	-2.4			2						
2.4	-2.5			3						
2.5	-2.6			2						
2.6	-2.7			2						
2.7	-2.8			4						
2.8	-2.9			5						
2.9	-3.0			7						
3.0	-3.1			8						

REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

Produced with Core-GS by Geric

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928601.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607774.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI      DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



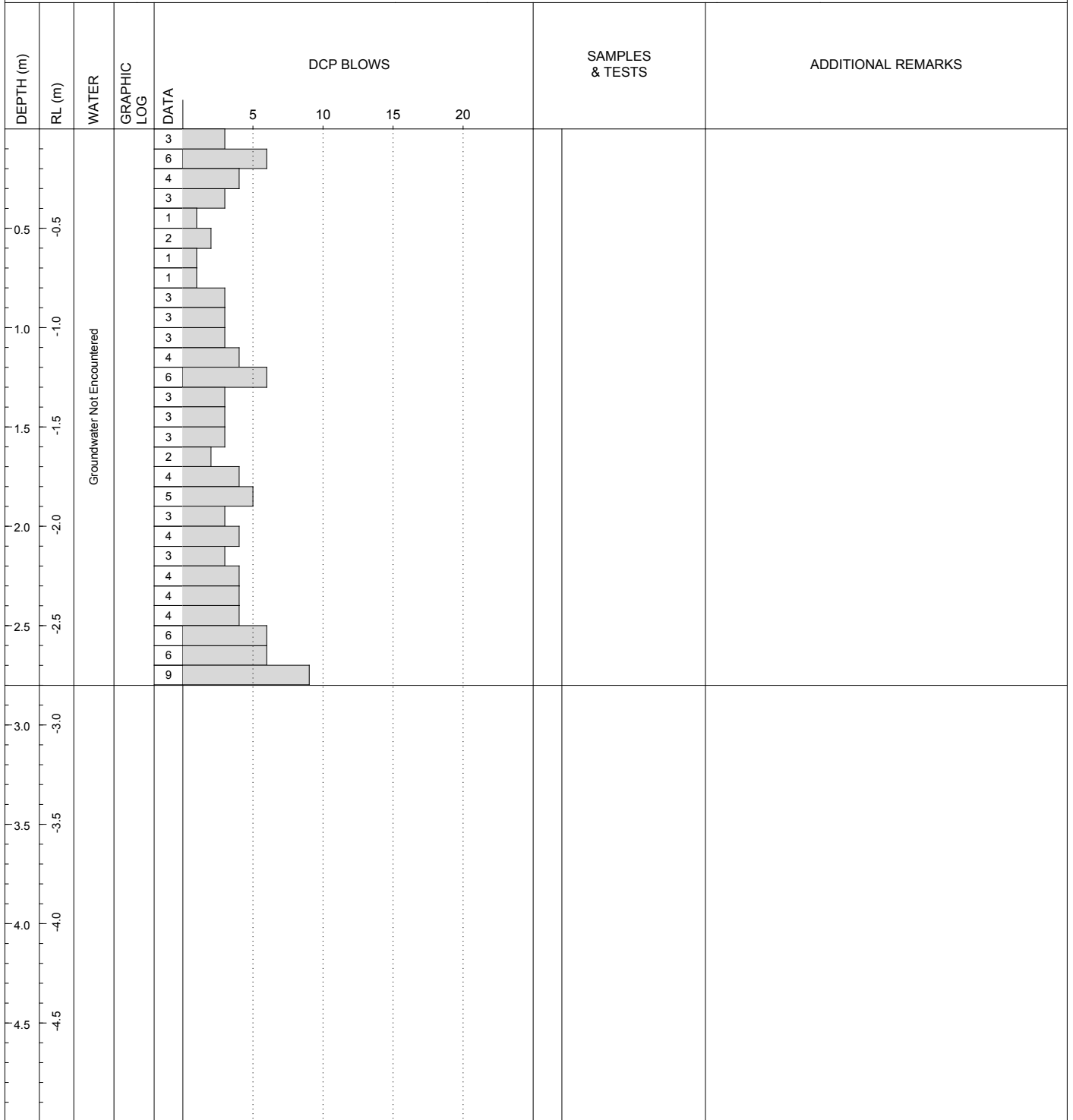
# DCP LOG

Lot 11 DCP04

SHEET 44 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928612.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607782.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

Produced with Core-GS by Geoc



# HAND AUGER LOG

Lot 12 HA01

SHEET 11 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928634.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607737.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.0	-0.5			TOPSOIL; dark brown. Firm; moist; trace rootlets, non plastic.		FM				
0.5	-1.0			SILT; medium brown. Soft; non-plastic; moist; trace pockets of dark brown silt.	M	S				
1.0	-1.5			EOH: 1.40m						
1.5	-2.0									
2.0	-2.5									
2.5	-3.0									
3.0	-3.5									
3.5	-4.0									
4.0	-4.5									
4.5										

REMARKS

- SYMBOLS
- Standing Water Level
  - Out flow
  - In flow



# DCP LOG

Lot 12 DCP01

SHEET 45 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928645.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607736.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
					5 10 15 20		
0.5	-0.5	Groundwater Not Encountered		7			
			5				
			3				
			3				
			3				
			2				
			2				
			1				
1.0	-1.0		2				
			3				
			2				
			4				
			3				
			2				
			2				
			3				
1.5	-1.5		1				
			2				
			3				
			3				
		3					
		2					
2.0	-2.0						
		4					
		4					
2.5	-2.5						
		5					
		5					
		8					
3.0	-3.0						
3.5	-3.5						
4.0	-4.0						
4.5	-4.5						

REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stage 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928634.00 NORTHING: 5607726.00 DATUM: ELEVATION: AZUMITH: 0°    PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 23/11/2017 FINISHED: 23/11/2017 LOGGED BY: CI      DATE: 23/11/2017 CHECKED BY: JM     DATE: 24/11/2017 STATUS: Final data
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CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.5	-0.5	Groundwater Not Encountered		5						
			3							
			3							
			5							
			2							
			1							
			1							
			2							
			2							
1.0	-1.0				3					
					3					
					4					
					4					
					3					
					3					
					3					
					2					
					3					
					3					
					2					
				2						
2.0	-2.0			3						
				2						
				3						
				3						
				4						
				4						
2.5	-2.5			5						
				5						
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS	<b>SYMBOLS</b> ▼ Standing Water Level ◁ Out flow ▷ In flow
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# DCP LOG

Lot 12 DCP03

SHEET 47 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928623.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 567741.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.1	Groundwater Not Encountered		4						
0.1	-0.2		4							
0.2	-0.3		4							
0.3	-0.4		5							
0.4	-0.5		3							
0.5	-0.6		3							
0.6	-0.7		3							
0.7	-0.8		2							
0.8	-0.9		1							
0.9	-1.0		4							
1.0	-1.1		3							
1.1	-1.2		4							
1.2	-1.3		4							
1.3	-1.4		4							
1.4	-1.5		5							
1.5	-1.6		5							
1.6	-1.7		2							
1.7	-1.8		2							
1.8	-1.9		1							
1.9	-2.0		2							
2.0	-2.1		3							
2.1	-2.2		3							
2.2	-2.3		2							
2.3	-2.4		4							
2.4	-2.5		3							
2.5	-2.6		2							
2.6	-2.7		2							
2.7	-2.8		3							
2.8	-2.9		4							
2.9	-3.0		5							
3.0	-3.1									
3.1	-3.2									
3.2	-3.3									
3.3	-3.4									
3.4	-3.5									
3.5	-3.6									
3.6	-3.7									
3.7	-3.8									
3.8	-3.9									
3.9	-4.0									
4.0	-4.1									
4.1	-4.2									
4.2	-4.3									
4.3	-4.4									
4.4	-4.5									

REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

Produced with Core-GS by Geoc



# DCP LOG

Lot 12 DCP04

SHEET 48 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928635.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607749.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.5	Groundwater Not Encountered		4						
0.1	-0.5		5							
0.2	-0.5		4							
0.3	-0.5		5							
0.4	-0.5		4							
0.5	-0.5		3							
0.6	-0.5		2							
0.7	-0.5		1							
0.8	-0.5		1							
0.9	-1.0		3							
1.0	-1.0		3							
1.1	-1.0		3							
1.2	-1.0		3							
1.3	-1.0		3							
1.4	-1.5		2							
1.5	-1.5		3							
1.6	-1.5		3							
1.7	-1.5		3							
1.8	-1.5		3							
1.9	-2.0		3							
2.0	-2.0	2								
2.1	-2.0	3								
2.2	-2.0	3								
2.3	-2.0	4								
2.4	-2.0	5								
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS	SYMBOLS ▼ Standing Water Level ◁ Out flow ▷ In flow
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# HAND AUGER LOG

Lot 13 HA01

SHEET 12 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928650.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607719.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.0				TOPSOIL; dark brown. Firm; dry; trace rootlets, non plastic.						
0.5	-0.5			Sandy SILT; medium brown. Firm; non-plastic; dry; sand, fine.	D	FM				
1.0	-1.0			SILT; medium brown. Soft; non-plastic; moist.	M	S				
				EOH: 1.30m						
1.5	-1.5									
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS

SYMBOLS

- ▼ Standing Water Level
- ◁ Out flow
- ▷ In flow



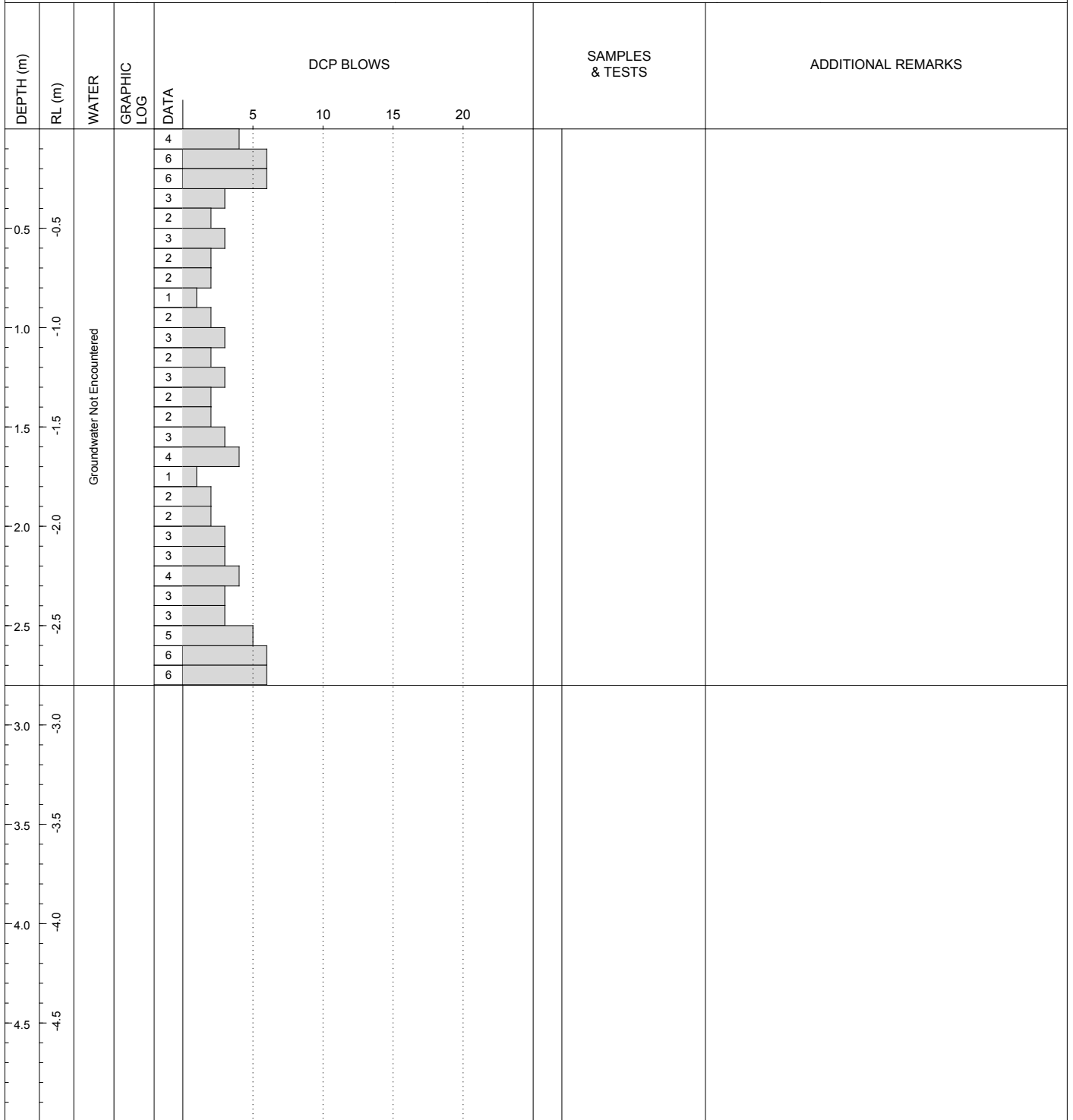
# DCP LOG

Lot 13 DCP01

SHEET 49 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stage 3-5	EASTING: 1928658.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607719.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>



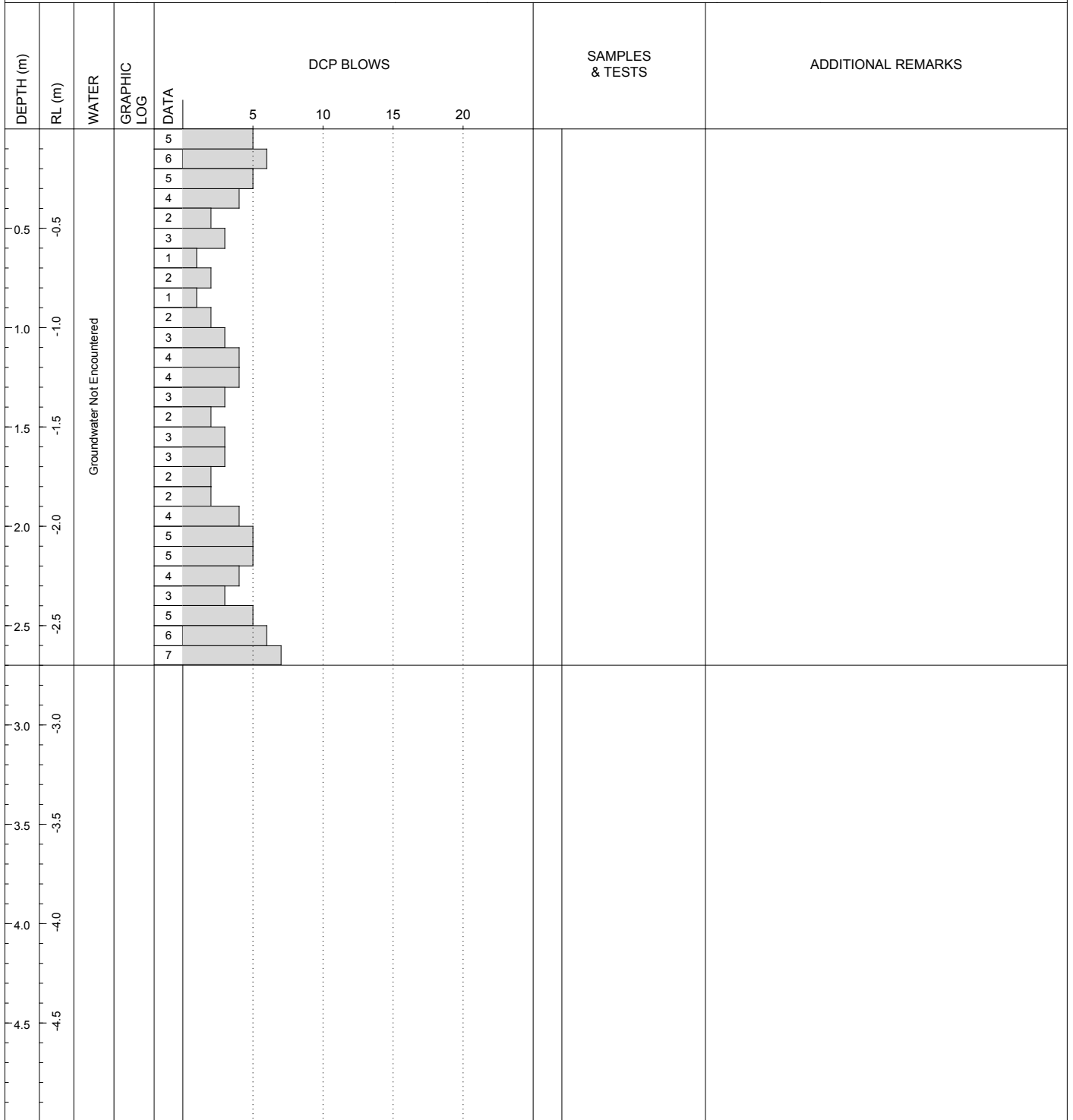
# DCP LOG

Lot 13 DCP02

SHEET 50 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928650.00	STARTED: 10/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607707.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>



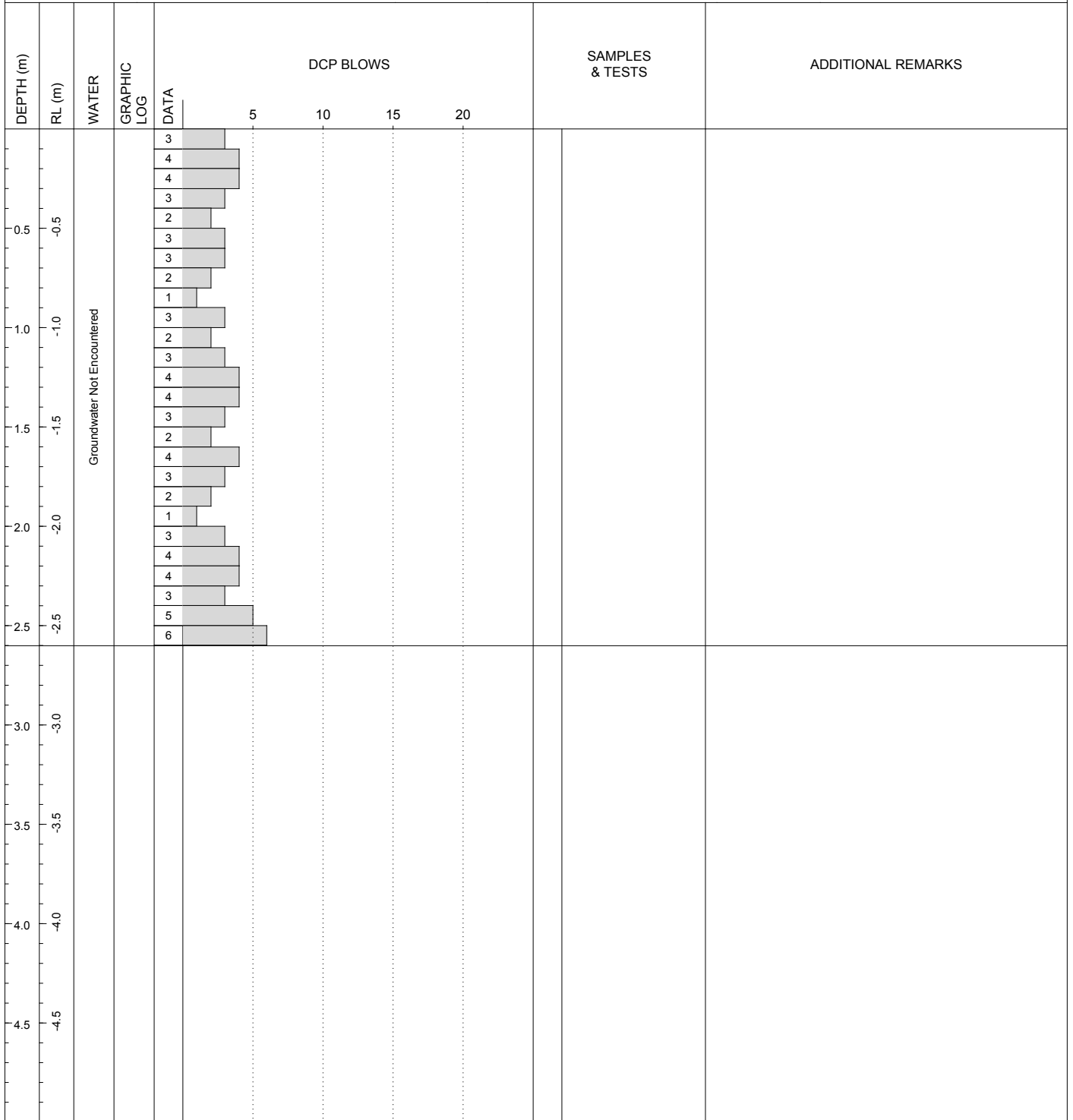
# DCP LOG

Lot 13 DCP03

SHEET 51 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stage 3-5	EASTING: 1928639.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607721.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>



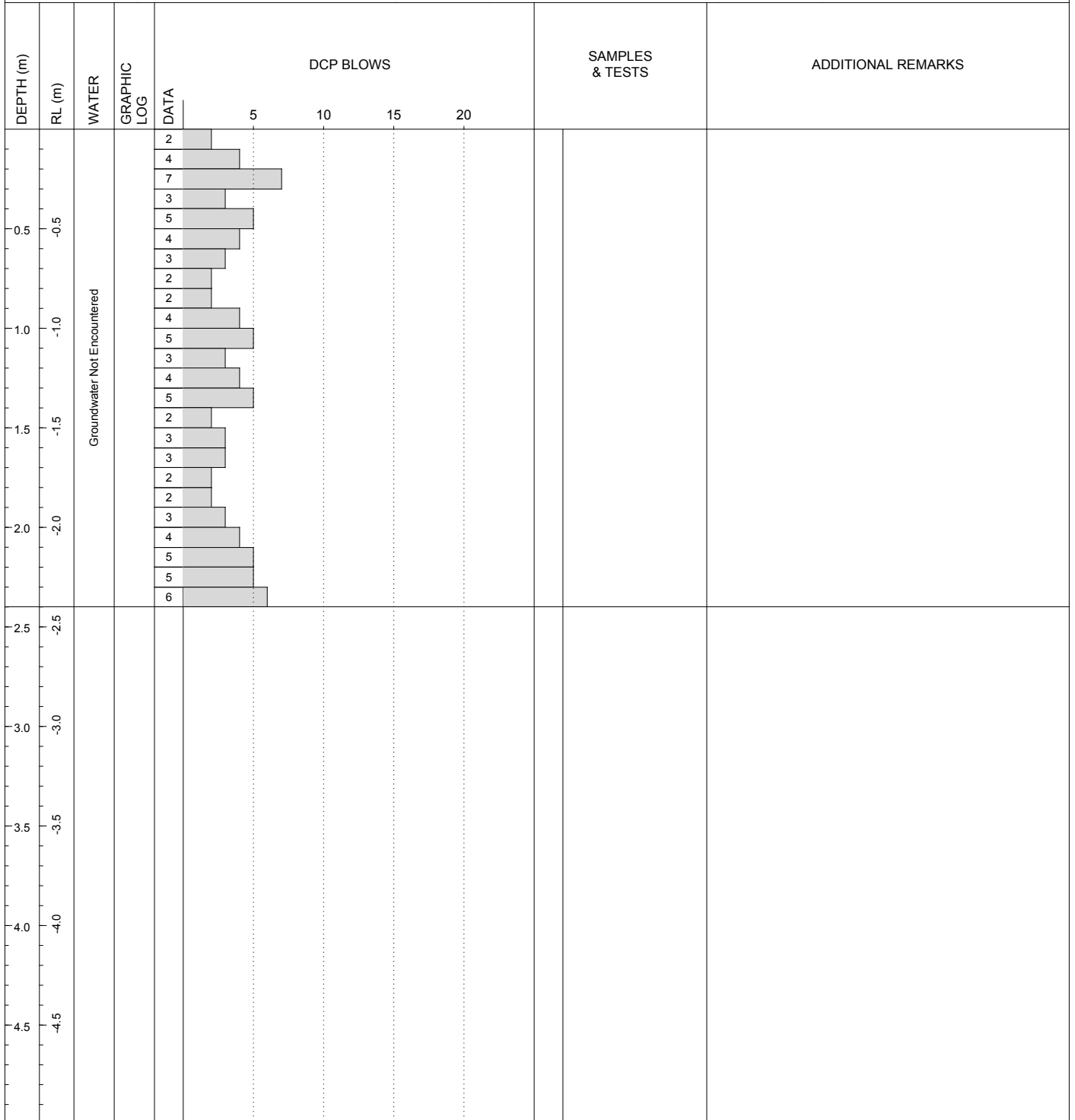
# DCP LOG

Lot 13 DCP04

SHEET 52 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928648.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607729.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS ▼ Standing Water Level ◁ Out flow ▷ In flow
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# HAND AUGER LOG

Lot 14 HA01

SHEET 13 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928632.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607705.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
				TOPSOIL; dark brown. Firm; dry.	D	FM				
0.5	-0.5			Sandy SILT; medium brown. Soft; non-plastic; dry; sand, fine.		S				
				SAND, with trace silt; medium brown. Loose; non-plastic; moist; sand, fine.		L				
1.0	-1.0			Sandy SILT; medium brown. Soft; non-plastic; moist; sand, fine; sand decreases with depth.	M					
				Clayey sandy SILT; medium orangish brown with trace of grey. Soft; low plasticity; moist; sand, fine.		S				
1.5	-1.5			EOH: 1.50m						
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS  
too hard to pull auger

SYMBOLS  
 ▼ Standing Water Level  
 ◁ Out flow  
 ▷ In flow





# DCP LOG

Lot 14 DCP01

SHEET 53 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stage 3-5	EASTING: 1928643.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607704.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
					5      10      15      20		
0.4	-0.4	Groundwater Not Encountered		4	4		
0.6	-0.6		6	6			
0.8	-0.8		2	2			
1.0	-1.0		3	3			
1.2	-1.2		2	2			
1.4	-1.4		3	3			
1.6	-1.6		2	2			
1.8	-1.8		3	3			
2.0	-2.0		4	4			
2.2	-2.2		2	2			
2.4	-2.4		2	2			
2.6	-2.6		3	3			
2.8	-2.8		4	4			
3.0	-3.0		3	3			
3.2	-3.2		3	3			
3.4	-3.4		2	2			
3.6	-3.6		4	4			
3.8	-3.8		5	5			
4.0	-4.0		8	8			

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

Produced with Core-GS by Geoc



# DCP LOG

Lot 14 DCP02

SHEET 54 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928632.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607694.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
					5 10 15 20		
0.5	-0.5	Groundwater Not Encountered		5			
			5				
			3				
			3				
			1				
			2				
			3				
			2				
			2				
			2				
			3				
			4				
			4				
			3				
			4				
			2				
			3				
			3				
			2				
			3				
		3					
		2					
		4					
		4					
		5					
		6					
3.0	-3.0						
3.5	-3.5						
4.0	-4.0						
4.5	-4.5						

REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

Produced with Core-GS by Geotec



# DCP LOG

Lot 14 DCP03

SHEET 55 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928622.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607707.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
					5 10 15 20		
0.5	-0.5	Groundwater Not Encountered		7	7		
				10	10		
				7	7		
				4	4		
				2	2		
				4	4		
				2	2		
				2	2		
				4	4		
				2	2		
				2	2		
				2	2		
				4	4		
				3	3		
				3	3		
				3	3		
				2	2		
				2	2		
				3	3		
				3	3		
			2	2			
			3	3			
			3	3			
			4	4			
			3	3			
			4	4			
			4	4			
			6	6			
			8	8			
3.0	-3.0						
3.5	-3.5						
4.0	-4.0						
4.5	-4.5						

REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>



# DCP LOG

Lot 14 DCP04

SHEET 56 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928633.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607717.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.5	Groundwater Not Encountered		4						
0.1	-0.5		5							
0.2	-0.5		3							
0.3	-0.5		3							
0.4	-0.5		3							
0.5	-0.5		2							
0.6	-0.5		3							
0.7	-0.5		2							
0.8	-0.5		2							
0.9	-0.5		2							
1.0	-1.0		4							
1.1	-1.0		3							
1.2	-1.0		3							
1.3	-1.0		3							
1.4	-1.0		2							
1.5	-1.0		2							
1.6	-1.0		3							
1.7	-1.0		4							
1.8	-1.0		3							
1.9	-1.0		3							
2.0	-2.0	2								
2.1	-2.0	2								
2.2	-2.0	3								
2.3	-2.0	2								
2.4	-2.5	3								
2.5	-2.5	5								
2.6	-2.5	5								
2.7	-2.5									
2.8	-2.5									
2.9	-2.5									
3.0	-3.0									
3.1	-3.0									
3.2	-3.0									
3.3	-3.0									
3.4	-3.5									
3.5	-3.5									
3.6	-3.5									
3.7	-3.5									
3.8	-3.5									
3.9	-4.0									
4.0	-4.0									
4.1	-4.0									
4.2	-4.0									
4.3	-4.5									
4.4	-4.5									
4.5	-4.5									

REMARKS	SYMBOLS ▼ Standing Water Level ◁ Out flow ▷ In flow
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Produced with Core-GS by Geoc



# HAND AUGER LOG

Lot 15 HA01

SHEET 14 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928618.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607695.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE	CONSISTENCY /	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
					CONDITION	DENSITY				
0.0	-0.5			TOPSOIL; dark brown. Firm; dry; non plastic, trace rootlets.	D	FM				
0.5	-0.5			SILT; medium brown. Soft; non-plastic; moist.						
1.0	-1.0			SILT, with trace clay and sand; medium orangish brown with trace grey, trace orange mottle. Soft; non-plastic; moist; sand decreases with depth, clay increases with depth.	M	S				
				EOH: 1.30m						
1.5	-1.5									
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS

- SYMBOLS
- Standing Water Level
  - Out flow
  - In flow



# DCP LOG

Lot 15 DCP01

SHEET 57 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stage 3-5	EASTING: 1928625.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607700.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.1	Groundwater Not Encountered		4						
0.1	-0.2		4							
0.2	-0.3		2							
0.3	-0.4		1							
0.4	-0.5		1							
0.5	-0.6		1							
0.6	-0.7		1							
0.7	-0.8		1							
0.8	-0.9		1							
0.9	-1.0		4							
1.0	-1.1		3							
1.1	-1.2		2							
1.2	-1.3		2							
1.3	-1.4		2							
1.4	-1.5		3							
1.5	-1.6		3							
1.6	-1.7		2							
1.7	-1.8		2							
1.8	-1.9		3							
1.9	-2.0		3							
2.0	-2.1		3							
2.1	-2.2		3							
2.2	-2.3		3							
2.3	-2.4		3							
2.4	-2.5		5							
2.5	-2.6	5								
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>



# DCP LOG

Lot 15 DCP02

SHEET 58 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stage 3-5	EASTING: 1928616.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607683.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
					5 10 15 20		
0.0	-0.5	Groundwater Not Encountered		4			
0.1			3				
0.2			3				
0.3			3				
0.4			2				
0.5			3				
0.6			3				
0.7			4				
0.8			3				
0.9			2				
1.0			2				
1.1			2				
1.2			2				
1.3			3				
1.4			2				
1.5			3				
1.6			2				
1.7			2				
1.8			3				
1.9			2				
2.0		2					
2.1		3					
2.2		3					
2.3		4					
2.4		3					
2.5		4					
2.6		4					
2.7		6					
3.0							
3.5							
4.0							
4.5							

REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928607.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607694.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
		Groundwater Not Encountered		1						
			7							
			7							
			3							
0.5	-0.5		3							
			2							
			2							
			2							
1.0	-1.0		2							
			3							
			3							
			3							
1.5	-1.5		4							
			4							
			3							
			3							
2.0	-2.0		4							
			3							
			3							
2.5	-2.5		4							
		5								
		5								
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow





# DCP LOG

Lot 15 DCP04

SHEET 60 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928616.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607704.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
					5 10 15 20		
0.0	-0.5	Groundwater Not Encountered		4			
0.1			5				
0.2			4				
0.3			2				
0.4			3				
0.5			3				
0.6			1				
0.7			2				
0.8			2				
0.9			3				
1.0			3				
1.1			3				
1.2			3				
1.3			5				
1.4			4				
1.5			2				
1.6			2				
1.7			3				
1.8			3				
1.9			2				
2.0		4					
2.1		4					
2.2		5					
2.3		3					
2.4		4					
2.5		4					
2.6		5					
2.7		5					
2.8		6					
2.9							
3.0							
3.5							
4.0							
4.5							

REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

Produced with Core-GS by Geric



# HAND AUGER LOG

Lot 16 HA01

SHEET 15 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928599.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607680.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.0	-0.5			TOPSOIL; dark brown. Firm to soft; trace rootlets.		FM - s				
0.5	-0.5			SILT; medium brown. Soft; non-plastic.						
1.0	-1.0			Sandy SILT, with trace clay; medium yellow brown with trace of grey & mottled orange. Soft; low plasticity; moist.		s				
1.0	-1.0			SILT, with some clay; medium yellow brown with trace grey and mottled orange. Soft; low plasticity; moist.	M					
1.5	-1.5			EOH: 1.40m						
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS

SYMBOLS

- ▼ Standing Water Level
- ◁ Out flow
- ▷ In flow

CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stage 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928619.00 NORTHING: 5607677.00 DATUM: ELEVATION: AZUMITH: 0° PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 23/11/2017 FINISHED: 23/11/2017 LOGGED BY: JB DATE: 23/11/2017 CHECKED BY: JM DATE: 24/11/2017 STATUS: Final data
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CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.5	Groundwater Not Encountered		5						
0.1	-0.5		6							
0.2	-0.5		3							
0.3	-0.5		3							
0.4	-0.5		4							
0.5	-0.5		4							
0.6	-0.5		1							
0.7	-0.5		2							
0.8	-0.5		3							
0.9	-0.5		3							
1.0	-1.0		3							
1.1	-1.0		3							
1.2	-1.0		5							
1.3	-1.0		2							
1.4	-1.0		2							
1.5	-1.5		2							
1.6	-1.5		3							
1.7	-1.5		2							
1.8	-1.5		2							
1.9	-2.0		3							
2.0	-2.0	4								
2.1	-2.0	2								
2.2	-2.0	3								
2.3	-2.5	4								
2.4	-2.5	5								
2.5	-2.5	8								
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS	SYMBOLS ▼ Standing Water Level ◁ Out flow ▷ In flow
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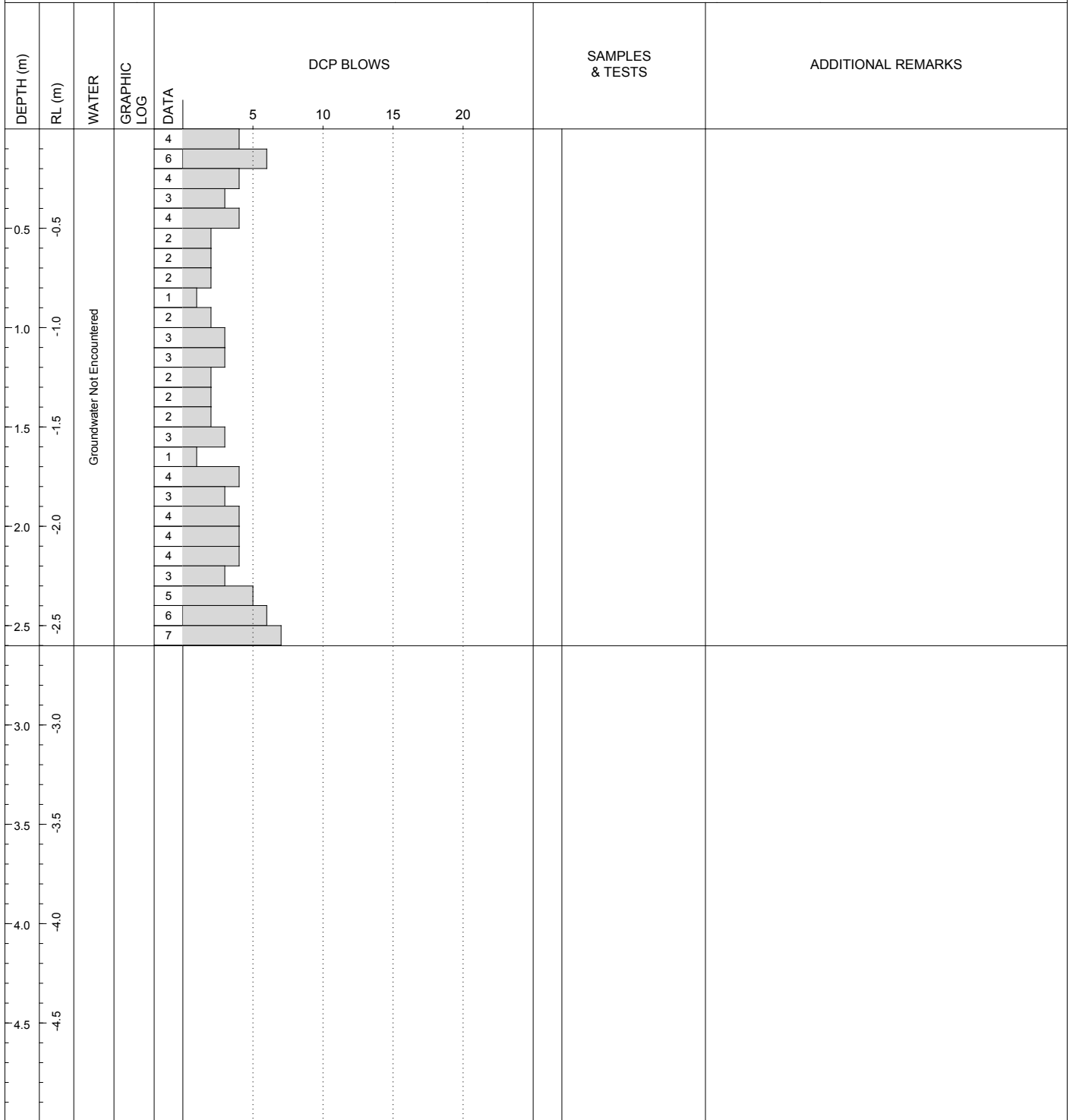
# DCP LOG

Lot 16 DCP02

SHEET 62 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stage 3-5	EASTING: 1928596.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607670.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS ▼ Standing Water Level ◁ Out flow ▷ In flow
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Produced with Core-GS by Geoc



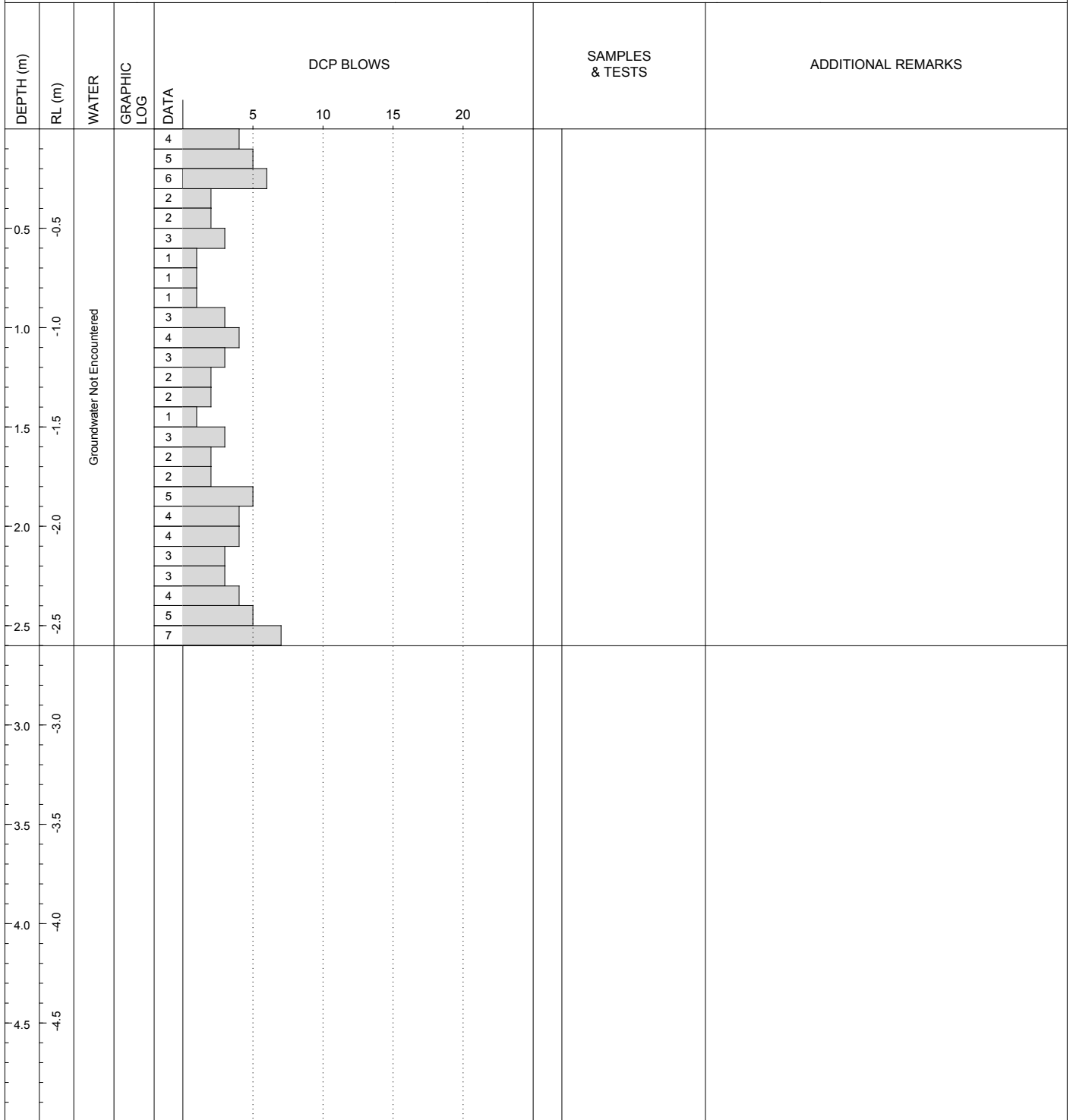
# DCP LOG

Lot 16 DCP03

SHEET 63 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928589.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607681.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

Produced with Core-GS by Geoc



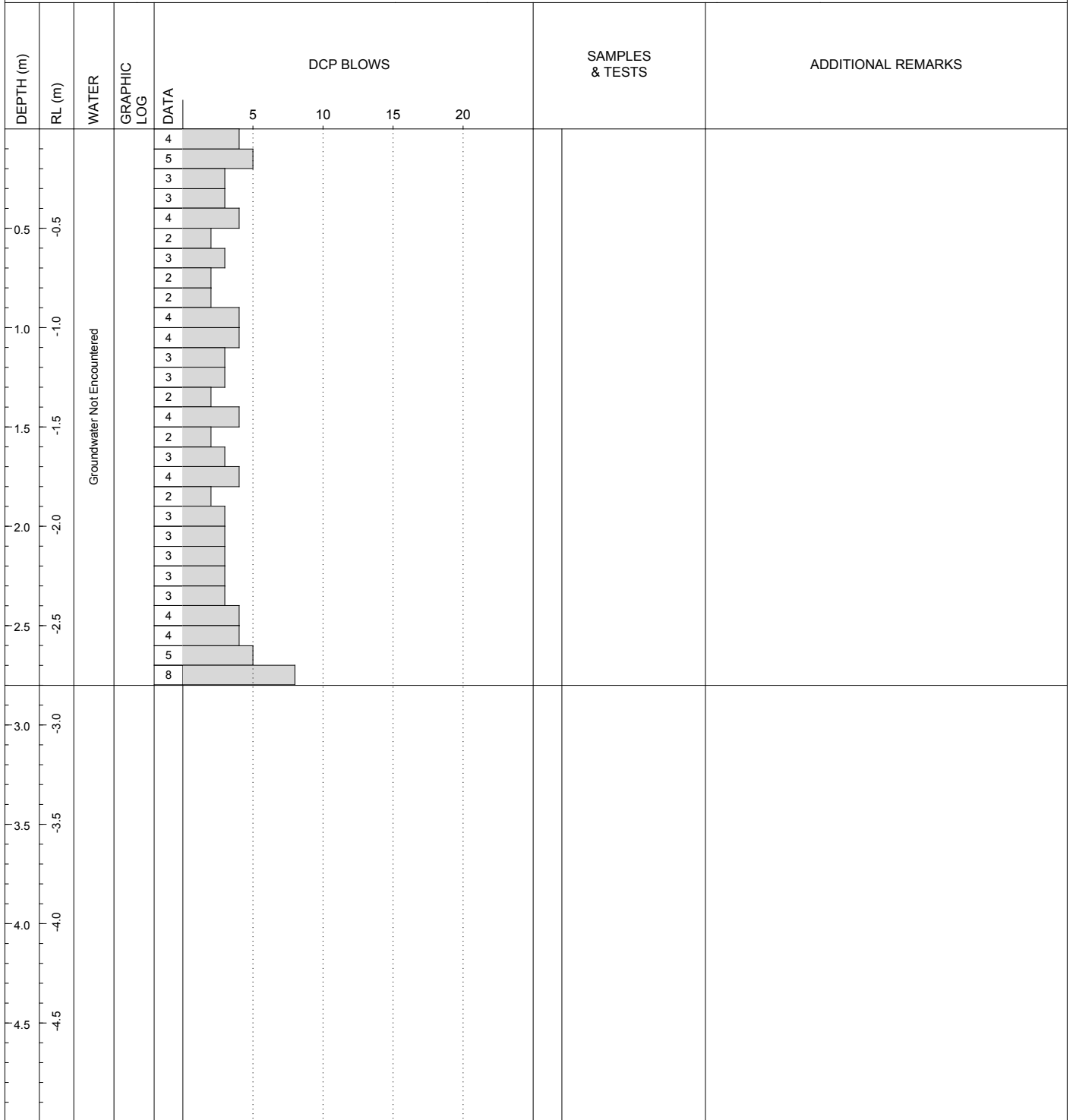
# DCP LOG

Lot 16 DCP04

SHEET 64 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1828600.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607691.00	FINISHED: 29/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

Produced with Core-GS by Geoc



# HAND AUGER LOG

Lot 17 HA01

SHEET 16 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928580.00	STARTED: 13/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607668.00	FINISHED: 13/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 13/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.0	-0.5			TOPSOIL; dark brown. Firm; moist; trace rootlets.	M	FM				
0.5	-0.5			SAND, with trace silt; medium yellowish brown. Loose; non-plastic; dry.	D	L				
1.0	-1.0			SILT, with trace clay and sand; medium yellow brown with orange mottle and grey. Soft; non-plastic; moist.	M	S				
				EOH: 1.20m						
1.5	-1.5									
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS

- SYMBOLS
- ▼ Standing Water Level
  - ◁ Out flow
  - ▷ In flow



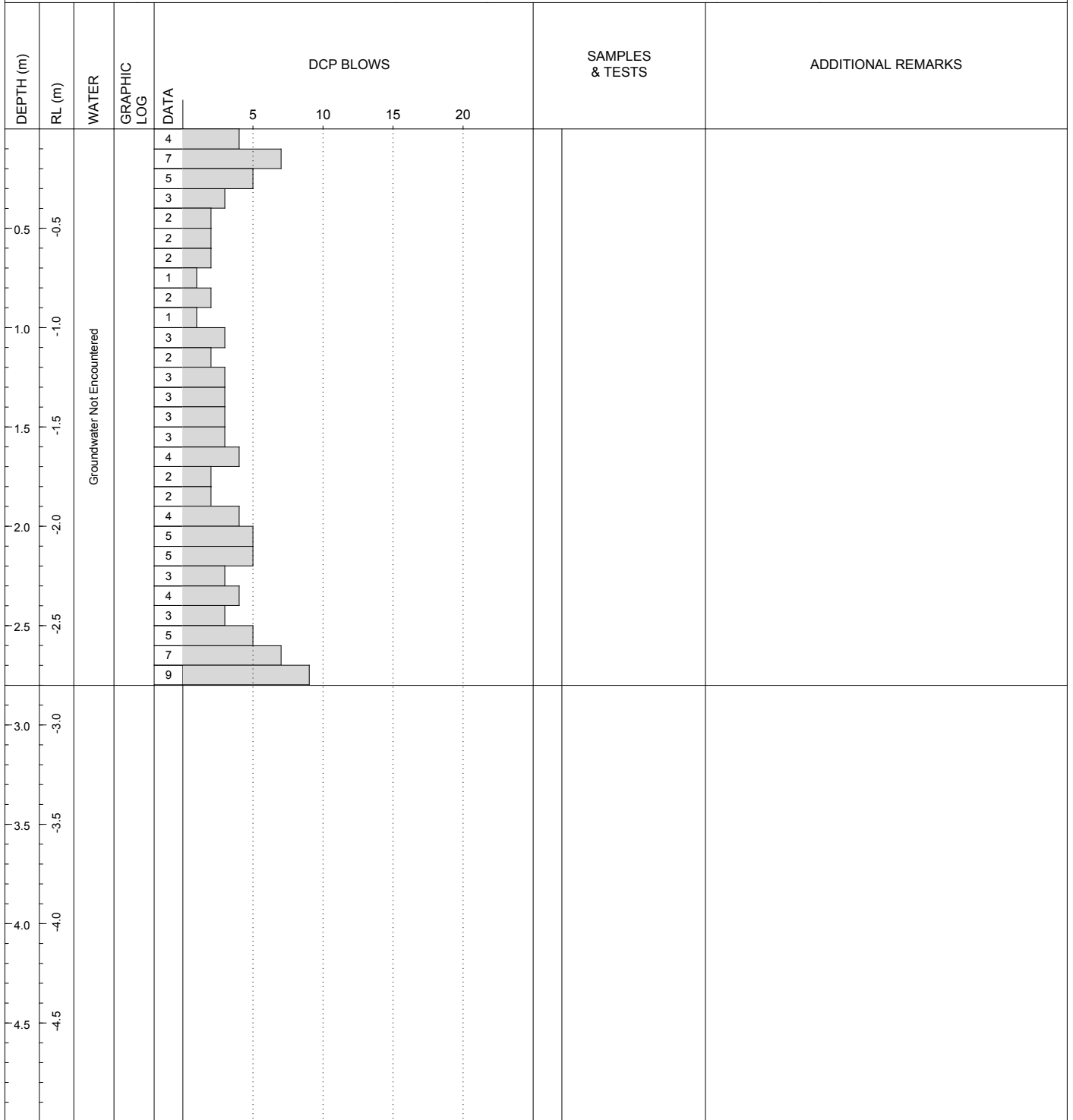
# DCP LOG

Lot 17 DCP01

SHEET 65 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928593.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607668.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>



CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928577.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607658.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.5	Groundwater Not Encountered		5						
0.1	-0.5		5							
0.2	-0.5		3							
0.3	-0.5		2							
0.4	-0.5		1							
0.5	-0.5		2							
0.6	-0.5		2							
0.7	-0.5		2							
0.8	-0.5		2							
0.9	-0.5		2							
1.0	-1.0		3							
1.1	-1.0		4							
1.2	-1.0		3							
1.3	-1.0		2							
1.4	-1.5		4							
1.5	-1.5		4							
1.6	-1.5		4							
1.7	-1.5		3							
1.8	-2.0		3							
1.9	-2.0		4							
2.0	-2.0	3								
2.1	-2.0	4								
2.2	-2.5	5								
2.3	-2.5	4								
2.4	-2.5	5								
2.5	-2.5	5								
2.6	-2.5									
2.7	-2.5									
2.8	-2.5									
2.9	-2.5									
3.0	-3.0									
3.1	-3.0									
3.2	-3.0									
3.3	-3.0									
3.4	-3.5									
3.5	-3.5									
3.6	-3.5									
3.7	-3.5									
3.8	-4.0									
3.9	-4.0									
4.0	-4.0									
4.1	-4.5									
4.2	-4.5									
4.3	-4.5									
4.4	-4.5									
4.5	-4.5									

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

Produced with Core-GS by Geotec



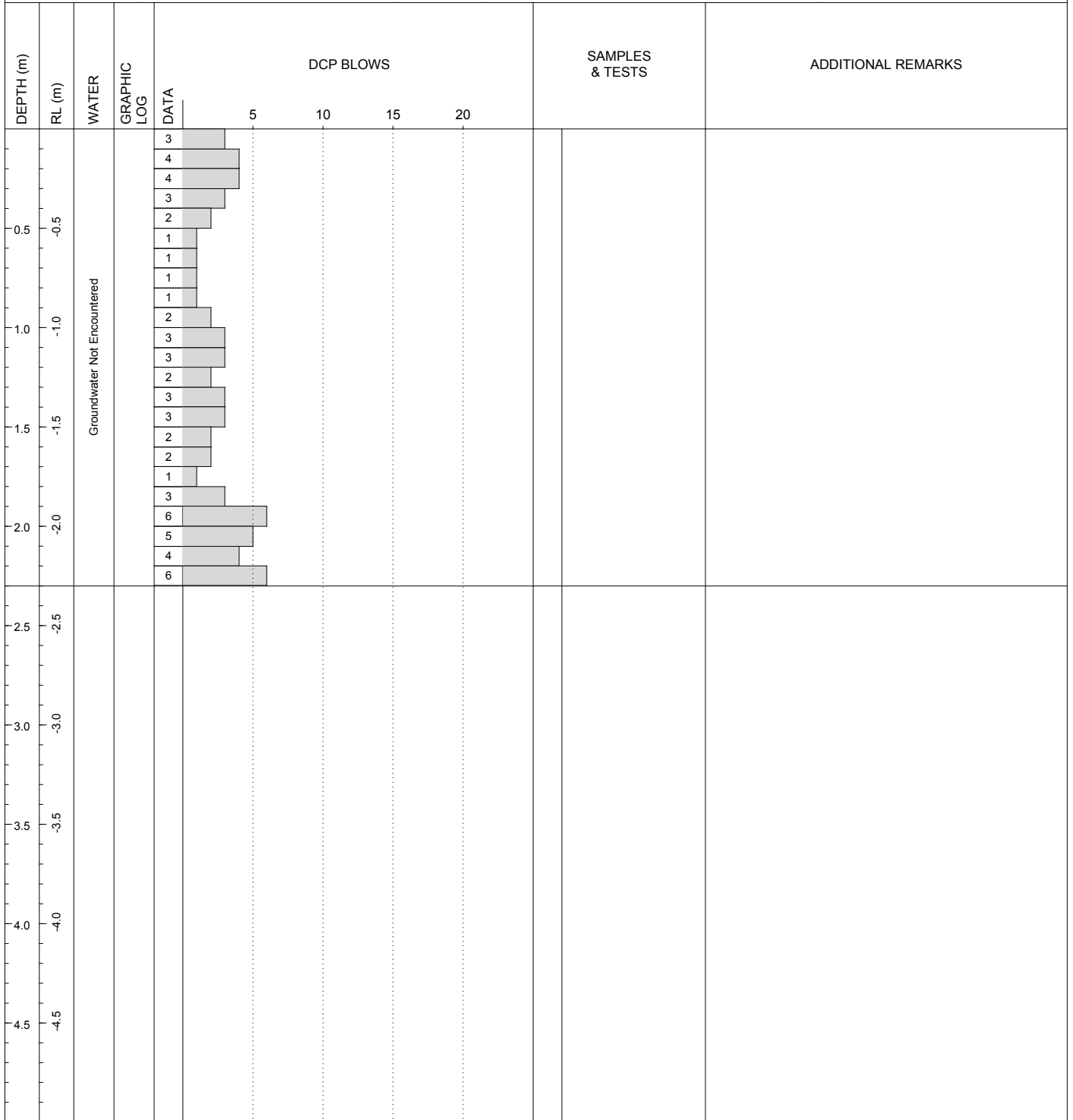
# DCP LOG

Lot 17 DCP03

SHEET 67 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928569.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607669.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

Produced with Core-GS by Geric

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928579.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607678.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
					5      10      15      20		
0.5	-0.5	Groundwater Not Encountered		5			
			4				
			3				
			2				
			1				
1.0	-1.0		2				
			1				
			2				
			1				
			2				
1.5	-1.5		4				
			3				
			2				
			2				
			2				
			2				
2.0	-2.0		1				
			3				
			2				
			3				
			3				
			4				
2.5	-2.5		5				
			5				
		6					
3.0	-3.0						
3.5	-3.5						
4.0	-4.0						
4.5	-4.5						

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



# HAND AUGER LOG

Lot 18 HA01

SHEET 17 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928538.00	STARTED: 14/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607649.00	FINISHED: 14/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 14/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.0	-0.5			TOPSOIL; dark brown. Firm; dry.	D	FM				
0.5	-0.5			SILT; medium yellowish brown, orange mottle. Soft; non-plastic; moist.	M					
1.0	-1.0			SILT, with trace clay and sand; medium yellowish brown with trace grey and orange mottle. Soft; low plasticity; dry; sand, fine; lenses of fine sand at 1.6m.	D	S				
1.5	-1.5			EOH: 1.80m						
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS  
too hard to pull auger

SYMBOLS  
 Standing Water Level  
 Out flow  
 In flow



# DCP LOG

Lot 18 DCP01

SHEET 69 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928553.00	STARTED: 17/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607648.00	FINISHED: 17/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI      DATE: 17/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.5	-0.5	Groundwater Not Encountered		5						
			5							
			3							
			1							
			4							
			1							
			1							
			2							
1.0	-1.0				2					
					2					
					2					
					2					
					3					
					2					
					2					
					3					
1.5	-1.5				2					
					3					
					4					
					2					
				3						
				2						
				2						
				2						
				4						
				3						
2.0	-2.0			4						
				3						
				4						
				3						
2.5	-2.5			4						
				3						
				7						
				5						
				7						
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

Produced with Core-GS by Geric



# DCP LOG

Lot 18 DCP02

SHEET 70 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928538.00	STARTED: 17/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607637.00	FINISHED: 17/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI DATE: 17/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
					5 10 15 20		
0.0	-0.5	Groundwater Not Encountered		6	5		
0.1			6	5			
0.2			4	5			
0.3			2	5			
0.4			2	5			
0.5			2	5			
0.6			2	5			
0.7			1	5			
0.8			1	5			
0.9			3	5			
1.0			2	5			
1.1			2	5			
1.2			3	5			
1.3			3	5			
1.4			3	5			
1.5			4	5			
1.6			2	5			
1.7			2	5			
1.8			2	5			
1.9			3	5			
2.0		2	5				
2.1		3	5				
2.2		3	5				
2.3		2	5				
2.4		4	5				
2.5		4	5				
2.6		5	5				
2.7		6	5				
2.8							
2.9							
3.0							
3.1							
3.2							
3.3							
3.4							
3.5							
3.6							
3.7							
3.8							
3.9							
4.0							
4.1							
4.2							
4.3							
4.4							
4.5							

REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

Produced with Core-GS by Geoc



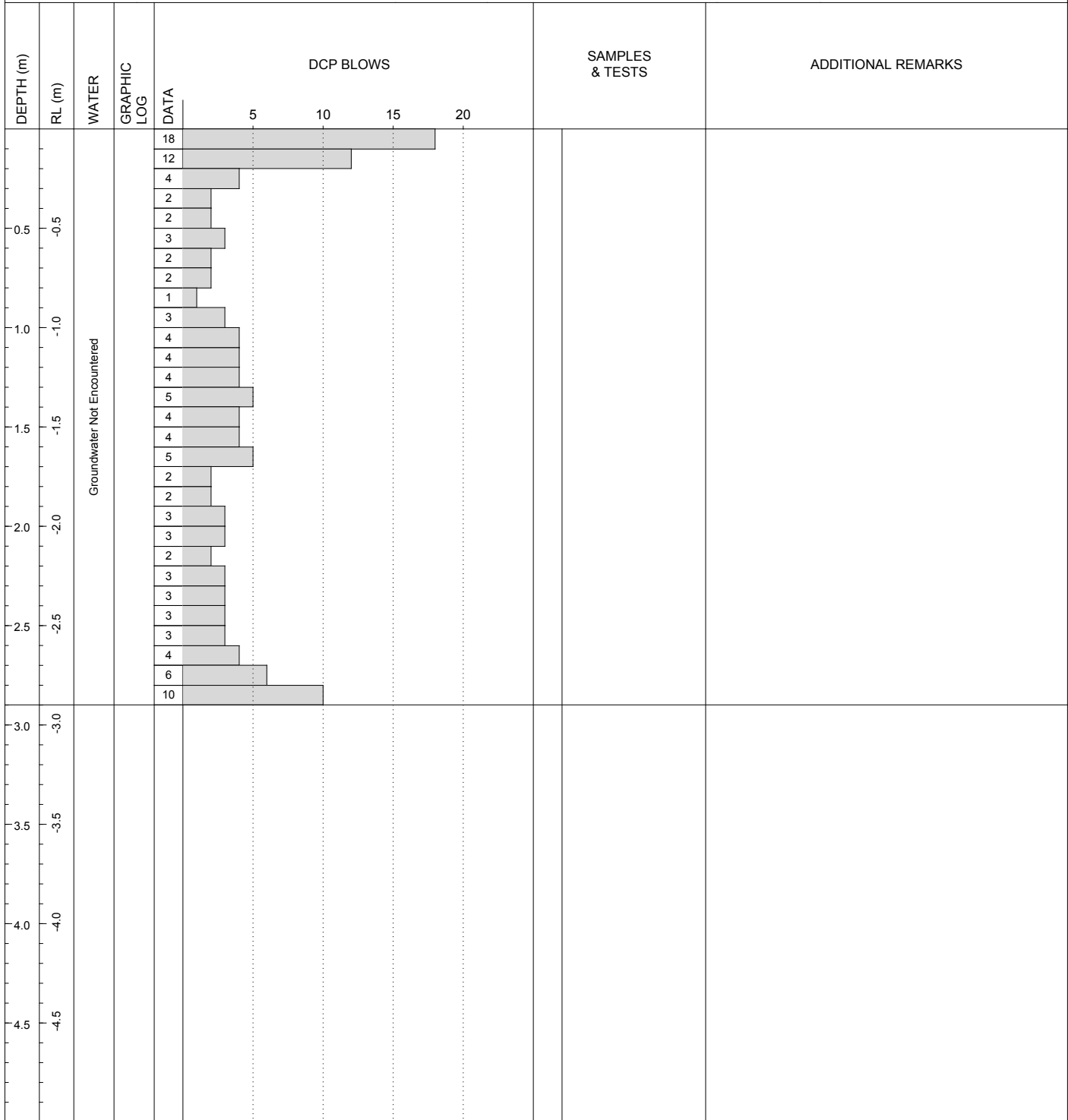
# DCP LOG

Lot 18 DCP03

SHEET 71 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928532.00	STARTED: 17/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607648.00	FINISHED: 17/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI DATE: 17/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR: MACHINE: OPERATOR:



REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>



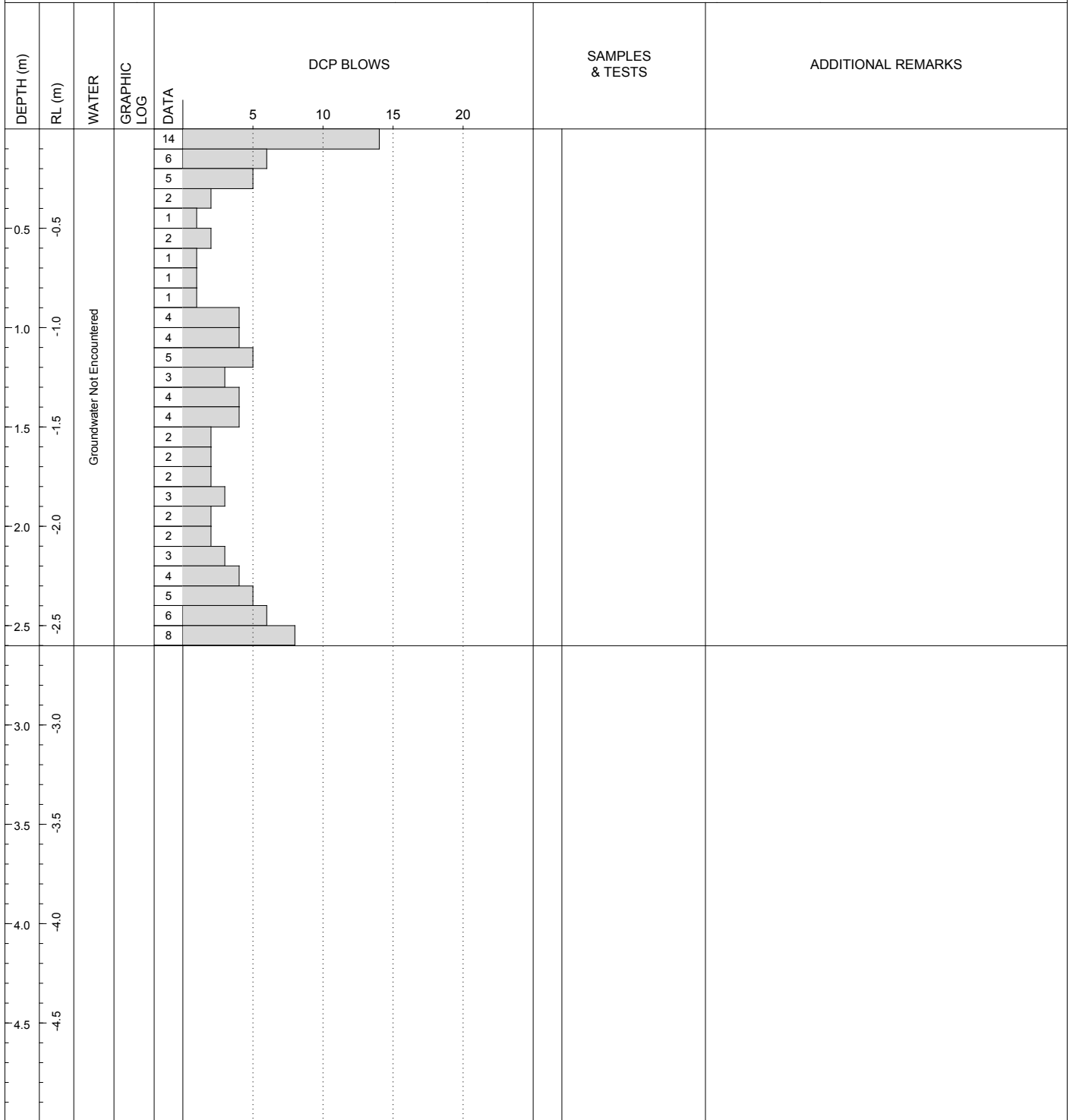
# DCP LOG

Lot 18 DCP04

SHEET 72 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928545.00	STARTED: 17/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607663.00	FINISHED: 17/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI      DATE: 17/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

Produced with Core-GS by Geric





# HAND AUGER LOG

Lot 19 HA01

SHEET 18 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928549.00	STARTED: 14/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607635.00	FINISHED: 14/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 14/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.0				TOPSOIL; dark brown. Firm; dry.	D	FM				
0.5	-0.5			SILT, with trace clay and sand; medium orangish brown with grey and orange mottle. Soft; moist; sand, fine.						
1.0	-1.0				M	S				
1.5	-1.5			EOH: 1.40m						
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS

- SYMBOLS
- ▼ Standing Water Level
  - ◁ Out flow
  - ▷ In flow



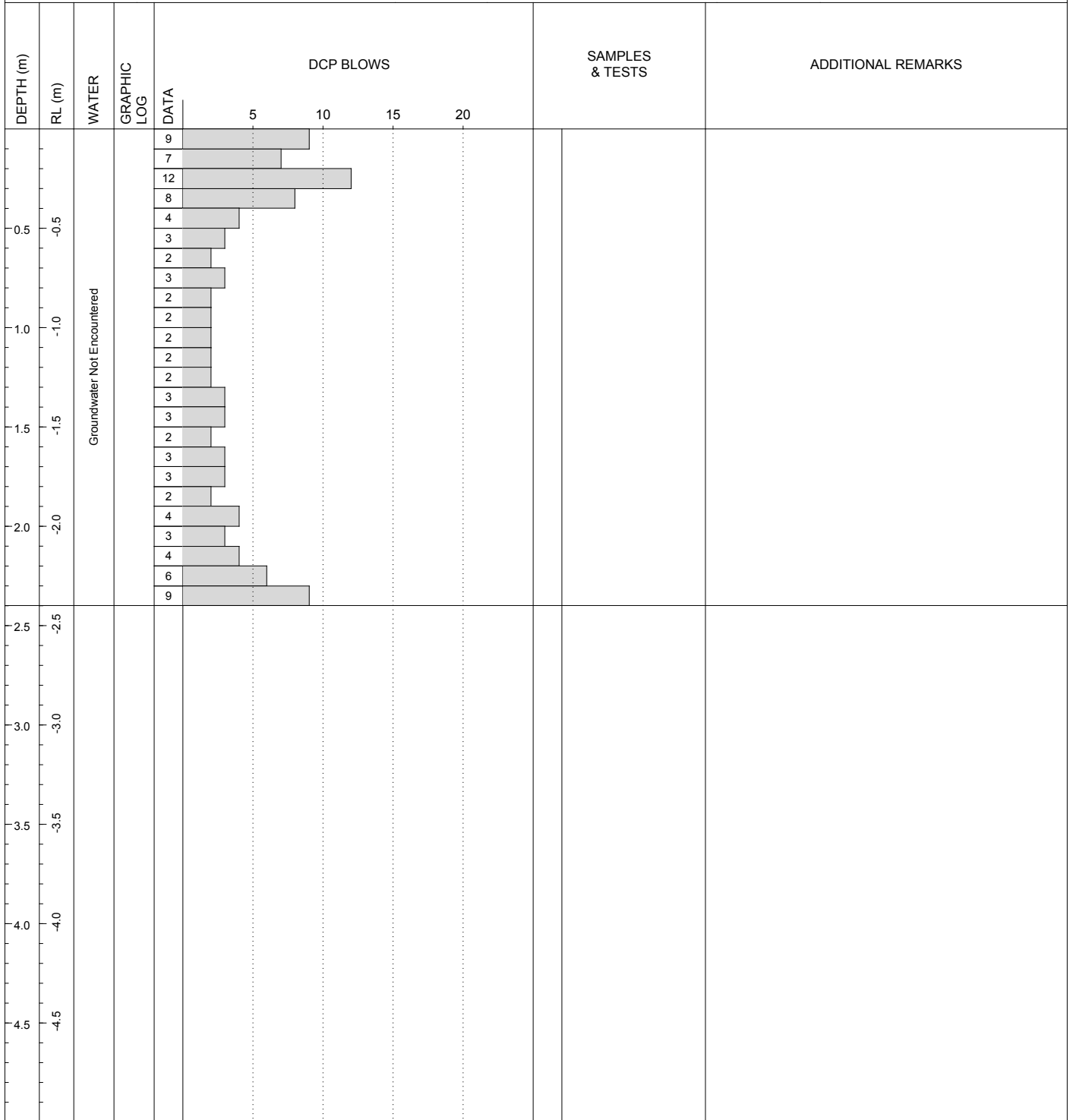
# DCP LOG

Lot 19 DCP01

SHEET 73 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928565.00	STARTED: 17/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607633.00	FINISHED: 17/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 17/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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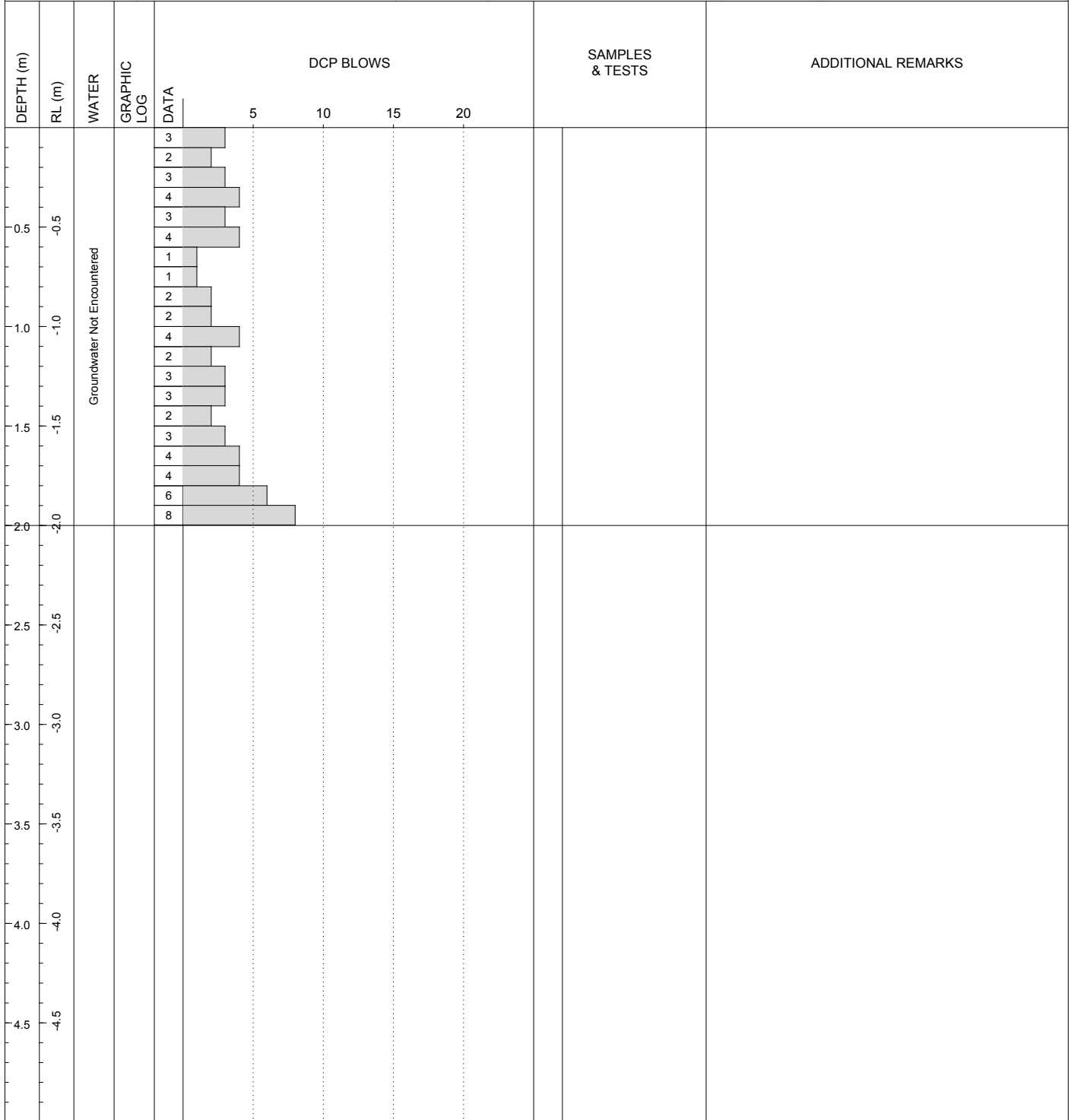


REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

Produced with Core-GS by Geric

CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stages 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928552.00 NORTHING: 3607623.00 DATUM: ELEVATION: AZUMITH: 0° PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 17/11/2017 FINISHED: 17/11/2017 LOGGED BY: JB DATE: 17/11/2017 CHECKED BY: JM DATE: 24/11/2017 STATUS: Final data
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CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	<b>SYMBOLS</b> ▼ Standing Water Level ◁ Out flow ▷ In flow
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CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928544.00	STARTED: 17/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607634.00	FINISHED: 17/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 17/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

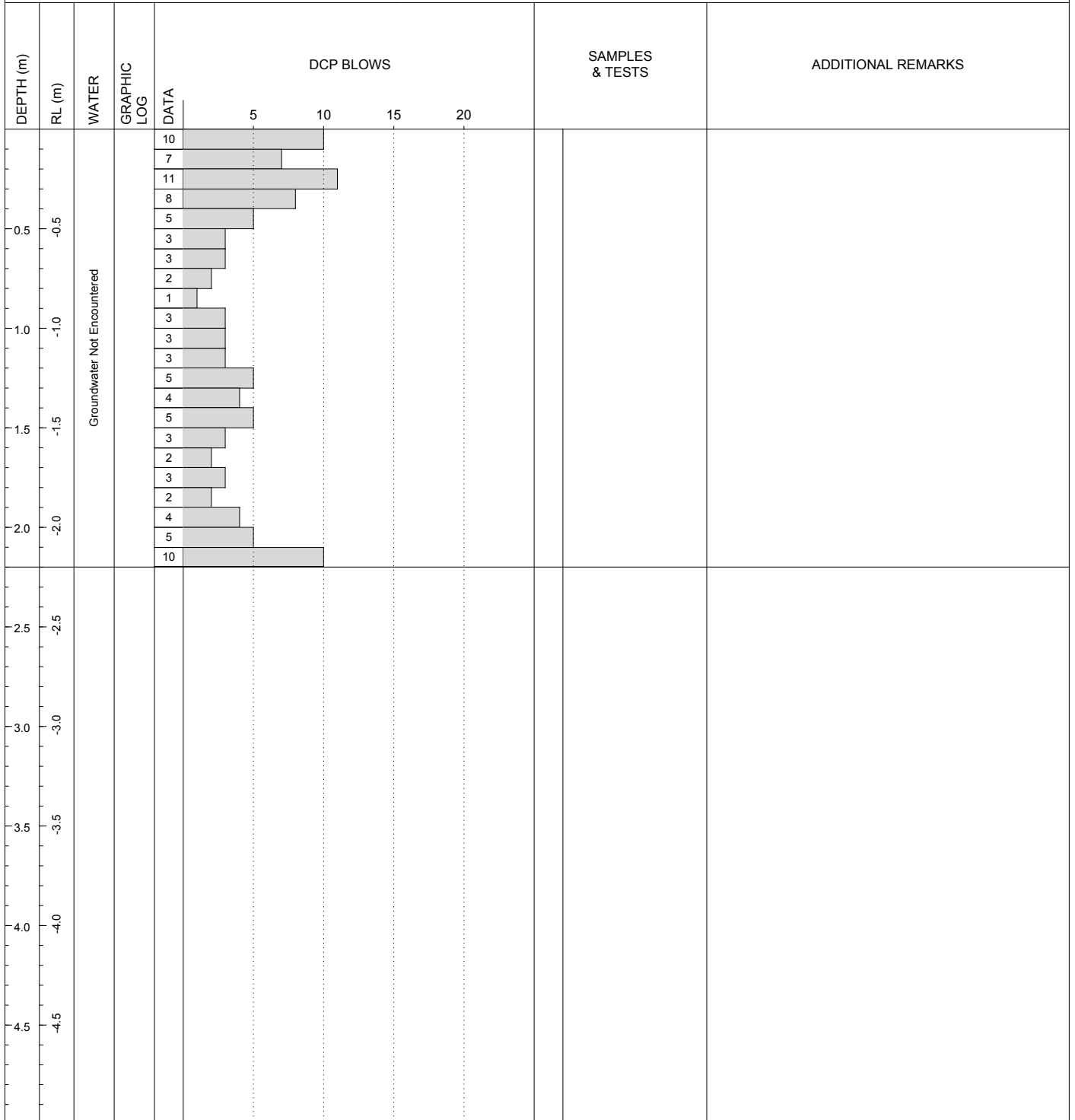
CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.1	Groundwater Not Encountered		2						
0.1	-0.2		4							
0.2	-0.3		2							
0.3	-0.4		2							
0.4	-0.5		2							
0.5	-0.6		3							
0.6	-0.7		3							
0.7	-0.8		5							
0.8	-0.9		2							
0.9	-1.0		1							
1.0	-1.1		3							
1.1	-1.2		2							
1.2	-1.3		3							
1.3	-1.4		3							
1.4	-1.5		2							
1.5	-1.6		2							
1.6	-1.7		3							
1.7	-1.8		5							
1.8	-1.9		7							
1.9	-2.0		9							
2.0	-2.1									
2.5	-2.6									
3.0	-3.1									
3.5	-3.6									
4.0	-4.1									
4.5	-4.6									

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928552.00	STARTED: 17/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607643.00	FINISHED: 17/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 17/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



# HAND AUGER LOG

Lot 20 HA01

SHEET 19 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928615.00	STARTED: 14/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607636.00	FINISHED: 14/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 14/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY		CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
				TOPSOIL; dark brown. Firm; moist.			FM				
				Silty SAND; medium yellowish brown, trace orange mottle. Loose; moist.			L				
0.5	-0.5			SILT, with trace clay and sand; medium orangish brown with grey and orange mottle. Soft; non-plastic; moist.	M		S				
1.0	-1.0			EOH: 1.30m							
1.5	-1.5										
2.0	-2.0										
2.5	-2.5										
3.0	-3.0										
3.5	-3.5										
4.0	-4.0										
4.5	-4.5										

REMARKS

- SYMBOLS
- ▼ Standing Water Level
  - ◁ Out flow
  - ▷ In flow

CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stages 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928567.00 NORTHING: 5607617.00 DATUM: ELEVATION: AZUMITH: 0°    PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 23/11/2017 FINISHED: 23/11/2017 LOGGED BY: SD      DATE: 23/11/2017 CHECKED BY: JM      DATE: 24/11/2017 STATUS: Final data
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CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
					5    10    15    20		
0.5	-0.5	Groundwater Not Encountered		4			
				8			
				9			
				4			
				2			
				3			
				2			
				3			
				4			
				2			
				3			
				6			
				6			
				5			
				4			
				4			
				5			
				6			
			5				
2.0	-2.0						
2.5	-2.5						
3.0	-3.0						
3.5	-3.5						
4.0	-4.0						
4.5	-4.5						

REMARKS	<b>SYMBOLS</b> ▼ Standing Water Level ◁ Out flow ▷ In flow
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# DCP LOG

Lot 20 DCP02

SHEET 78 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928583.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607600.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: SD      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.5	Groundwater Not Encountered		4						
0.1	-0.5		3							
0.2	-0.5		3							
0.3	-0.5		2							
0.4	-0.5		2							
0.5	-0.5		1							
0.6	-0.5		3							
0.7	-0.5		3							
0.8	-0.5		3							
0.9	-0.5		2							
1.0	-1.0		4							
1.1	-1.0		4							
1.2	-1.0		4							
1.3	-1.0		5							
1.4	-1.0		5							
1.5	-1.0	5								
1.6	-1.5	3								
1.7	-1.5	4								
1.8	-1.5	5								
1.9	-2.0									
2.0	-2.0									
2.1	-2.0									
2.2	-2.5									
2.3	-2.5									
2.4	-2.5									
2.5	-2.5									
2.6	-3.0									
2.7	-3.0									
2.8	-3.0									
2.9	-3.0									
3.0	-3.5									
3.1	-3.5									
3.2	-3.5									
3.3	-3.5									
3.4	-4.0									
3.5	-4.0									
3.6	-4.0									
3.7	-4.5									
3.8	-4.5									
3.9	-4.5									
4.0	-4.5									
4.1	-4.5									
4.2	-4.5									
4.3	-4.5									
4.4	-4.5									
4.5	-4.5									

REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

Produced with Core-GS by Geotec



CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928601.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607641.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: SD      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS	
					5	10	15	20			
0.0	-0.5	Groundwater Not Encountered		5							
0.1					3						
0.2					3						
0.3					3						
0.4					3						
0.5					2						
0.6					3						
0.7					2						
0.8					2						
0.9					2						
1.0					4						
1.1					3						
1.2					4						
1.3					3						
1.4					4						
1.5					3						
1.6					4						
1.7					3						
1.8				3							
1.9				5							
2.0				4							
2.1				4							
2.2				4							
2.3				4							
2.4											
2.5											
3.0											
3.5											
4.0											
4.5											

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



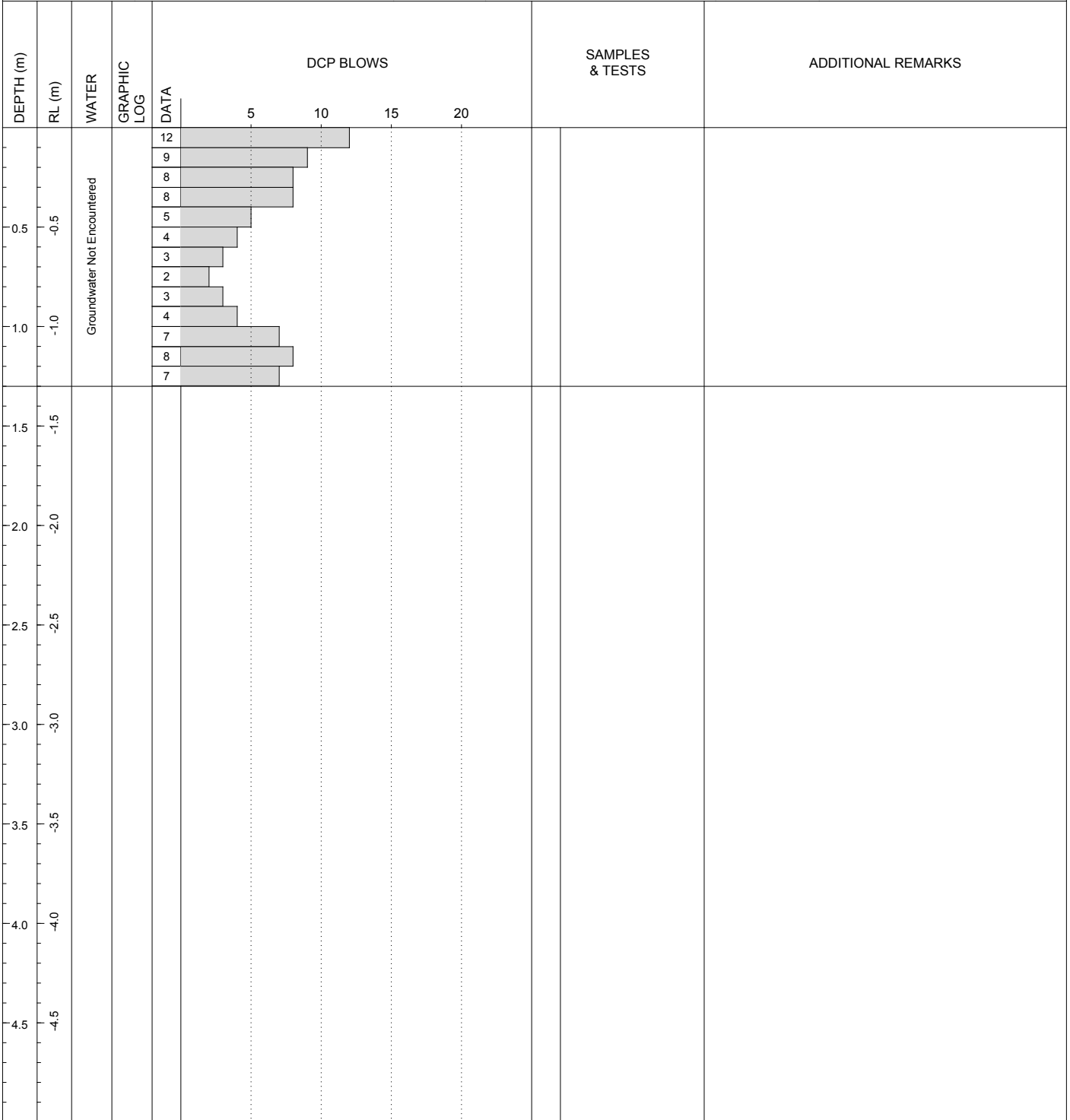
# DCP LOG

Lot 20 DCP04

SHEET 80 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928610.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607650.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: SD      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

Produced with Core-GS by Geric



# HAND AUGER LOG

Lot 21 HA01

SHEET 20 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928583.00	STARTED: 14/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607600.00	FINISHED: 14/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 14/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

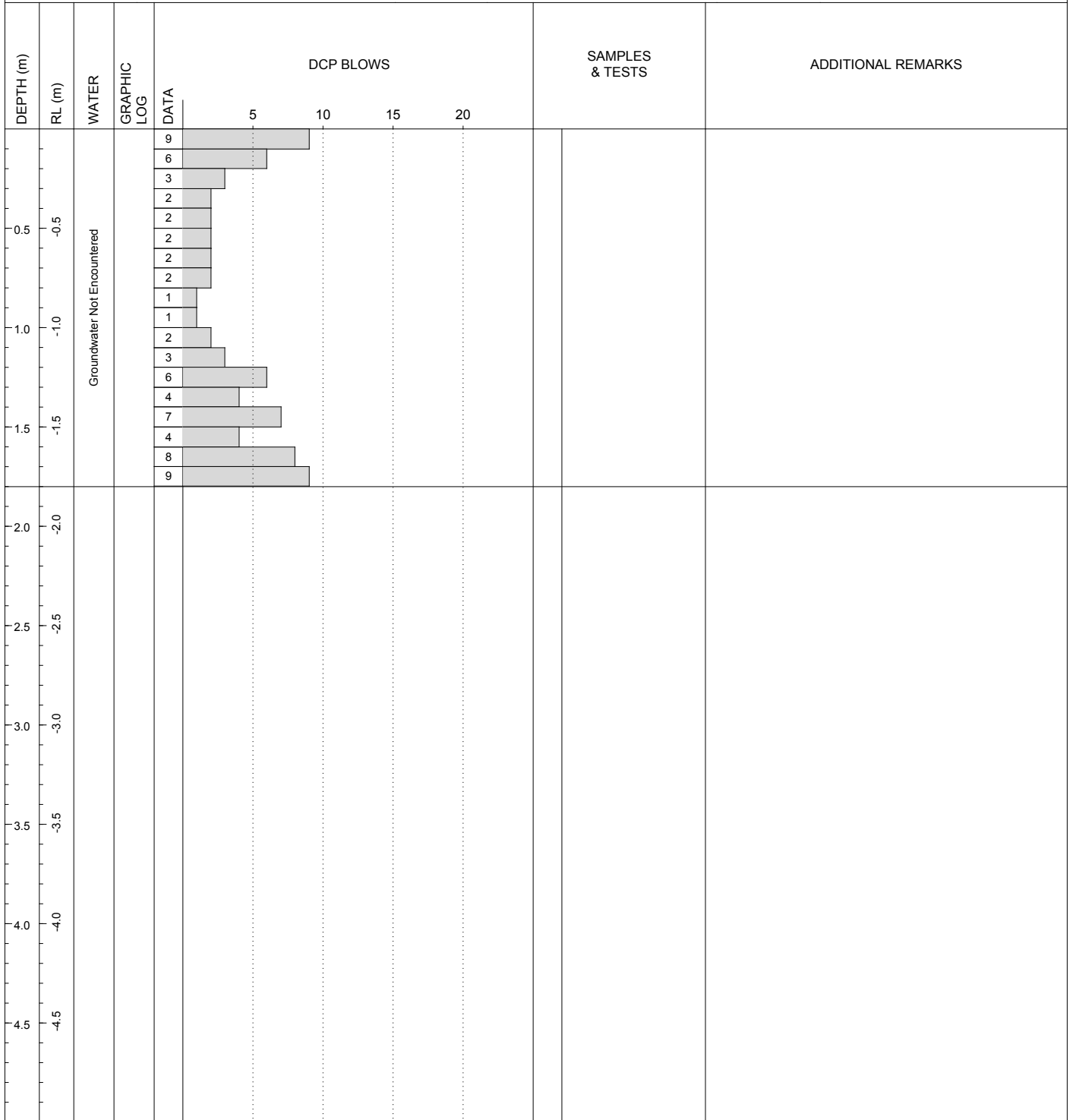
DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.0				TOPSOIL; dark brown. Firm; moist.		FM				
0.5	-0.5			SILT; medium orangish brown, orange mottle. Soft; non-plastic; moist.	M					
1.0	-1.0			SILT, with trace clay and sand; medium orangish brown with orange mottle. Soft; non-plastic; moist.		S				
1.40	-1.40			EOH: 1.40m						
1.5	-1.5									
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS

- SYMBOLS
- ▼ Standing Water Level
  - ⇐ Out flow
  - ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928592.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607604.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: SLK      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

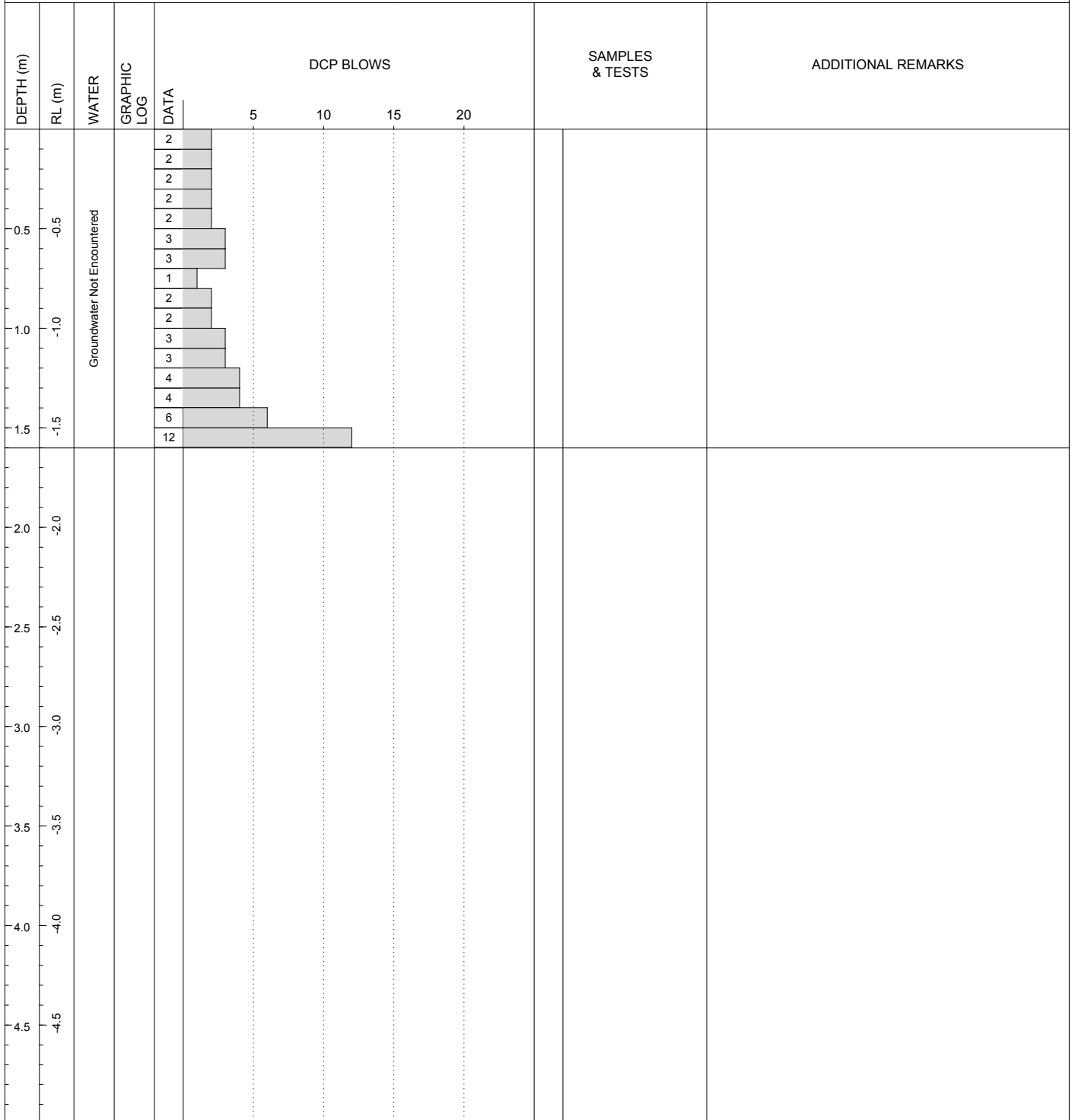
CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928575.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607589.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: SLK      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



# DCP LOG

Lot 21 DCP03

SHEET 83 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928566.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607600.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: SLK      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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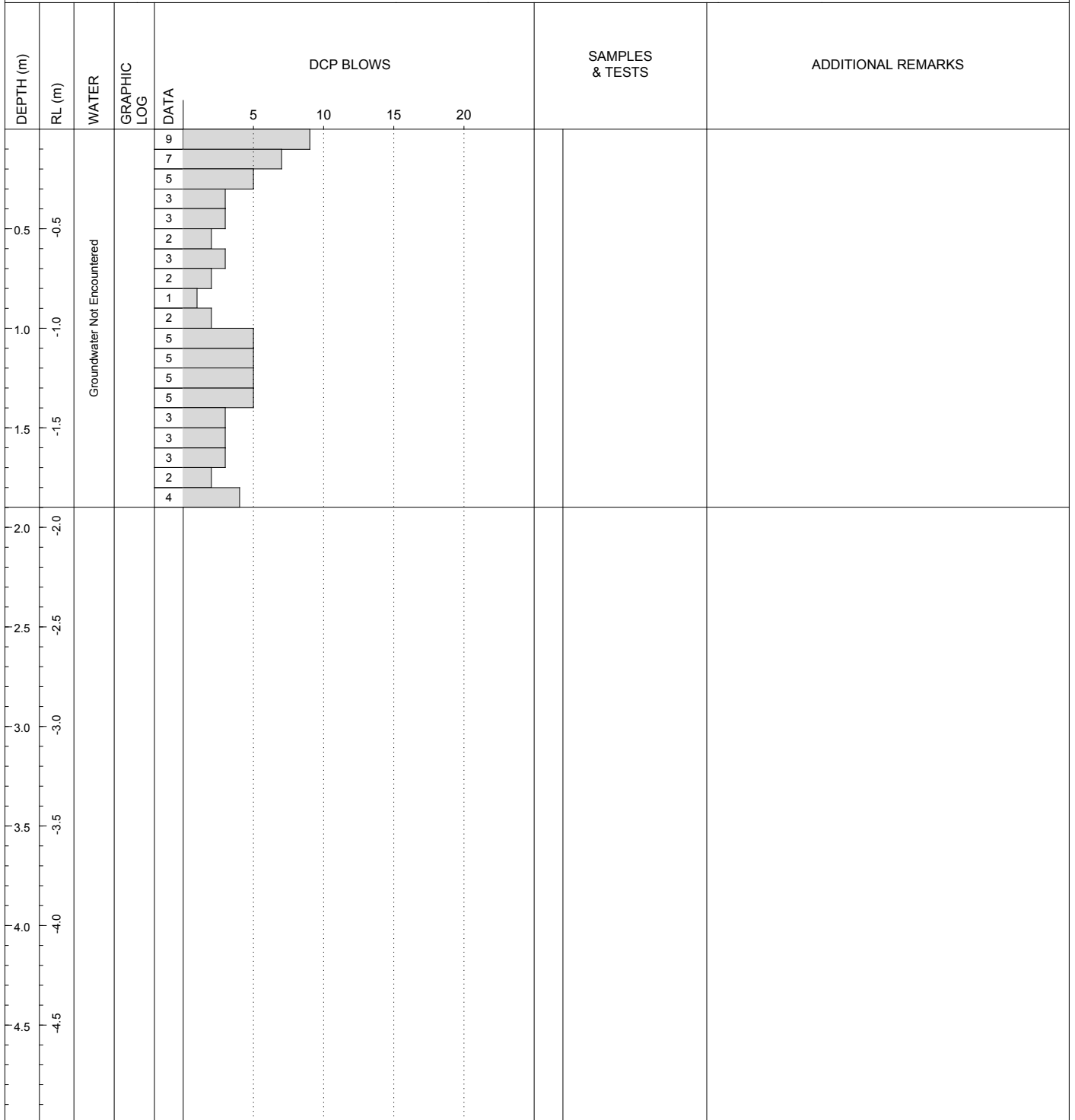
DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
					5      10      15      20		
0.5	-0.5	Groundwater Not Encountered		5			
			5				
			4				
			3				
			4				
			2				
			3				
			3				
			2				
			3				
			4				
			4				
			4				
			4				
			4				
		5					
		7					
		4					
2.0	-2.0						
2.5	-2.5						
3.0	-3.0						
3.5	-3.5						
4.0	-4.0						
4.5	-4.5						

REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

Produced with Core-GS by Geric

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928584.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607614.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: SLK      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



# HAND AUGER LOG

Lot 22 HA01

SHEET 21 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928600.00	STARTED: 14/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607621.00	FINISHED: 14/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 14/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.5	-0.5			TOPSOIL; dark brown. Firm; moist.		FM				
1.0	-1.0			SILT, with trace clay and sand; medium orangish brown with grey and mottled orange. Soft; non-plastic; moist; sand increases with depth and clay increases at 1m.	M	S				
1.30	-1.30			EOH: 1.30m						
1.5	-1.5									
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

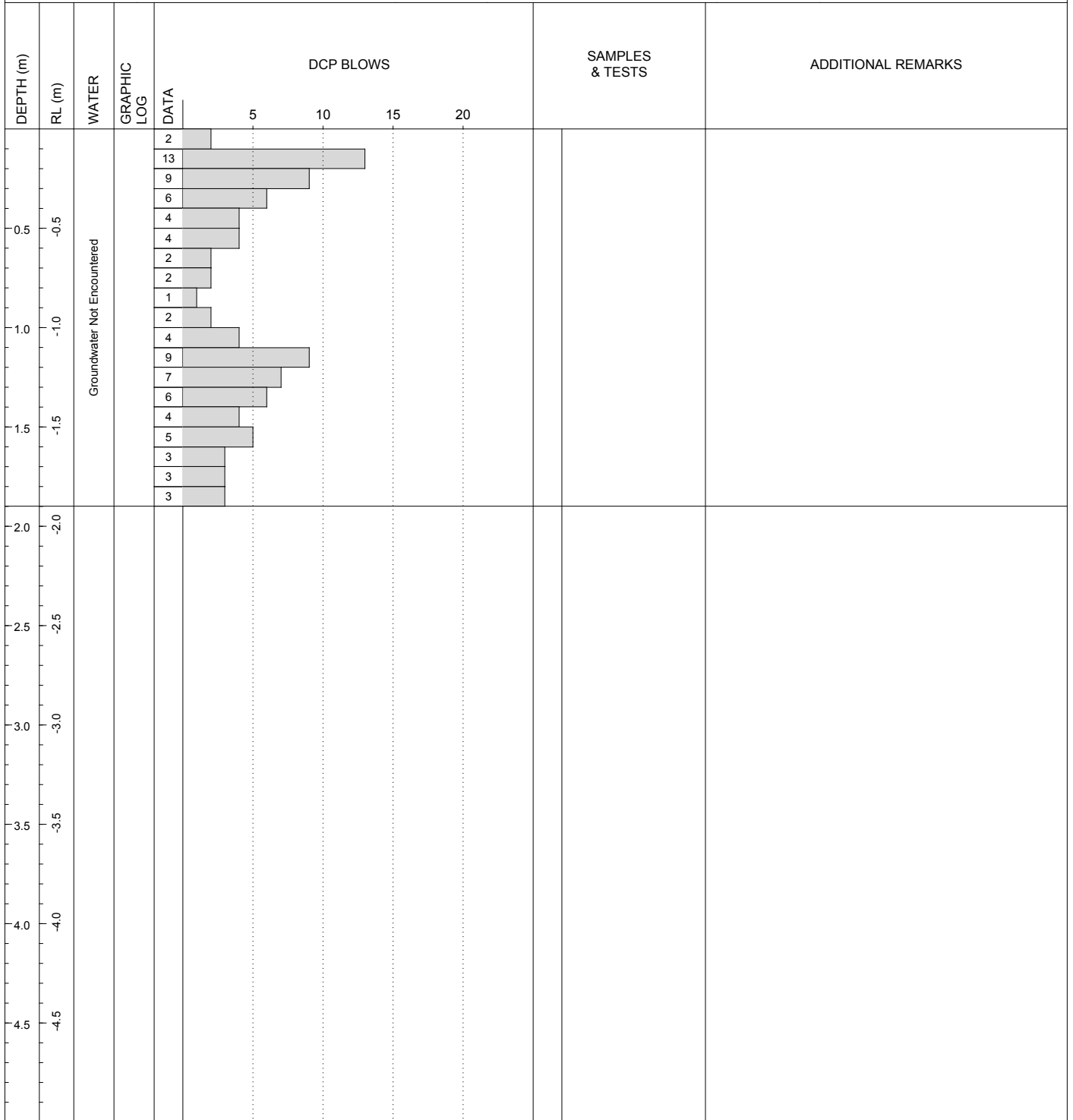
REMARKS

- SYMBOLS
- ▼ Standing Water Level
  - ⇐ Out flow
  - ▷ In flow



CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928611.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607619.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: SD      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928597.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607607.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: SD      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

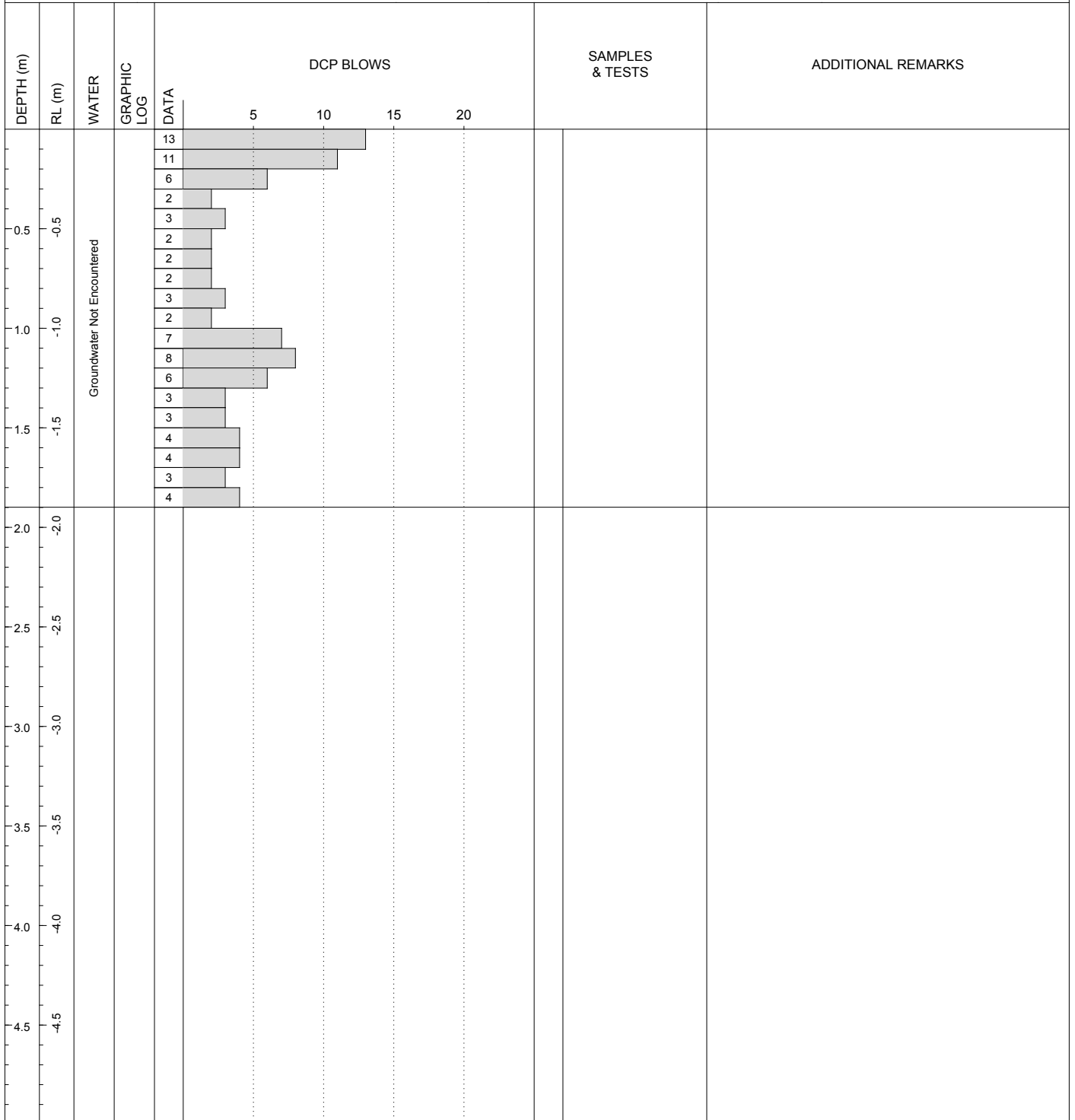
CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
					5      10      15      20		
0.5	-0.5	Groundwater Not Encountered		9			
				6			
				4			
				3			
				4			
				3			
				3			
				4			
				3			
1.0	-1.0			2			
				4			
				7			
				6			
				5			
1.5	-1.5			4			
			5				
			5				
			4				
			4				
2.0	-2.0						
2.5	-2.5						
3.0	-3.0						
3.5	-3.5						
4.0	-4.0						
4.5	-4.5						

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928589.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607626.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: SD      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



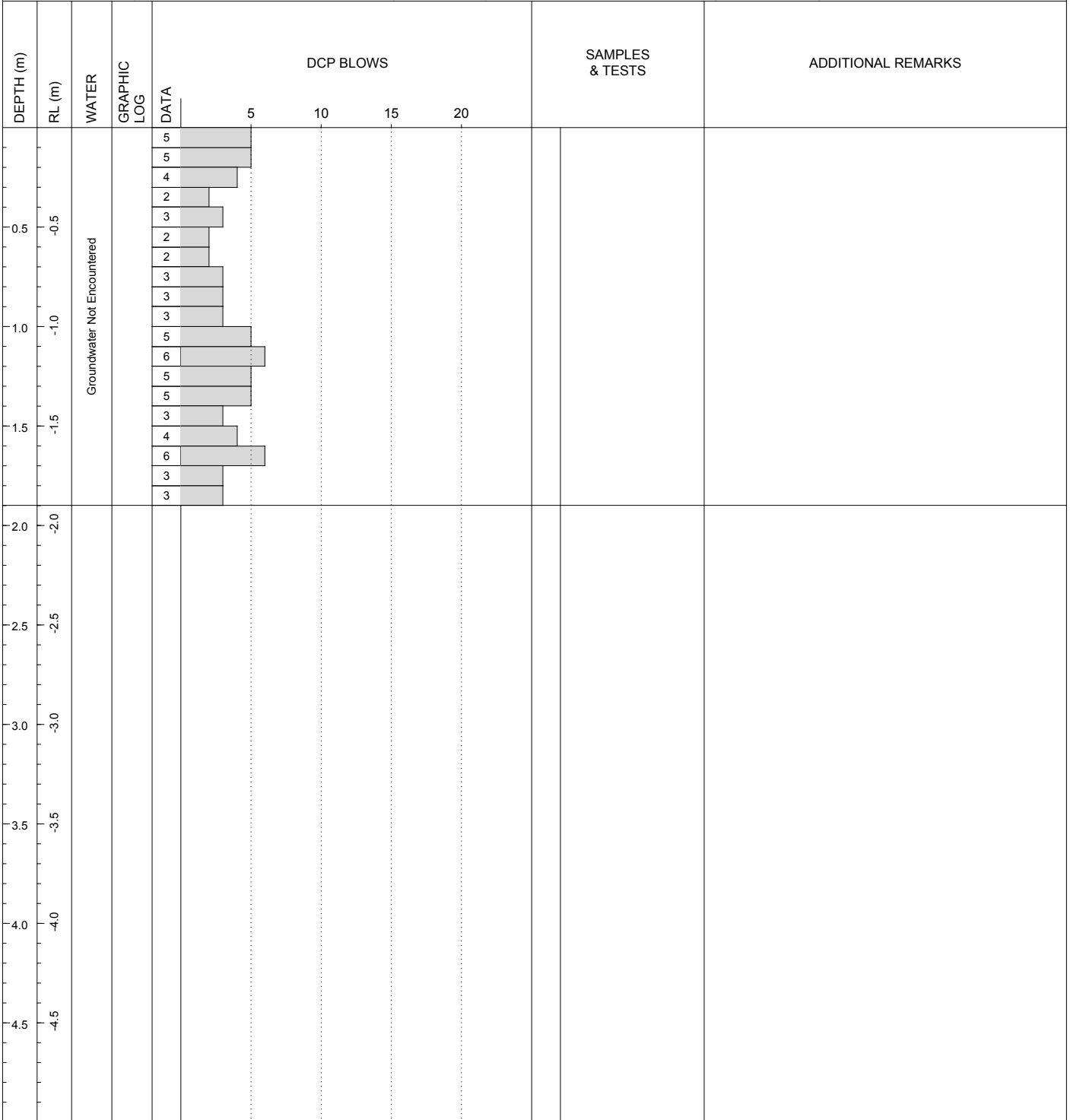
# DCP LOG

Lot 22 DCP04

SHEET 88 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928597.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607636.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: SD      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

Produced with Core-GS by Geric



# HAND AUGER LOG

Lot 23 HA01

SHEET 22 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928615.00	STARTED: 14/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607636.00	FINISHED: 14/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: PGR/SBD DATE: 14/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
				TOPSOIL; dark brown. Firm; dry; non plastic.	D	FM				
0.5	-0.5			SILT; medium orange brown with grey and orange mottle. Soft; low plasticity; moist.						
1.0	-1.0			SILT, with trace sand; medium oranish brown with grey and orange mottle. Soft; low plasticity; moist.	M	S				
				EOH: 1.20m						
1.5	-1.5									
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

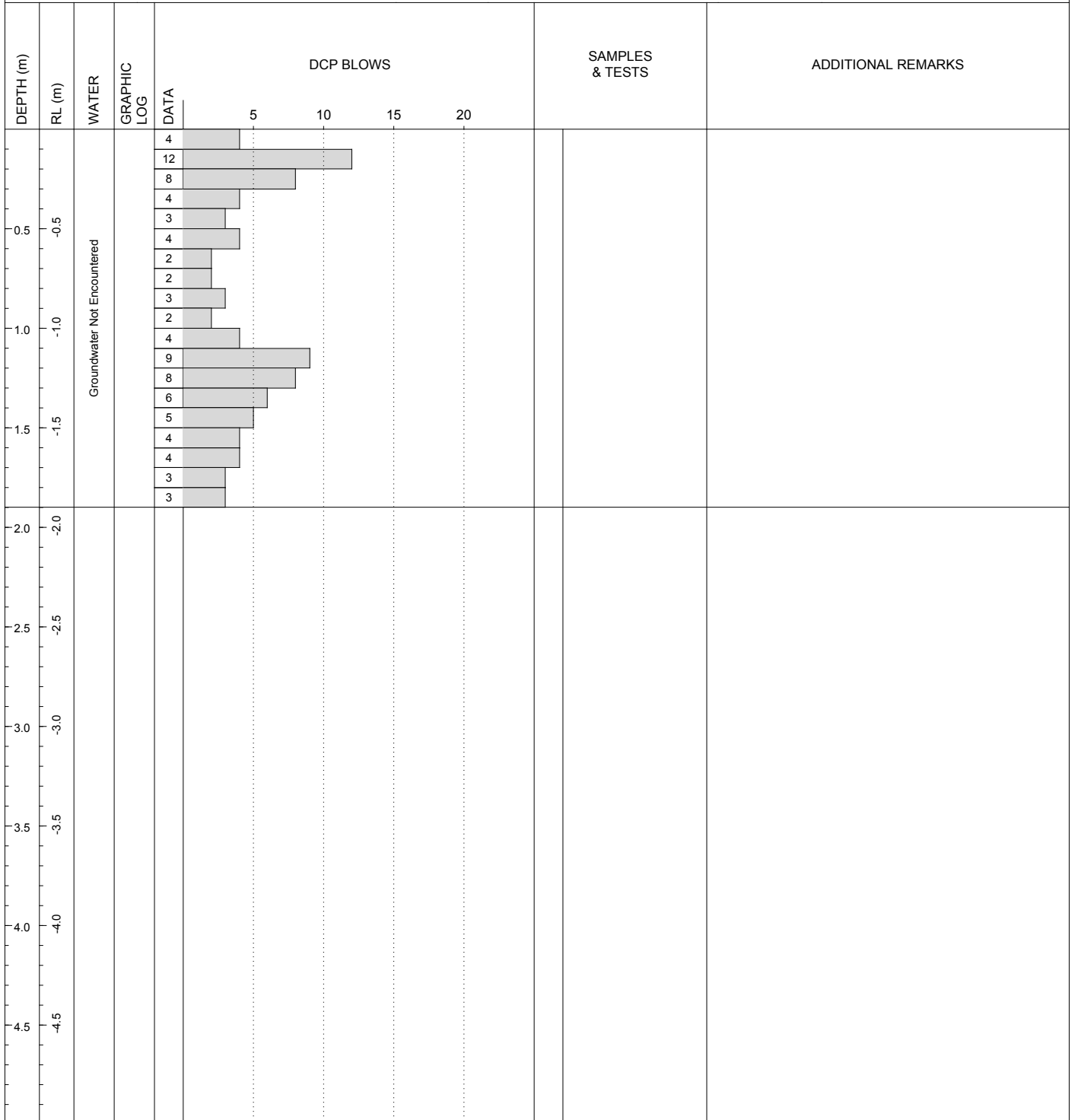
REMARKS

SYMBOLS

- ▼ Standing Water Level
- ◁ Out flow
- ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928625.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607630.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: PGR/SBD DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

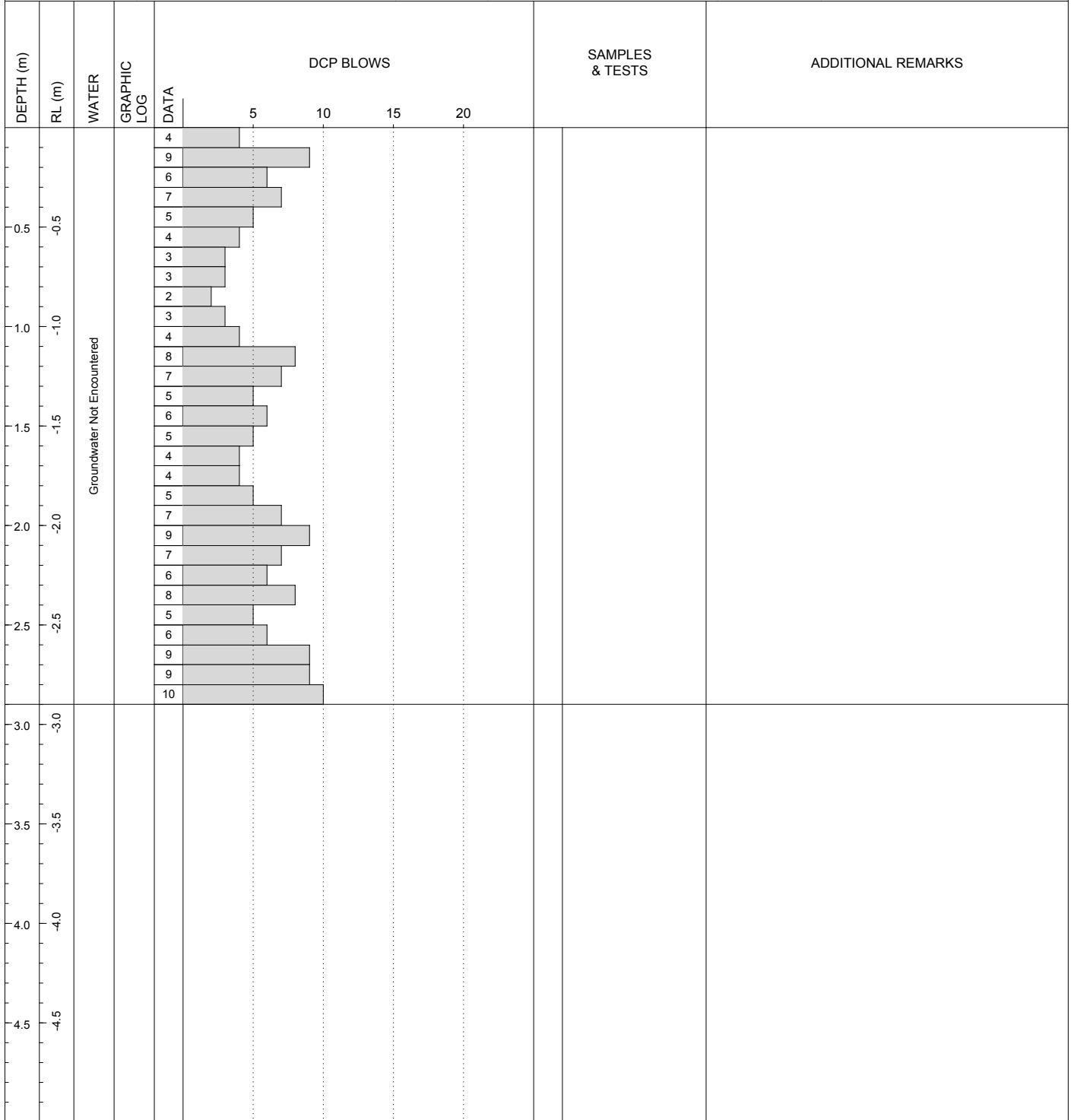
CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928616.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607623.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: PGR/SBD DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928601.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607641.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: PGR/SBD DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0				3						
0.1				5						
0.2				5						
0.3				2						
0.4				3						
0.5				2						
0.6				2						
0.7				1						
0.8				1						
0.9				2						
1.0				3						
1.1				5						
1.2				6						
1.3				4						
1.4				4						
1.5				2						
1.6				3						
1.7				3						
1.8				3						
1.9				3						
2.0				5						
2.1				5						
2.2				5						
2.3				6						
2.4				7						
2.5				9						
2.6				9						
2.7				8						
2.8				6						
2.9										
3.0										
3.1										
3.2										
3.3										
3.4										
3.5										
3.6										
3.7										
3.8										
3.9										
4.0										
4.1										
4.2										
4.3										
4.4										
4.5										

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow





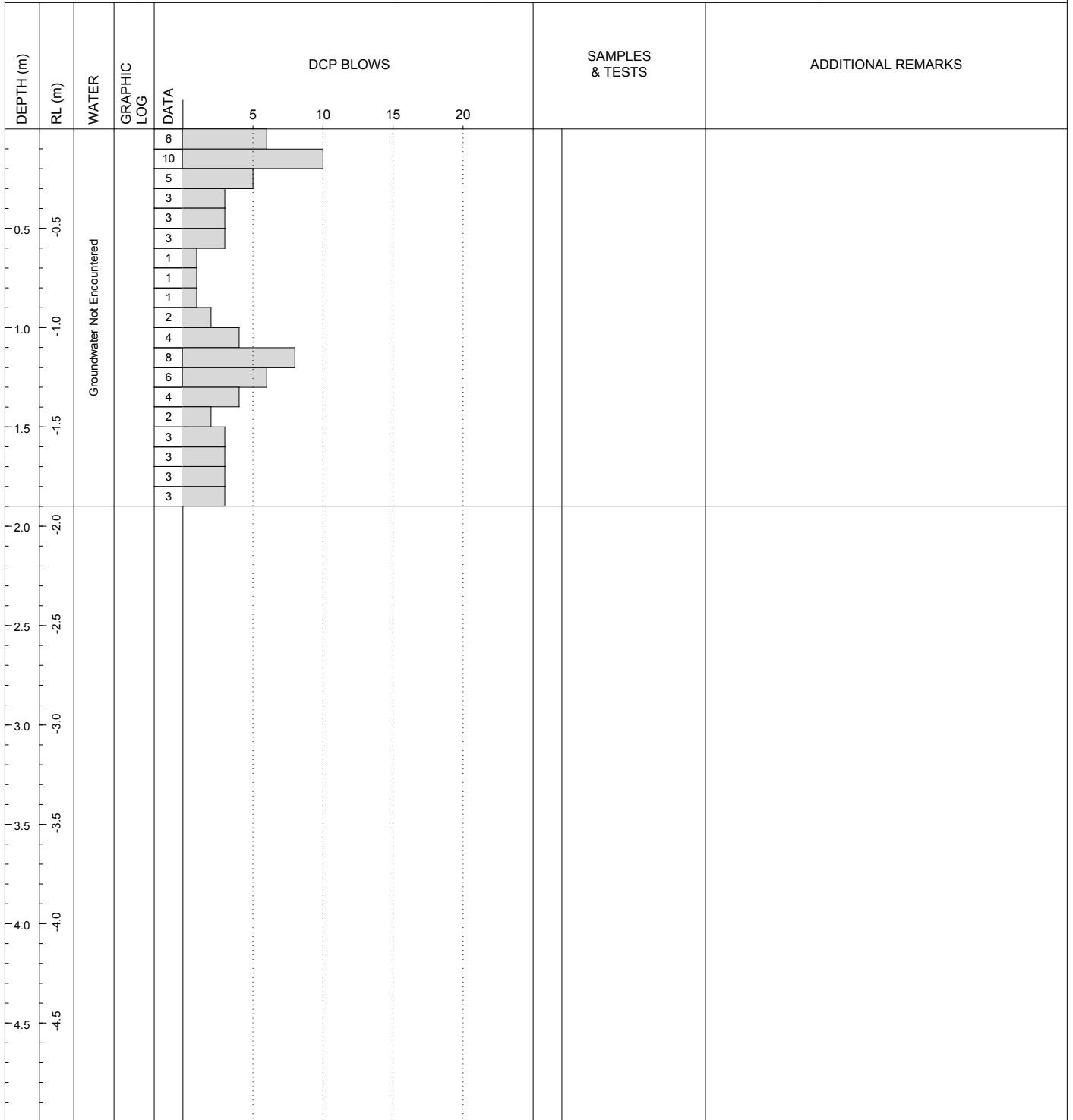
# DCP LOG

Lot 23 DCP04

SHEET 92 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 198610.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607650.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: PGR/SBD DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>



# HAND AUGER LOG

Lot 24 HA01

SHEET 23 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928657.00	STARTED: 22/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607652.00	FINISHED: 22/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: PGR/JM DATE: 22/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM DATE: 24/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: OPERATOR:

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.0				TOPSOIL; dark brown. Soft; dry.	D					
0.5	-0.5			Clayey SILT; light brown. Soft; low plasticity; moist.		S				
1.0	-1.0			Clayey SILT; brown . Firm; low plasticity; moist; clay increasing with depth.	M		FM			
1.0	-1.0			EOH: 1.00m						
1.5	-1.5									
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS

- SYMBOLS
- ▼ Standing Water Level
  - ◁ Out flow
  - ▷ In flow



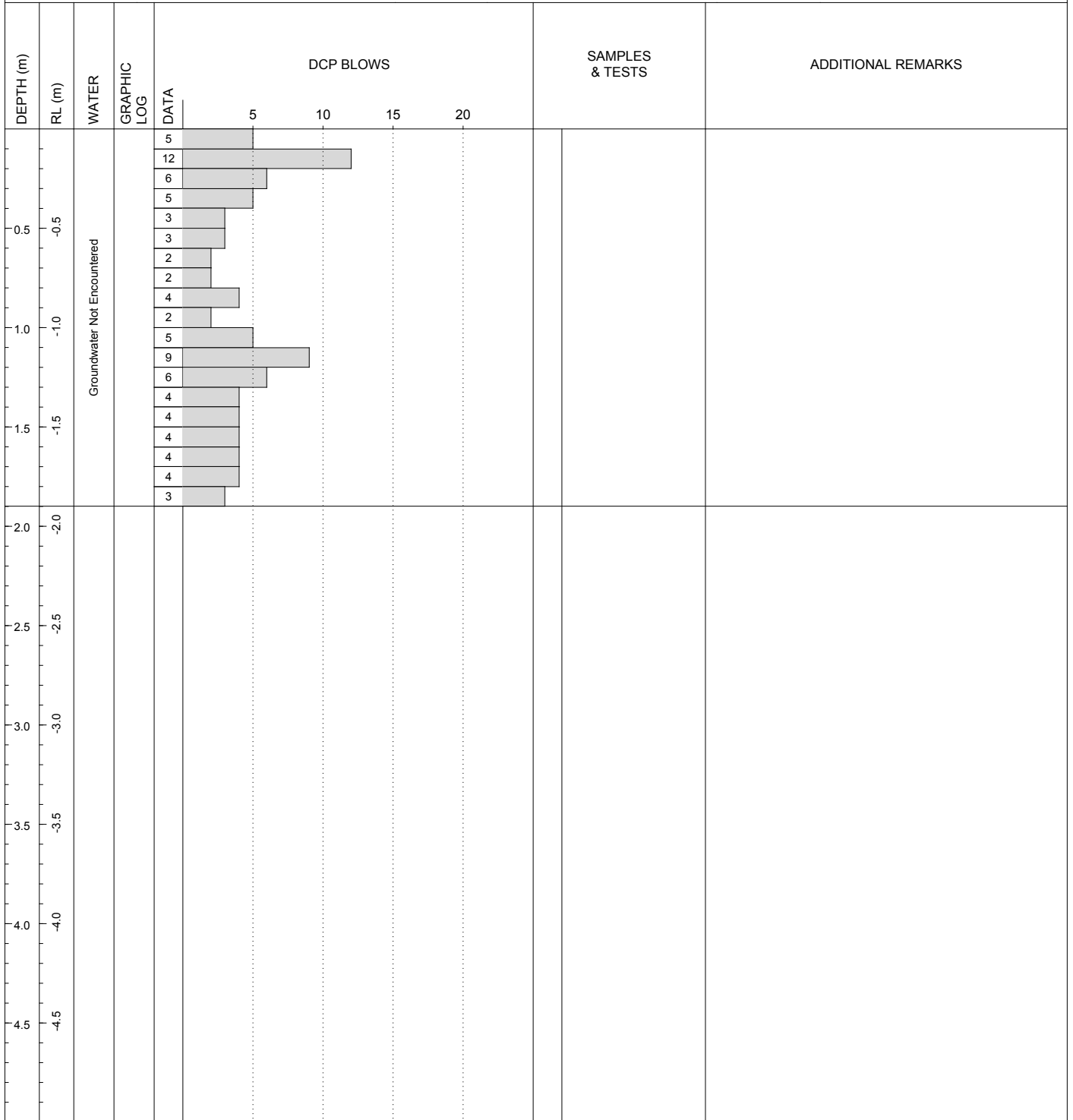
# DCP LOG

Lot 24 DCP01

SHEET 93 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928641.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607611.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: PGR/SBD DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

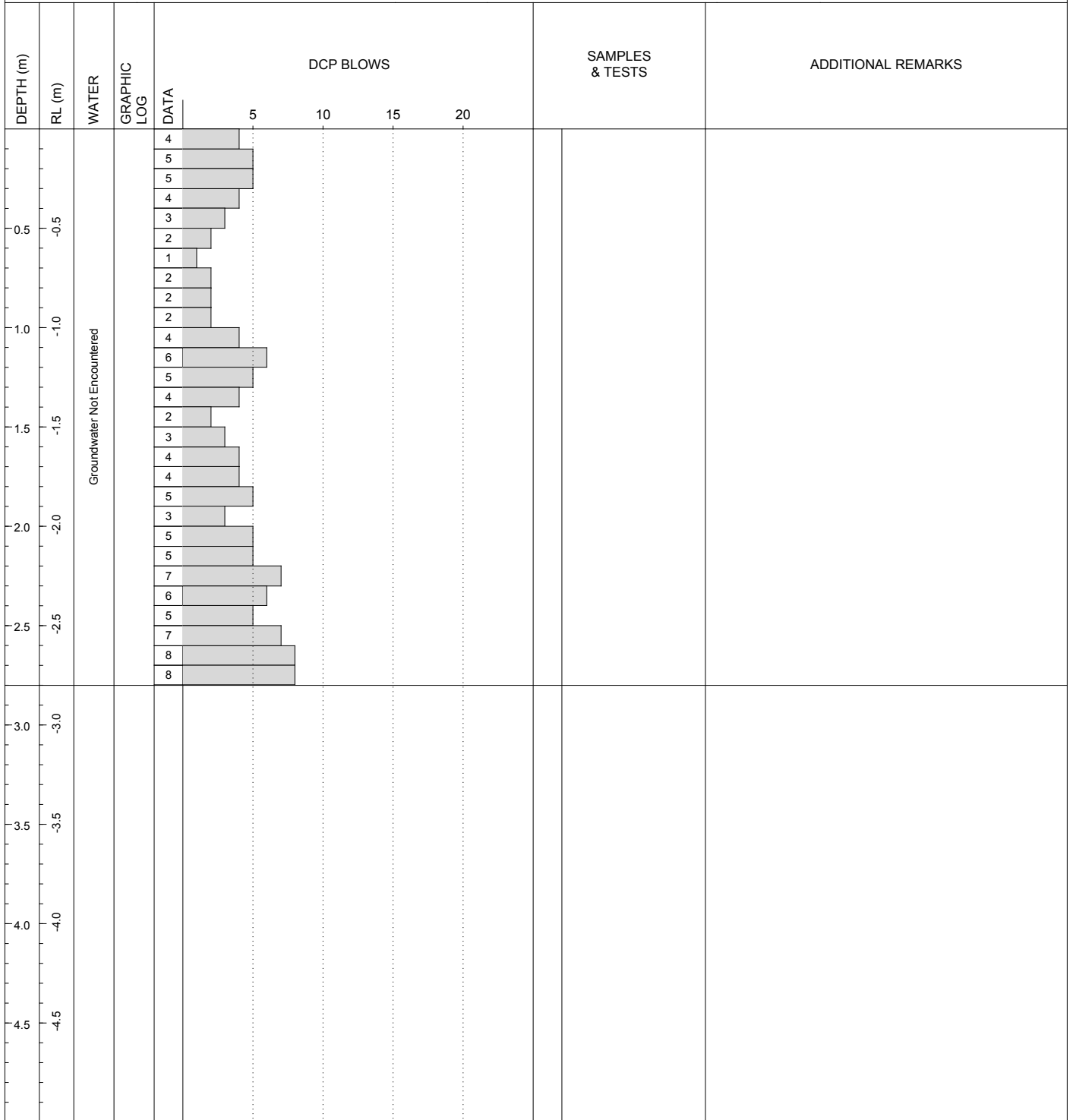
CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928632.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607634.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: PGR/SBD DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

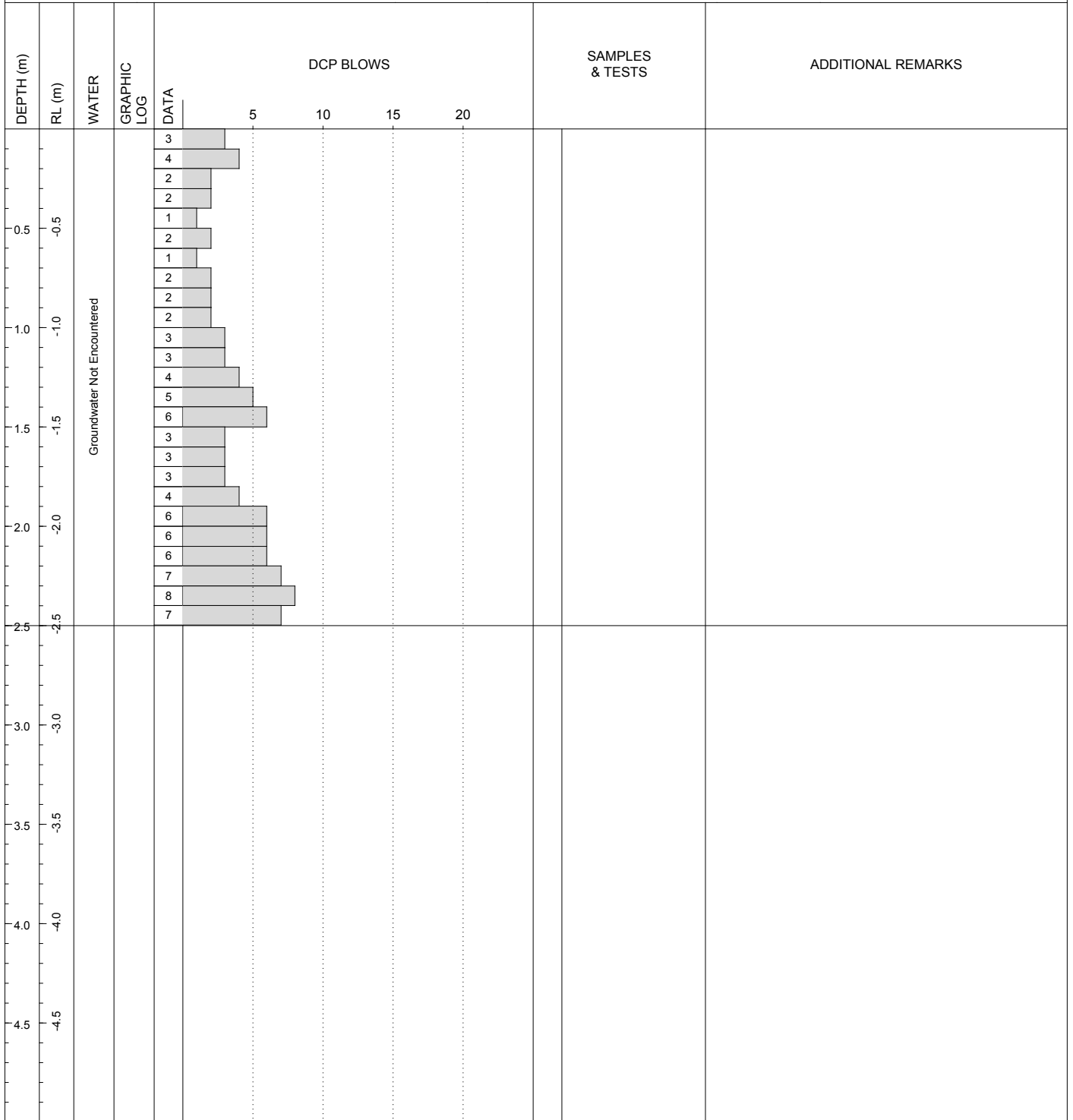
CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stages 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928417.00 NORTHING: 5607653.00 DATUM: ELEVATION: AZUMITH: 0°    PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 15/11/2017 FINISHED: 15/11/2017 LOGGED BY: PGR/SBD    DATE: 15/11/2017 CHECKED BY: JM        DATE: 24/11/2017 STATUS: Final data
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CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	<b>SYMBOLS</b> ▼ Standing Water Level ◁ Out flow ▷ In flow
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Produced with Core-GS by Geotec



# DCP LOG

Lot 24 DCP04

SHEET 96 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928626.00	STARTED: 16/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607661.00	FINISHED: 16/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: PGR/SBD DATE: 16/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0				2						
0.1				4						
0.2				4						
0.3				2						
0.4				2						
0.5				3						
0.6				2						
0.7				2						
0.8				3						
0.9				3						
1.0				7						
1.1				5						
1.2				3						
1.3				3						
1.4				4						
1.5				5						
1.6				5						
1.7				5						
1.8				4						
1.9				4						
2.0				6						
2.1				5						
2.2				6						
2.3				6						
2.4				6						
2.5				8						
2.6				8						
2.7										
2.8										
2.9										
3.0										
3.1										
3.2										
3.3										
3.4										
3.5										
3.6										
3.7										
3.8										
3.9										
4.0										
4.1										
4.2										
4.3										
4.4										
4.5										

REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>



# HAND AUGER LOG

Lot 25 HA01

SHEET 24 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928672.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607666.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 15/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
				TOPSOIL; dark brown. Firm; dry.	D	FM				
0.5	-0.5			SILT; medium yellowish brown. Soft; non-plastic; moist.						
1.0	-1.0			SILT, with trace clay; medium yellowish brown with grey and orange mottle. Soft; non-plastic; moist; fine sand lenses at 1.1m.	M	S				
				EOH: 1.40m						
1.5	-1.5									
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS  
too hard to pull auger

SYMBOLS  
 ▼ Standing Water Level  
 ◁ Out flow  
 ▷ In flow

CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stages 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928647.00 NORTHING: 5607647.00 DATUM: ELEVATION: AZUMITH: 0°    PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 15/11/2017 FINISHED: 15/11/2017 LOGGED BY: JB      DATE: 15/11/2017 CHECKED BY: JM     DATE: 24/11/2017 STATUS: Final data
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CONTRACTOR:	MACHINE:	OPERATOR:
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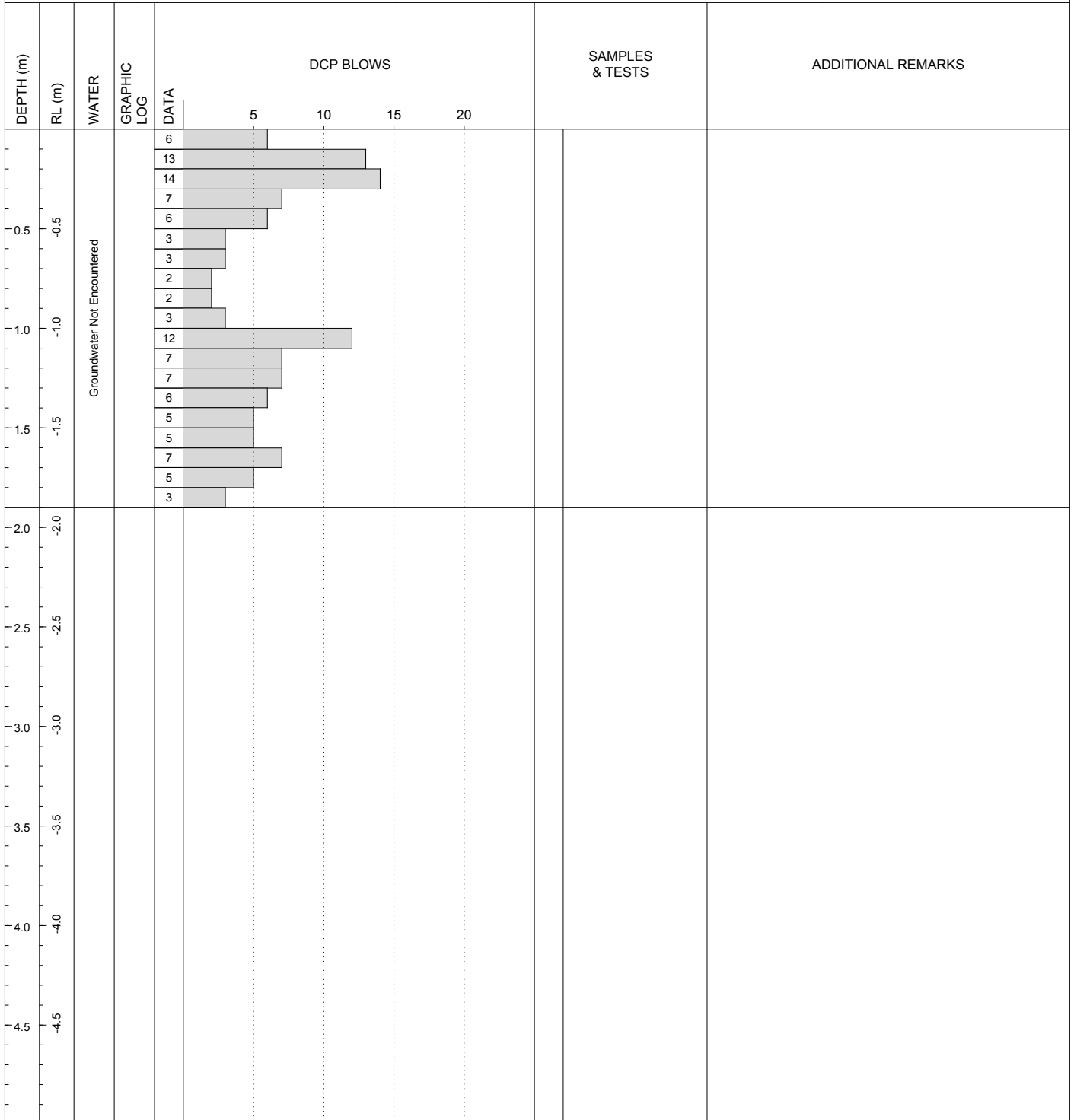
DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
					5    10    15    20		
0.5	-0.5	Groundwater Not Encountered		7	~6		
			4	~5			
			5	~5			
			6	~5			
			6	~5			
			4	~4			
			3	~3			
			3	~3			
			2	~2			
			2	~2			
			4	~4			
			5	~5			
			6	~5			
			7	~6			
1.0	-1.0			5	~5		
				4	~4		
				5	~5		
				6	~5		
				7	~6		
1.5	-1.5			5	~5		
				4	~4		
				5	~5		
				6	~5		
				7	~6		
2.0	-2.0						
2.5	-2.5						
3.0	-3.0						
3.5	-3.5						
4.0	-4.0						
4.5	-4.5						

REMARKS	<b>SYMBOLS</b> ▼ Standing Water Level ◁ Out flow ▷ In flow
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CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928633.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607667.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928640.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607671.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
					5    10    15    20		
0.5	-0.5	Groundwater Not Encountered		7			
			6				
			5				
			3				
			3				
			2				
			2				
			2				
1.0	-1.0		4				
			5				
			5				
			4				
			5				
			4				
1.5	-1.5		3				
		2					
		2					
		3					
		3					
2.0	-2.0			15			
2.5	-2.5						
3.0	-3.0						
3.5	-3.5						
4.0	-4.0						
4.5	-4.5						

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stages 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928645.00 NORTHING: 5607660.00 DATUM: ELEVATION: AZUMITH: 0°    PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 15/11/2017 FINISHED: 15/11/2017 LOGGED BY: JB      DATE: 15/11/2017 CHECKED BY: JM      DATE: 24/11/2017 STATUS: Final data
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CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.1	Groundwater Not Encountered		5						
0.1	7									
0.2	6									
0.3	5									
0.4	4									
0.5	4									
0.6	4									
0.7	2									
0.8	3									
0.9	3									
1.0	6									
1.1	6									
1.2	5									
1.3	5									
1.4	4									
1.5	4									
1.6	4									
1.7	3									
1.8	4									
1.9	4									
2.0	5									
2.1	5									
2.2	5									
2.3	4									
2.4	5									
2.5	5									
2.6	7									
2.7	6									
2.8	5									
2.9										
3.0										
3.1										
3.2										
3.3										
3.4										
3.5										
3.6										
3.7										
3.8										
3.9										
4.0										
4.1										
4.2										
4.3										
4.4										
4.5										

REMARKS	SYMBOLS ▼ Standing Water Level ◁ Out flow ▷ In flow
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# HAND AUGER LOG

Lot 26 HA01

SHEET 25 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928661.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607671.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 15/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
				TOPSOIL; dark brown. Firm; dry.	D	FM				
0.5	-0.5			SILT; medium orangish brown with trace grey. Soft; non-plastic; moist.						
1.0	-1.0			SILT; medium yellowish brown. Soft; moist; with trace dark brown silt pockets.	M	S				
1.5	-1.5			EOH: 1.30m						
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

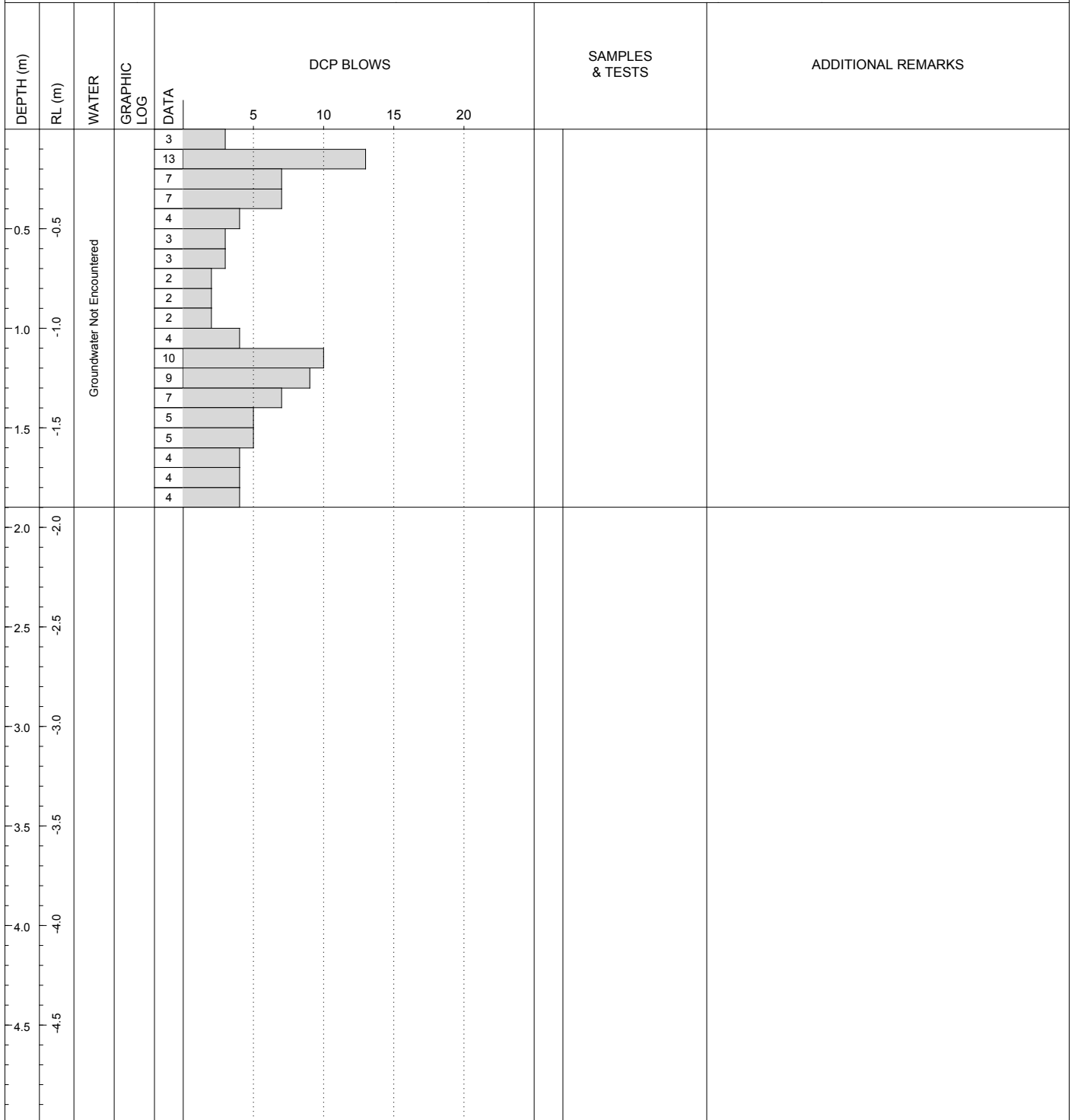
REMARKS

SYMBOLS

- ▼ Standing Water Level
- ◁ Out flow
- ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928672.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607657.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>



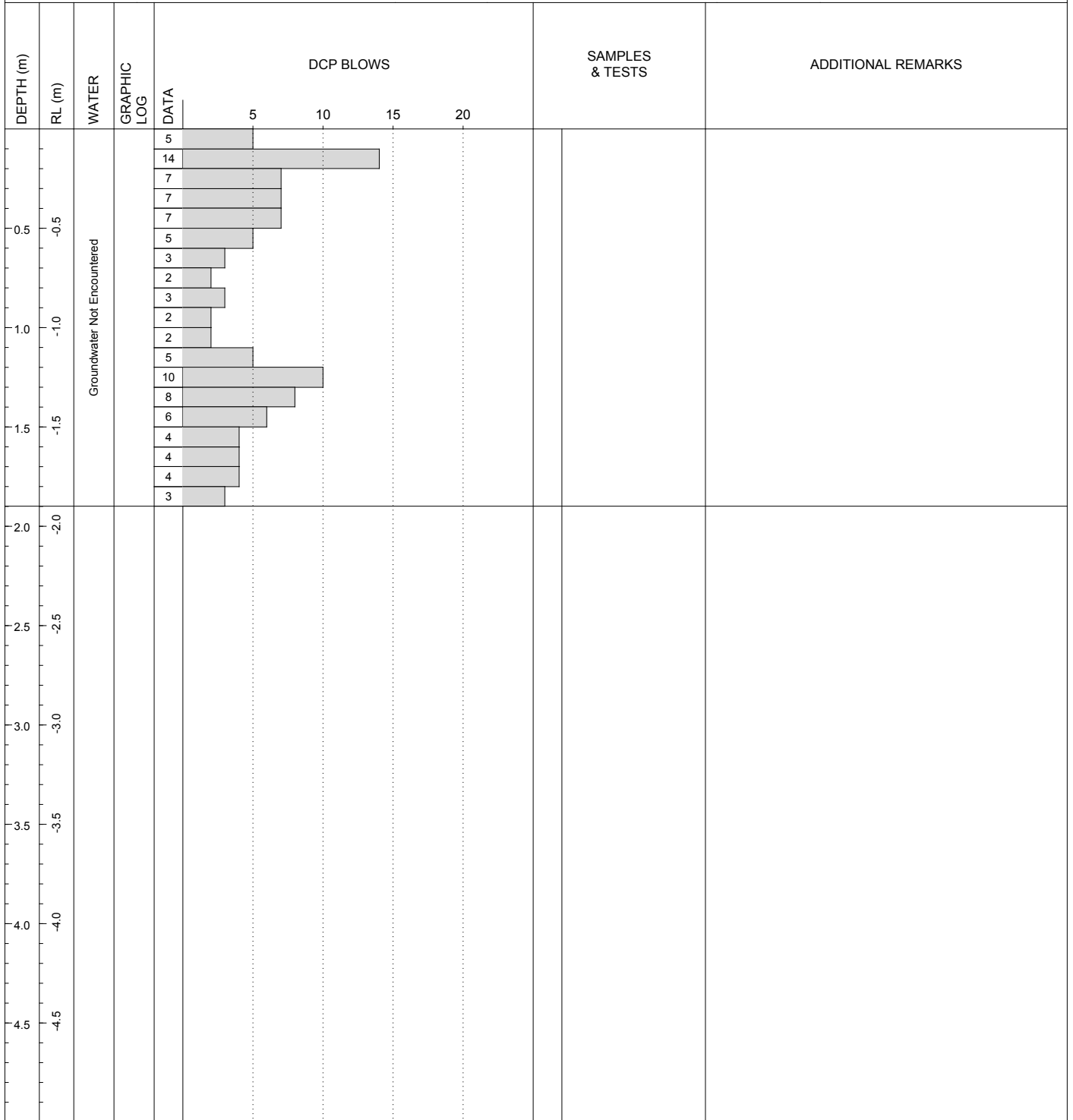
# DCP LOG

Lot 26 DCP02

SHEET 102 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928663.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607661.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

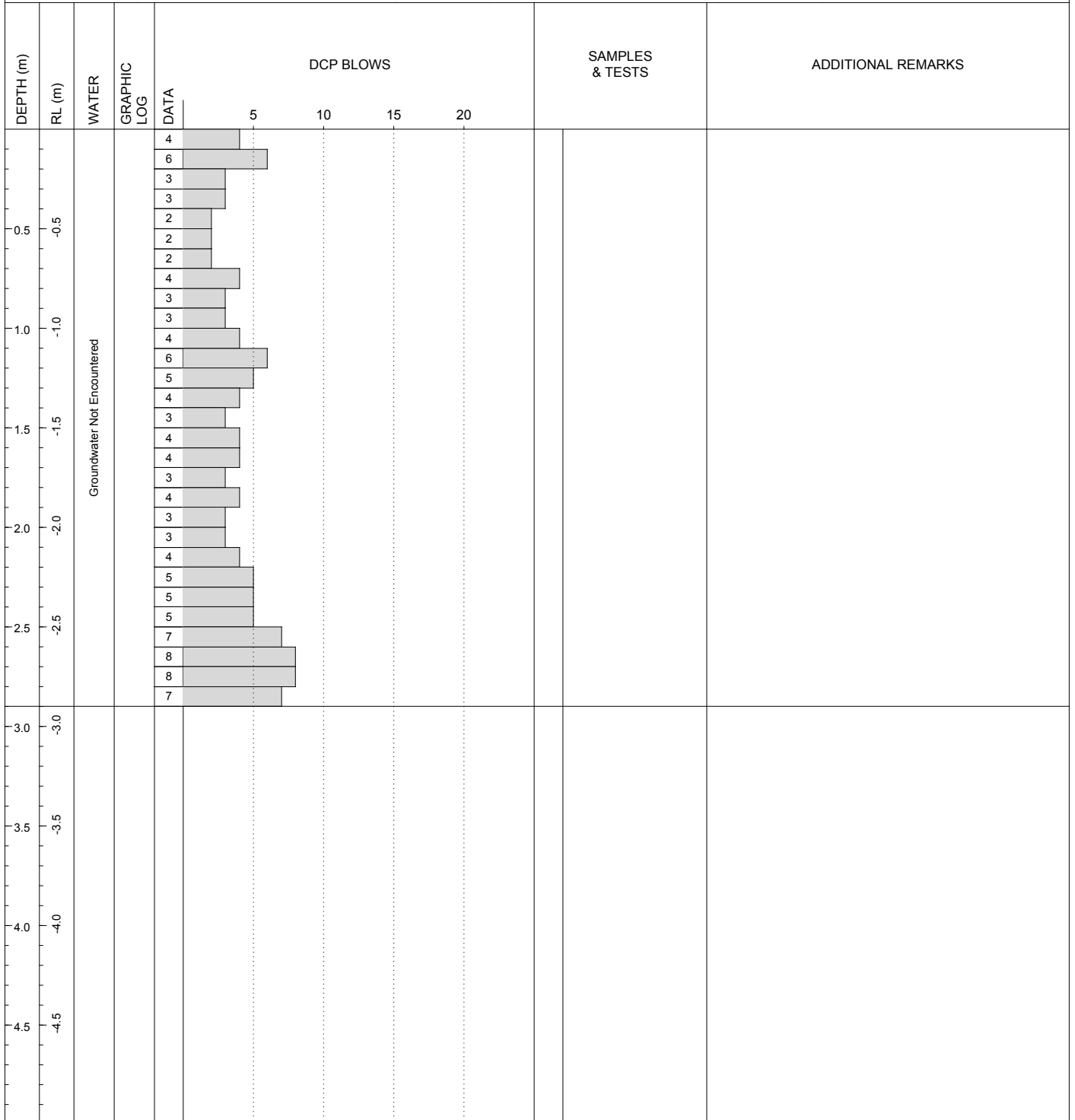
CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928651.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607676.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°    PLUNGE: 90°	STATUS: Final data

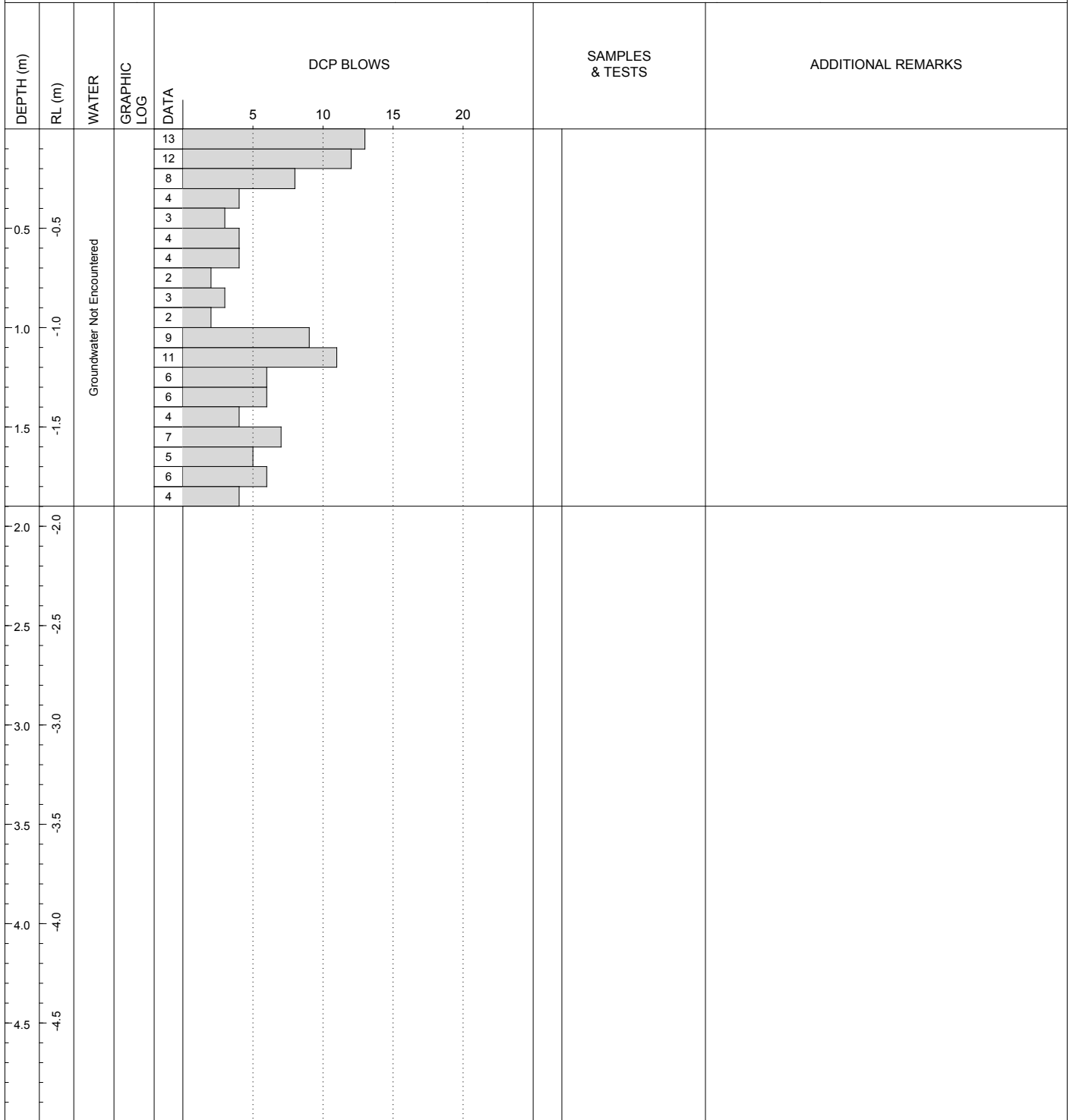
CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928666.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607692.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow





# HAND AUGER LOG

Lot 27 HA01

SHEET 26 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928675.00	STARTED: 16/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607682.00	FINISHED: 16/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 16/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.0	-0.5			Topsoil; dark brown. Firm; moist; trace rootlets.		FM				
0.5	-1.0			SILT; medium yellowish brown with dark brown silt pockets. Soft; low plasticity; moist.	M	S				
1.0	-1.5			EOH: 1.30m						
1.5	-2.0									
2.0	-2.5									
2.5	-3.0									
3.0	-3.5									
3.5	-4.0									
4.0	-4.5									

REMARKS

SYMBOLS

- ▼ Standing Water Level
- ◁ Out flow
- ▷ In flow

CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stages 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928691.00 NORTHING: 5607677.00 DATUM: ELEVATION: AZUMITH: 0°    PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 15/11/2017 FINISHED: 15/11/2017 LOGGED BY: JB      DATE: 15/11/2017 CHECKED BY: JM     DATE: 24/11/2017 STATUS: Final data
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CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.5	Groundwater Not Encountered		2						
0.1	-0.5		5							
0.2	-0.5		4							
0.3	-0.5		4							
0.4	-0.5		2							
0.5	-0.5		1							
0.6	-0.5		1							
0.7	-0.5		2							
0.8	-0.5		3							
0.9	-0.5		2							
1.0	-1.0		4							
1.1	-1.0		6							
1.2	-1.0		8							
1.3	-1.0		5							
1.4	-1.0		6							
1.5	-1.5	3								
1.6	-1.5	4								
1.7	-1.5	6								
1.8	-1.5	4								
1.9	-2.0									
2.0	-2.0									
2.1	-2.0									
2.2	-2.5									
2.3	-2.5									
2.4	-2.5									
2.5	-2.5									
2.6	-3.0									
2.7	-3.0									
2.8	-3.0									
2.9	-3.0									
3.0	-3.5									
3.1	-3.5									
3.2	-3.5									
3.3	-3.5									
3.4	-4.0									
3.5	-4.0									
3.6	-4.0									
3.7	-4.0									
3.8	-4.5									
3.9	-4.5									
4.0	-4.5									
4.1	-4.5									
4.2	-4.5									
4.3	-4.5									
4.4	-4.5									
4.5	-4.5									

REMARKS	<b>SYMBOLS</b> ▼ Standing Water Level ◁ Out flow ▷ In flow
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Produced with Core-GS by Geric



# DCP LOG

Lot 27 DCP02

SHEET 106 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928681.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607673.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

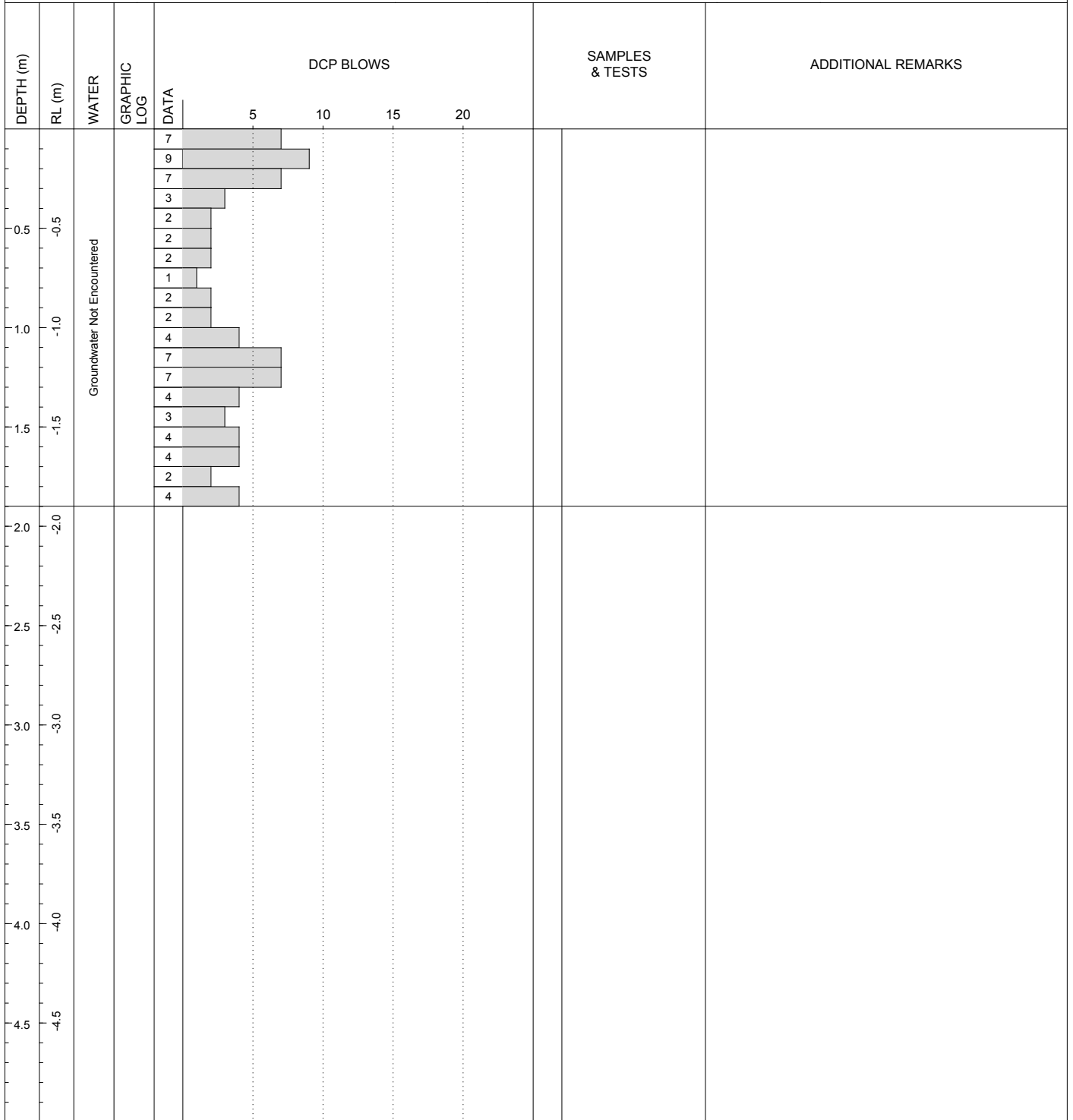
CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
					5      10      15      20		
0.5	-0.5	Groundwater Not Encountered		5			
			6				
			4				
			3				
			3				
			3				
			2				
			2				
1.0	-1.0		3				
			4				
			5				
			5				
			4				
			4				
			5				
			5				
			6				
			4				
2.0	-2.0						
2.5	-2.5						
3.0	-3.0						
3.5	-3.5						
4.0	-4.0						
4.5	-4.5						

REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stages 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928667.00 NORTHING: 5607691.00 DATUM: ELEVATION: AZUMITH: 0°    PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 15/11/2017 FINISHED: 15/11/2017 LOGGED BY: JB      DATE: 15/11/2017 CHECKED BY: JM     DATE: 24/11/2017 STATUS: Final data
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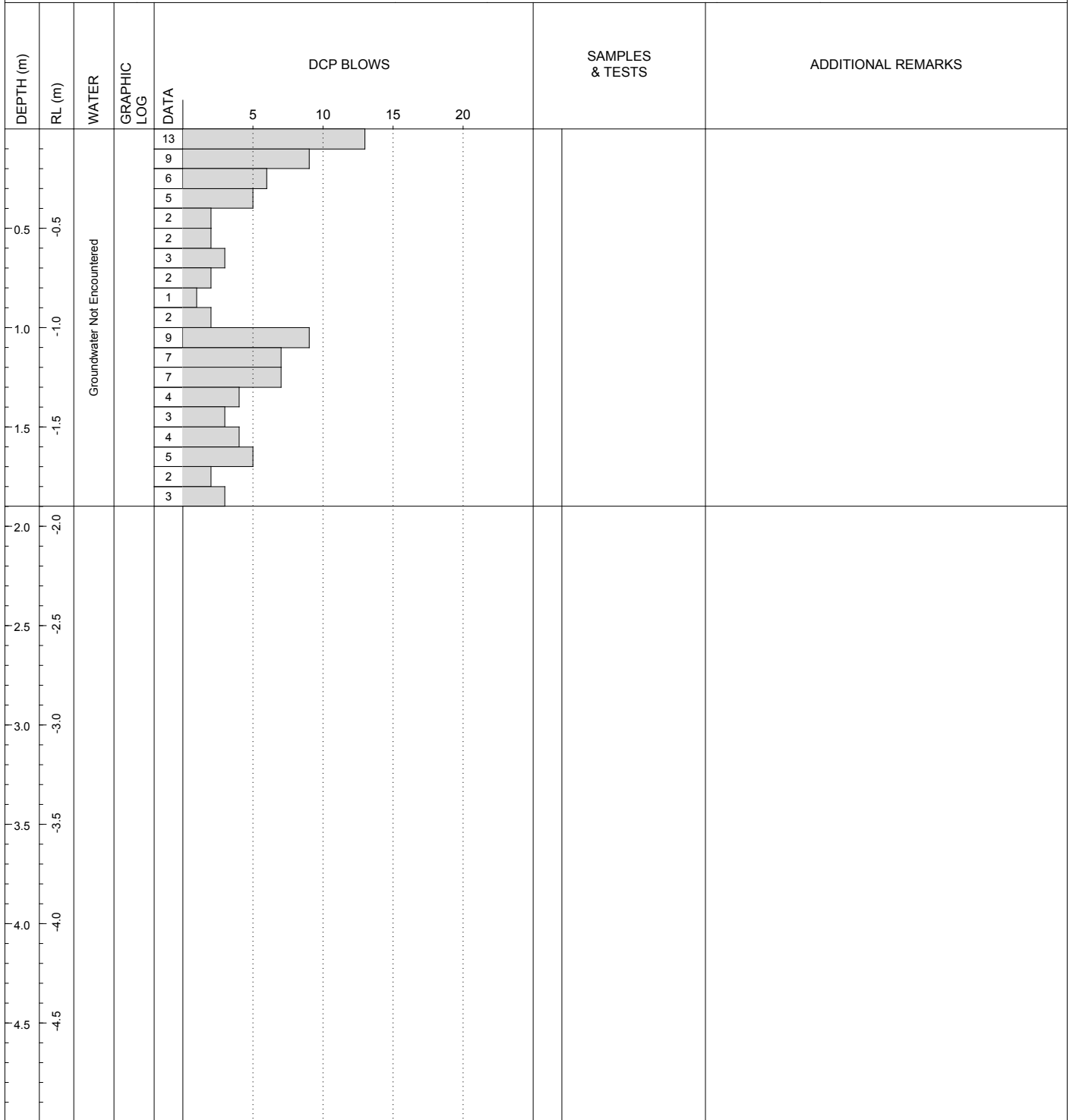
CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	<b>SYMBOLS</b> ▼ Standing Water Level ◁ Out flow ▷ In flow
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CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928674.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607699.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



# HAND AUGER LOG

Lot 28 HA01

SHEET 27 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928691.00	STARTED: 16/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607693.00	FINISHED: 16/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 16/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.0				TOPSOIL; dark brown. Firm; moist.		FM				
0.5				SILT; medium yellowish brown with trace orange mottle and grey. Soft; moist; trace pockets of dark brown silt.	M	S				
1.0				EOH: 1.30m						
1.5										
2.0										
2.5										
3.0										
3.5										
4.0										
4.5										

REMARKS

- SYMBOLS
- ▼ Standing Water Level
  - ◁ Out flow
  - ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928704.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607689.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: PGR/SD DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

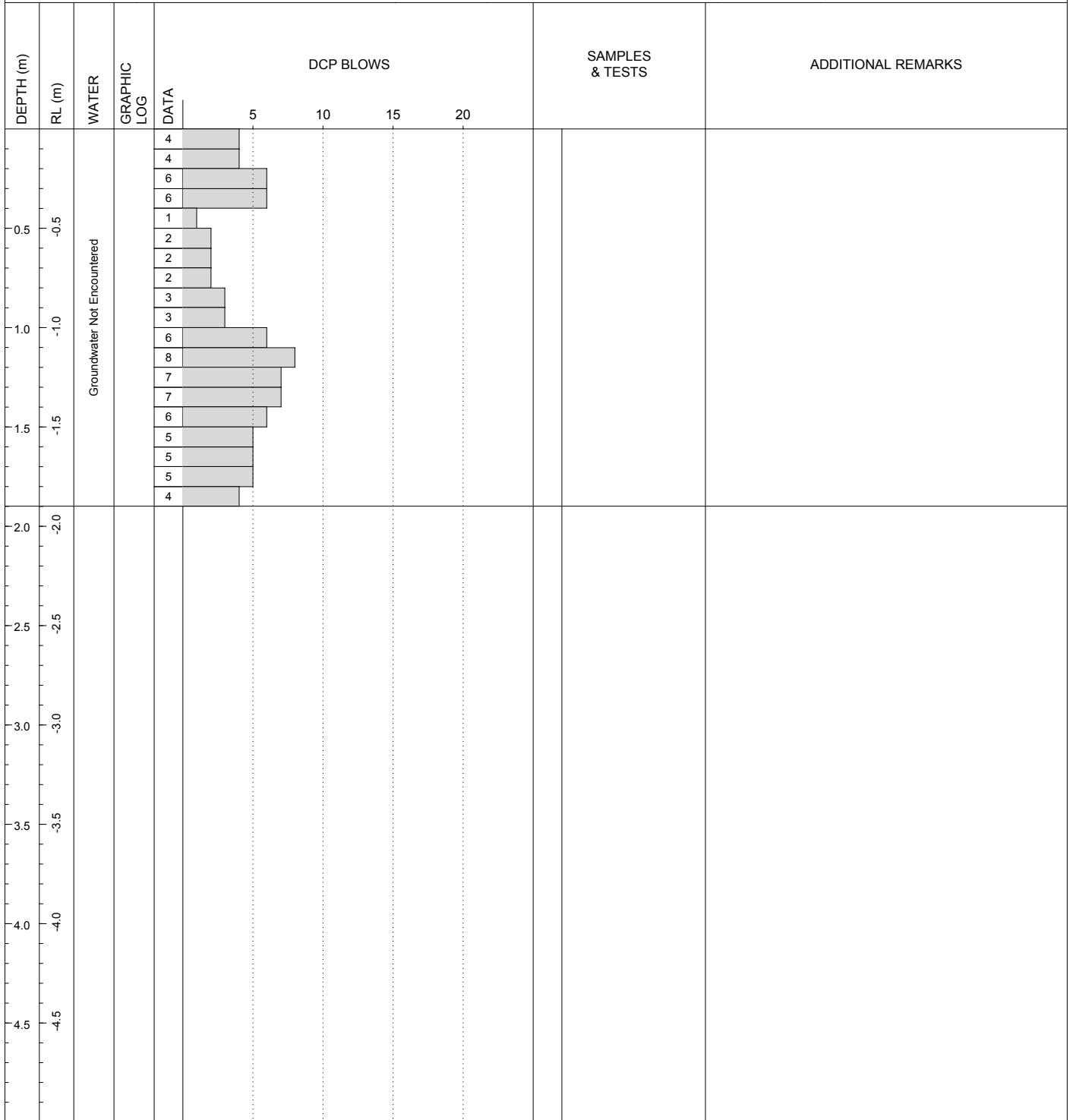
CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
					5 10 15 20		
0.5	-0.5	Groundwater Not Encountered		3			
				4			
				5			
				5			
				2			
				2			
				2			
				1			
				1			
1.0	-1.0			3			
				5			
				6			
				7			
				7			
1.5	-1.5			6			
			5				
			4				
			4				
			3				
2.0	-2.0						
2.5	-2.5						
3.0	-3.0						
3.5	-3.5						
4.0	-4.0						
4.5	-4.5						

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stages 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928692.00 NORTHING: 5607683.00 DATUM: ELEVATION: AZUMITH: 0°    PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 15/11/2017 FINISHED: 15/11/2017 LOGGED BY: PGR/SD    DATE: 15/11/2017 CHECKED BY: JM        DATE: 24/11/2017 STATUS: Final data
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CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	<b>SYMBOLS</b> ▼ Standing Water Level ◁ Out flow ▷ In flow
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CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928678.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607700.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: PGR/SD DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
					5 10 15 20		
0.5	-0.5	Groundwater Not Encountered		5			
			4				
			4				
			4				
			3				
			3				
			1				
			2				
			4				
			4				
1.0	-1.0		9				
			10				
			9				
			8				
			8				
1.5	-1.5	8					
		5					
		5					
		5					
2.0	-2.0						
2.5	-2.5						
3.0	-3.0						
3.5	-3.5						
4.0	-4.0						
4.5	-4.5						

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928687.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607711.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: PGR/SD DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
					5 10 15 20		
0.5	-0.5	Groundwater Not Encountered		5			
			3				
			3				
			2				
			2				
			1				
			1				
			1				
1.0	-1.0		5				
			6				
		6					
		7					
		7					
		9					
		6					
		6					
		7					
		4					
2.0	-2.0						
2.5	-2.5						
3.0	-3.0						
3.5	-3.5						
4.0	-4.0						
4.5	-4.5						

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



# HAND AUGER LOG

**Lot 29 HA01**

SHEET 28 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928707.00	STARTED: 16/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607701.00	FINISHED: 16/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 16/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.0	-0.5			TOPSOIL; dark brown. Firm; moist.		FM				
0.5	-1.0			SILT; medium yellowish brown. Soft; moist; some pockets of dark brown silt.	M	S				
1.0	-1.30			SILT, with trace clay; medium yellowish brown, trace orange mottle and grey. Soft; non-plastic; moist.						
1.30				EOH: 1.30m						
1.5	-1.5									
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS

- SYMBOLS
- Standing Water Level
  - Out flow
  - In flow

CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stages 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928734.00 NORTHING: 5607712.00 DATUM: ELEVATION: AZUMITH: 0° PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 23/11/2017 FINISHED: 23/11/2017 LOGGED BY: SLK DATE: 23/11/2017 CHECKED BY: JM DATE: 24/11/2017 STATUS: Final data
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CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.5	-0.5	Groundwater Not Encountered		5						
			6							
			5							
			3							
			2							
			2							
			2							
			1							
			1							
			2							
			4							
			6							
			5							
			4							
			3							
1.5	-1.5			3						
				3						
				3						
				2						
				3						
				6						
2.0	-2.0			4						
				6						
				4						
				6						
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS	<b>SYMBOLS</b> ▼ Standing Water Level ◁ Out flow ▷ In flow
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CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stages 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928710.00 NORTHING: 5607694.00 DATUM: ELEVATION: AZUMITH: 0°    PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 23/11/2017 FINISHED: 23/11/2017 LOGGED BY: SLK      DATE: 23/11/2017 CHECKED BY: JM      DATE: 24/11/2017 STATUS: Final data
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CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.5	-0.5	Groundwater Not Encountered		3						
			5							
			6							
			4							
			6							
			3							
			2							
			2							
			2							
			2							
			5							
			8							
			6							
			6							
			5							
			4							
			3							
			4							
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS	<b>SYMBOLS</b> ▼ Standing Water Level ◁ Out flow ▷ In flow
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CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stage 3-5	EASTING: 1928695.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607715.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: SLK      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

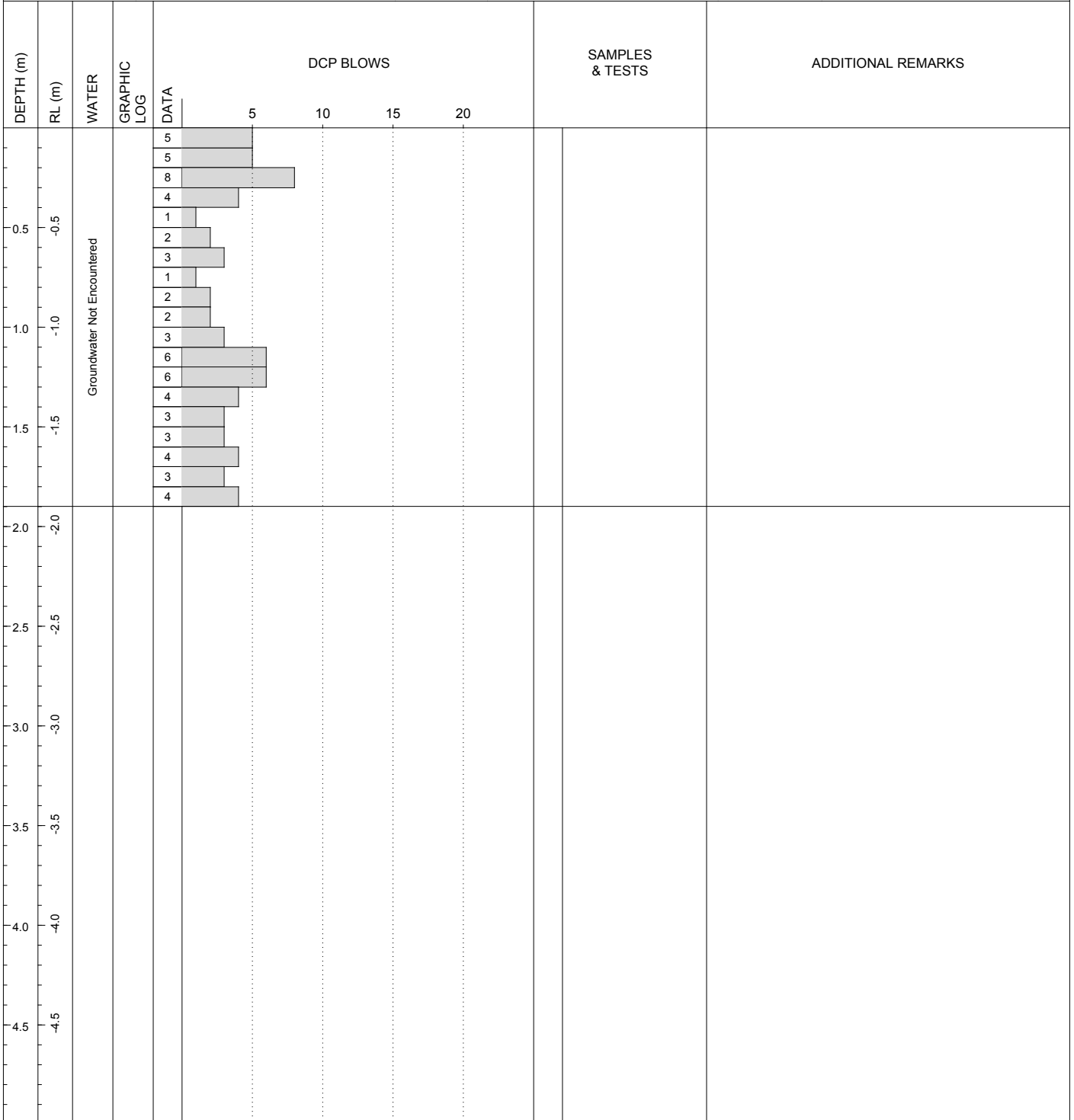
CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
		Groundwater Not Encountered					
				2			
				7			
				8			
				4			
0.5	-0.5			3			
				2			
				2			
				1			
				2			
1.0	-1.0			1			
				3			
				7			
				6			
				5			
				4			
1.5	-1.5			4			
				3			
				5			
				4			
2.0	-2.0						
2.5	-2.5						
3.0	-3.0						
3.5	-3.5						
4.0	-4.0						
4.5	-4.5						

REMARKS	SYMBOLS ▼ Standing Water Level ◁ Out flow ▷ In flow
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CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928718.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607733.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: SLK DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level
	⊲ Out flow
	⊳ In flow



# HAND AUGER LOG

Lot 30 HA01

SHEET 29 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928686.00	STARTED: 16/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607731.00	FINISHED: 16/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 16/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.0	-0.5			TOPSOIL; dark brown. Firm; moist.		FM				
0.5	-1.0			SILT; medium yellowish brown with orange mottle and trace grey. Soft; moist; pockets of dark brown silt to 0.6m.	M	S				
1.0	-1.5			SILT; medium yellowish brown. Soft; moist.						
1.40	-1.5			EOH: 1.40m						
1.5	-2.0									
2.0	-2.5									
2.5	-3.0									
3.0	-3.5									
3.5	-4.0									
4.0	-4.5									
4.5										

REMARKS

SYMBOLS

- ▼ Standing Water Level
- ⇐ Out flow
- ▷ In flow



CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928704.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607755.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: SLK      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

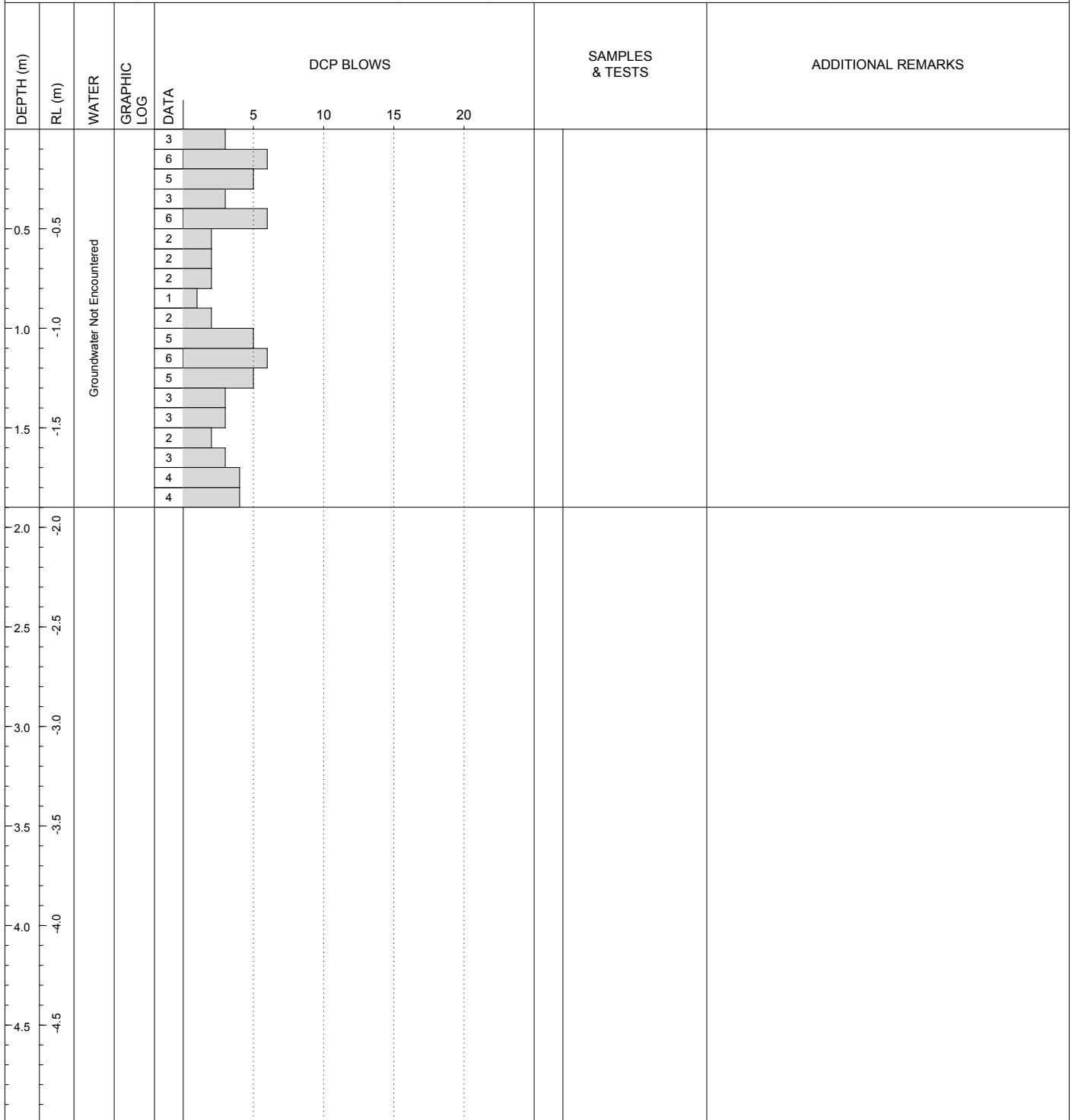
CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.5	Groundwater Not Encountered		3						
0.1	-0.5		3							
0.2	-0.5		3							
0.3	-0.5		4							
0.4	-0.5		3							
0.5	-0.5		2							
0.6	-0.5		2							
0.7	-0.5		2							
0.8	-0.5		1							
0.9	-0.5		1							
1.0	-1.0		4							
1.1	-1.0		4							
1.2	-1.0		4							
1.3	-1.0		3							
1.4	-1.0		3							
1.5	-1.0	3								
1.6	-1.0	3								
1.7	-1.0	5								
1.8	-1.0	4								
1.9	-1.0	4								
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stages 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928712.00 NORTHING: 5607738.00 DATUM: ELEVATION: AZUMITH: 0°    PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 23/11/2017 FINISHED: 23/11/2017 LOGGED BY: SLK      DATE: 23/11/2017 CHECKED BY: JM      DATE: 24/11/2017 STATUS: Final data
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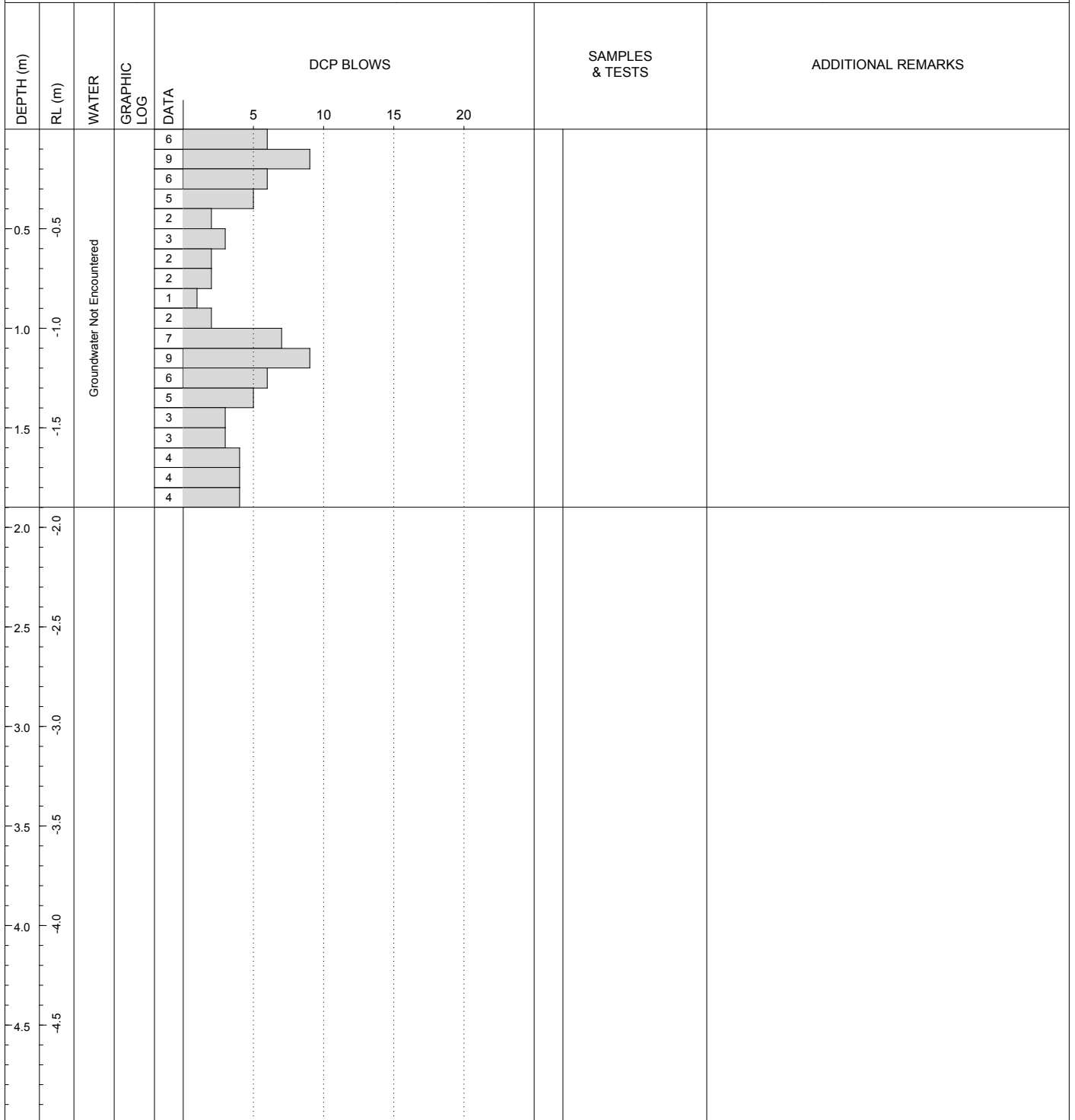
CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS ▼ Standing Water Level ◁ Out flow ▷ In flow
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CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928681.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607723.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: SLK      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

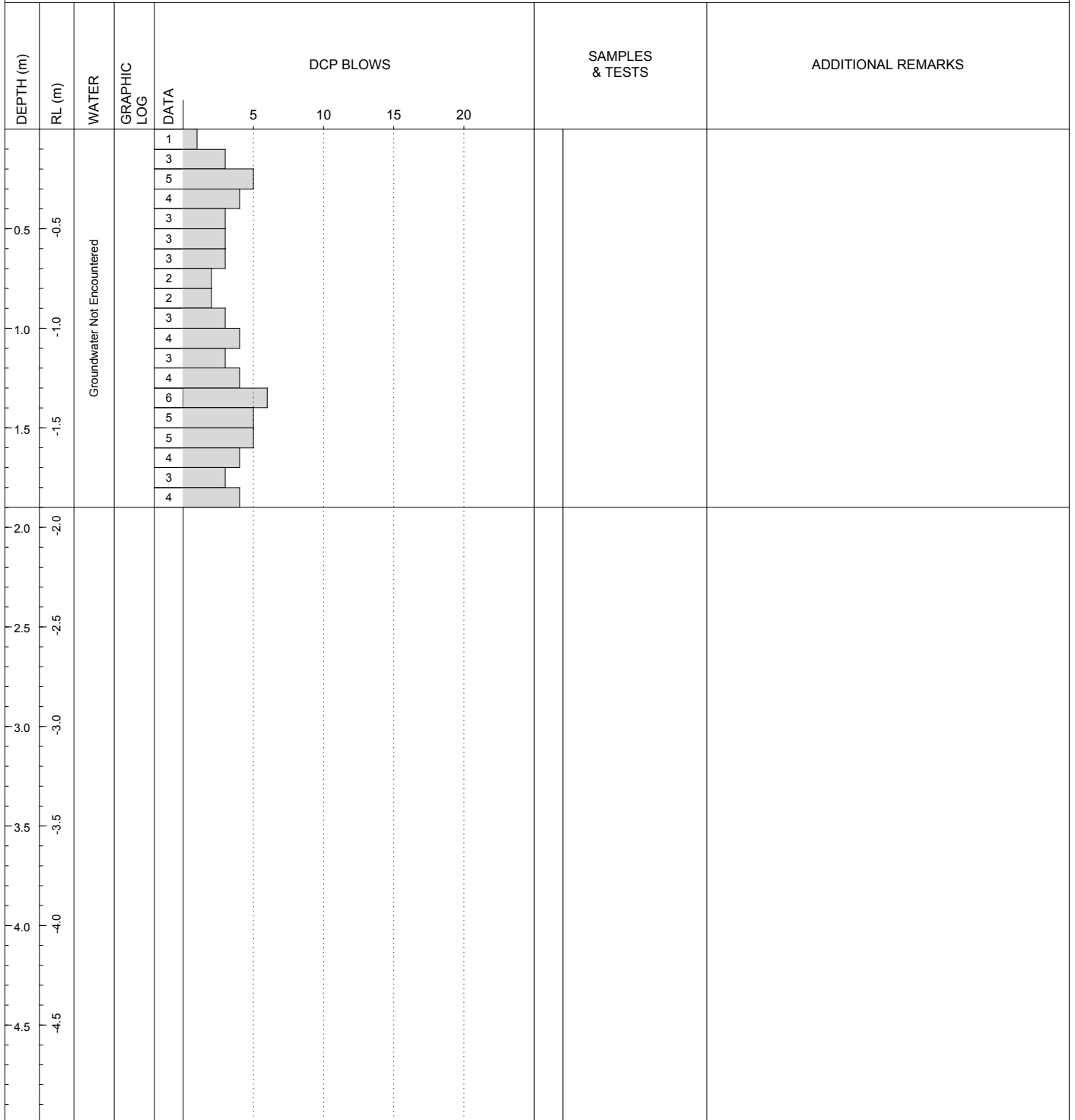
CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stage 3-5	EASTING: 1928670.00	STARTED: 23/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607736.00	FINISHED: 23/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: SLK      DATE: 23/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



# HAND AUGER LOG

Lot 31 HA01

SHEET 30 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928562.00	STARTED: 16/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607662.00	FINISHED: 16/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 16/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
				TOPSOIL; dark brown. Firm; trace rootlets.		FM				
0.5	-0.5			Sandy SILT; medium brown. Soft; non-plastic; dry; sand, fine; becomes moist at 0.4m.	D	S				
				SILT, with trace sand; medium orangish brown with orange mottle and trace grey. Soft; non-plastic; moist.						
1.0	-1.0			SILT, with some clay; medium orangish brown with orange mottle and grey. Non-plastic; moist.	M					
				EOH: 1.30m						
1.5	-1.5									
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

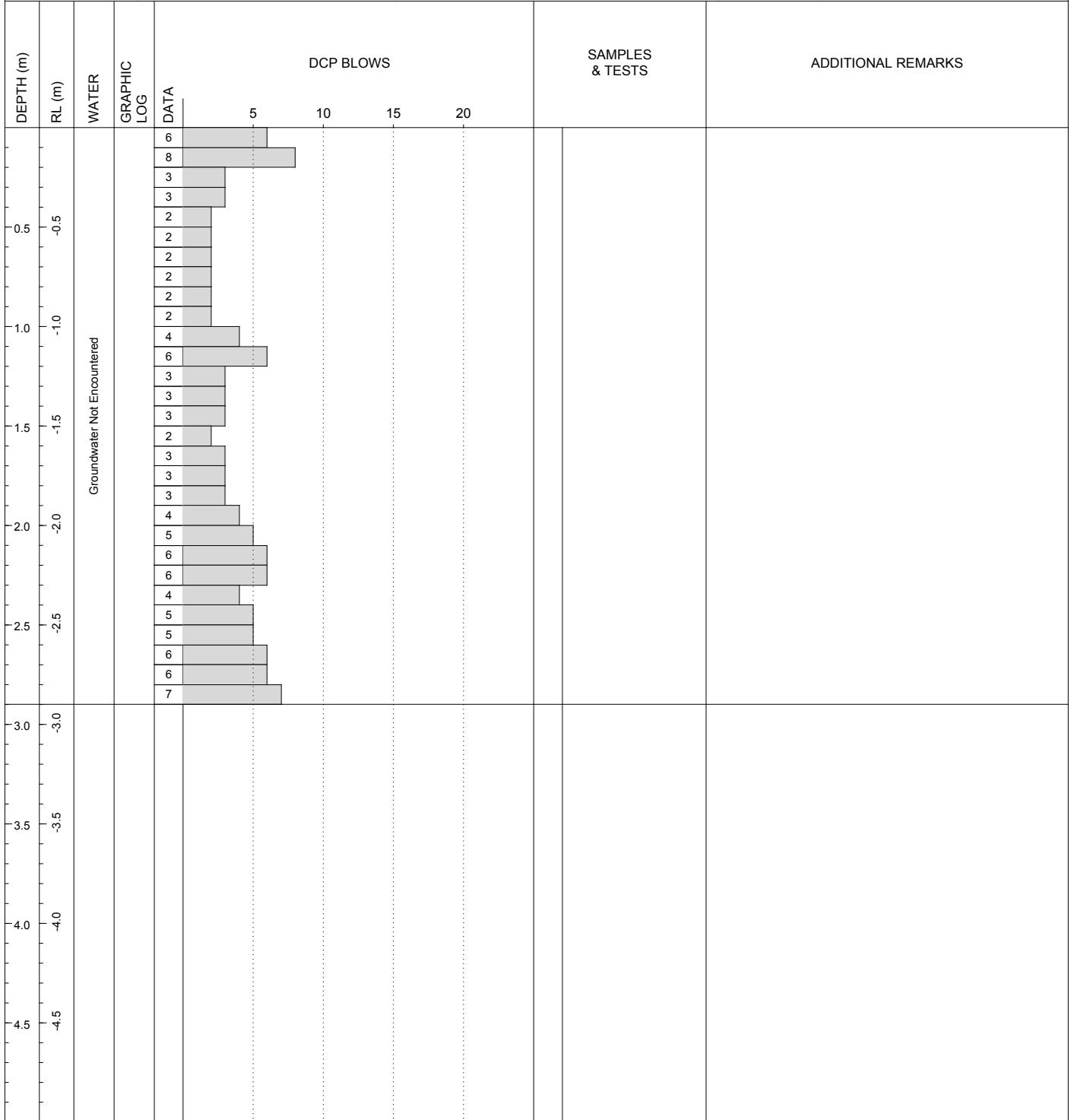
REMARKS

SYMBOLS

- ▼ Standing Water Level
- ⇐ Out flow
- ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stage 3-5	EASTING: 1928571.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607659.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



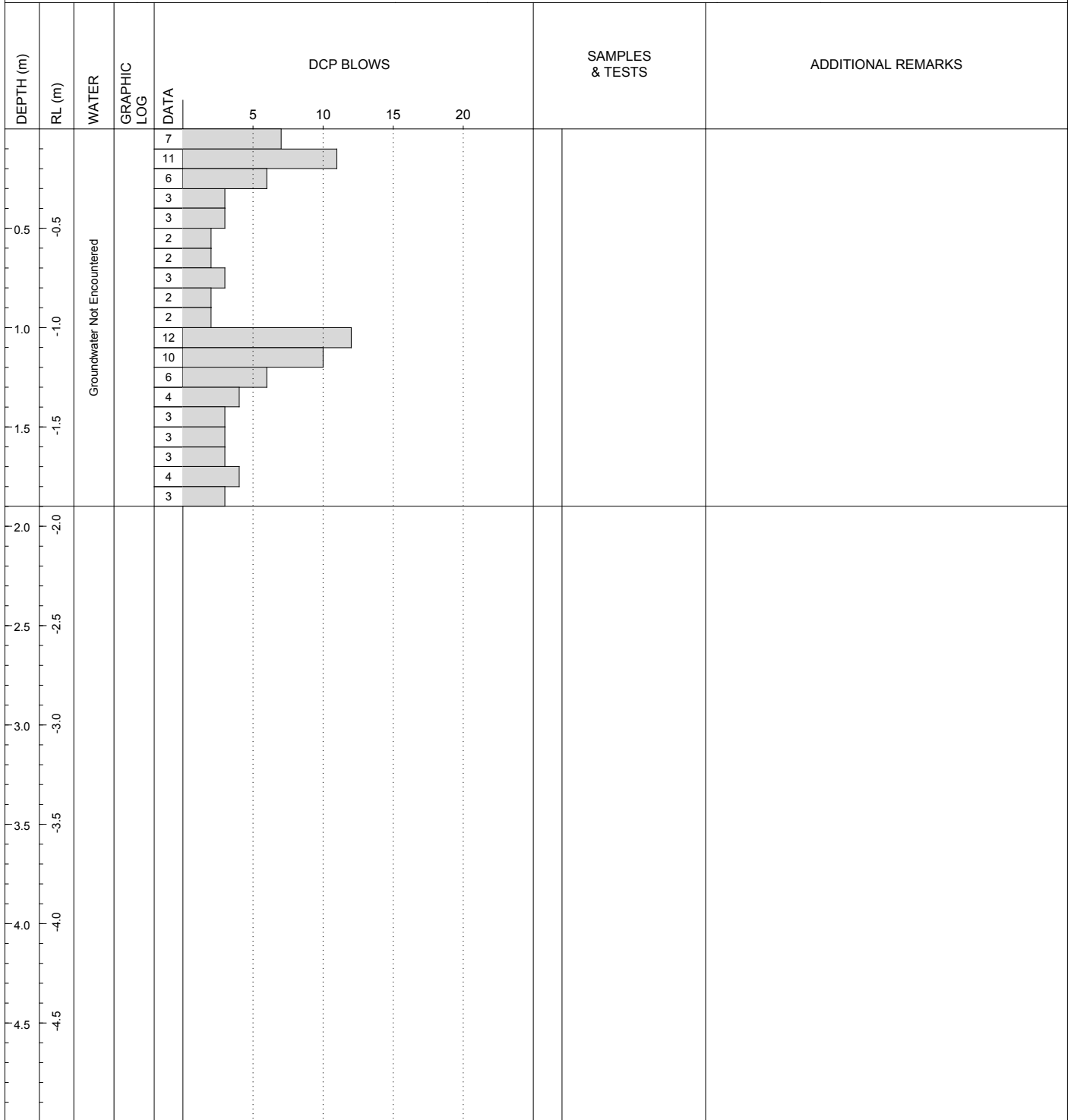
# DCP LOG

Lot 31 DCP02

SHEET 122 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928572.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607651.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

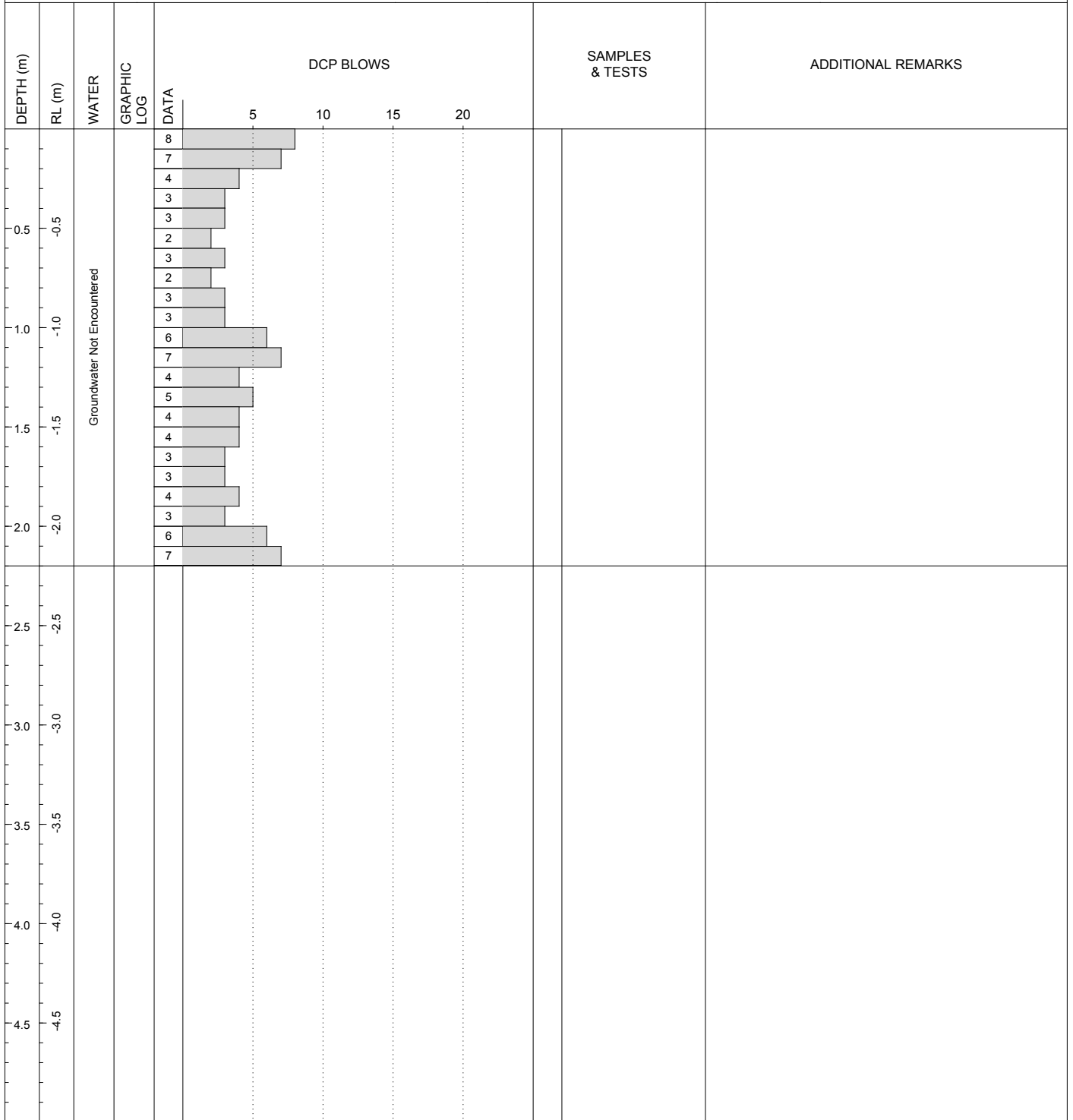
CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stages 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928569.00 NORTHING: 5607649.00 DATUM: ELEVATION: AZUMITH: 0°    PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 15/11/2017 FINISHED: 15/11/2017 LOGGED BY: JB      DATE: 15/11/2017 CHECKED BY: JM     DATE: 24/11/2017 STATUS: Final data
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CONTRACTOR:	MACHINE:	OPERATOR:
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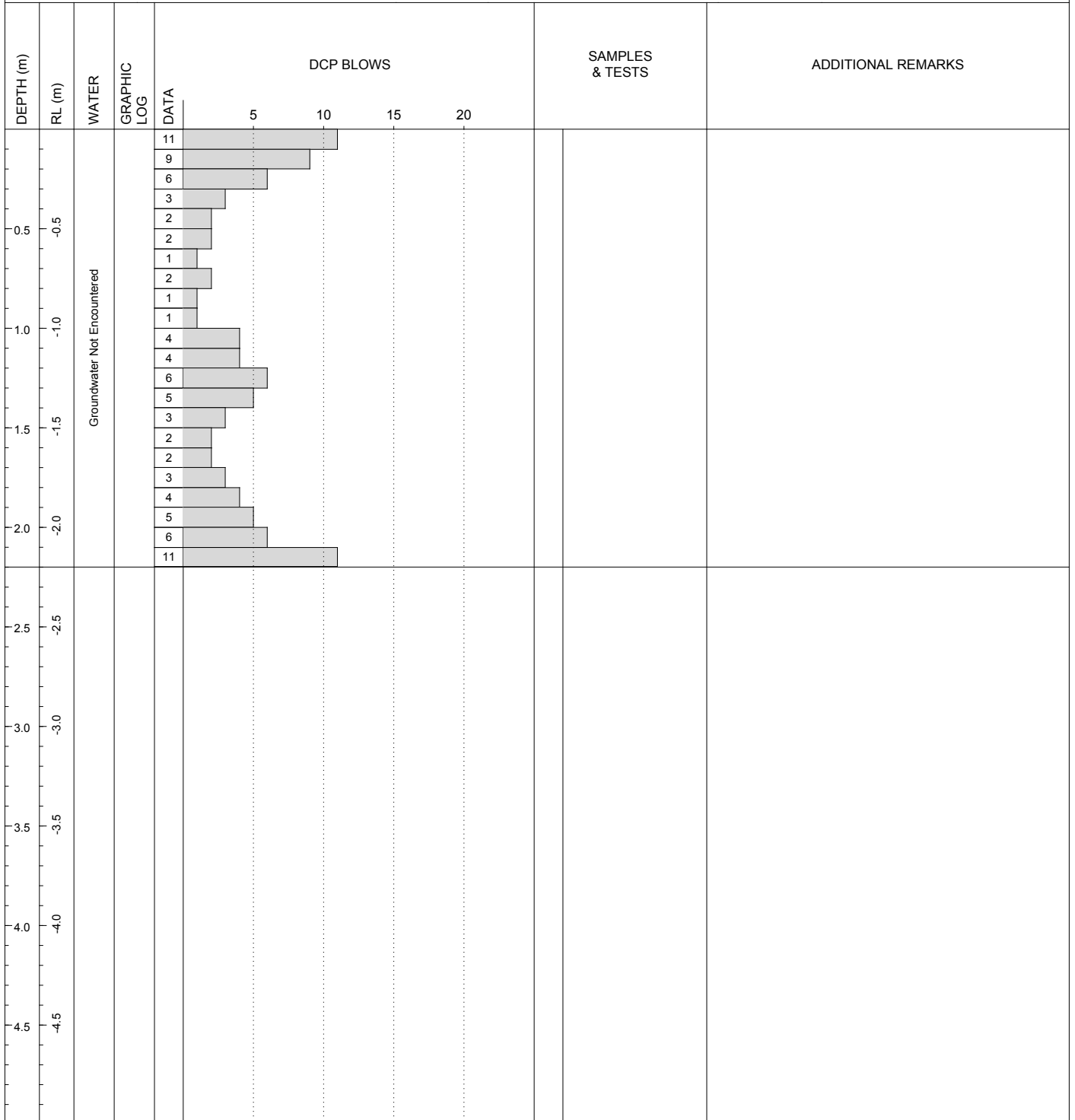


REMARKS	<b>SYMBOLS</b> ▼ Standing Water Level ◁ Out flow ▷ In flow
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CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928563.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607661.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



# HAND AUGER LOG

Lot 32 HA01

SHEET 31 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928512.00	STARTED: 16/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607732.00	FINISHED: 16/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: SLK      DATE: 16/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
				TOPSOIL. Firm; dry.	D	FM				
0.5	-0.5			SILT; medium orangish brown with dark brown silt pockets. Soft; non-plastic; moist; with trace organic silt.						
1.0	-1.0			SILT, with trace clay and sand; medium orangish brown. Soft; non-plastic; moist; trace of sand at 1.2m increasing with depth.	M	S				
1.5	-1.5									
2.0	-2.0			Silty SAND; medium greyish brown. Medium dense; non-plastic; moist; lenses of sand and silt.		MD				
2.0	-2.0			SILT, with trace clay and sand; medium orange brown with trace orange mottle and grey. Soft; low plasticity; moist.		S				
2.5	-2.5			EOH: 2.00m						
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

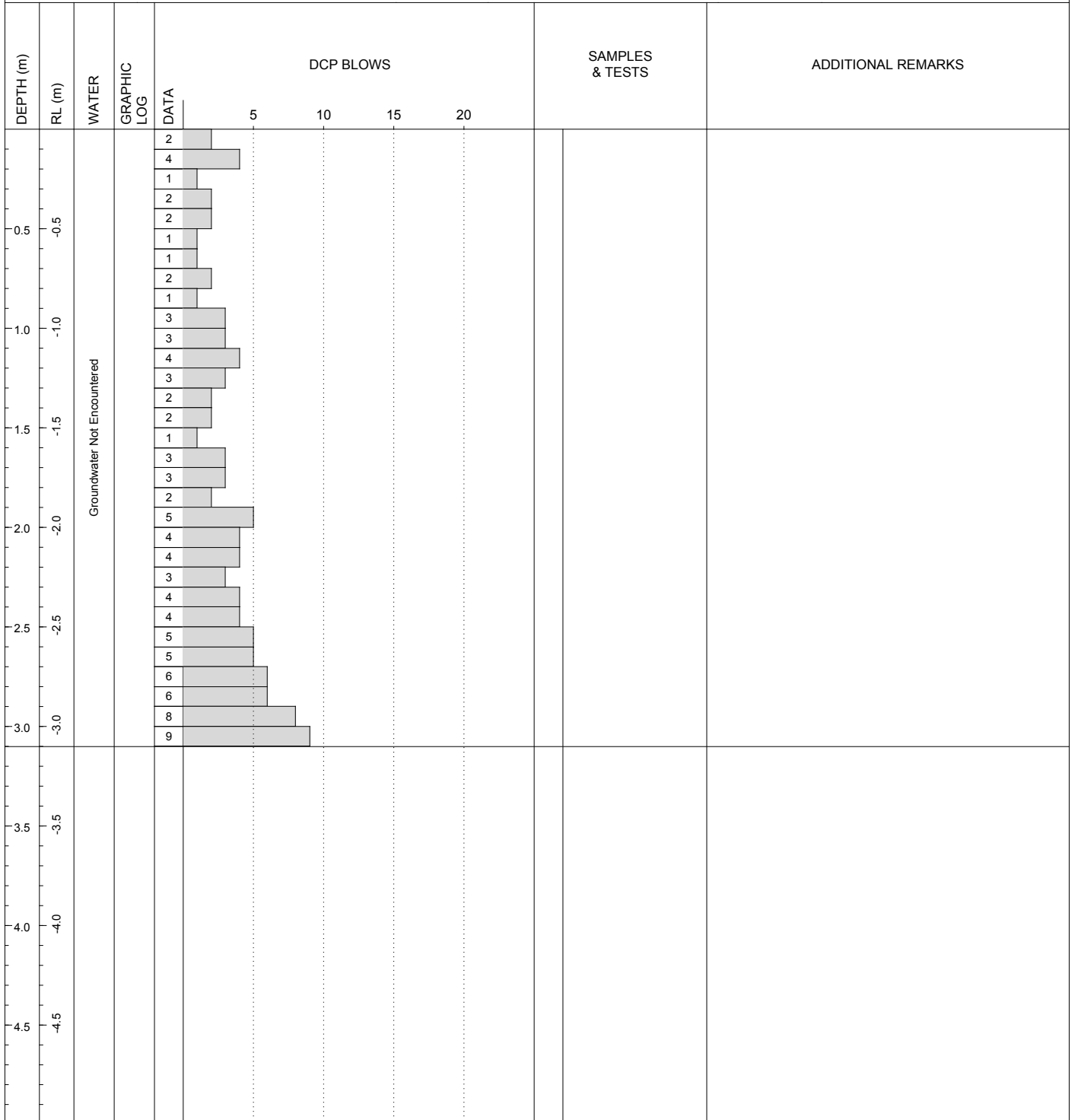
REMARKS

SYMBOLS

- ▼ Standing Water Level
- ◁ Out flow
- ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928525.00	STARTED: 16/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607737.00	FINISHED: 16/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI      DATE: 16/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



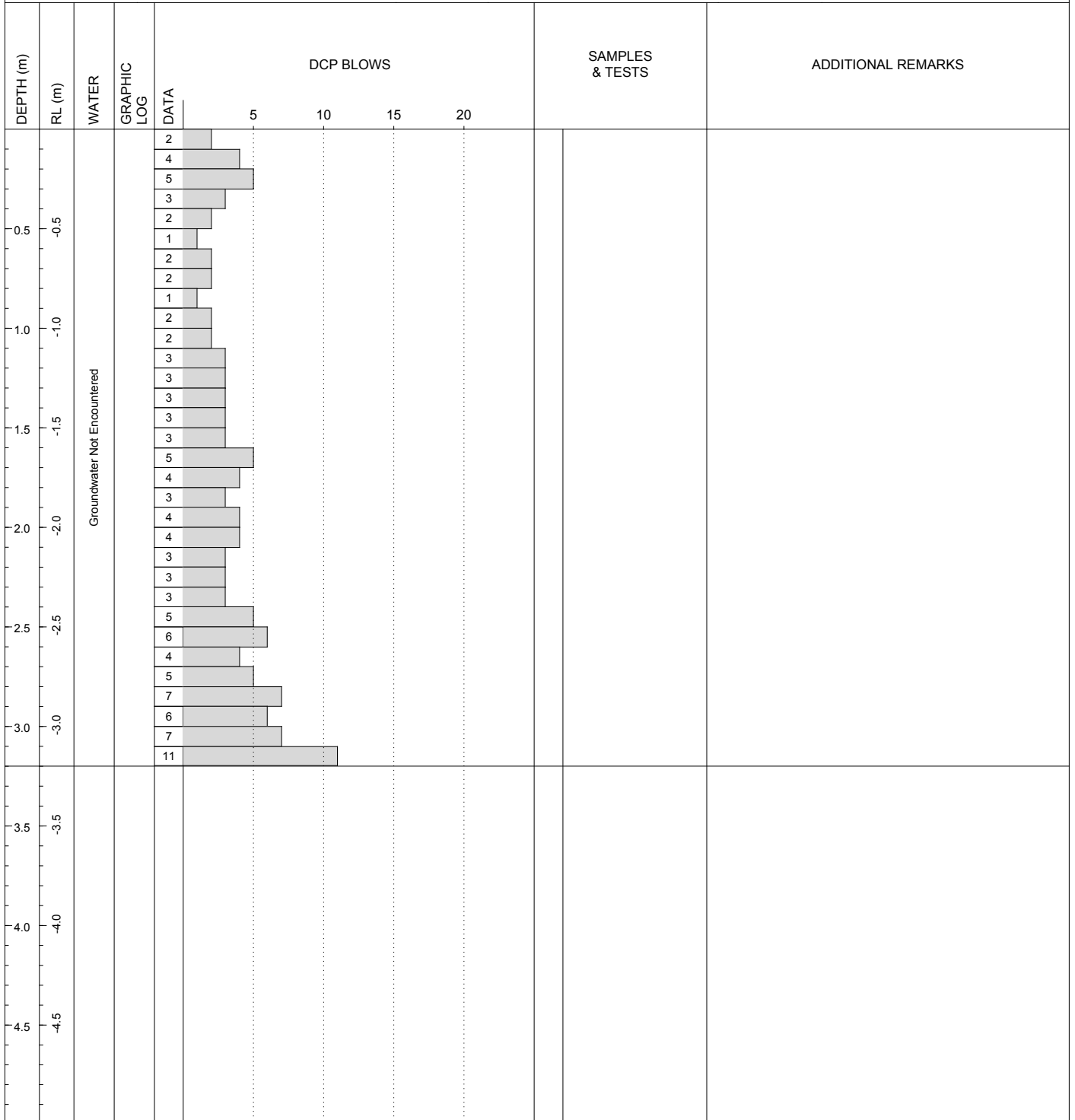
# DCP LOG

Lot 32 DCP02

SHEET 126 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928508.00	STARTED: 16/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607721.00	FINISHED: 16/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI DATE: 16/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

Produced with Core-GS by Geotec



# DCP LOG

Lot 32 DCP03

SHEET 127 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928500.00	STARTED: 16/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607725.00	FINISHED: 16/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI DATE: 16/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
					5 10 15 20		
0.0	-0.5	Groundwater Not Encountered		3			
0.1			2				
0.2			5				
0.3			4				
0.4			2				
0.5			2				
0.6			2				
0.7			1				
0.8			3				
0.9			2				
1.0			3				
1.1			3				
1.2			4				
1.3			3				
1.4			2				
1.5			1				
1.6			3				
1.7			4				
1.8			3				
1.9			4				
2.0			4				
2.1			5				
2.2			6				
2.3			6				
2.4			5				
2.5			4				
2.6			5				
2.7			5				
2.8			8				
2.9							
3.0							
3.1							
3.2							
3.3							
3.4							
3.5							
3.6							
3.7							
3.8							
3.9							
4.0							
4.1							
4.2							
4.3							
4.4							
4.5							

REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928522.00	STARTED: 16/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607744.00	FINISHED: 16/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI      DATE: 16/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.5	Groundwater Not Encountered		4						
0.1	-0.5		5							
0.2	-0.5		3							
0.3	-0.5		3							
0.4	-0.5		2							
0.5	-0.5		1							
0.6	-0.5		2							
0.7	-0.5		1							
0.8	-0.5		1							
0.9	-0.5		2							
1.0	-1.0		2							
1.1	-1.0		2							
1.2	-1.0		2							
1.3	-1.0		2							
1.4	-1.0		2							
1.5	-1.5		3							
1.6	-1.5		2							
1.7	-1.5		3							
1.8	-1.5		3							
1.9	-2.0		4							
2.0	-2.0	4								
2.1	-2.0	4								
2.2	-2.0	5								
2.3	-2.0	5								
2.4	-2.5									
2.5	-2.5									
2.6	-3.0									
2.7	-3.0									
2.8	-3.5									
2.9	-3.5									
3.0	-4.0									
3.1	-4.0									
3.2	-4.5									
3.3	-4.5									
3.4	-4.5									
3.5	-4.5									
3.6	-4.5									
3.7	-4.5									
3.8	-4.5									
3.9	-4.5									
4.0	-4.5									
4.1	-4.5									
4.2	-4.5									
4.3	-4.5									
4.4	-4.5									
4.5	-4.5									

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



# HAND AUGER LOG

Lot 33 HA01

SHEET 32 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928591.00	STARTED: 14/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607759.00	FINISHED: 14/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: CI      DATE: 16/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
				TOPSOIL; light brown.						
0.5	-0.5			SILT, with trace topsoil; medium orangish brown with some dark brown pockets. Soft; non-plastic; moist.						
1.0	-1.0			SILT; medium orangish brown with grey. Soft; non-plastic; moist.	M	S				
1.5	-1.5			Sandy SILT; medium orangish brown with grey. Non-plastic; sand increasing with depth.						
				EOH: 1.40m						
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS

SYMBOLS

- ▼ Standing Water Level
- ⇐ Out flow
- ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928607.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607764.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0				3						
0.1				4						
0.2				2						
0.3				2						
0.4				1						
0.5				2						
0.6				2						
0.7				3						
0.8				2						
0.9				4						
1.0				6						
1.1				6						
1.2				5						
1.3				3						
1.4				3						
1.5				3						
1.6				2						
1.7				3						
1.8				3						
1.9				4						
2.0				2						
2.1				4						
2.2				5						
2.3				5						
2.4				5						
2.5				4						
2.6				6						
2.7				8						
2.8										
2.9										
3.0										
3.1										
3.2										
3.3										
3.4										
3.5										
3.6										
3.7										
3.8										
3.9										
4.0										
4.1										
4.2										
4.3										
4.4										
4.5										

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow





# DCP LOG

Lot 33 DCP02

SHEET 130 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928397.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607750.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

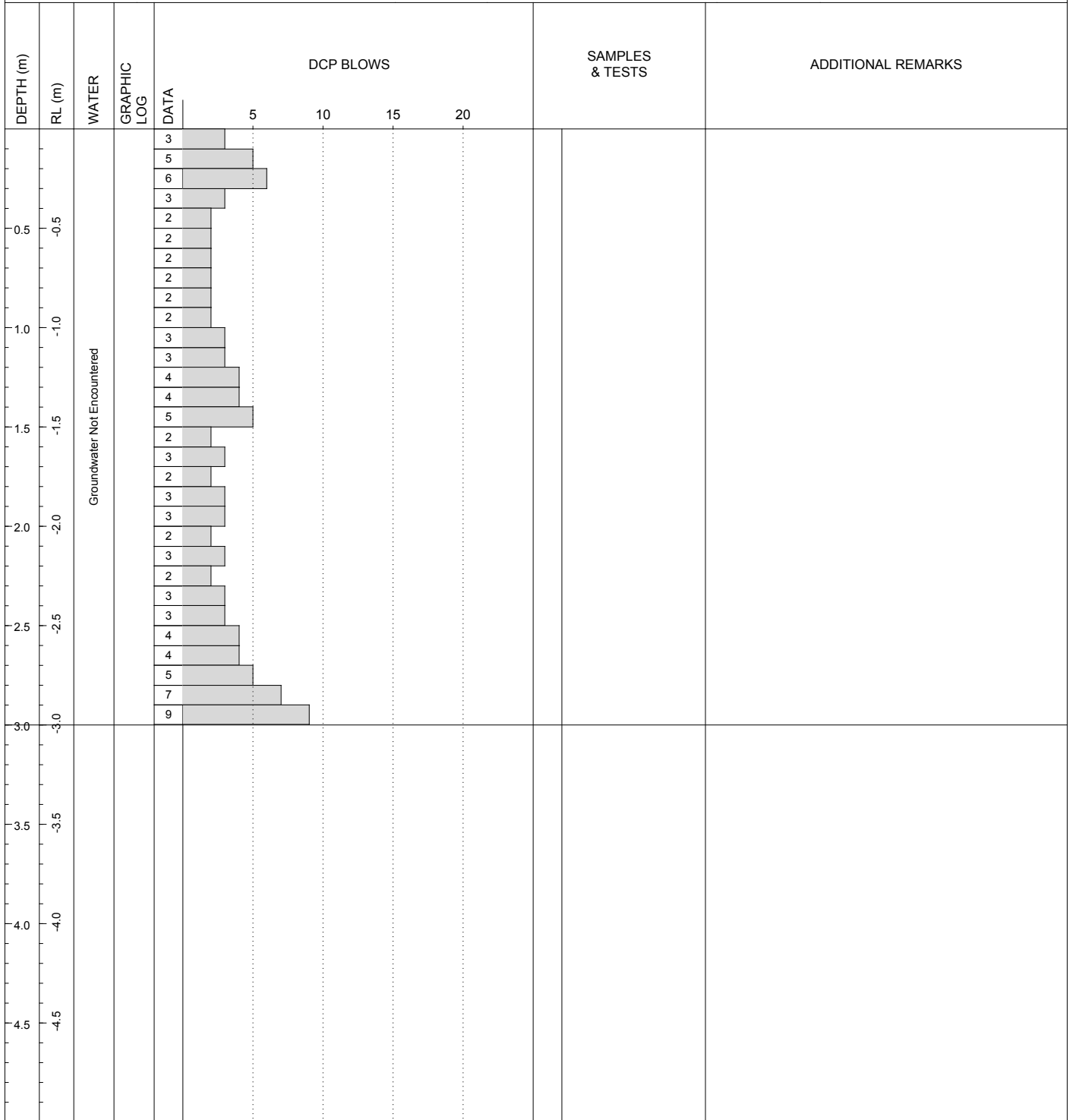
CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0				4						
0.1				3						
0.2				5						
0.3				3						
0.4				2						
0.5				2						
0.6				2						
0.7				2						
0.8				1						
0.9				2						
1.0				3						
1.1				3						
1.2				3						
1.3				4						
1.4				4						
1.5				2						
1.6				2						
1.7				3						
1.8				2						
1.9				2						
2.0				2						
2.1				4						
2.2				6						
2.3				6						
2.4				4						
2.5				5						
2.6				5						
2.7				6						
2.8				7						
2.9										
3.0										
3.1										
3.2										
3.3										
3.4										
3.5										
3.6										
3.7										
3.8										
3.9										
4.0										
4.1										
4.2										
4.3										
4.4										
4.5										

REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928585.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607761.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

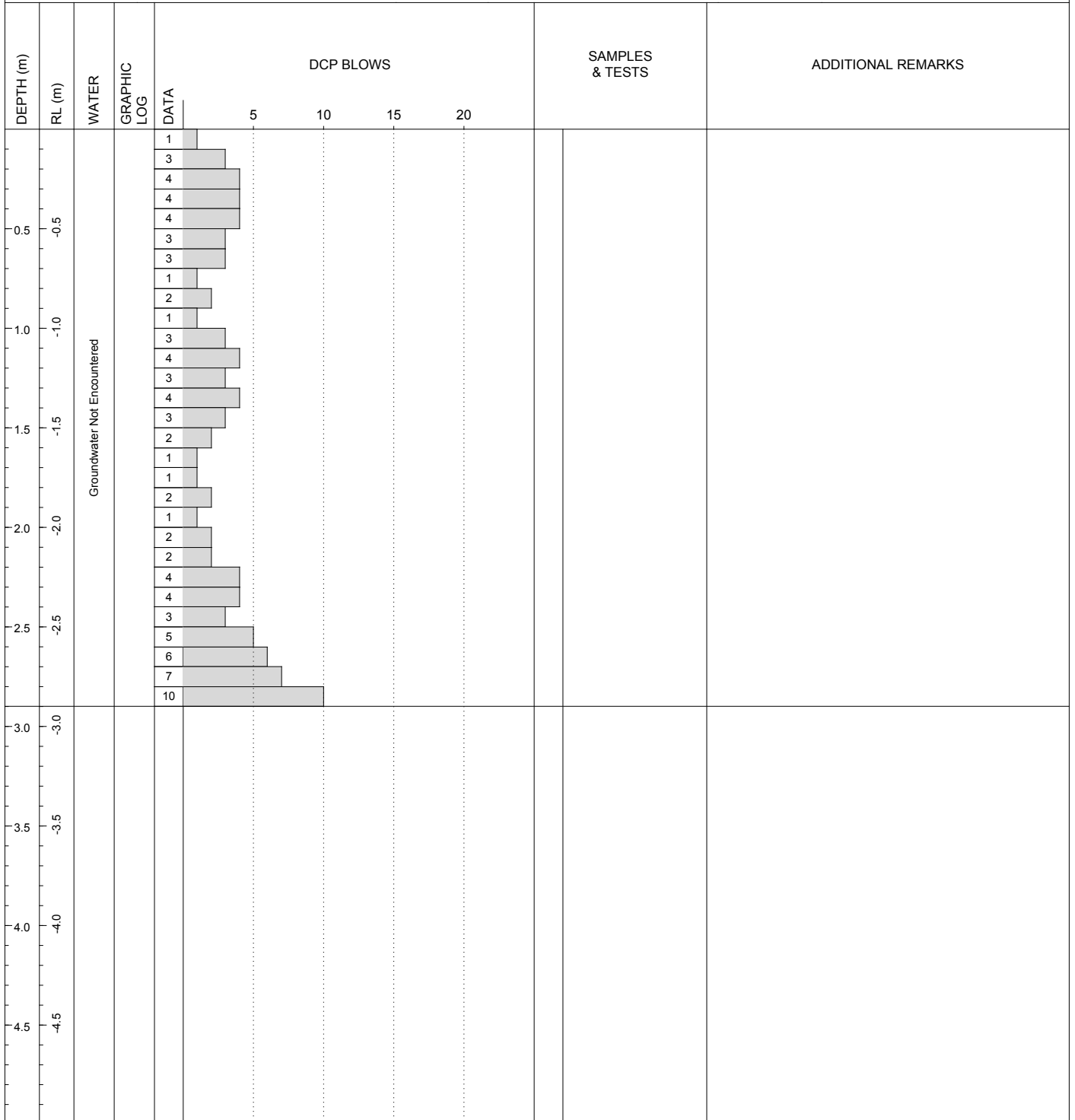
CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>⊠ Out flow</li> <li>▷ In flow</li> </ul>

CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stage 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928596.00 NORTHING: 5607769.00 DATUM: ELEVATION: AZUMITH: 0°    PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 15/11/2017 FINISHED: 15/11/2017 LOGGED BY: JB      DATE: 15/11/2017 CHECKED BY: JM     DATE: 24/11/2017 STATUS: Final data
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CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	<b>SYMBOLS</b> ▼ Standing Water Level ◁ Out flow ▷ In flow
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# HAND AUGER LOG

Lot 34 HA01

SHEET 33 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928578.00	STARTED: 16/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607747.00	FINISHED: 16/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: CI      DATE: 16/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 24/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.0	-0.5			TOPSOIL; light brown.						
0.5	-1.0			SILT; medium orangish brown. Soft; non-plastic; with trace organic silt (pockets).						
1.0	-1.5			SILT, with trace rootlets; medium orangish brown with trace orange mottle. Soft; non-plastic; moist.	M	S				
1.40	-1.5			EOH: 1.40m						
1.5	-2.0									
2.0	-2.5									
2.5	-3.0									
3.0	-3.5									
3.5	-4.0									
4.0	-4.5									
4.5										

REMARKS

- SYMBOLS
- Standing Water Level
  - Out flow
  - In flow



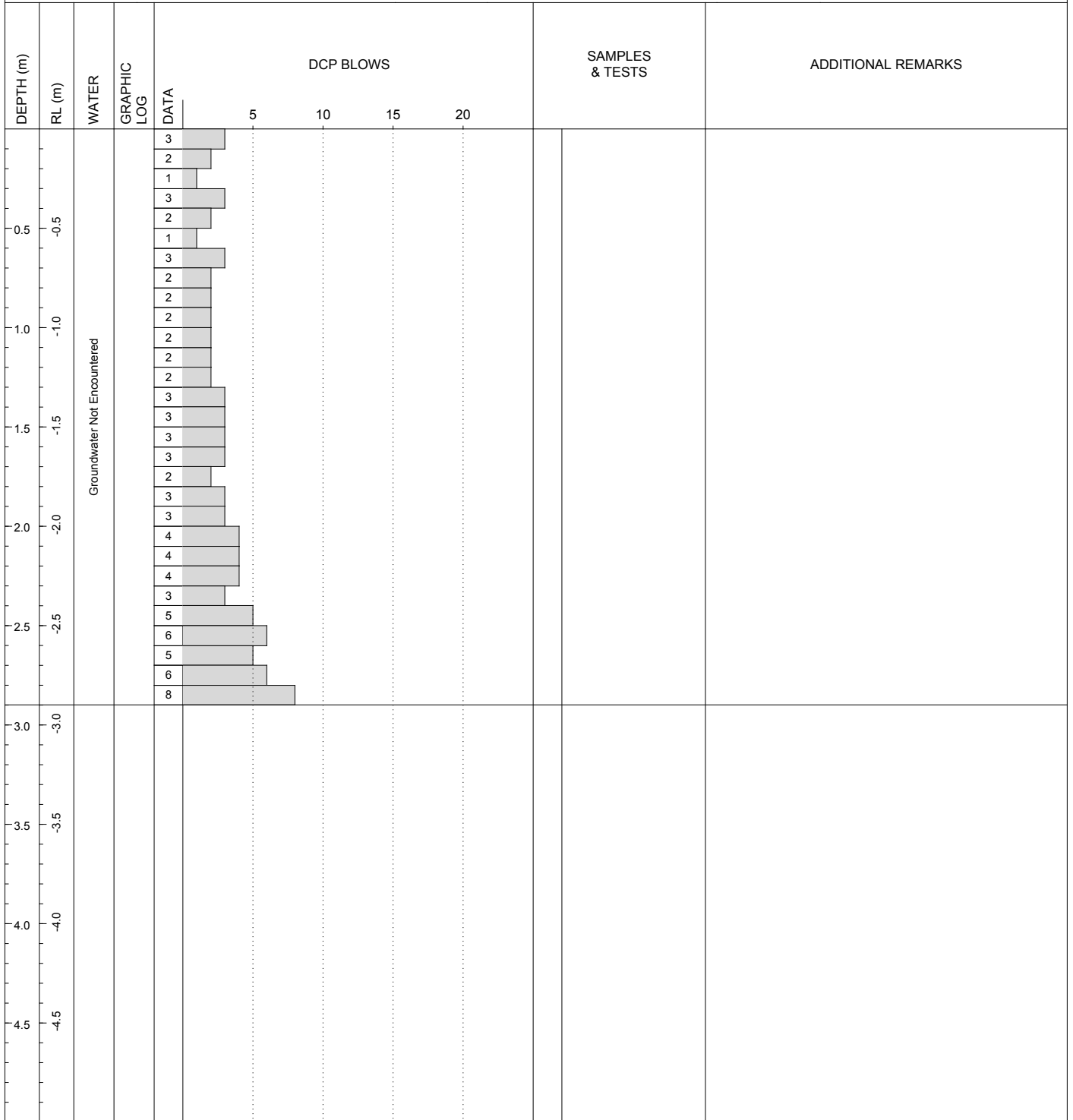
# DCP LOG

Lot 34 DCP01

SHEET 133 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928596.00	STARTED: 14/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607748.00	FINISHED: 14/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928578.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607734.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
					5      10      15      20		
0.0	-0.5	Groundwater Not Encountered		5			
0.1	-0.6		2				
0.2	-0.7		2				
0.3	-0.8		2				
0.4	-0.9		1				
0.5	-1.0		2				
0.6	-1.1		3				
0.7	-1.2		3				
0.8	-1.3		3				
0.9	-1.4		1				
1.0	-1.5		2				
1.1	-1.6		3				
1.2	-1.7		3				
1.3	-1.8		3				
1.4	-1.9		3				
1.5	-2.0		3				
1.6	-2.1		3				
1.7	-2.2		3				
1.8	-2.3		3				
1.9	-2.4		3				
2.0	-2.5		3				
2.1	-2.6		3				
2.2	-2.7		3				
2.3	-2.8		4				
2.4	-2.9		5				
2.5	-3.0		6				
2.6	-3.1		8				
2.7	-3.2						
2.8	-3.3						
2.9	-3.4						
3.0	-3.5						
3.1	-3.6						
3.2	-3.7						
3.3	-3.8						
3.4	-3.9						
3.5	-4.0						
3.6	-4.1						
3.7	-4.2						
3.8	-4.3						
3.9	-4.4						
4.0	-4.5						

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stages 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928568.00 NORTHING: 5607750.00 DATUM: ELEVATION: AZUMITH: 0°    PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 15/11/2017 FINISHED: 15/11/2017 LOGGED BY: JB      DATE: 15/11/2017 CHECKED BY: JM      DATE: 24/11/2017 STATUS: Final data
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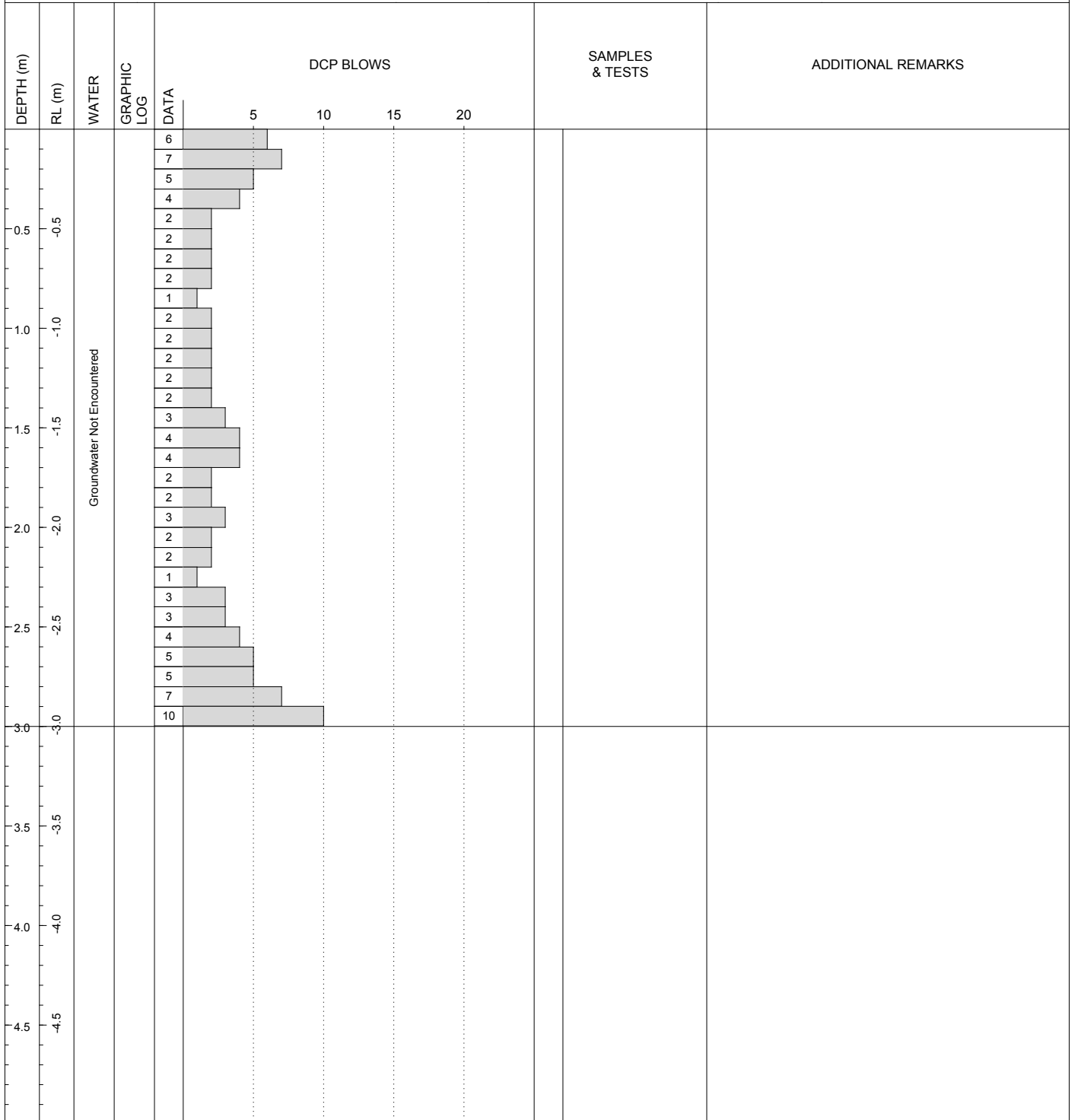
CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
					5    10    15    20		
0.5	-0.5	Groundwater Not Encountered		3			
				2			
				2			
				2			
				3			
				1			
				1			
				3			
1.0	-1.0			2			
				2			
				3			
				3			
				3			
				3			
				3			
				3			
				3			
				4			
				5			
2.0	-2.0		3				
			4				
			4				
			5				
			5				
			6				
2.5	-2.5		6				
			6				
			7				
			9				
3.0	-3.0						
3.5	-3.5						
4.0	-4.0						
4.5	-4.5						

REMARKS	SYMBOLS ▼ Standing Water Level ◁ Out flow ▷ In flow
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CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928577.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607760.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow





# HAND AUGER LOG

Lot 35 HA01

SHEET 34 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928566.00	STARTED: 16/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607735.00	FINISHED: 16/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: CI      DATE: 16/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
				TOPSOIL; light brown. Firm.		FM				
0.5	-0.5			SILT; medium orangish brown with grey. Soft; non-plastic; moist.	M	S				
1.5	-1.5			EOH: 1.50m						
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS

- SYMBOLS
- ▼ Standing Water Level
  - ⇐ Out flow
  - ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928571.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607734.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.5	Groundwater Not Encountered		3						
0.1	-0.5		2							
0.2	-0.5		3							
0.3	-0.5		2							
0.4	-0.5		2							
0.5	-0.5		2							
0.6	-0.5		2							
0.7	-0.5		3							
0.8	-0.5		1							
0.9	-1.0		2							
1.0	-1.0		2							
1.1	-1.0		2							
1.2	-1.0		3							
1.3	-1.0		3							
1.4	-1.5		2							
1.5	-1.5		2							
1.6	-1.5		2							
1.7	-1.5		3							
1.8	-1.5		2							
1.9	-2.0		1							
2.0	-2.0		2							
2.1	-2.0		3							
2.2	-2.0		2							
2.3	-2.5		3							
2.4	-2.5		3							
2.5	-2.5		3							
2.6	-2.5		3							
2.7	-2.5		3							
2.8	-2.5	5								
2.9	-2.5	10								
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



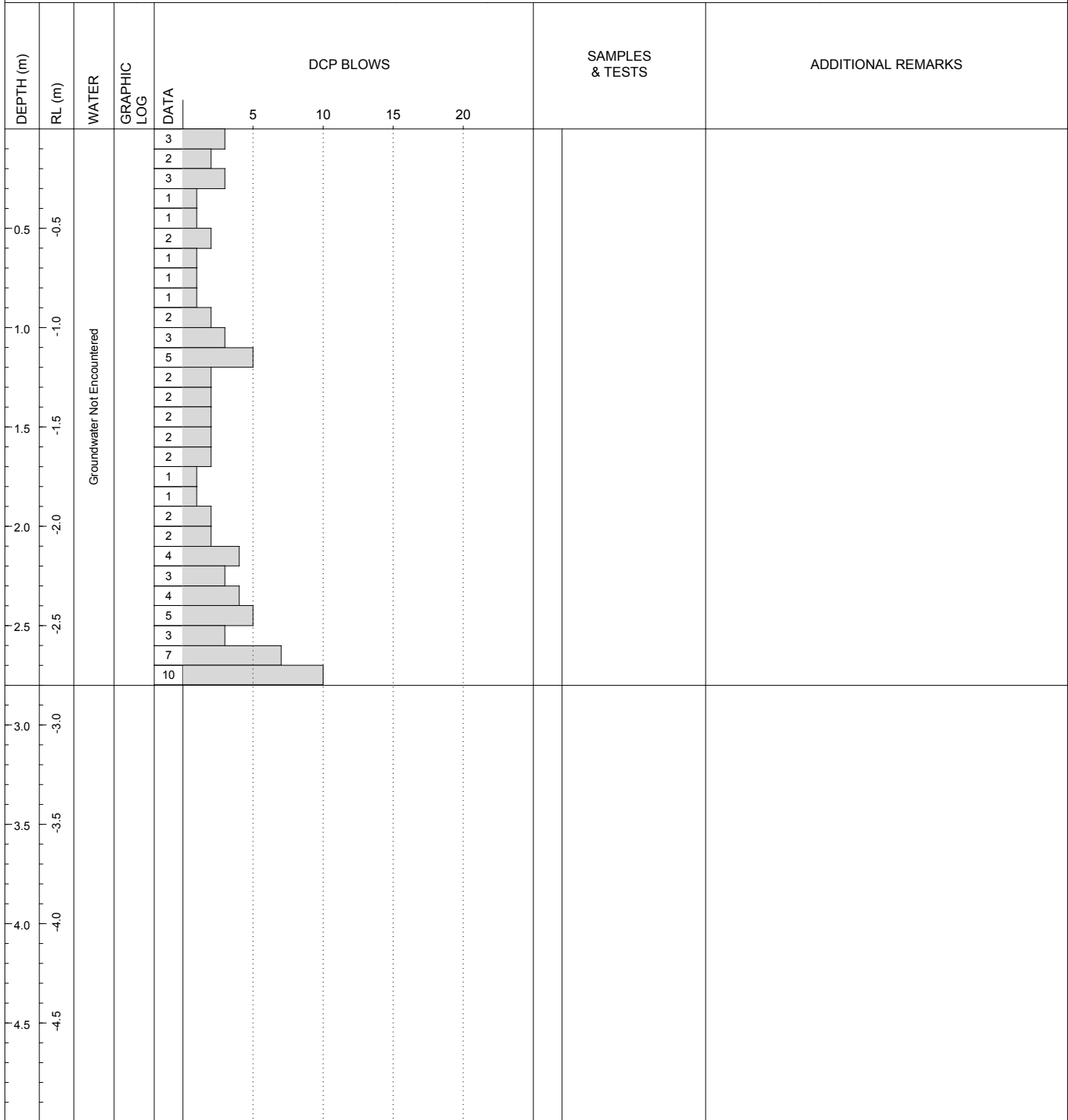
# DCP LOG

Lot 35 DCP02

SHEET 138 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928565.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607723.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

Produced with Core-GS by Geoc



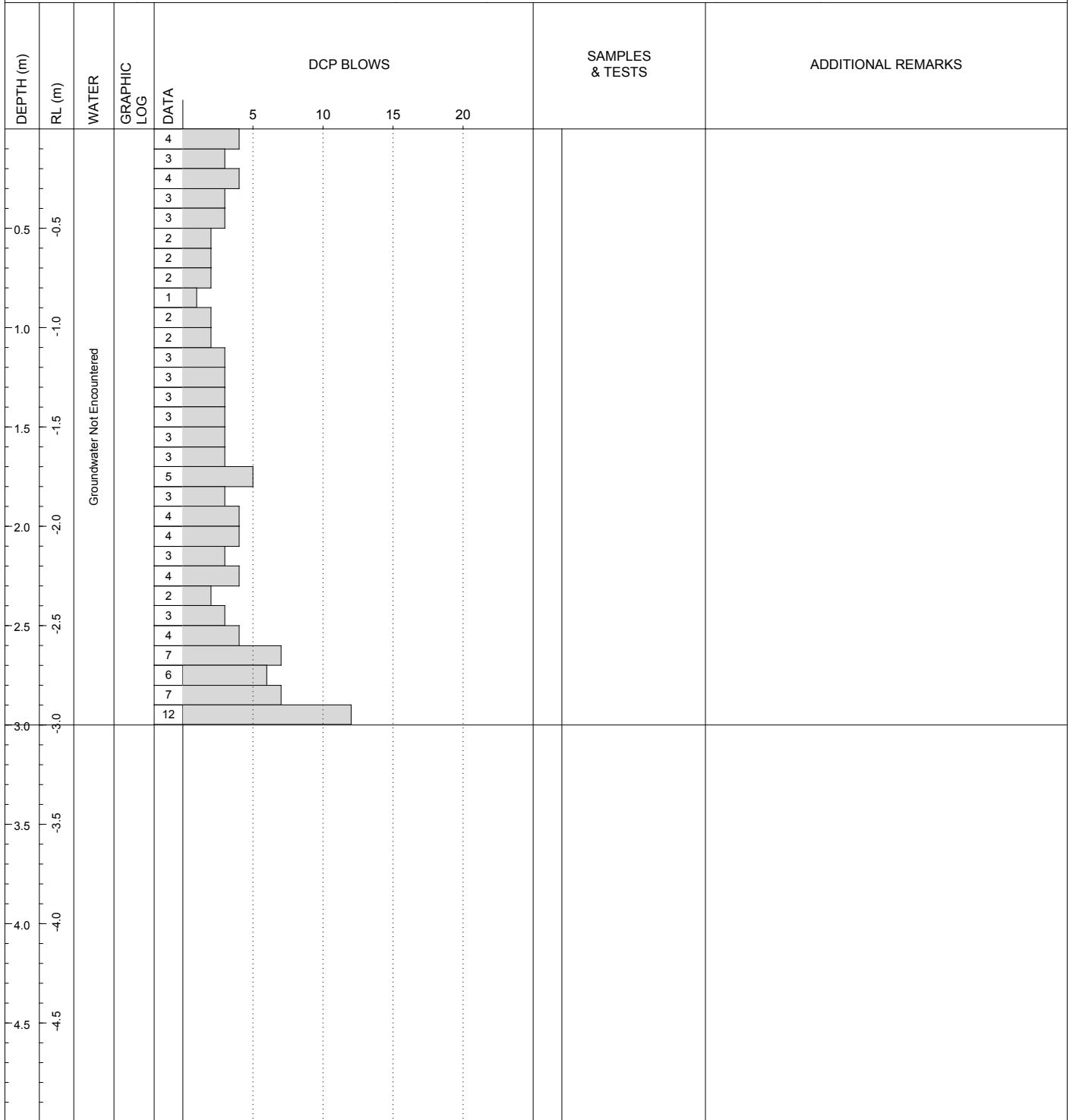
# DCP LOG

Lot 35 DCP03

SHEET 139 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stage 3-5	EASTING: 1928556.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607738.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928560.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607745.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.5	-0.5	Groundwater Not Encountered		4						
			5							
			5							
			3							
			2							
			1							
			2							
			2							
			2							
1.0	-1.0				3					
					3					
					5					
					5					
					4					
					2					
					3					
					1					
					1					
					2					
					3					
				3						
				4						
				3						
				5						
				4						
				2						
				7						
				10						
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



# HAND AUGER LOG

Lot 36 HA01

SHEET 35 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928549.00	STARTED: 16/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5067717.00	FINISHED: 16/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: CI      DATE: 16/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

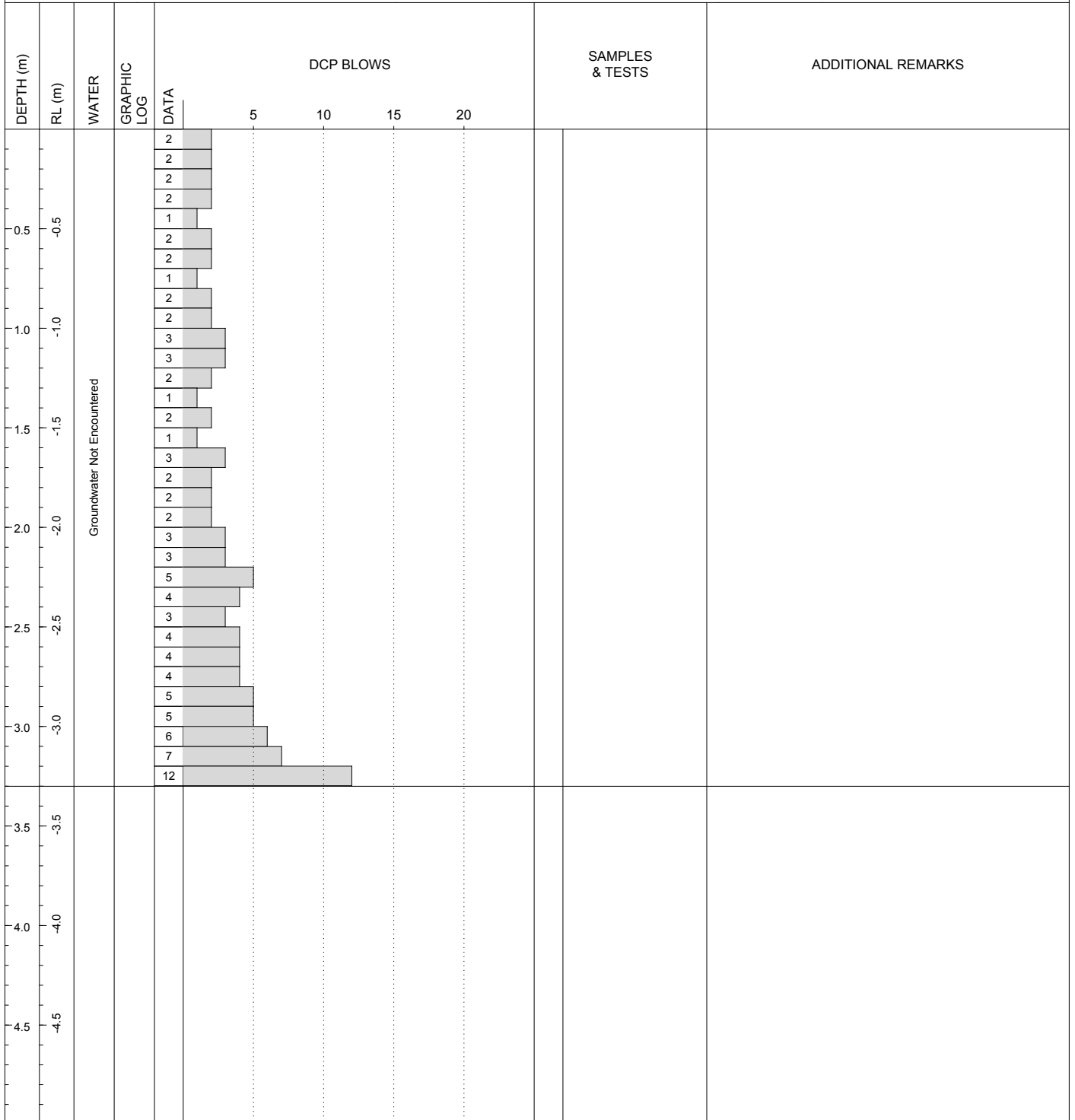
DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.0	-0.5			TOPSOIL; light brown. Firm.		FM				
0.5	-1.0			SILT, with trace sand; medium orangish brown. Sand decreases with depth.						
1.0	-1.5									
1.3	-1.8			EOH: 1.30m						
1.5	-2.0									
2.0	-2.5									
2.5	-3.0									
3.0	-3.5									
3.5	-4.0									
4.0	-4.5									
4.5	-5.0									

REMARKS

- SYMBOLS
- Standing Water Level
  - Out flow
  - In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stage 3-5	EASTING: 1928557.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607721.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

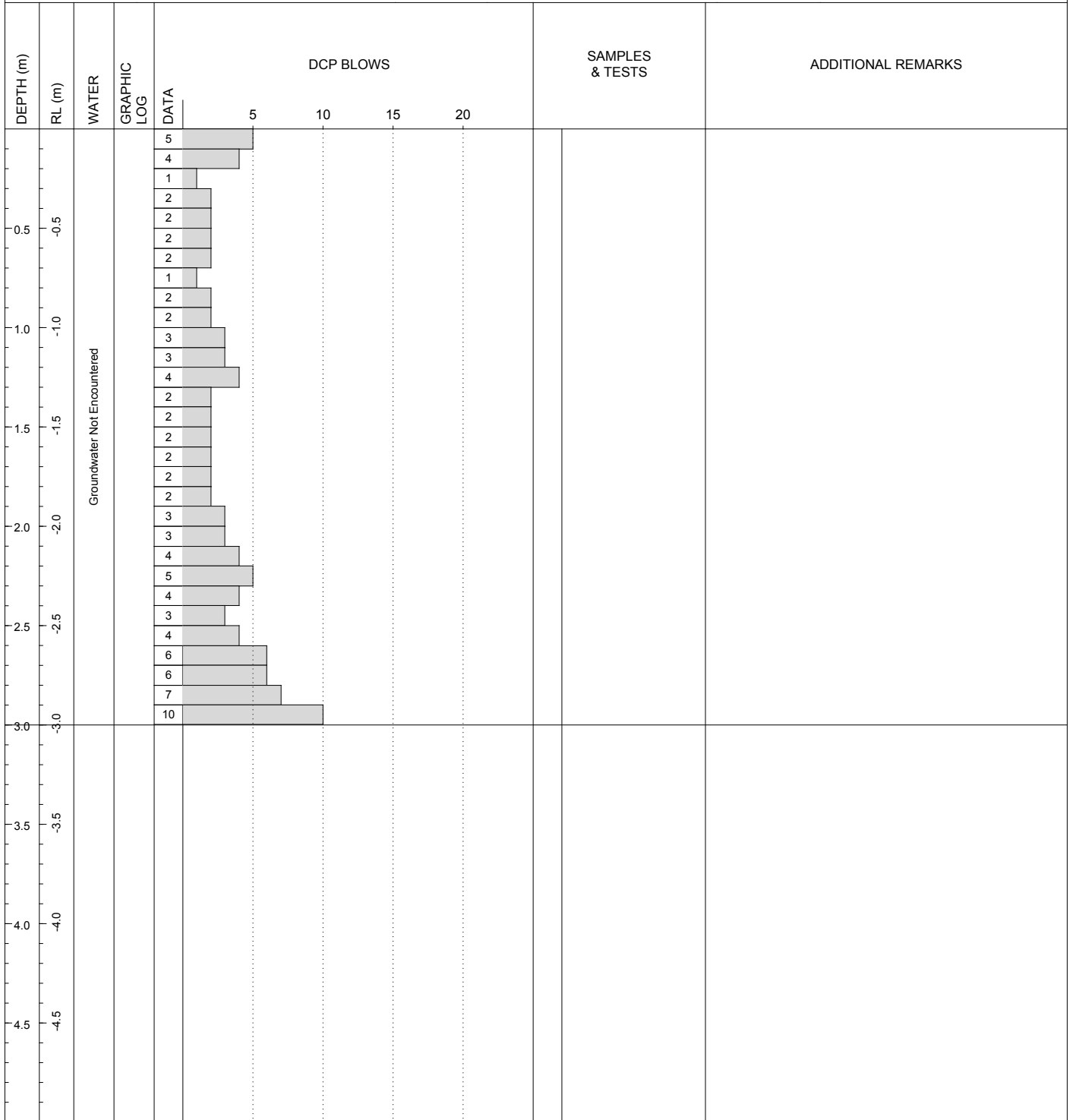
CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928550.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607710.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stage 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928545.00 NORTHING: 5607728.00 DATUM: ELEVATION: AZUMITH: 0°    PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 15/11/2017 FINISHED: 15/11/2017 LOGGED BY: JB      DATE: 15/11/2017 CHECKED BY: JM     DATE: 24/11/2017 STATUS: Final data
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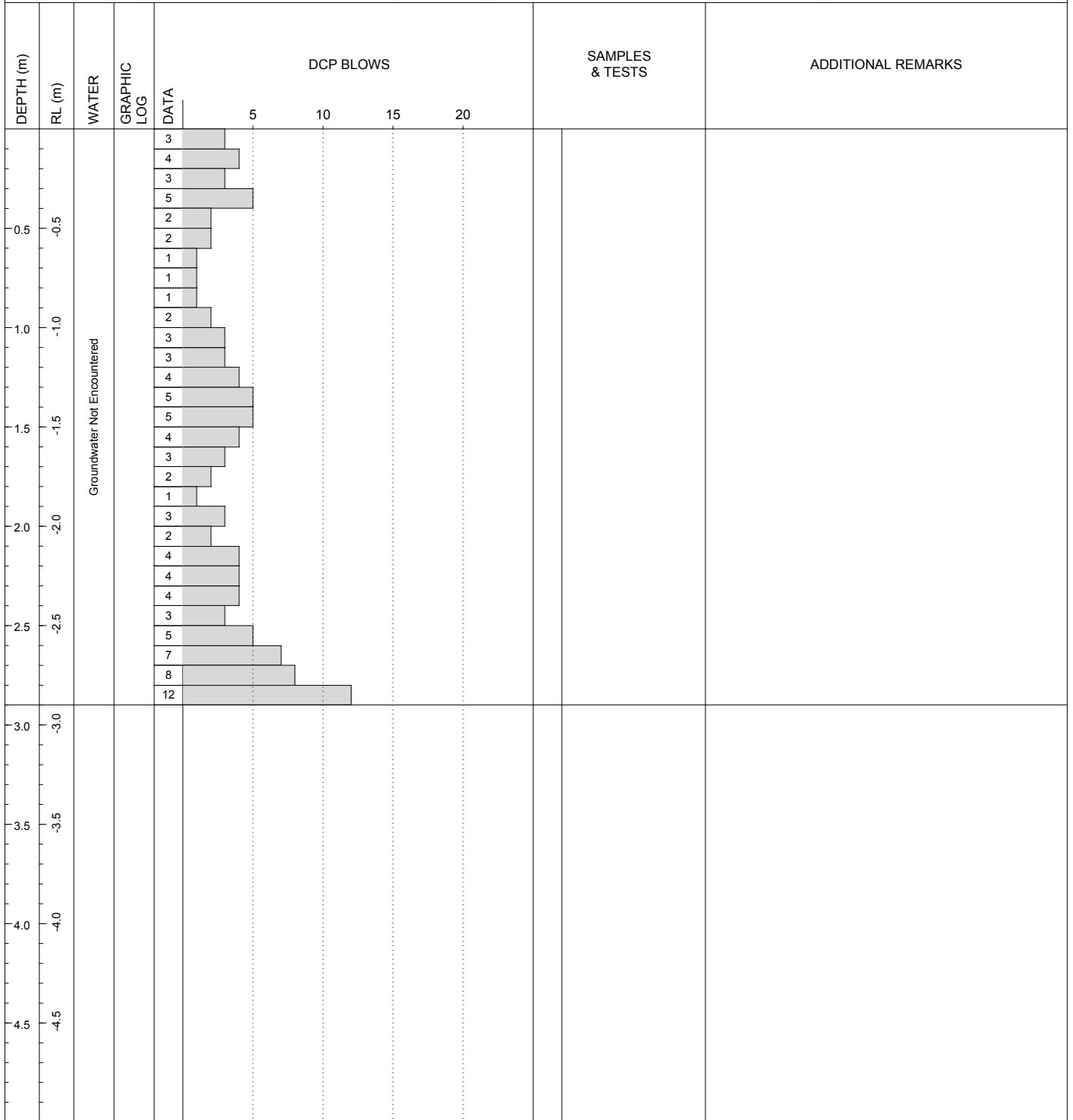
CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.5	-0.5	Groundwater Not Encountered		4						
			6							
			4							
			3							
			3							
			1							
			2							
			2							
			1							
1.0	-1.0				2					
					3					
					2					
					2					
					4					
					4					
1.5	-1.5				5					
					5					
					4					
					3					
					4					
				4						
2.0	-2.0			5						
				4						
				3						
				4						
				4						
2.5	-2.5			5						
				6						
				6						
				8						
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS	<b>SYMBOLS</b> ▼ Standing Water Level ◁ Out flow ▷ In flow
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CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928547.00	STARTED: 15/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607733.00	FINISHED: 15/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 15/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



# HAND AUGER LOG

Lot 37 HA01

SHEET 36 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928533.00	STARTED: 16/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607713.00	FINISHED: 16/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: CI      DATE: 16/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 20/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
				Topsoil; light brown. Firm.		FM				
0.5	-0.5			SILT; medium orangish brown, trace orange mottle. Soft; non-plastic; moist; sand increases with depth.						
1.0	-1.0				M	S				
1.5	-1.5									
				EOH: 1.80m						
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS

- SYMBOLS
- ▼ Standing Water Level
  - ⇐ Out flow
  - ▷ In flow

CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stage 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928544.00 NORTHING: 5607710.00 DATUM: ELEVATION: AZUMITH: 0° PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 16/11/2017 FINISHED: 16/11/2017 LOGGED BY: JB DATE: 16/11/2017 CHECKED BY: JM DATE: 24/11/2017 STATUS: Final data
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CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.5	-0.5	Groundwater Not Encountered		4						
				6						
				3						
				3						
				1						
				1						
				1						
				2						
				1						
				2						
1.0	-1.0			2						
				3						
				4						
				3						
				2						
				2						
1.5	-1.5			3						
				6						
				4						
			6							
2.0	-2.0		7							
			9							
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS	<b>SYMBOLS</b> ▼ Standing Water Level ◁ Out flow ▷ In flow
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CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stages 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928530.00 NORTHING: 5607706.00 DATUM: ELEVATION: AZUMITH: 0°    PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley Frimley STARTED: 16/11/2017 FINISHED: 16/11/2017 LOGGED BY: JB      DATE: 16/11/2017 CHECKED BY: JM     DATE: 24/11/2017 STATUS: Final data
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CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.1	Groundwater Not Encountered		5						
0.1	-0.2		5							
0.2	-0.3		3							
0.3	-0.4		3							
0.4	-0.5		2							
0.5	-0.6		2							
0.6	-0.7		3							
0.7	-0.8		2							
0.8	-0.9		3							
0.9	-1.0		2							
1.0	-1.1		3							
1.1	-1.2		4							
1.2	-1.3		3							
1.3	-1.4		3							
1.4	-1.5		2							
1.5	-1.6		3							
1.6	-1.7		2							
1.7	-1.8		2							
1.8	-1.9		4							
1.9	-2.0		7							

REMARKS	<b>SYMBOLS</b> ▼ Standing Water Level ◁ Out flow ▷ In flow
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CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928515.00	STARTED: 16/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607712.00	FINISHED: 16/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 16/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.5	Groundwater Not Encountered		4						
0.1	-0.5		5							
0.2	-0.5		6							
0.3	-0.5		3							
0.4	-0.5		2							
0.5	-0.5		2							
0.6	-0.5		2							
0.7	-0.5		2							
0.8	-0.5		2							
0.9	-0.5		3							
1.0	-1.0		3							
1.1	-1.0		4							
1.2	-1.0		5							
1.3	-1.0		3							
1.4	-1.0		3							
1.5	-1.5		3							
1.6	-1.5		3							
1.7	-1.5		4							
1.8	-1.5		8							
1.9	-2.0									
2.0	-2.0									
2.1	-2.0									
2.2	-2.0									
2.3	-2.5									
2.4	-2.5									
2.5	-2.5									
2.6	-2.5									
2.7	-3.0									
2.8	-3.0									
2.9	-3.0									
3.0	-3.0									
3.1	-3.5									
3.2	-3.5									
3.3	-3.5									
3.4	-3.5									
3.5	-4.0									
3.6	-4.0									
3.7	-4.0									
3.8	-4.0									
3.9	-4.5									
4.0	-4.5									
4.1	-4.5									
4.2	-4.5									
4.3	-4.5									
4.4	-4.5									
4.5	-4.5									

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928534.00	STARTED: 16/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607725.00	FINISHED: 16/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 16/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.5	Groundwater Not Encountered		5						
0.1	-0.5		5							
0.2	-0.5		4							
0.3	-0.5		3							
0.4	-0.5		3							
0.5	-0.5		2							
0.6	-0.5		2							
0.7	-0.5		1							
0.8	-0.5		2							
0.9	-0.5		3							
1.0	-1.0		3							
1.1	-1.0		3							
1.2	-1.0		5							
1.3	-1.0		3							
1.4	-1.0		5							
1.5	-1.5		3							
1.6	-1.5		4							
1.7	-1.5		3							
1.8	-1.5		4							
1.9	-2.0		3							
2.0	-2.0	5								
2.1	-2.0	9								
2.2	-2.5									
2.3	-2.5									
2.4	-3.0									
2.5	-3.0									
2.6	-3.5									
2.7	-3.5									
2.8	-4.0									
2.9	-4.0									
3.0	-4.5									
3.1	-4.5									
3.2	-4.5									
3.3	-4.5									
3.4	-4.5									
3.5	-4.5									
3.6	-4.5									
3.7	-4.5									
3.8	-4.5									
3.9	-4.5									
4.0	-4.5									
4.1	-4.5									
4.2	-4.5									
4.3	-4.5									
4.4	-4.5									
4.5	-4.5									

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



# HAND AUGER LOG

Lot 38 HA01

SHEET 37 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928502.00	STARTED: 22/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607701.00	FINISHED: 22/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: PGR      DATE: 22/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 24/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.0				TOPSOIL; dark brown. Soft; dry; trace rootlets.		S				
0.5	-0.5			Clayey SILT; light brown. Firm; low plasticity; dry.	D	FM				
1.0	-1.0			Clayey SILT; light brown, orange mottle. Soft; low plasticity; moist; increasing clay content with depth.	M	S				
1.5	-1.5			EOH: 1.50m						
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS

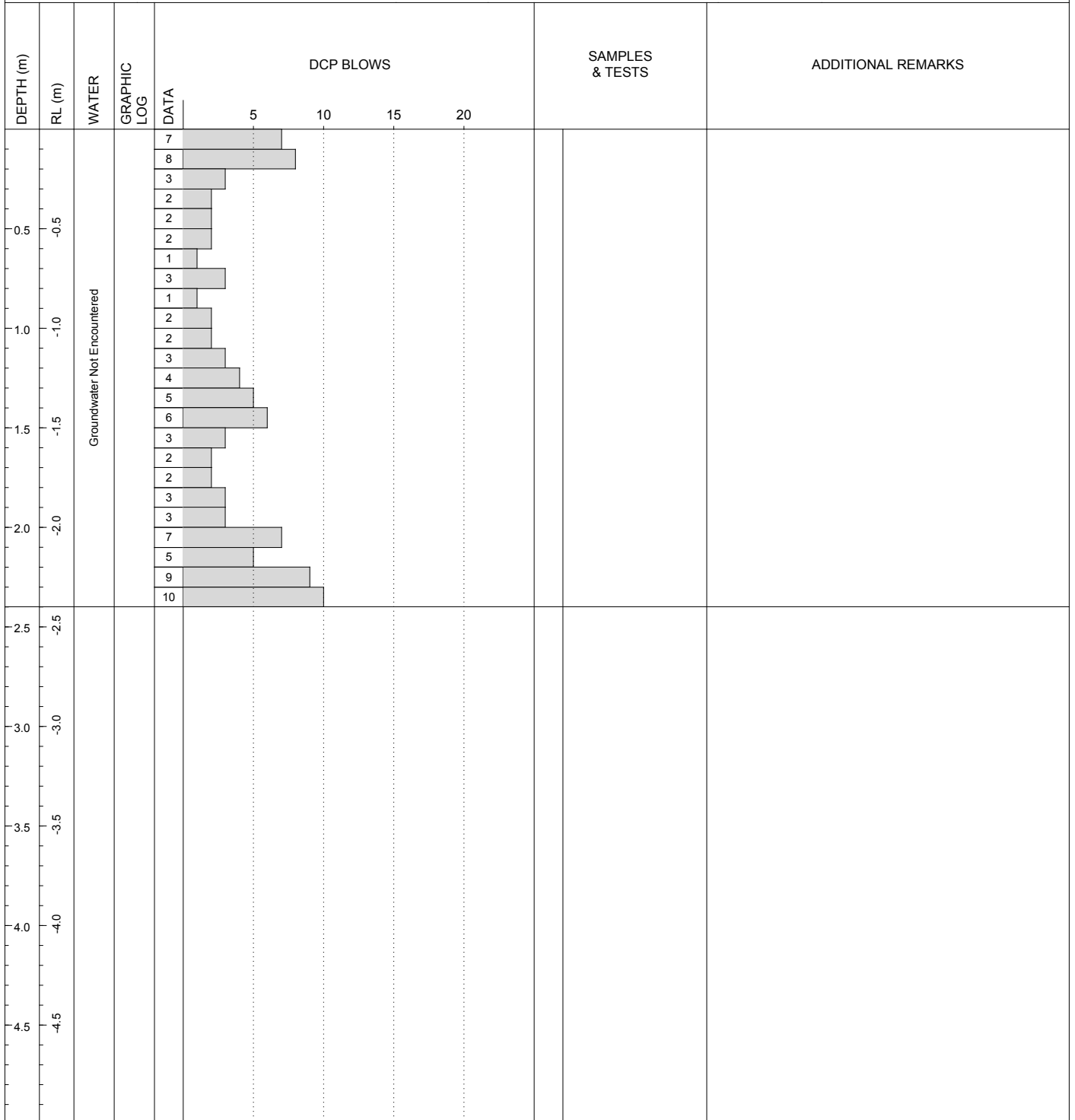
SYMBOLS

- ▼ Standing Water Level
- ◁ Out flow
- ▷ In flow



CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stages 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928514.00 NORTHING: 5607704.00 DATUM: ELEVATION: AZUMITH: 0° PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 10/11/2017 FINISHED: 10/11/2017 LOGGED BY: JB DATE: 17/11/2017 CHECKED BY: JM DATE: 24/11/2017 STATUS: Final data
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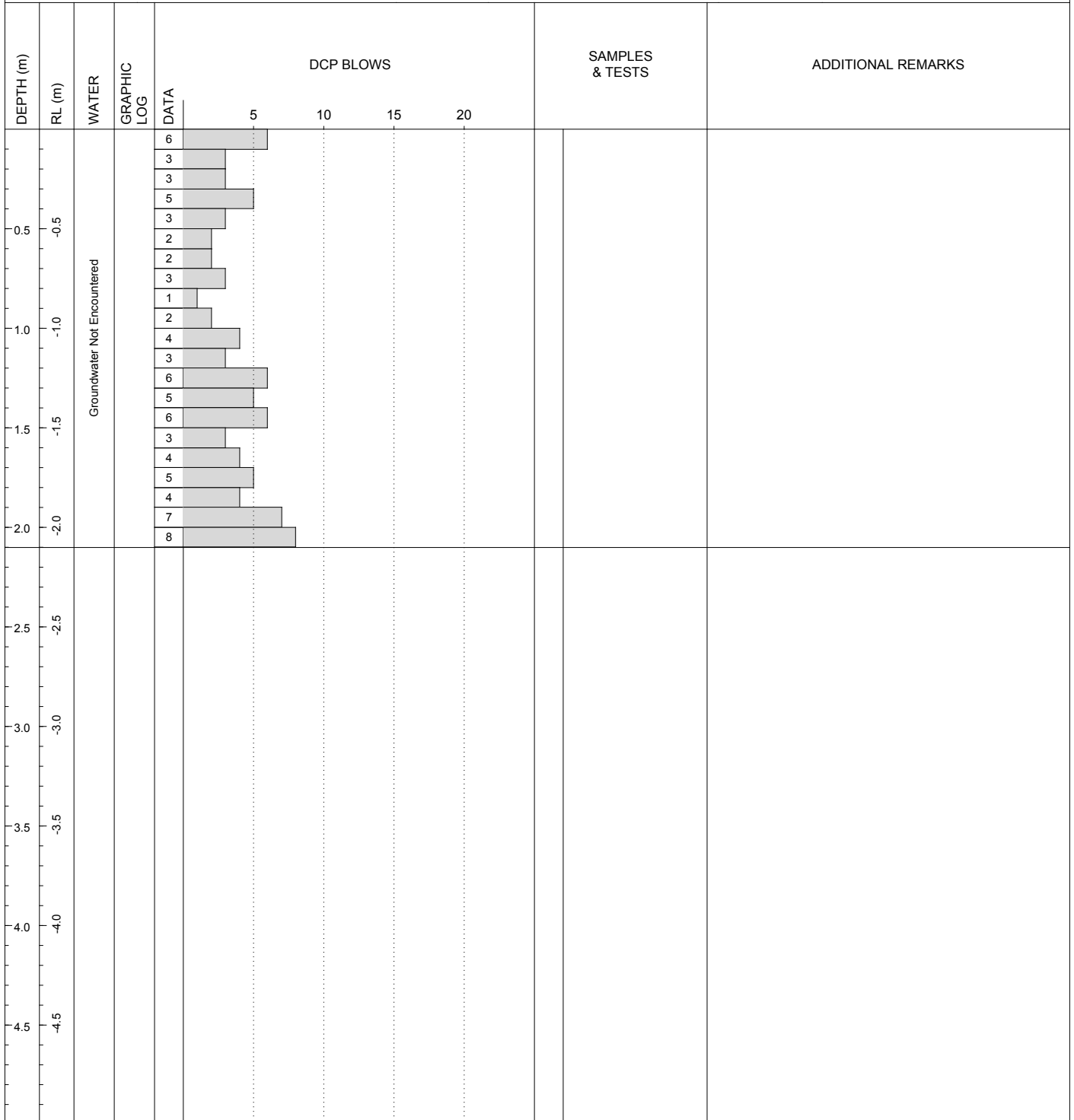
CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	<b>SYMBOLS</b> ▼ Standing Water Level ◁ Out flow ▷ In flow
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CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928505.00	STARTED: 17/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607809.00	FINISHED: 17/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 17/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

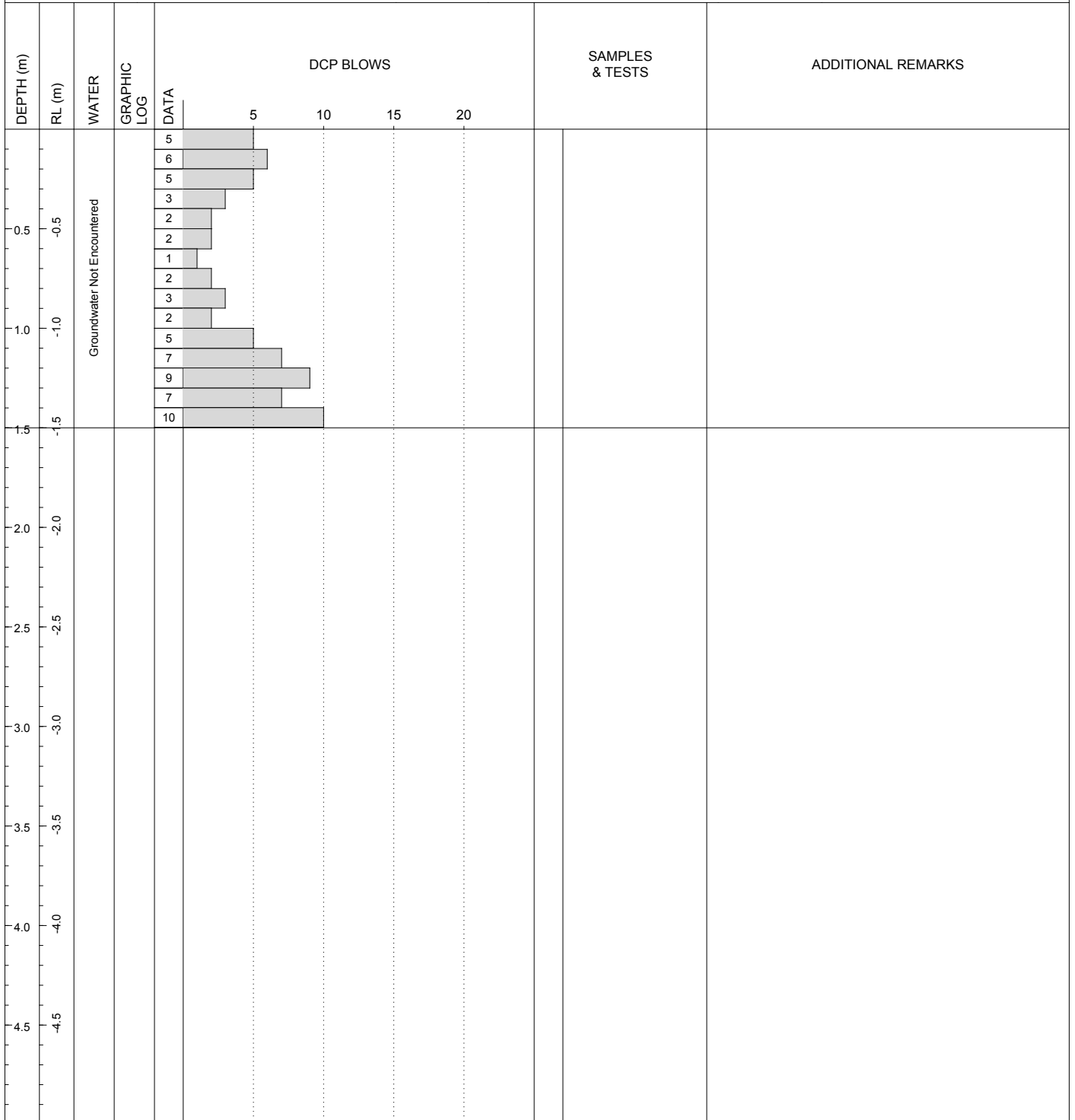
CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stages 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928493.00 NORTHING: 5607705.00 DATUM: ELEVATION: AZUMITH: 0° PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 17/11/2017 FINISHED: 17/11/2017 LOGGED BY: JB DATE: 17/11/2017 CHECKED BY: JM DATE: 24/11/2017 STATUS: Final data
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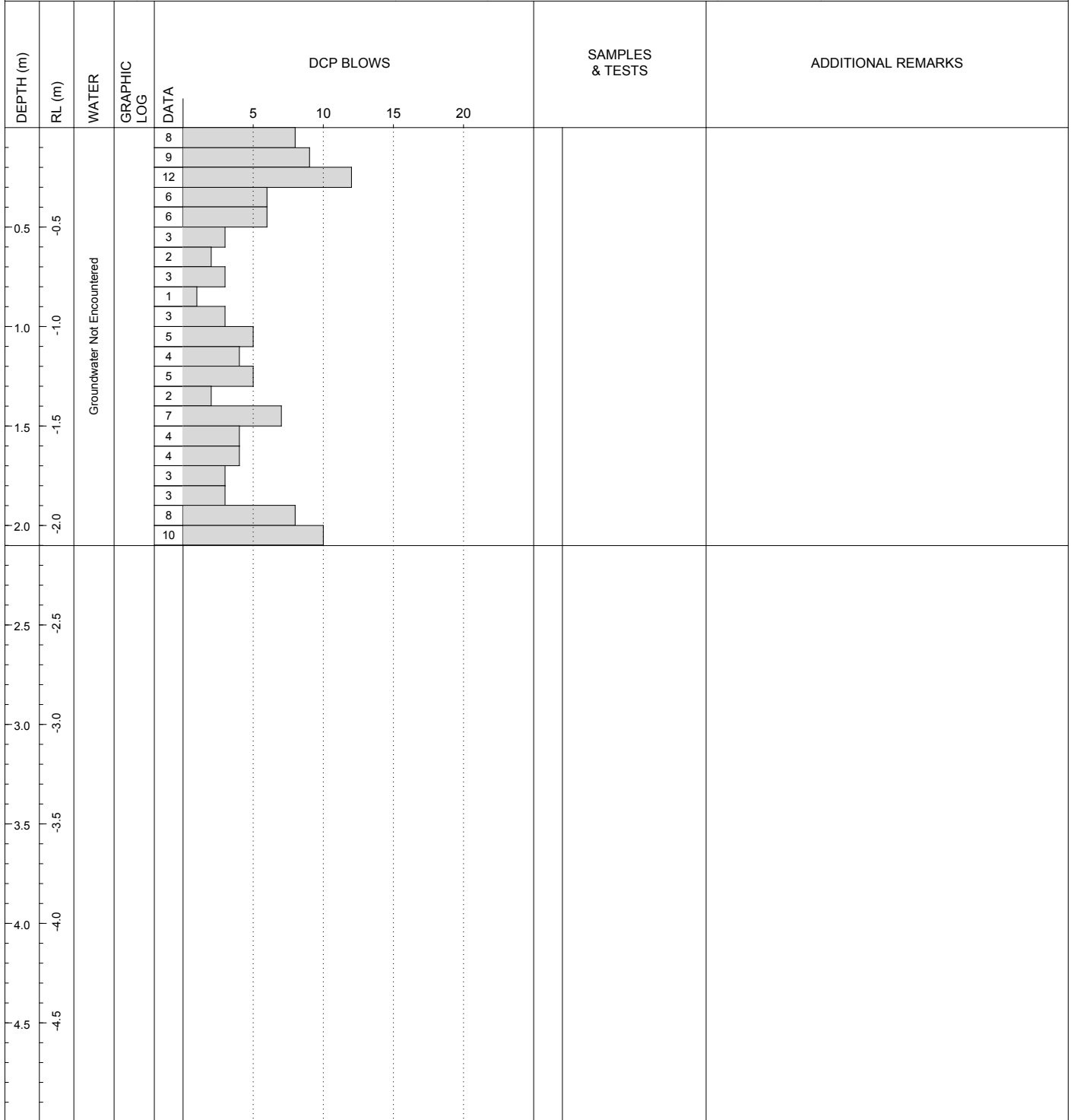
CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	<b>SYMBOLS</b> ▼ Standing Water Level ◁ Out flow ▷ In flow
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CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stages 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928505.00 NORTHING: 5607714.00 DATUM: ELEVATION: AZUMITH: 0°    PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 17/11/2017 FINISHED: 17/11/2017 LOGGED BY: JB      DATE: 17/11/2017 CHECKED BY: JM     DATE: 24/11/2017 STATUS: Final data
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CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	<b>SYMBOLS</b> ▼ Standing Water Level ◁ Out flow ▷ In flow
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# HAND AUGER LOG

Lot 39 HA01

SHEET 38 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928502.00	STARTED: 22/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607685.00	FINISHED: 22/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: PGR      DATE: 22/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 24/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.0				TOPSOIL; dark brown. Soft; dry; trace rootlets.	D					
0.5	-0.5			Clayey SILT; light brown. Soft; low plasticity; moist.	M	S				
1.0	-1.0			Clayey SILT; brow, grey and orange mottle. Soft; low plasticity; moist; increasing clay to base.						
1.5	-1.5			EOH: 1.50m						
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS

- SYMBOLS
- ▼ Standing Water Level
  - ◁ Out flow
  - ▷ In flow



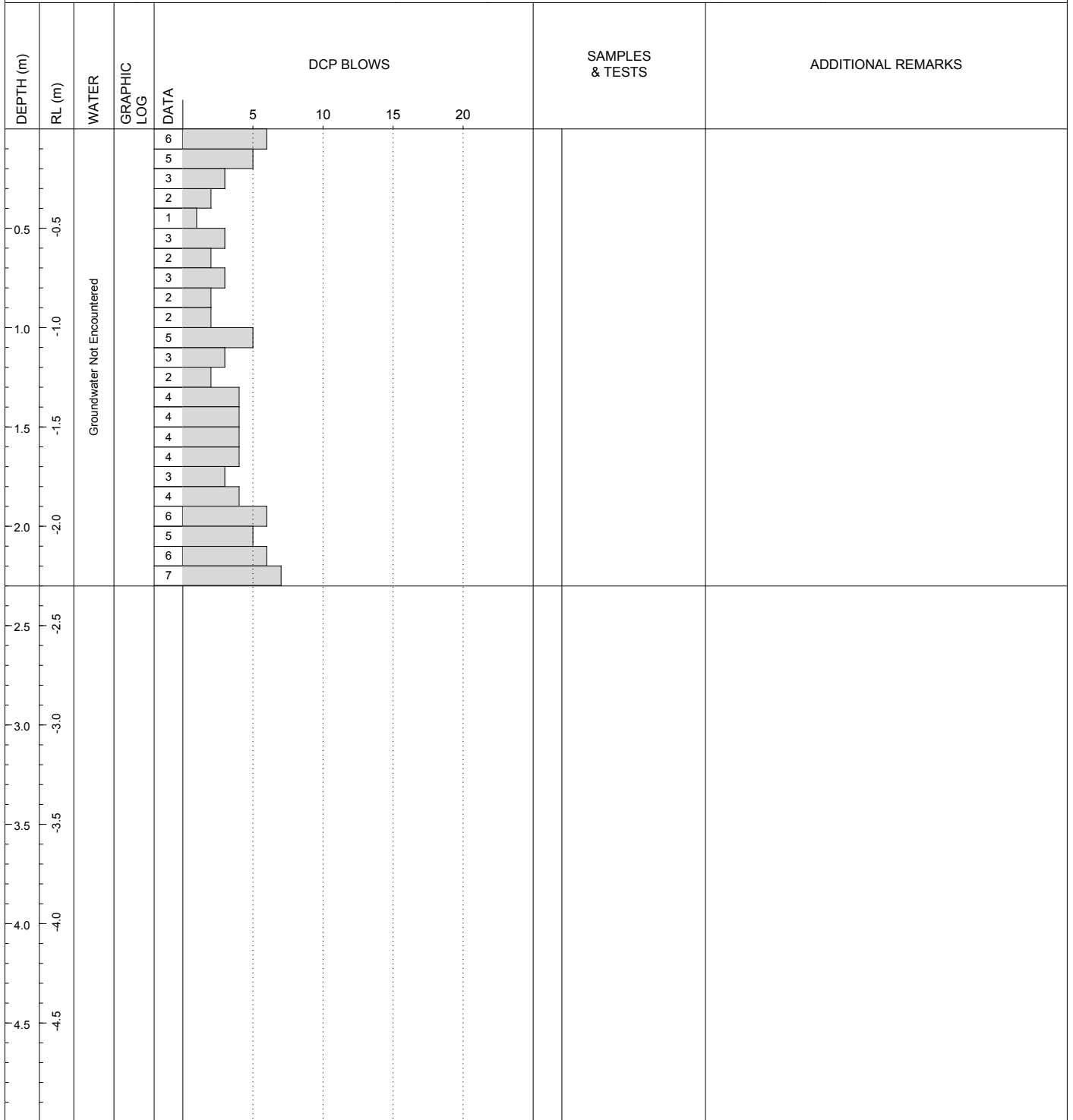
# DCP LOG

Lot 39 DCP01

SHEET 153 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928529.00	STARTED: 17/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607689.00	FINISHED: 17/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI DATE: 17/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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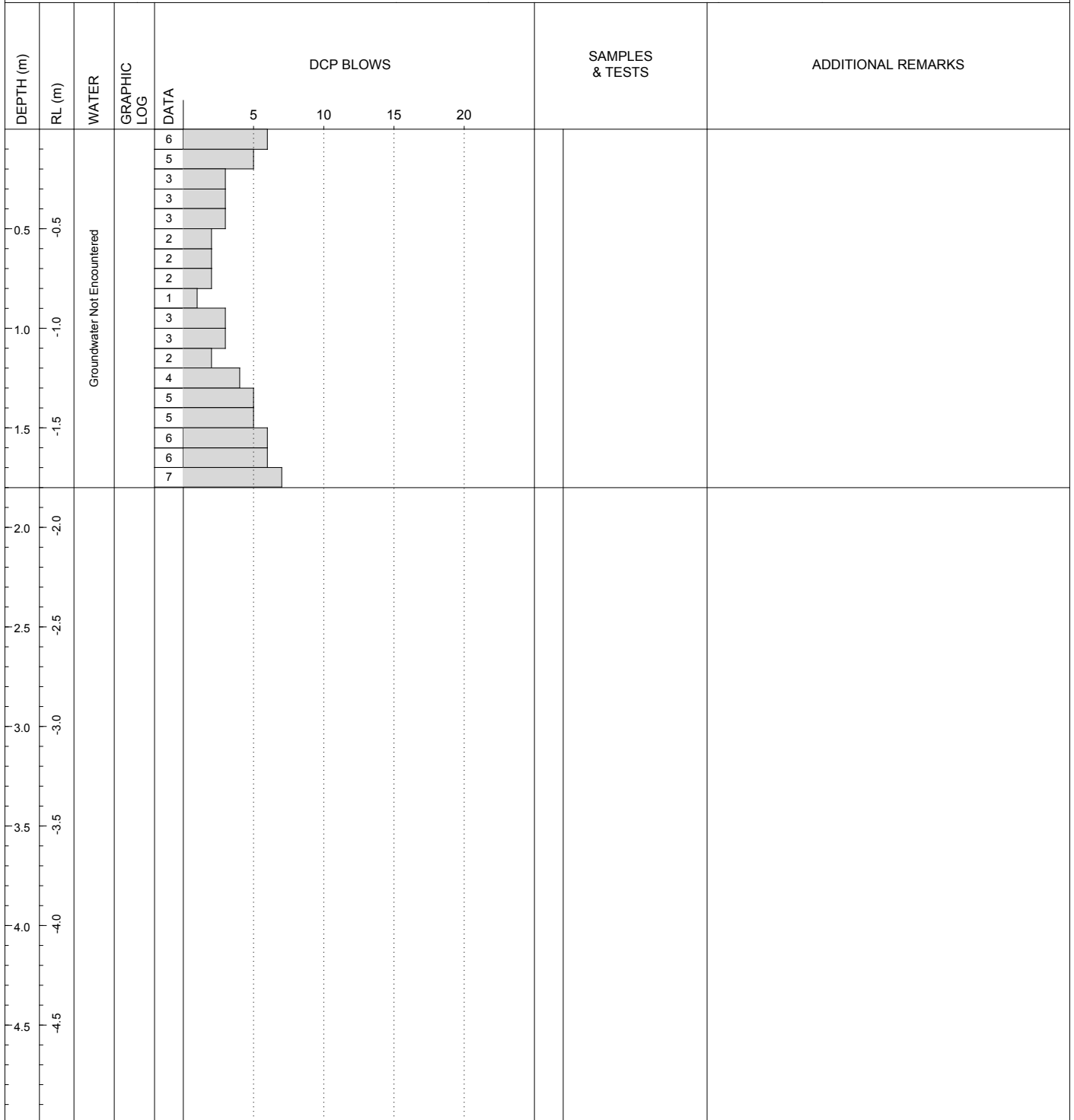


REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

Produced with Core-GS by Geric

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928510.00	STARTED: 17/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607671.00	FINISHED: 17/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI      DATE: 17/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

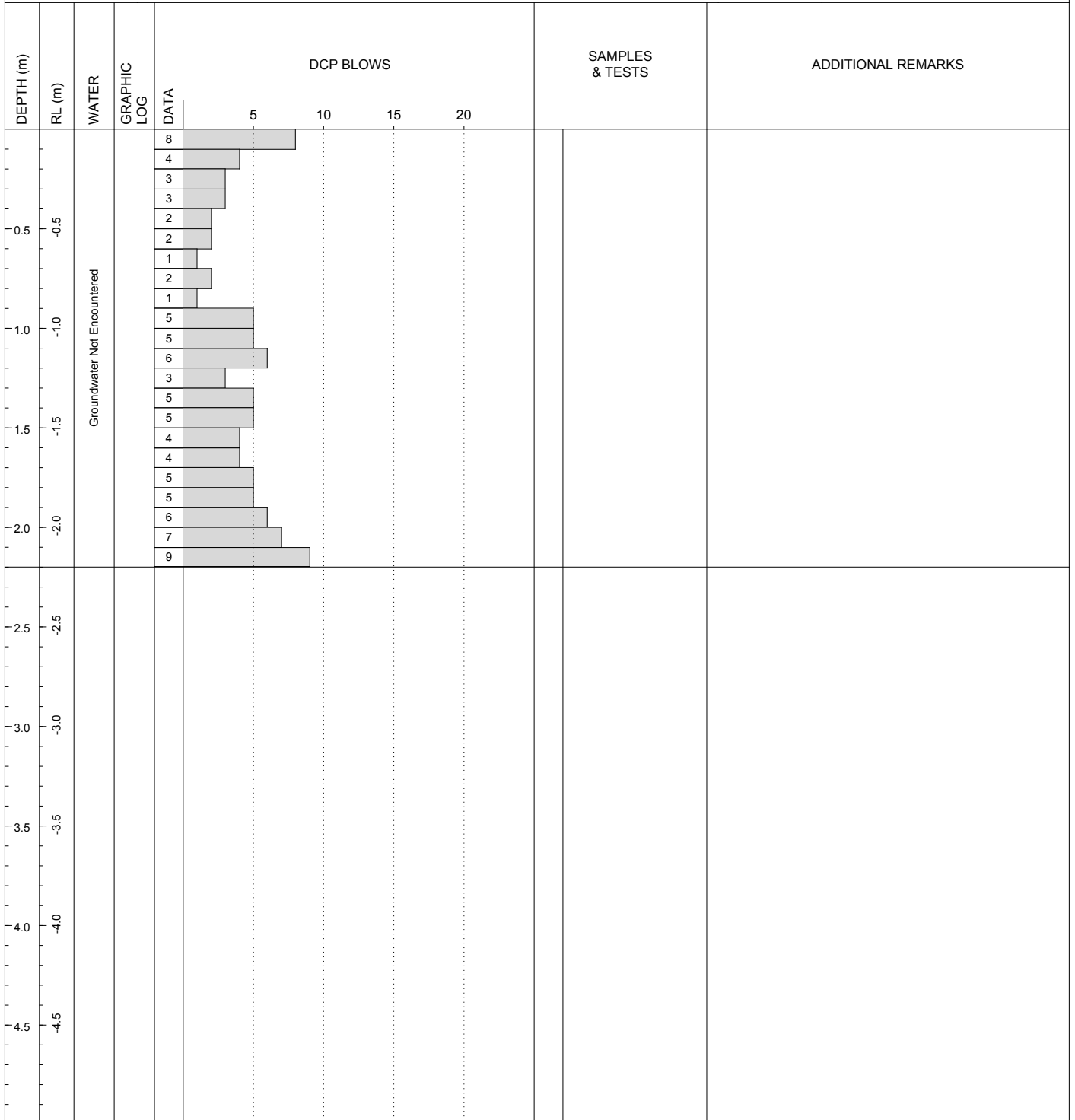
CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928504.00	STARTED: 17/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607674.00	FINISHED: 17/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI      DATE: 17/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow





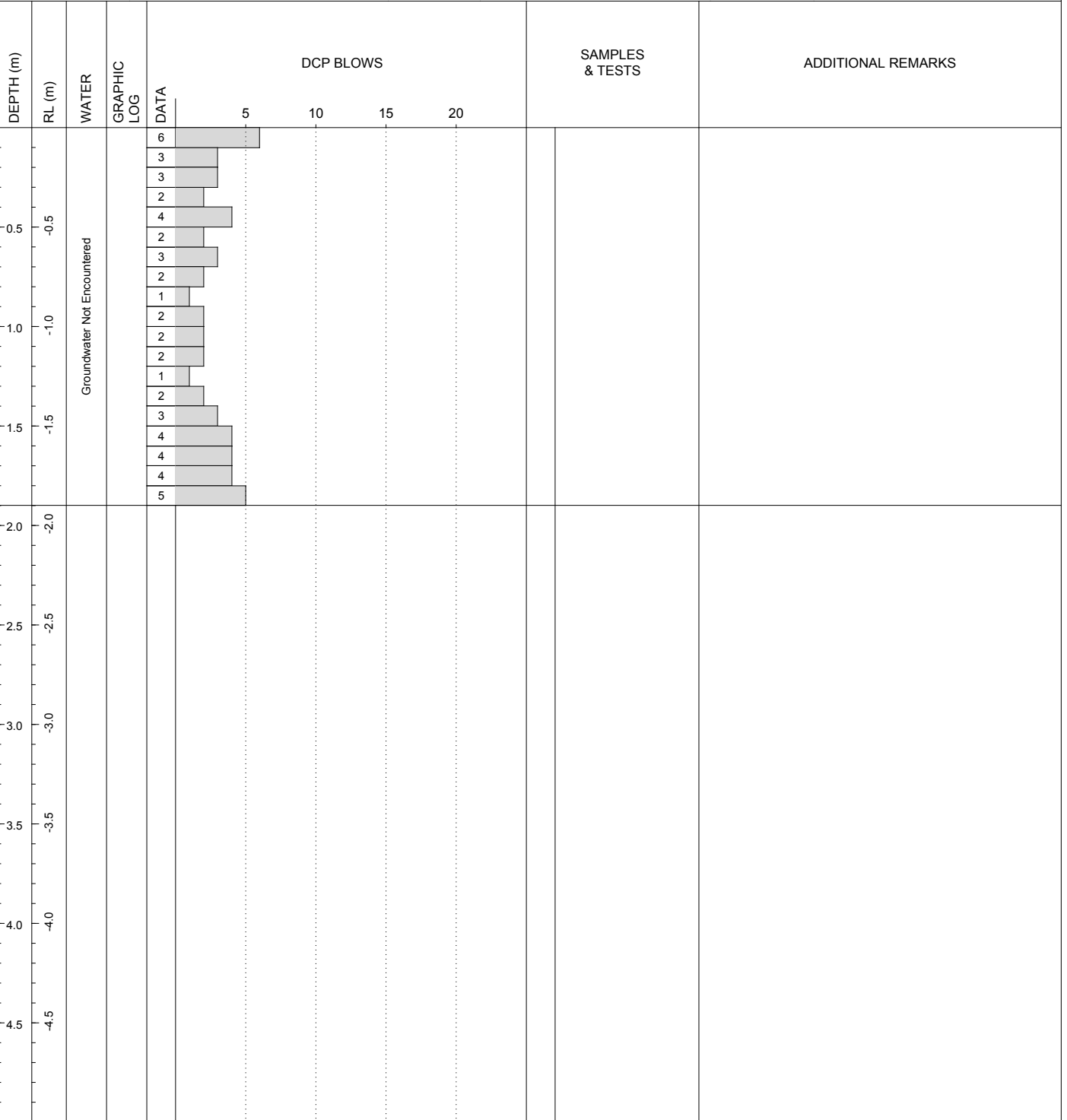
# DCP LOG

Lot 39 DCP04

SHEET 156 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928520.00	STARTED: 17/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607694.00	FINISHED: 17/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: CI DATE: 17/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<p>▼ Standing Water Level</p> <p>◁ Out flow</p> <p>▷ In flow</p>



# HAND AUGER LOG

Lot 40 HA01

SHEET 39 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928528.00	STARTED: 22/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607666.00	FINISHED: 22/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: PGR      DATE: 22/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 24/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

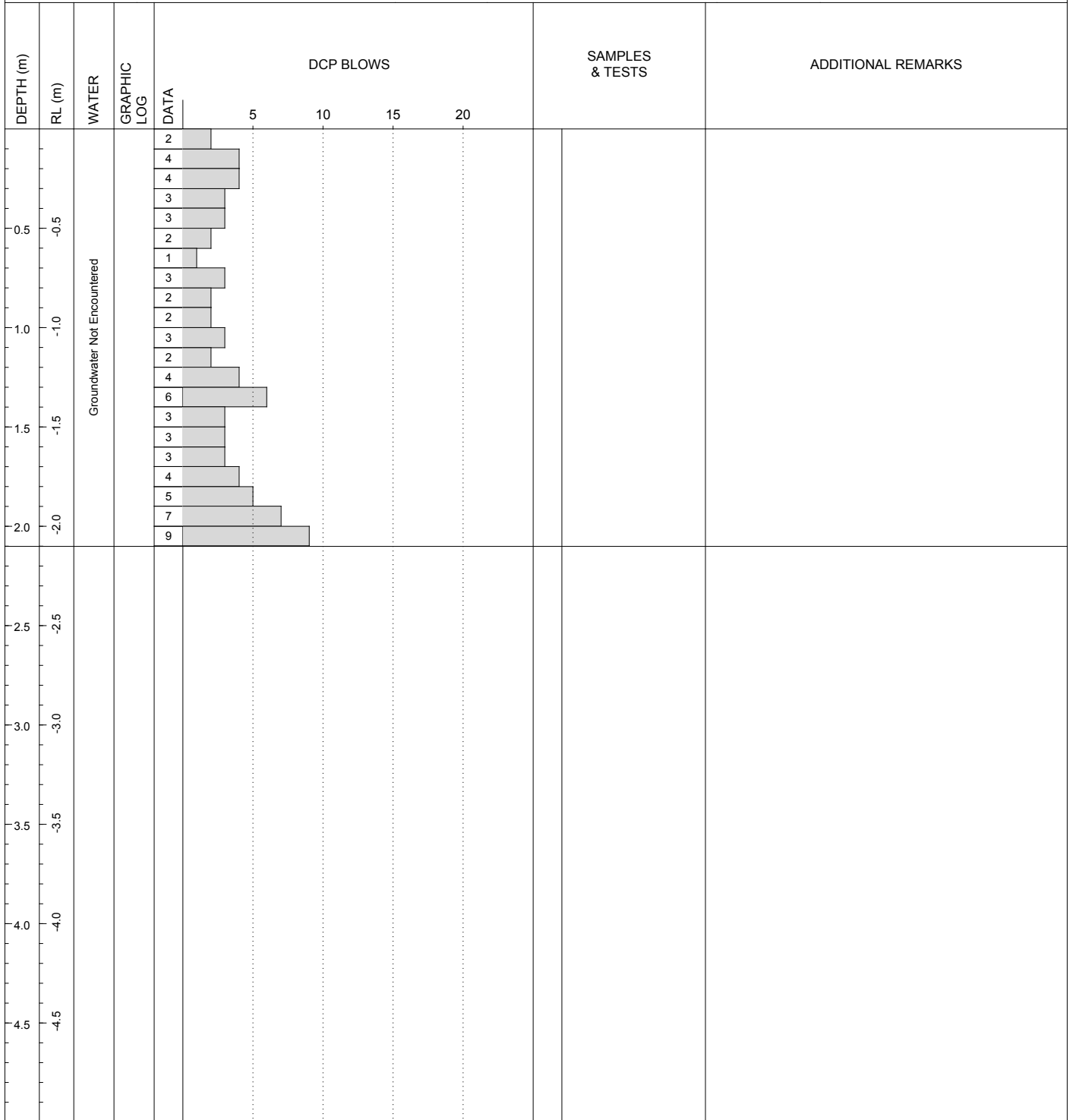
DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.0				TOPSOIL; dark brown. Soft; dry; trace rootlets.	D					
0.5	-0.5			Clayey SILT; light brown. Soft; low plasticity; moist.						
1.0	-1.0			Clayey SILT; dark brown and orange mottle. Soft; low plasticity; moist; increasing clay content toward base.	M	S				
1.5	-1.5			EOH: 1.60m						
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS

- SYMBOLS
- ▼ Standing Water Level
  - ◁ Out flow
  - ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928540.00	STARTED: 17/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607667.00	FINISHED: 17/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 17/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



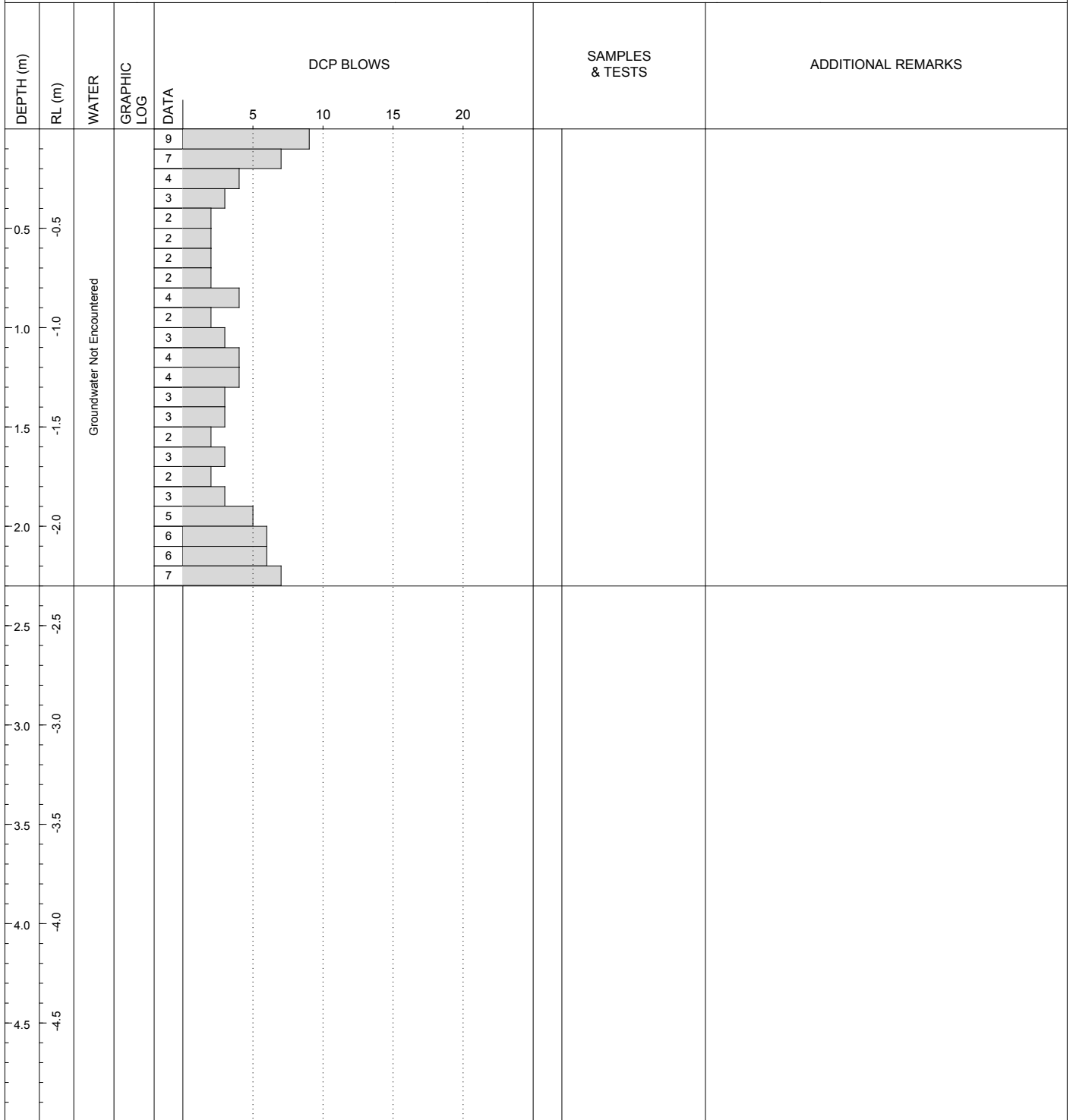
# DCP LOG

Lot 40 DCP02

SHEET 158 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928532.00	STARTED: 17/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607649.00	FINISHED: 17/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 17/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stages 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928519.00 NORTHING: 5607661.00 DATUM: ELEVATION: AZUMITH: 0°    PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 17/11/2017 FINISHED: 17/11/2017 LOGGED BY: JB      DATE: 17/11/2017 CHECKED BY: JM     DATE: 24/11/2017 STATUS: Final data
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CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.5	-0.5	Groundwater Not Encountered		5						
			6							
			5							
			3							
			2							
			1							
			2							
			3							
			1							
1.0	-1.0				2					
					5					
					3					
					4					
					3					
					3					
1.5	-1.5				1					
					2					
					4					
					5					
2.0	-2.0				7					
				9						
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS	<b>SYMBOLS</b> ▼ Standing Water Level ◁ Out flow ▷ In flow
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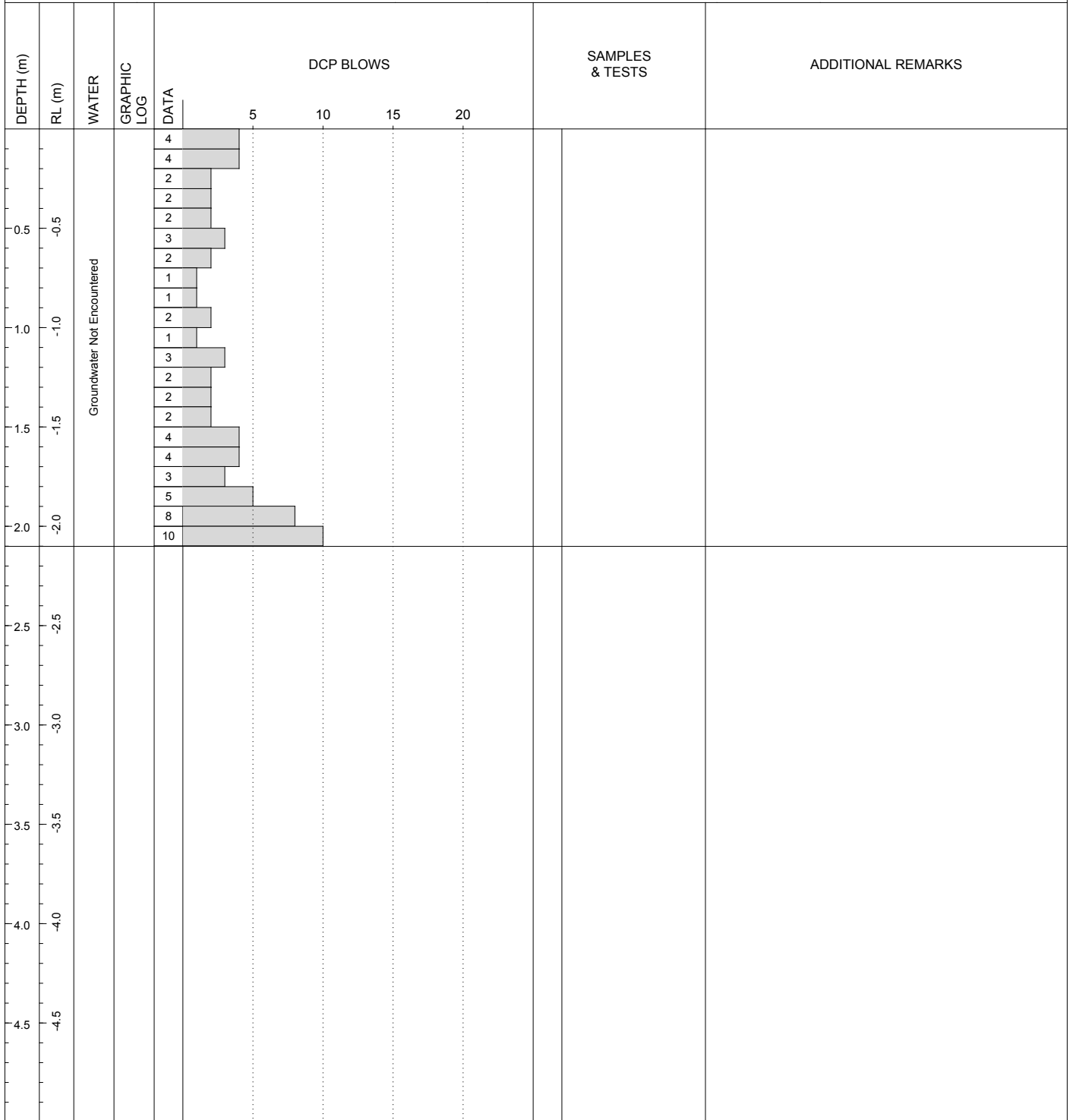
# DCP LOG

Lot 40 DCP04

SHEET 160 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928531.00	STARTED: 17/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607680.00	FINISHED: 17/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: JB      DATE: 17/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>

Produced with Core-GS by Geotec



# HAND AUGER LOG

**Lot 41 HA01**

SHEET 40 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928567.00	STARTED: 22/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607686.00	FINISHED: 22/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: PGR      DATE: 22/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM      DATE: 24/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.0	-0.5			TOPSOIL; dark brown. Soft; dry; trace rootlets.	D					
0.5	-0.5			Clayey SILT; light brown. Soft; low plasticity; moist.		S				
1.0	-1.0			Clayey SILT; brown, orange mottle, dark lenses. Soft; low plasticity; moist.	M					
1.0	-1.0			EOH: 1.00m						
1.5	-1.5									
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS

SYMBOLS

- ▼ Standing Water Level
- ◁ Out flow
- ▷ In flow



# DCP LOG

Lot 41 DCP01

SHEET 161 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928578.00	STARTED: 16/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607687.00	FINISHED: 16/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: SLK      DATE: 16/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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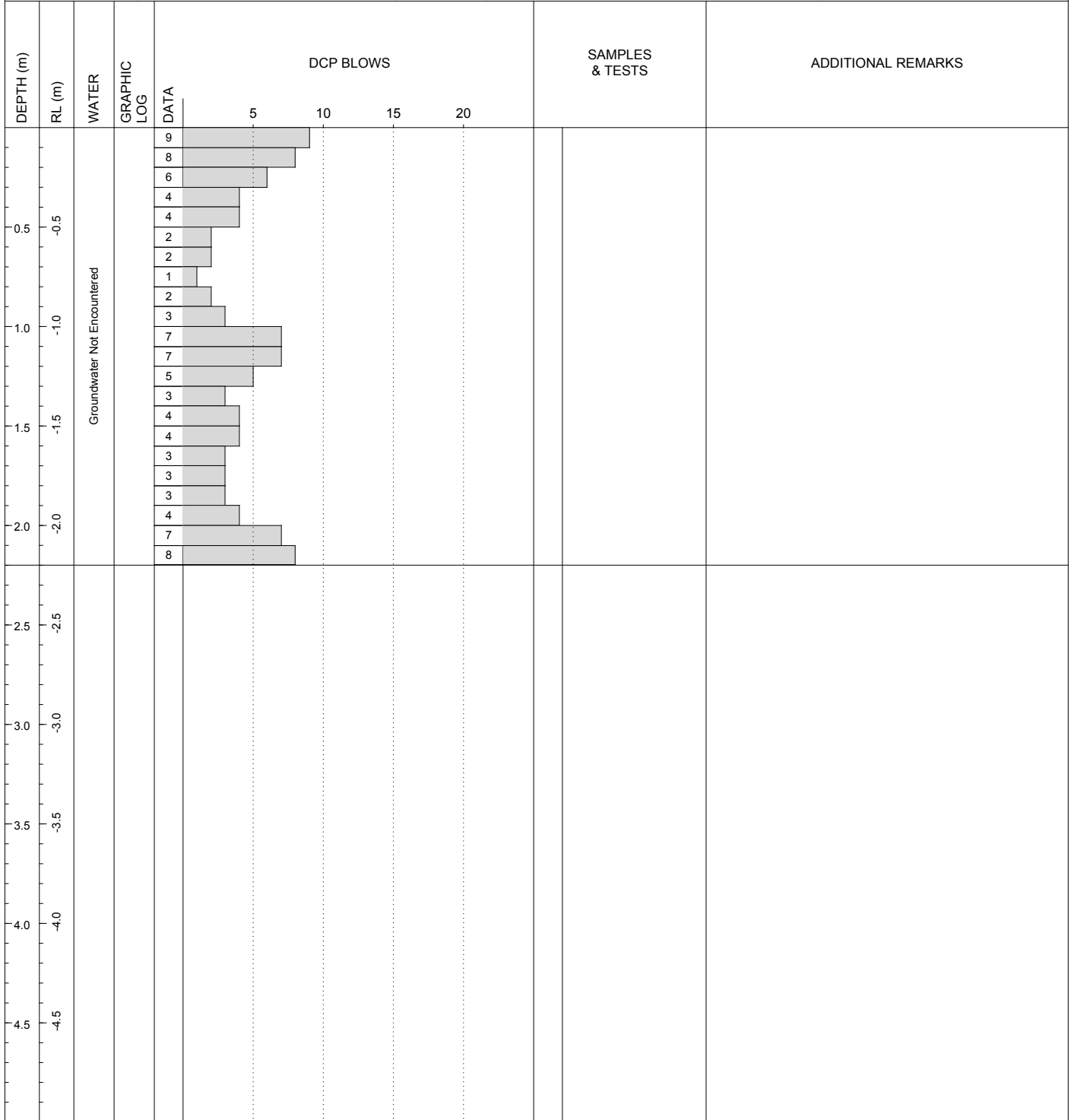
DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.5	Groundwater Not Encountered		1						
0.1	-0.5		5							
0.2	-0.5		4							
0.3	-0.5		3							
0.4	-0.5		2							
0.5	-0.5		1							
0.6	-0.5		2							
0.7	-0.5		2							
0.8	-0.5		1							
0.9	-1.0		2							
1.0	-1.0		3							
1.1	-1.0		5							
1.2	-1.0		4							
1.3	-1.0		4							
1.4	-1.5		3							
1.5	-1.5		3							
1.6	-1.5		4							
1.7	-1.5		3							
1.8	-1.5		2							
1.9	-2.0		4							
2.0	-2.0	5								
2.1	-2.0	4								
2.2	-2.0	5								
2.3	-2.5	4								
2.4	-2.5	4								
2.5	-2.5	5								
2.6	-2.5	5								
2.7	-2.5	4								
2.8	-2.5	5								
2.9	-2.5	4								
3.0	-3.0	3								
3.1	-3.0									
3.2	-3.0									
3.3	-3.0									
3.4	-3.5									
3.5	-3.5									
3.6	-3.5									
3.7	-3.5									
3.8	-4.0									
3.9	-4.0									
4.0	-4.0									
4.1	-4.0									
4.2	-4.5									
4.3	-4.5									
4.4	-4.5									
4.5	-4.5									

REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>



CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stages 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928557.00 NORTHING: 5617673.00 DATUM: ELEVATION: AZUMITH: 0° PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 16/11/2017 FINISHED: 16/11/2017 LOGGED BY: SLK DATE: 16/11/2017 CHECKED BY: JM DATE: 24/11/2017 STATUS: Final data
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CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	<b>SYMBOLS</b> ▼ Standing Water Level ◁ Out flow ▷ In flow
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CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stages 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928557.00 NORTHING: 5617684.00 DATUM: ELEVATION: AZUMITH: 0° PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 16/11/2017 FINISHED: 16/11/2017 LOGGED BY: SLK DATE: 16/11/2017 CHECKED BY: JM DATE: 24/11/2017 STATUS: Final data
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CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.5	Groundwater Not Encountered		2						
0.1	-0.5		3							
0.2	-0.5		3							
0.3	-0.5		3							
0.4	-0.5		3							
0.5	-0.5		2							
0.6	-0.5		2							
0.7	-0.5		2							
0.8	-0.5		1							
0.9	-1.0		2							
1.0	-1.0		3							
1.1	-1.0		4							
1.2	-1.0		3							
1.3	-1.0		4							
1.4	-1.0		4							
1.5	-1.5		4							
1.6	-1.5		5							
1.7	-1.5		4							
1.8	-1.5		3							
1.9	-2.0		2							
2.0	-2.0	2								
2.1	-2.0	4								
2.2	-2.0	4								
2.3	-2.0	4								
2.4	-2.5	6								
2.5	-2.5	6								
2.6	-2.5	8								
2.7	-2.5									
2.8	-2.5									
2.9	-2.5									
3.0	-3.0									
3.1	-3.0									
3.2	-3.0									
3.3	-3.0									
3.4	-3.5									
3.5	-3.5									
3.6	-3.5									
3.7	-3.5									
3.8	-4.0									
3.9	-4.0									
4.0	-4.0									
4.1	-4.0									
4.2	-4.5									
4.3	-4.5									
4.4	-4.5									
4.5	-4.5									

REMARKS	<b>SYMBOLS</b> ▼ Standing Water Level ◁ Out flow ▷ In flow
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# DCP LOG

Lot 41 DCP04

SHEET 164 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928567.00	STARTED: 16/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5617700.00	FINISHED: 16/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: SLK      DATE: 16/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.5	Groundwater Not Encountered		3						
0.1	-0.5		3							
0.2	-0.5		4							
0.3	-0.5		3							
0.4	-0.5		3							
0.5	-0.5		2							
0.6	-0.5		2							
0.7	-0.5		2							
0.8	-0.5		2							
0.9	-0.5		2							
1.0	-1.0		3							
1.1	-1.0		5							
1.2	-1.0		5							
1.3	-1.0	5								
1.4	-1.5									
1.5	-1.5									
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS	SYMBOLS ▼ Standing Water Level ◁ Out flow ▷ In flow
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# HAND AUGER LOG

Lot 42 HA01

SHEET 41 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928567.00	STARTED: 22/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607701.00	FINISHED: 22/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: PGR/JM DATE: 22/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM DATE: 24/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.0	-0.5			TOPSOIL; dark brown. Soft; dry.						
0.5	-0.5			SILT; brown . Soft; dry.	D	S				
1.0	-1.0			Clayey SILT; light brown, grey and orange mottle. Soft; low plasticity; moist.	M					
1.0	-1.0			EOH: 1.00m						
1.5	-1.5									
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS

SYMBOLS

- ▼ Standing Water Level
- ◁ Out flow
- ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stage 3-5	EASTING: 1928595.00	STARTED: 16/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607699.00	FINISHED: 16/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: SLK      DATE: 16/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.5	Groundwater Not Encountered		3						
0.1	-0.5		5							
0.2	-0.5		6							
0.3	-0.5		4							
0.4	-0.5		2							
0.5	-0.5		2							
0.6	-0.5		2							
0.7	-0.5		2							
0.8	-0.5		2							
0.9	-0.5		2							
1.0	-1.0		3							
1.1	-1.0		6							
1.2	-1.0		5							
1.3	-1.0		4							
1.4	-1.0		4							
1.5	-1.5		4							
1.6	-1.5		4							
1.7	-1.5		2							
1.8	-1.5		3							
1.9	-2.0		3							
2.0	-2.0	4								
2.1	-2.0	5								
2.2	-2.0	5								
2.3	-2.5	6								
2.4	-2.5									
2.5	-2.5									
2.6	-3.0									
2.7	-3.0									
2.8	-3.5									
2.9	-3.5									
3.0	-4.0									
3.1	-4.0									
3.2	-4.5									
3.3	-4.5									
3.4	-4.5									
3.5	-4.5									
3.6	-4.5									
3.7	-4.5									
3.8	-4.5									
3.9	-4.5									
4.0	-4.5									
4.1	-4.5									
4.2	-4.5									
4.3	-4.5									
4.4	-4.5									
4.5	-4.5									

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stages 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928582.00 NORTHING: 5607690.00 DATUM: ELEVATION: AZUMITH: 0°    PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 16/11/2017 FINISHED: 16/11/2017 LOGGED BY: SLK    DATE: 16/11/2017 CHECKED BY: JM    DATE: 24/11/2017 STATUS: Final data
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CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.5	Groundwater Not Encountered		4						
0.1	-0.5		5							
0.2	-0.5		6							
0.3	-0.5		3							
0.4	-0.5		3							
0.5	-0.5		2							
0.6	-0.5		1							
0.7	-0.5		2							
0.8	-0.5		1							
0.9	-0.5		2							
1.0	-1.0		3							
1.1	-1.0		5							
1.2	-1.0		4							
1.3	-1.0		4							
1.4	-1.0		4							
1.5	-1.5		3							
1.6	-1.5		3							
1.7	-1.5		2							
1.8	-1.5		4							
1.9	-2.0		4							
2.0	-2.0	4								
2.1	-2.0	4								
2.2	-2.0	5								
2.3	-2.5									
2.4	-2.5									
2.5	-3.0									
2.6	-3.0									
2.7	-3.5									
2.8	-3.5									
2.9	-4.0									
3.0	-4.0									
3.1	-4.5									
3.2	-4.5									
3.3	-4.5									
3.4	-4.5									
3.5	-4.5									
3.6	-4.5									
3.7	-4.5									
3.8	-4.5									
3.9	-4.5									
4.0	-4.5									
4.1	-4.5									
4.2	-4.5									
4.3	-4.5									
4.4	-4.5									
4.5	-4.5									

REMARKS	<b>SYMBOLS</b> ▼ Standing Water Level ◁ Out flow ▷ In flow
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CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stages 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928572.00 NORTHING: 5607703.00 DATUM: ELEVATION: AZUMITH: 0°    PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 16/11/2017 FINISHED: 16/11/2017 LOGGED BY: SLK    DATE: 16/11/2017 CHECKED BY: JM    DATE: 24/11/2017 STATUS: Final data
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CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0				2						
0.1				3						
0.2				3						
0.3				2						
0.4				1						
0.5				2						
0.6				1						
0.7				2						
0.8				1						
0.9				2						
1.0				4						
1.1				4						
1.2				3						
1.3				3						
1.4				2						
1.5				2						
1.6				3						
1.7				2						
1.8				2						
1.9				3						
2.0				5						
2.1				4						
2.2				5						
2.3				5						
2.4				6						
2.5				4						
2.6				5						
2.7										
2.8										
2.9										
3.0										
3.1										
3.2										
3.3										
3.4										
3.5										
3.6										
3.7										
3.8										
3.9										
4.0										
4.1										
4.2										
4.3										
4.4										
4.5										

REMARKS	<b>SYMBOLS</b> ▼ Standing Water Level ◁ Out flow ▷ In flow
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Produced with Core-GS by Geric



# DCP LOG

Lot 42 DCP04

SHEET 168 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928585.00	STARTED: 16/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607712.00	FINISHED: 16/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: SLK      DATE: 16/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS	
					5	10	15	20			
0.0	-0.5	Groundwater Not Encountered		5							
0.1				6							
0.2				4							
0.3				3							
0.4				3							
0.5				2							
0.6				2							
0.7				2							
0.8				1							
0.9				3							
1.0		4									
1.1		6									
1.2		6									
1.3		6									
1.4		3									
1.5		4									
1.6		4									
1.7		4									
1.8		4									
1.9											
2.0											
2.1											
2.2											
2.3											
2.4											
2.5											
2.6											
2.7											
2.8											
2.9											
3.0											
3.1											
3.2											
3.3											
3.4											
3.5											
3.6											
3.7											
3.8											
3.9											
4.0											
4.1											
4.2											
4.3											
4.4											
4.5											

REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>





# HAND AUGER LOG

LOT 43 HA01

SHEET 42 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928601.00	STARTED: 22/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607719.00	FINISHED: 22/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: PGR/JM DATE: 22/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM DATE: 24/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.0	-0.5			TOPSOIL; dark brown. Soft; dry.	D	S				
0.5	-0.5			SILT; brown . Firm; dry.		FM				
1.0	-1.0			Clayey SILT, with trace rootlets; light brown. Soft; low plasticity; moist.	M	S				
1.0	-1.0			EOH: 1.00m						
1.5	-1.5									
2.0	-2.0									
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS

SYMBOLS

- ▼ Standing Water Level
- ◁ Out flow
- ▷ In flow

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928612.00	STARTED: 17/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607711.00	FINISHED: 17/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: SLK      DATE: 17/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM      DATE: 24/11/2017
	AZUMITH: 0°      PLUNGE: 90°	STATUS: Final data

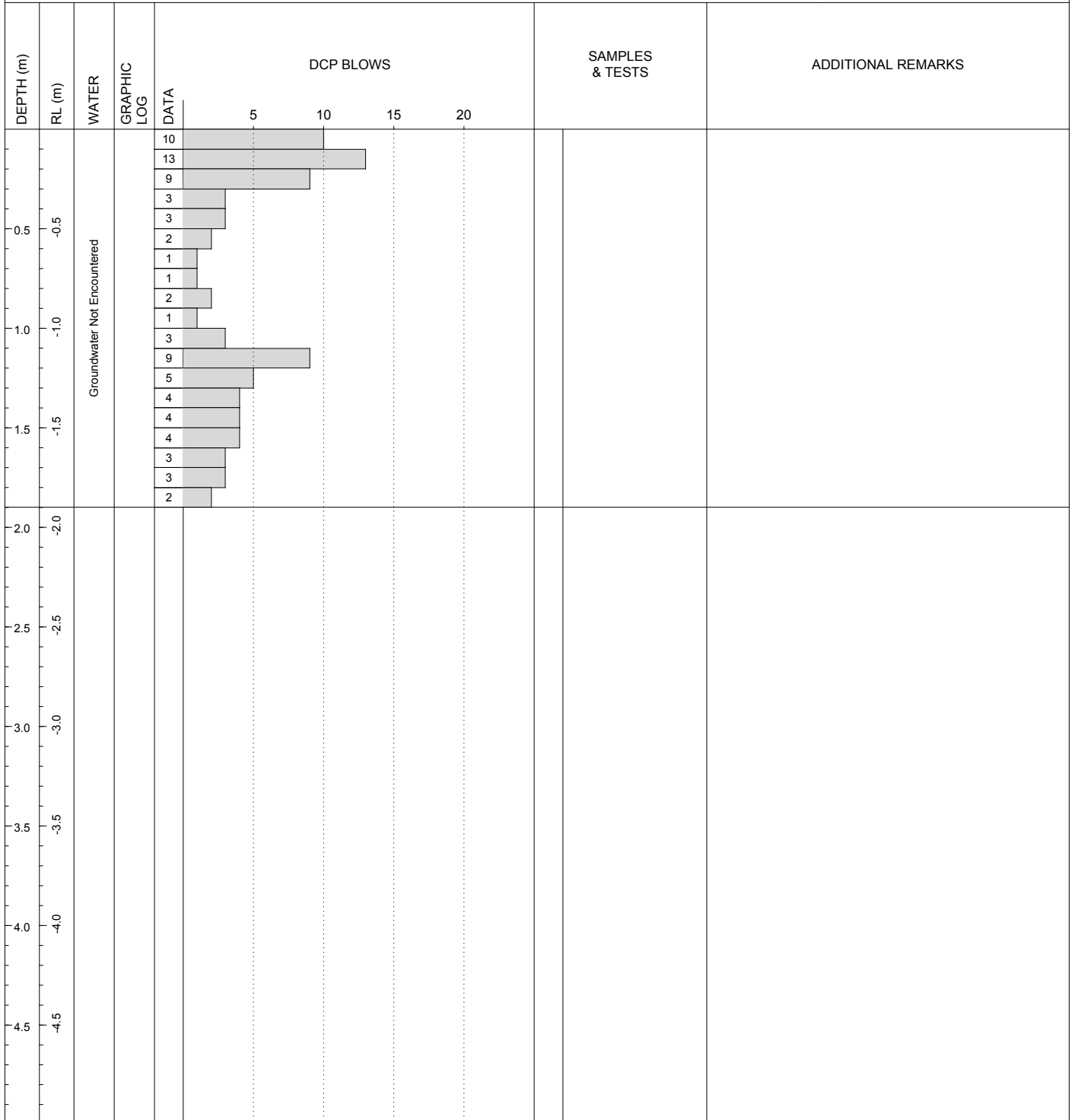
CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0				2						
0.2				6						
0.4				6						
0.6				4						
0.8				2						
1.0				2						
1.2				2						
1.4				1						
1.6				2						
1.8				2						
2.0				6						
2.2				5						
2.4				4						
2.6				3						
2.8				5						
3.0				3						
3.2				2						
3.4				2						
3.6				3						
3.8				3						
4.0				4						
4.2				4						
4.4				4						
4.6				5						
4.8				5						

REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow

CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stages 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928600.00 NORTHING: 5607701.00 DATUM: ELEVATION: AZUMITH: 0°    PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 17/11/2017 FINISHED: 17/11/2017 LOGGED BY: SLK      DATE: 17/11/2017 CHECKED BY: JM      DATE: 24/11/2017 STATUS: Final data
--	---	--

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS ▼ Standing Water Level ◁ Out flow ▷ In flow
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CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stage 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928590.00 NORTHING: 5607712.00 DATUM: ELEVATION: AZUMITH: 0°    PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley, Frimley STARTED: 11/11/2017 FINISHED: 11/11/2017 LOGGED BY: SLK    DATE: 17/11/2017 CHECKED BY: JM    DATE: 24/11/2017 STATUS: Final data
---	---	---

CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.5	-0.5	Groundwater Not Encountered		3						
			4							
			4							
			2							
			2							
			1							
			1							
			1							
			2							
			2							
			3							
			6							
			5							
			3							
			3							
			2							
			2							
			3							
			3							
			3							
		6								
		7								
		5								
		5								
2.5	-2.5									
3.0	-3.0									
3.5	-3.5									
4.0	-4.0									
4.5	-4.5									

REMARKS	<b>SYMBOLS</b> ▼ Standing Water Level ◁ Out flow ▷ In flow
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# HAND AUGER LOG

Lot 44 HA01

SHEET 43 OF 43

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928617.00	STARTED: 22/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607726.00	FINISHED: 22/11/2017
OFFICE: RDCL	DATUM: NZTM	LOGGED BY: PGR/JM DATE: 22/11/2017
ENGINEER: CAW	ELEVATION: 0	CHECKED BY: JM DATE: 24/11/2017
	DIAMETER: 0mm	STATUS: Final data

CONTRACTOR: \_\_\_\_\_ OPERATOR: \_\_\_\_\_

DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / DENSITY	CLASSIFICATION	DCP BLOWS	SAMPLES & TESTS	ADDITIONAL REMARKS
0.0				TOPSOIL; dark brown. Soft; dry.		S				
0.5				SILT; brown . Firm; dry.	D					
1.0				Clayey SILT; light brown. Firm; low plasticity; moist; clay increasing with depth.	M	FM				
1.0				EOH: 1.00m						
1.5										
2.0										
2.5										
3.0										
3.5										
4.0										
4.5										

REMARKS

SYMBOLS

- ▼ Standing Water Level
- ◁ Out flow
- ▷ In flow

CLIENT: Greenstone Land Developments Ltd PROJECT: 170602050_Stages 3-5 LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings OFFICE: RDCL ENGINEER: CAW	PROJECTION: NZTM EASTING: 1928628.00 NORTHING: 5607724.00 DATUM: ELEVATION: AZUMITH: 0° PLUNGE: 90°	LOCATION: Lyndhurst Road, Frimley STARTED: 17/11/2017 FINISHED: 17/11/2017 LOGGED BY: SBD/SLK DATE: 17/11/2017 CHECKED BY: JM DATE: 24/11/2017 STATUS: Final data
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CONTRACTOR:	MACHINE:	OPERATOR:
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DEPTH (m)	RL (m)	WATER	GRAPHIC LOG	DATA	DCP BLOWS				SAMPLES & TESTS	ADDITIONAL REMARKS
					5	10	15	20		
0.0	-0.1	Groundwater Not Encountered		2						
0.1	-0.2		4							
0.2	-0.3		3							
0.3	-0.4		3							
0.4	-0.5		3							
0.5	-0.6		2							
0.6	-0.7		2							
0.7	-0.8		2							
0.8	-0.9		3							
0.9	-1.0		2							
1.0	-1.1		2							
1.1	-1.2		4							
1.2	-1.3		4							
1.3	-1.4		6							
1.4	-1.5		4							
1.5	-1.6		4							
1.6	-1.7		3							
1.7	-1.8		4							
1.8	-1.9		3							
1.9	-2.0		2							
2.0	-2.1	3								
2.1	-2.2	4								
2.2	-2.3	3								
2.3	-2.4	4								
2.4	-2.5	4								
2.5	-2.6	4								
2.6	-2.7	4								
2.7	-2.8	3								
2.8	-2.9	4								
2.9	-3.0	4								
3.0	-3.1									
3.1	-3.2									
3.2	-3.3									
3.3	-3.4									
3.4	-3.5									
3.5	-3.6									
3.6	-3.7									
3.7	-3.8									
3.8	-3.9									
3.9	-4.0									
4.0	-4.1									
4.1	-4.2									
4.2	-4.3									
4.3	-4.4									
4.4	-4.5									

REMARKS	SYMBOLS ▼ Standing Water Level ◁ Out flow ▷ In flow
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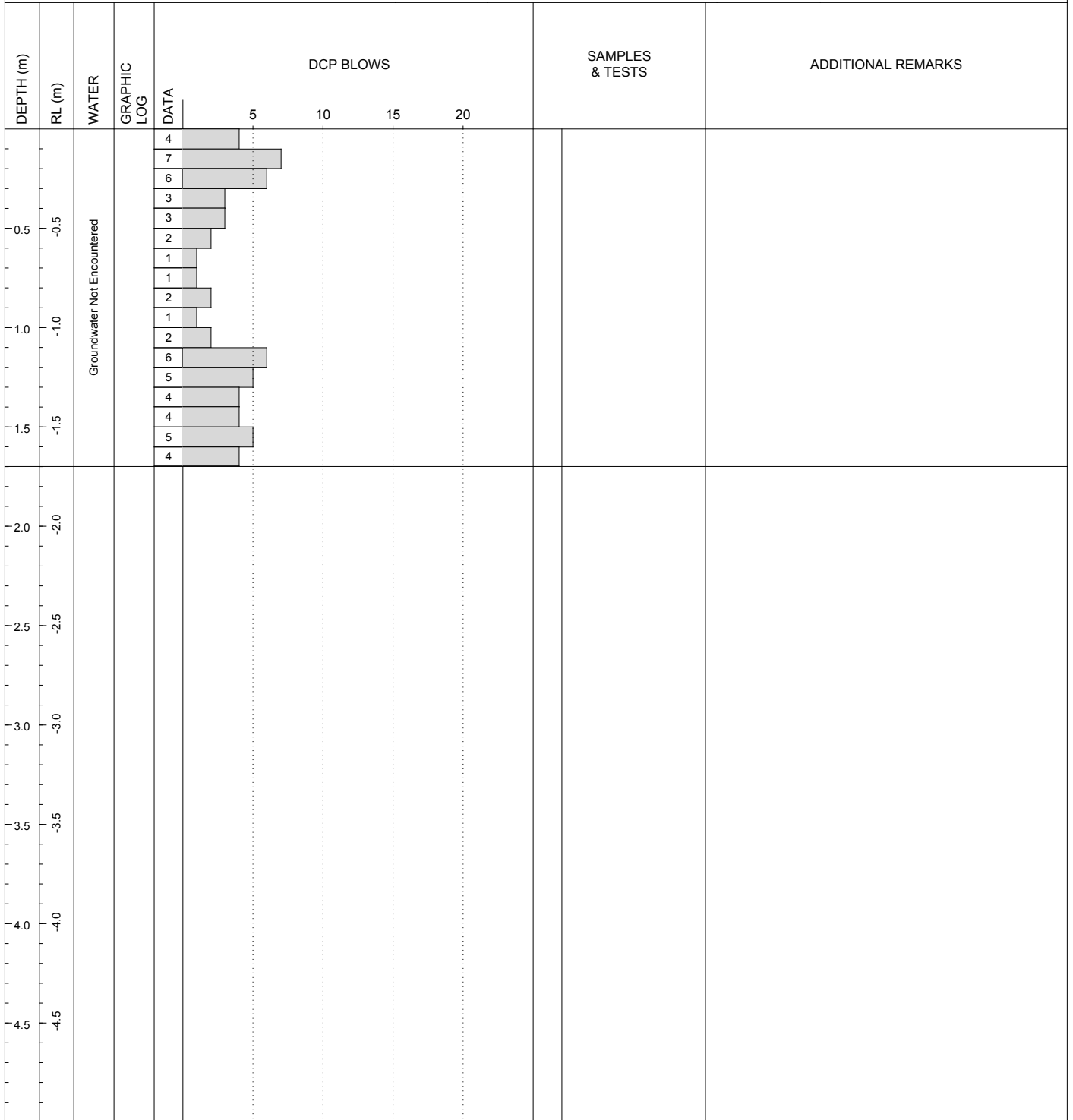
# DCP LOG

Lot 44 DCP02

SHEET 174 OF 176

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928616.00	STARTED: 17/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607715.00	FINISHED: 17/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: SBD/SLK DATE: 17/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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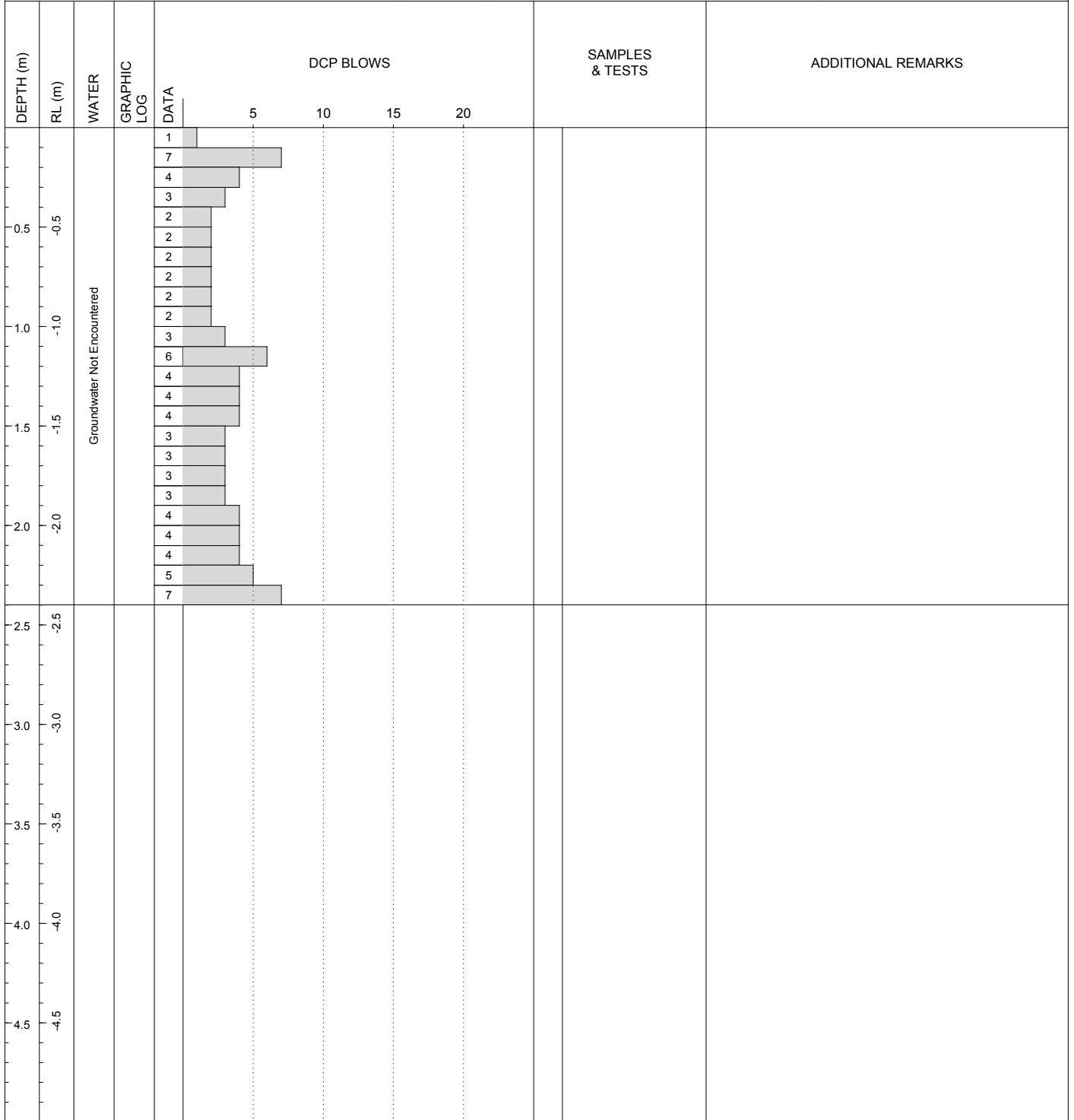


REMARKS	SYMBOLS
	<ul style="list-style-type: none"> <li>▼ Standing Water Level</li> <li>◁ Out flow</li> <li>▷ In flow</li> </ul>



CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM	LOCATION: Lyndhurst Road, FrimleyFrimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928608.00	STARTED: 17/11/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607727.00	FINISHED: 17/11/2017
OFFICE: RDCL	DATUM:	LOGGED BY: SBD/SLK DATE: 17/11/2017
ENGINEER: CAW	ELEVATION:	CHECKED BY: JM DATE: 24/11/2017
	AZUMITH: 0° PLUNGE: 90°	STATUS: Final data

CONTRACTOR:	MACHINE:	OPERATOR:
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REMARKS	SYMBOLS
	▼ Standing Water Level ◁ Out flow ▷ In flow



## APPENDIX B – CPT LOGS



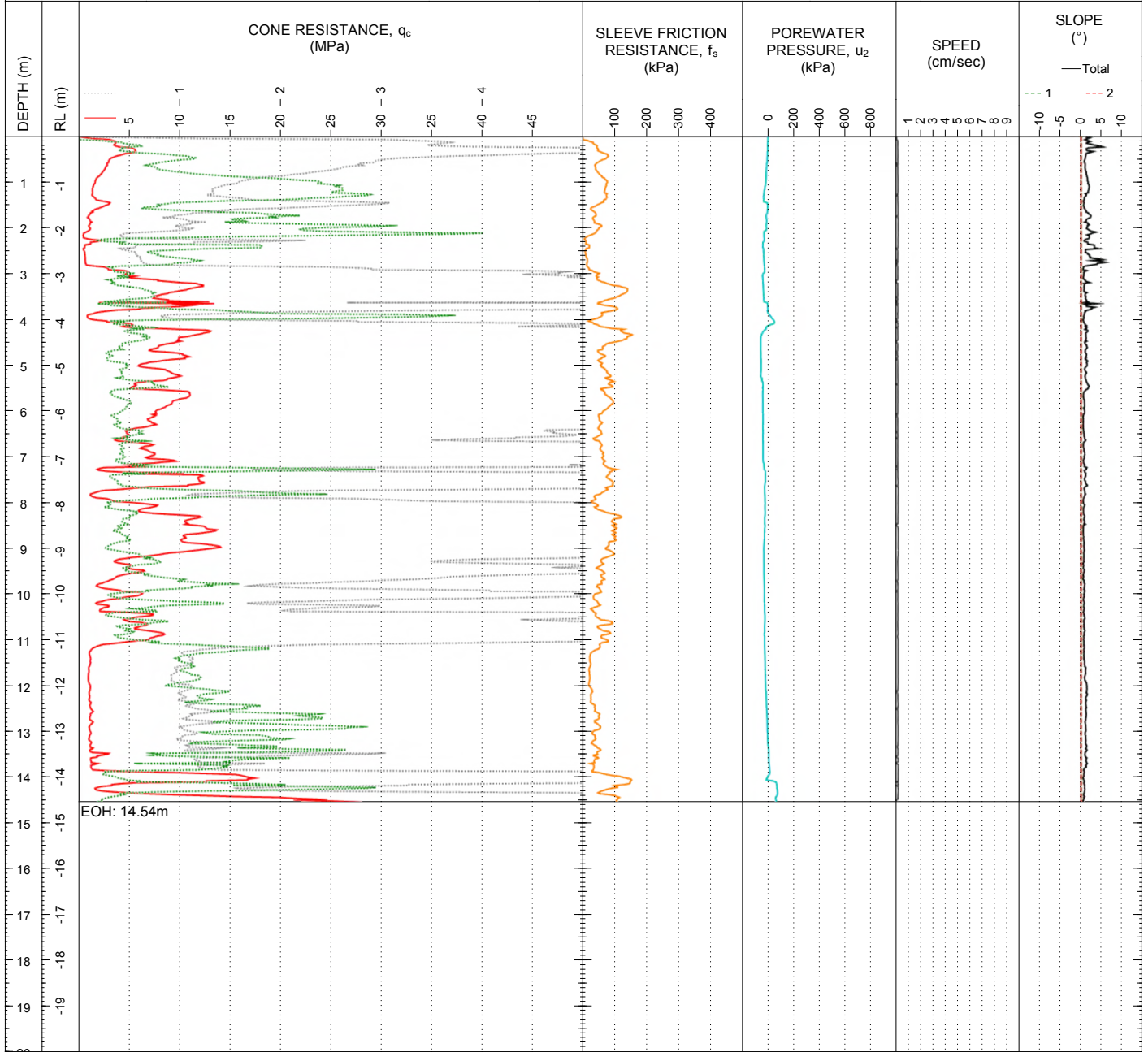
# CONE PENETRATION TEST LOG

CPT01

SHEET 1 OF 1

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM2000	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928583.00	STARTED: 04/12/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607750.00	FINISHED: 04/12/2017
OFFICE: RDCL	DATUM:	CHECKED BY: PG DATE: 05/12/2017
ENGINEER: CAW	ELEVATION: 0	STATUS: Final data

CONTRACTOR: RDCL MACHINE: Geoprobe 54LT OPERATOR: SLK



EOH: 14.54m

REMARKS

CONE INFORMATION		
CONE ID: 4483	CONE TYPE: EC	
	INITIAL	FINAL
CONE RESISTANCE:	6.8828	-0.0378
SLEEVE FRICTION RESISTANCE:	129.2	-0.2
POREWATER PRESSURE:	258.8	0.9

SYMBOLS  
 ▼ Water level



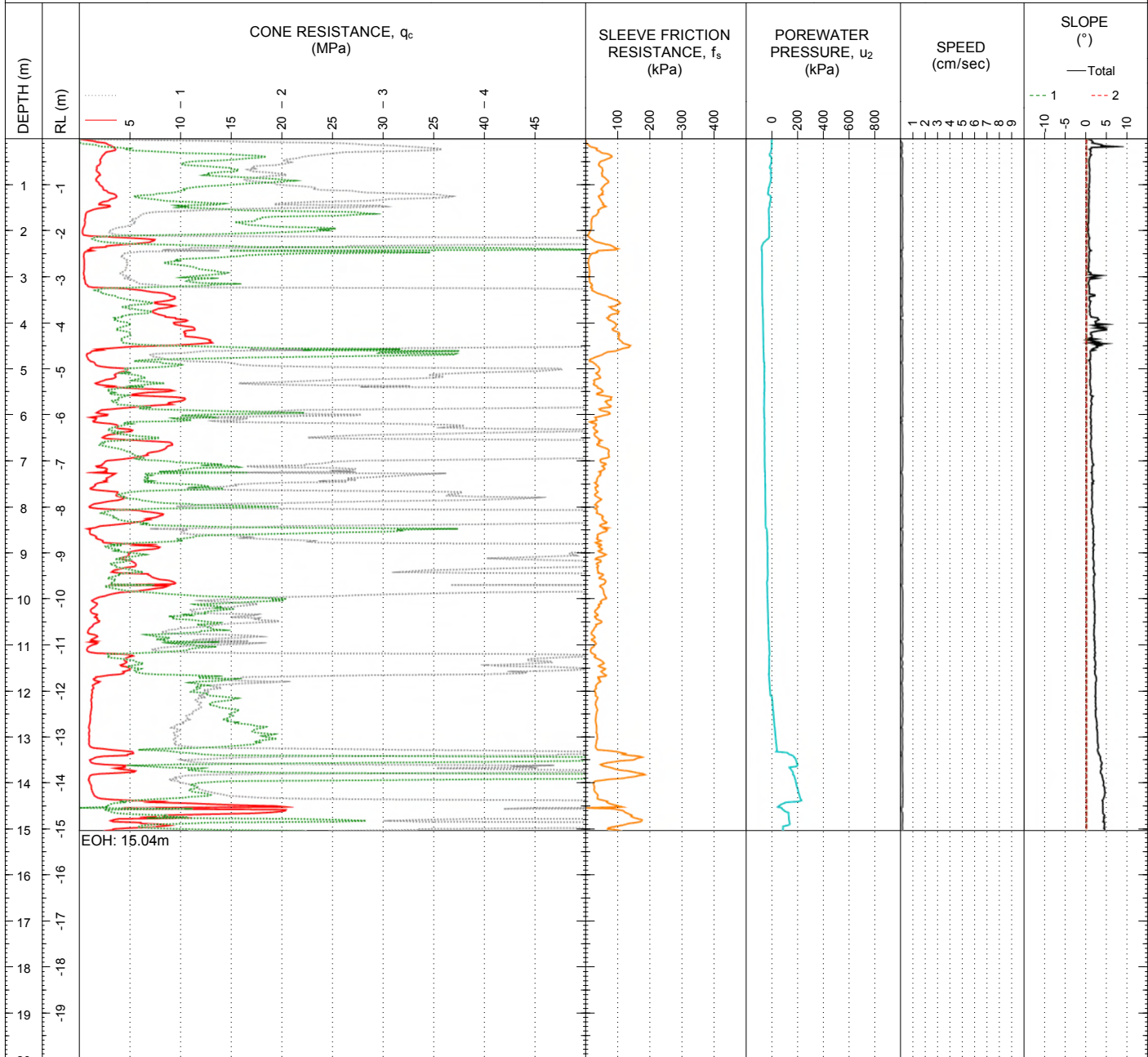
# CONE PENETRATION TEST LOG

CPT02

SHEET 1 OF 1

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM2000	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928512.00	STARTED: 04/12/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607682.00	FINISHED: 04/12/2017
OFFICE: RDCL	DATUM:	CHECKED BY: PG DATE: 05/12/2017
ENGINEER: CAW	ELEVATION: 0	STATUS: Final data

CONTRACTOR: RDCL MACHINE: Geoprobe 54LT OPERATOR: SLK



EOH: 15.04m

REMARKS

CONE INFORMATION

CONE ID: 4483	CONE TYPE: -	
	INITIAL	FINAL
CONE RESISTANCE:	6.8992	-0.1055
SLEEVE FRICTION RESISTANCE:	129.4	-0.2
POREWATER PRESSURE:	259.2	0.1

SYMBOLS

▼ Water level

RDCL



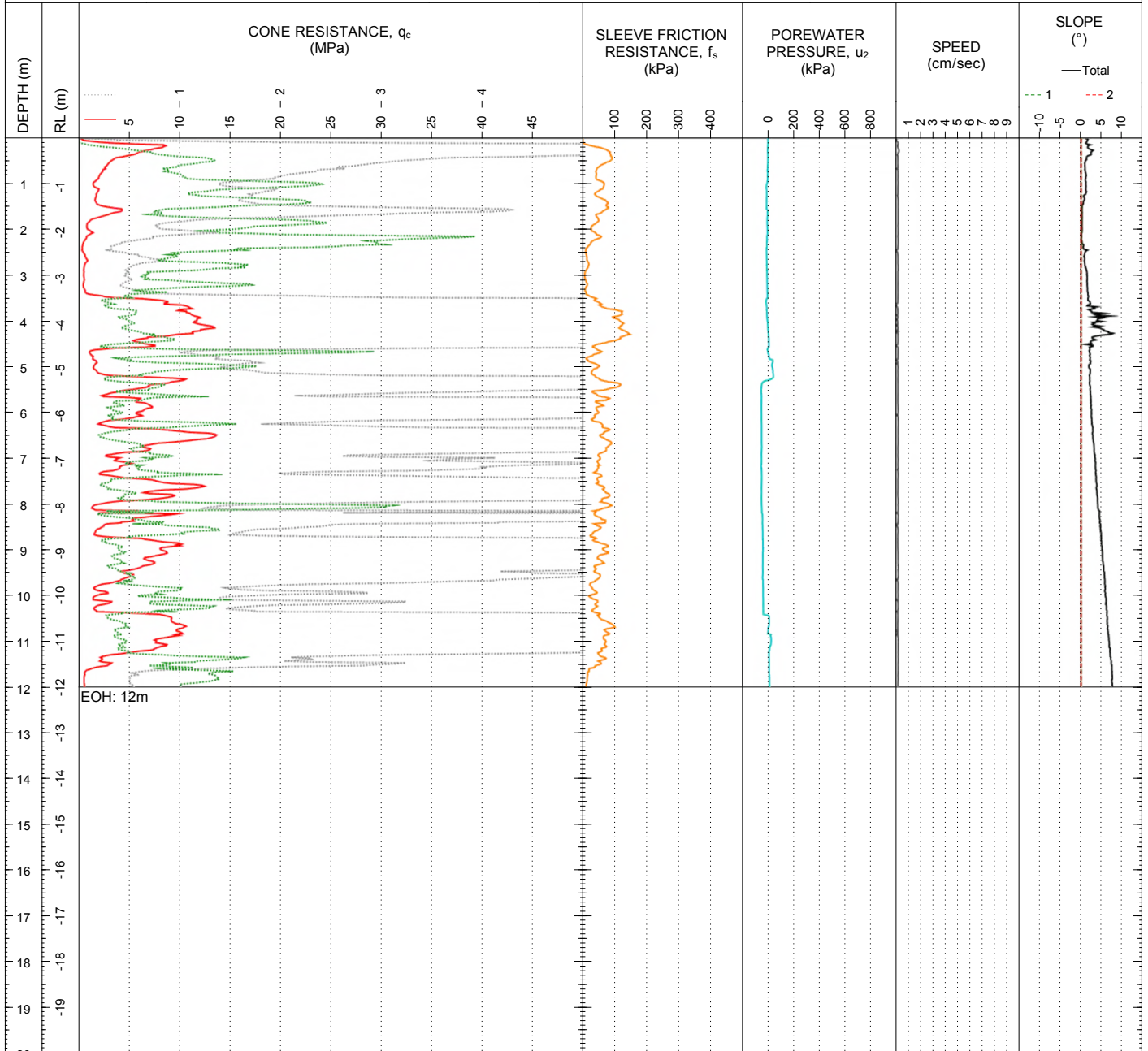
# CONE PENETRATION TEST LOG

CPT03

SHEET 1 OF 1

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM2000	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928584.00	STARTED: 04/12/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607650.00	FINISHED: 04/12/2017
OFFICE: RDCL	DATUM:	CHECKED BY: PG DATE: 05/12/2017
ENGINEER: CAW	ELEVATION: 0	STATUS: Final data

CONTRACTOR: RDCL MACHINE: Geoprobe 54LT OPERATOR: SLK



FRICITION RATIO (%)		REMARKS
CONE INFORMATION		
CONE ID: 4483	CONE TYPE: -	SYMBOLS ▼ Water level
CONE RESISTANCE:	INITIAL: 6.8749 FINAL: -0.053	
SLEEVE FRICTION RESISTANCE:	129.7 -0.1	
POREWATER PRESSURE:	259.3 -5.1	



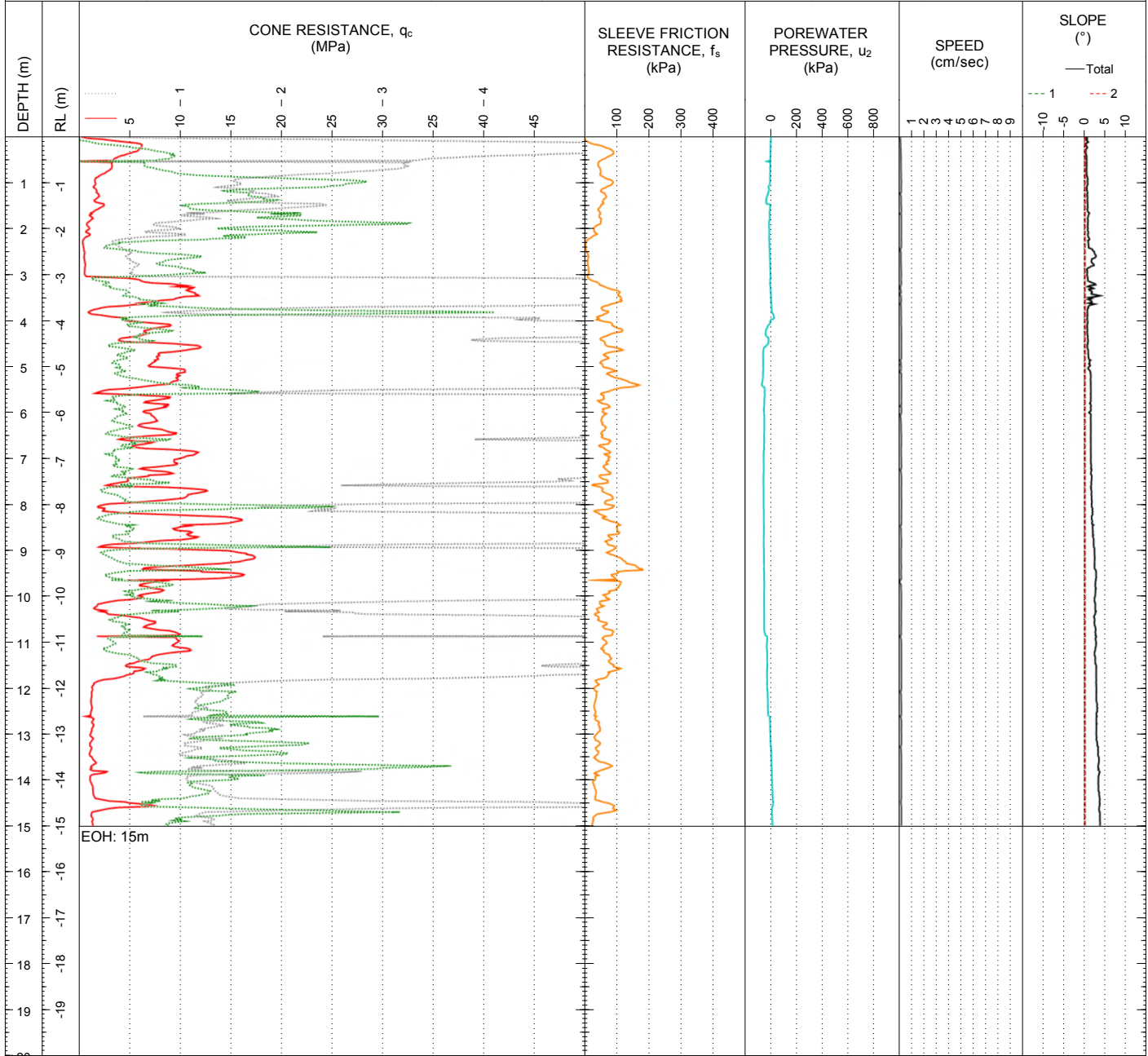
# CONE PENETRATION TEST LOG

CPT04

SHEET 1 OF 1

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM2000	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928635.00	STARTED: 05/12/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607725.00	FINISHED: 05/12/2017
OFFICE: RDCL	DATUM:	CHECKED BY: EC DATE: 07/12/2017
ENGINEER: CAW	ELEVATION: 0	STATUS: Final data

CONTRACTOR: RDCL MACHINE: Geoprobe 54LT OPERATOR: SLK



EOH: 15m

REMARKS

CONE INFORMATION

CONE ID: 4483 CONE TYPE: -

	INITIAL	FINAL
CONE RESISTANCE:	6.9009	-0.0576
SLEEVE FRICTION RESISTANCE:	129.5	-0.1
POREWATER PRESSURE:	258.1	-2.8

SYMBOLS

▼ Water level

RDCL



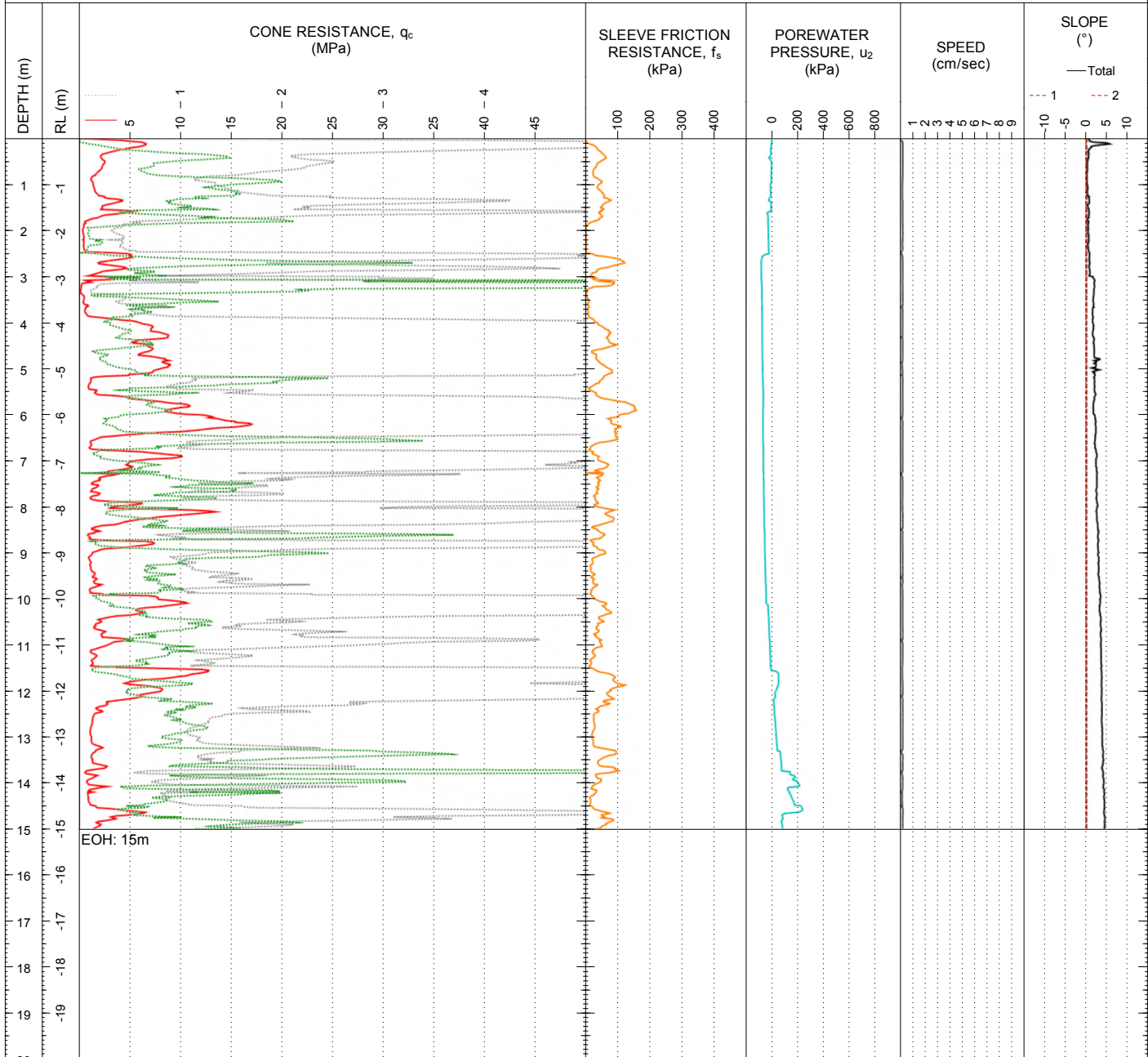
# CONE PENETRATION TEST LOG

CPT05

SHEET 1 OF 1

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM2000	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928590.00	STARTED: 05/12/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607607.00	FINISHED: 05/12/2017
OFFICE: RDCL	DATUM:	CHECKED BY: EC DATE: 07/12/2017
ENGINEER: CAW	ELEVATION: 0	STATUS: Final data

CONTRACTOR: RDCL MACHINE: Geoprobe 54LT OPERATOR: SLK



REMARKS

CONE INFORMATION		
CONE ID: 4483	CONE TYPE: -	
	INITIAL	FINAL
CONE RESISTANCE:	6.8868	-0.0457
SLEEVE FRICTION RESISTANCE:	129.3	0.1
POREWATER PRESSURE:	258.3	1.9

SYMBOLS  
 ▼ Water level





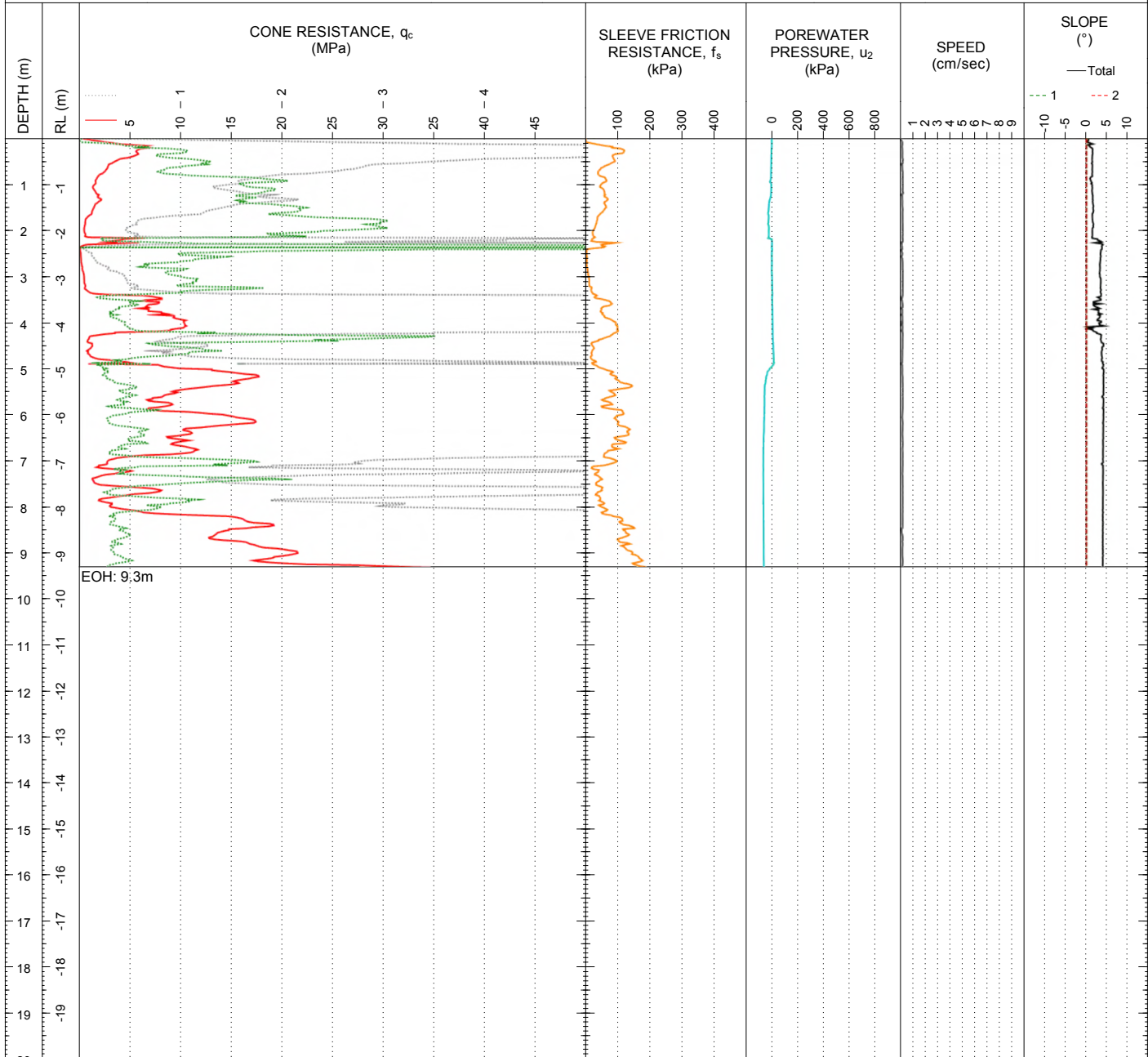
# CONE PENETRATION TEST LOG

CPT06

SHEET 1 OF 1

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM2000	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928649.00	STARTED: 05/12/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607659.00	FINISHED: 05/12/2017
OFFICE: RDCL	DATUM:	CHECKED BY: EC DATE: 07/12/2017
ENGINEER: CAW	ELEVATION: 0	STATUS: Final data

CONTRACTOR: RDCL MACHINE: Geoprobe 54LT OPERATOR: SLK



FRICITION RATIO (%)		REMARKS
CONE INFORMATION		
CONE ID: 4483	CONE TYPE: -	SYMBOLS ▼ Water level
CONE RESISTANCE:	INITIAL: 6.8935 FINAL: -4.6556	
SLEEVE FRICTION RESISTANCE:	129.4 0	
POREWATER PRESSURE:	258.6 -45.6	



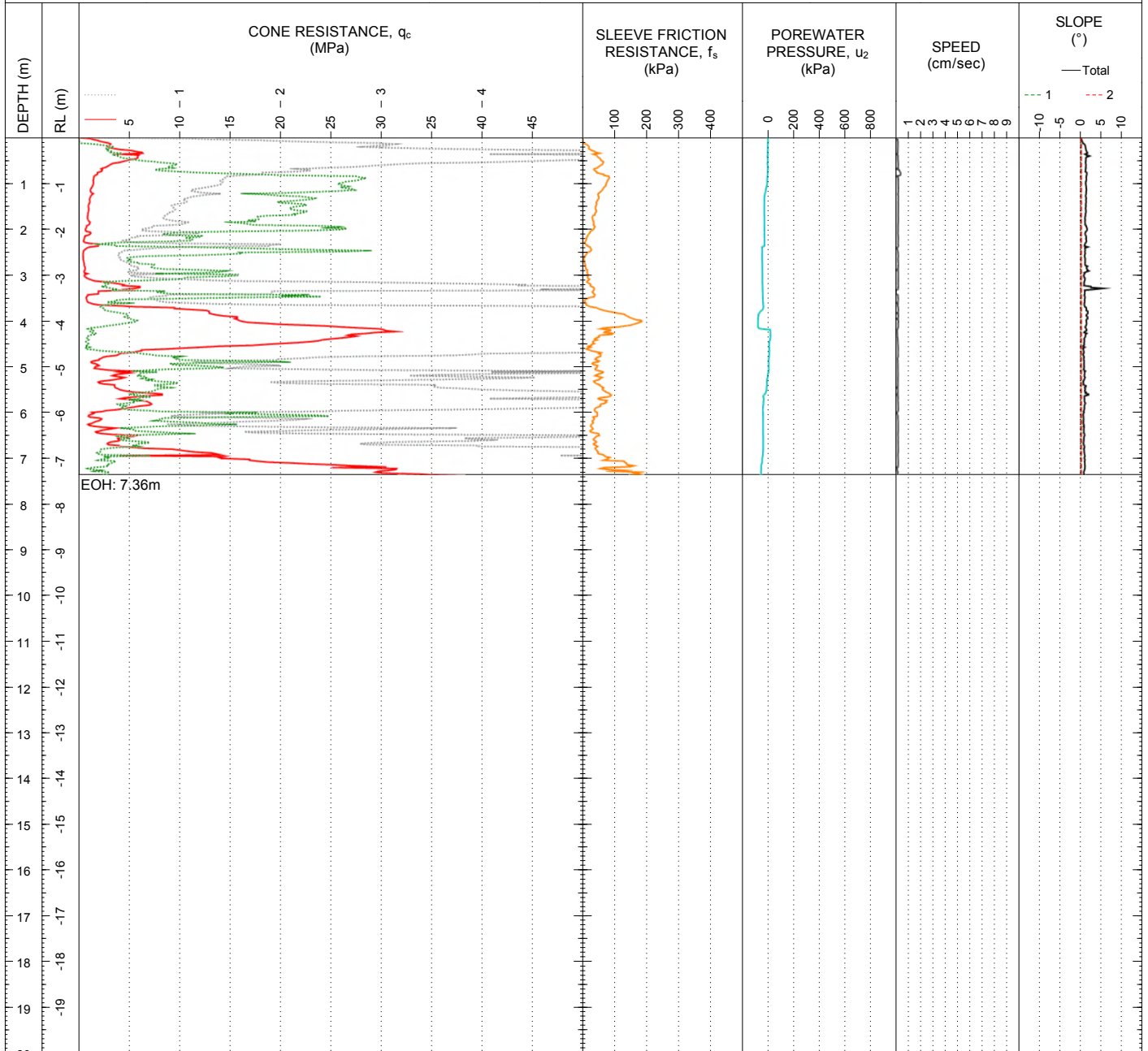
# CONE PENETRATION TEST LOG

CPT07

SHEET 1 OF 1

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM2000	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928709.00	STARTED: 05/12/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607712.00	FINISHED: 05/12/2017
OFFICE: RDCL	DATUM:	CHECKED BY: EC DATE: 07/12/2017
ENGINEER: CAW	ELEVATION: 0	STATUS: Final data

CONTRACTOR: RDCL MACHINE: Geoprobe 54LT OPERATOR: SLK



EOH: 7.36m

FRICION RATIO (%)

REMARKS

CONE INFORMATION

CONE ID: 4483

CONE TYPE: -

	INITIAL	FINAL
CONE RESISTANCE:	6.8664	-0.071
SLEEVE FRICTION RESISTANCE:	129.9	-0.2
POREWATER PRESSURE:	258.6	-1.3

SYMBOLS

▼ Water level

RDCL



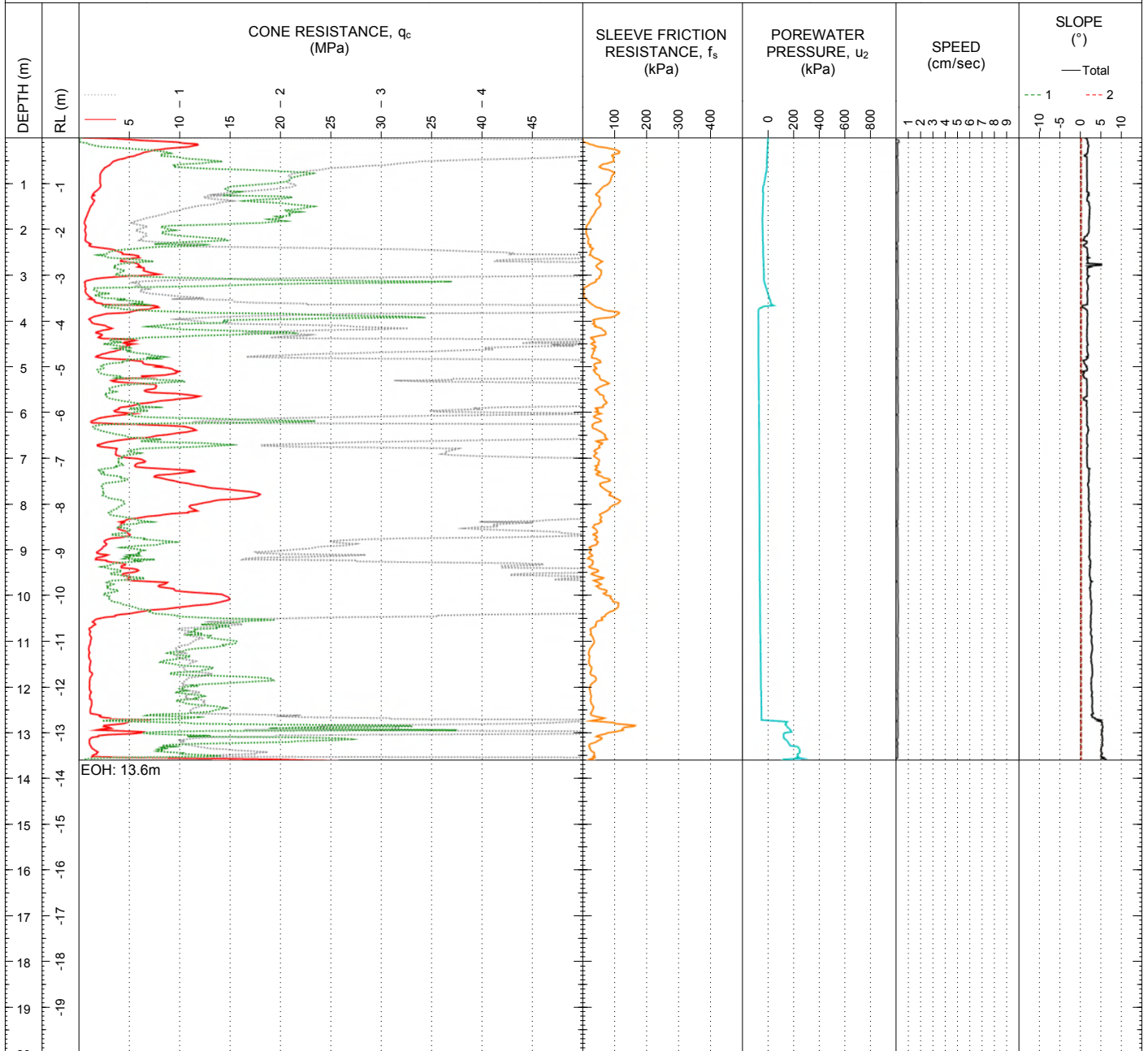
# CONE PENETRATION TEST LOG

CPT08

SHEET 1 OF 1

CLIENT: Greenstone Land Developments Ltd	PROJECTION: NZTM2000	LOCATION: Lyndhurst Road, Frimley
PROJECT: 170602050_Stages 3-5	EASTING: 1928662.00	STARTED: 05/12/2017
LOCATION: Lots 1 - 44 Lyndhurst Rd, Hastings	NORTHING: 5607829.00	FINISHED: 05/12/2017
OFFICE: RDCL	DATUM:	CHECKED BY: EC DATE: 07/12/2017
ENGINEER: CAW	ELEVATION: 0	STATUS: Final data

CONTRACTOR: RDCL MACHINE: Geoprobe 54LT OPERATOR: SLK



EOH: 13.6m

REMARKS

CONE INFORMATION

CONE ID: 4483	CONE TYPE: -	
	INITIAL	FINAL
CONE RESISTANCE:	6.8732	140.97
SLEEVE FRICTION RESISTANCE:	129.9	-0.1
POREWATER PRESSURE:	258.3	4458.2

SYMBOLS

▼ Water level

RDCL

## APPENDIX C – LIQUEFACTION ASSESSMENT OUTPUTS



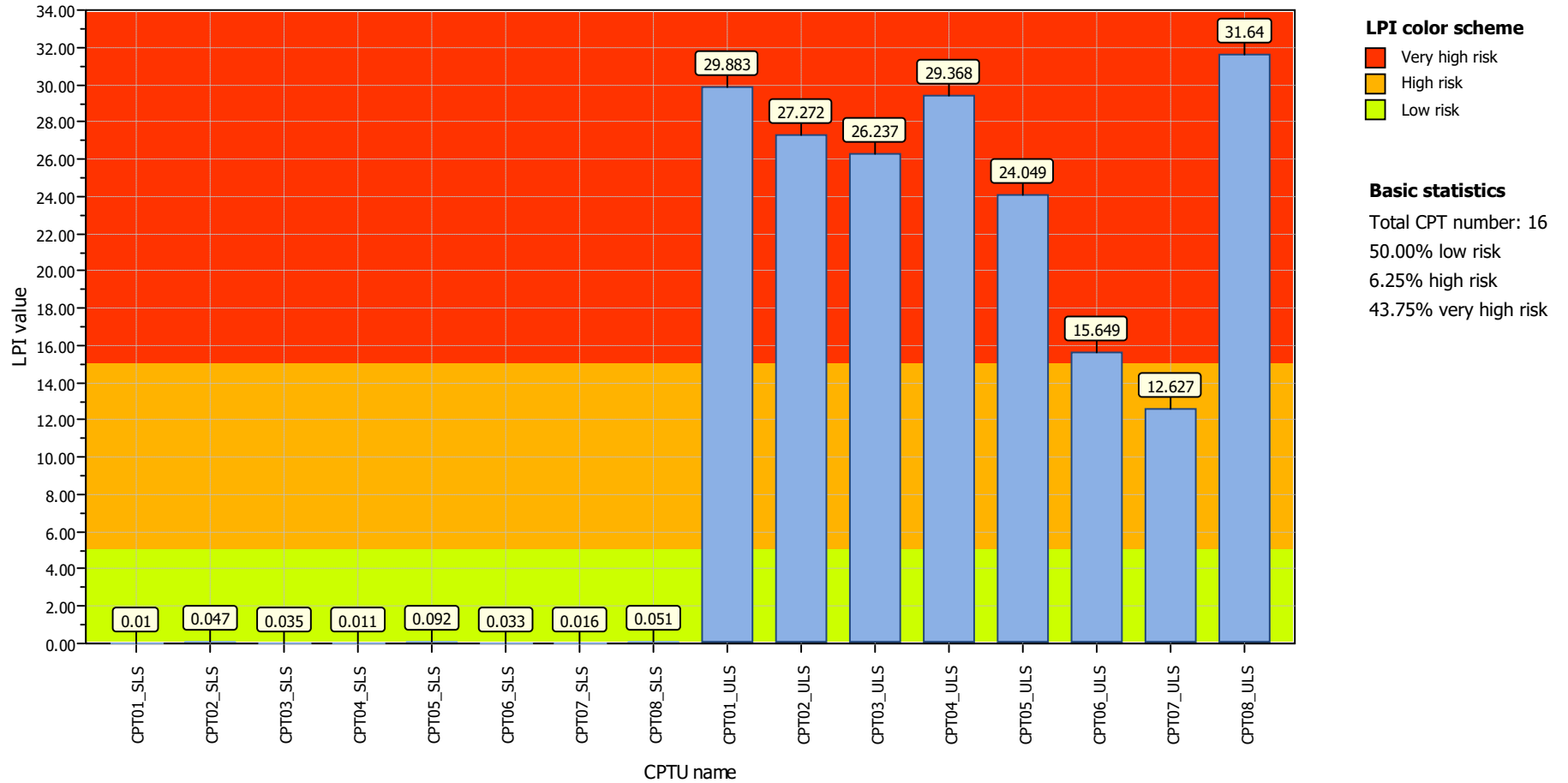
**RDCL**

**RDCL**  
Geotechnical Engineers  
8/308 Queen St, Hastings  
<http://www.rdcl.co.nz>

**Project title : 170602050\_Greenstone Stages 3-5**

**Location : Lots 1 - 44 Lyndhurst Rd**

### Overall Liquefaction Potential Index report

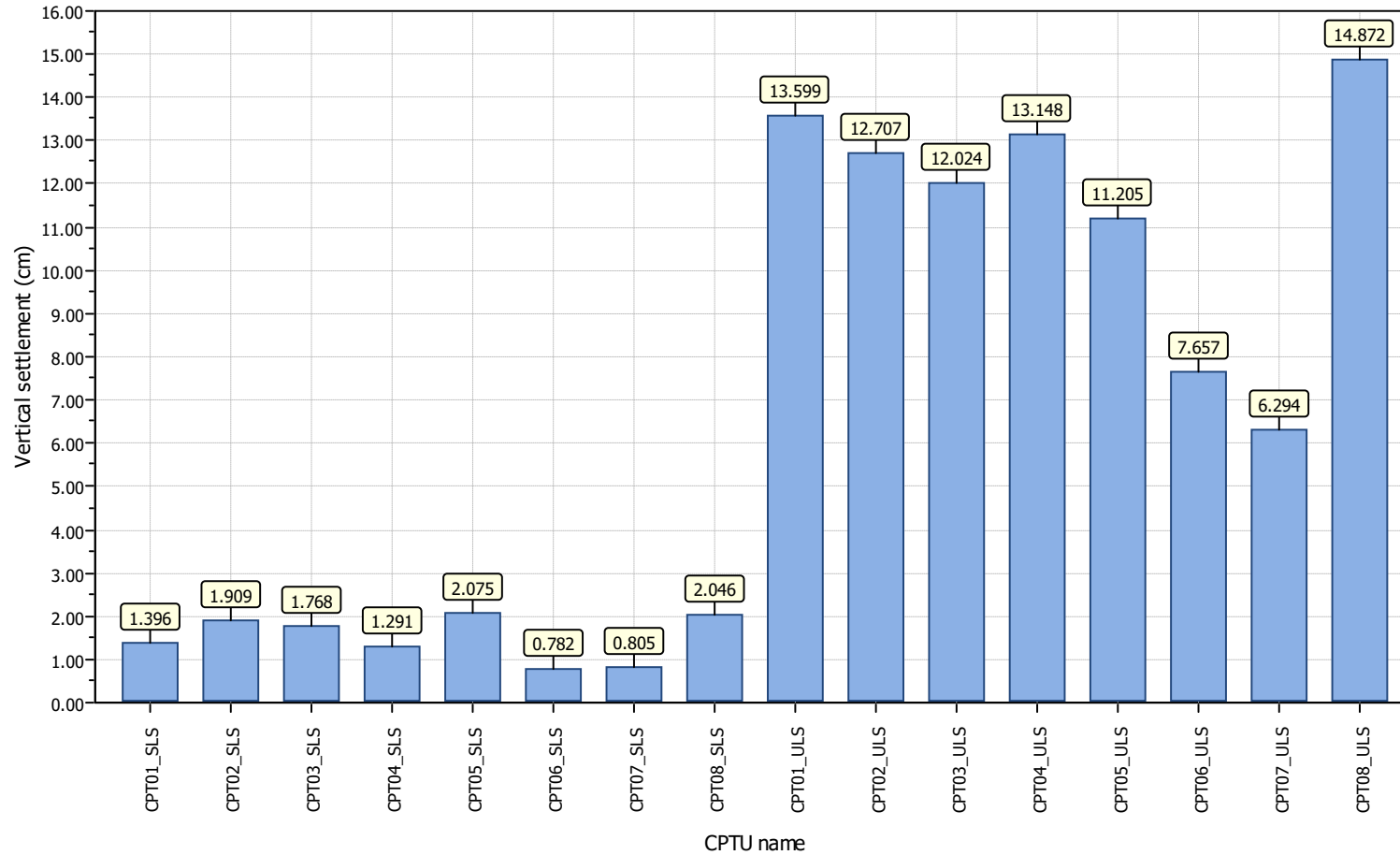




Project title : 170602050\_Greenstone Stages 3-5

Location : Lots 1 - 44 Lyndhurst Rd

### Overall vertical settlements report





# RDCL

**RDCL**  
Geotechnical Engineers  
8/308 Queen St, Hastings  
<http://www.rdcl.co.nz>

## LIQUEFACTION ANALYSIS REPORT

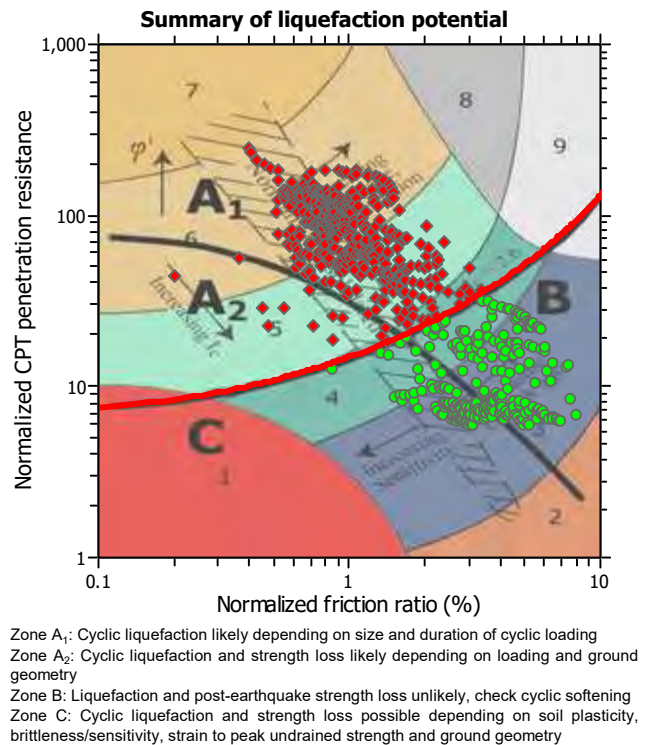
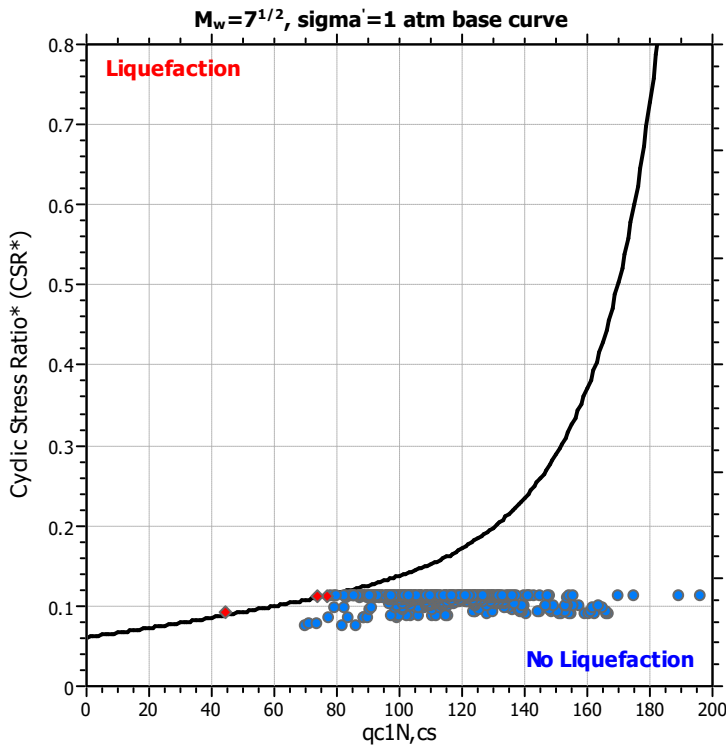
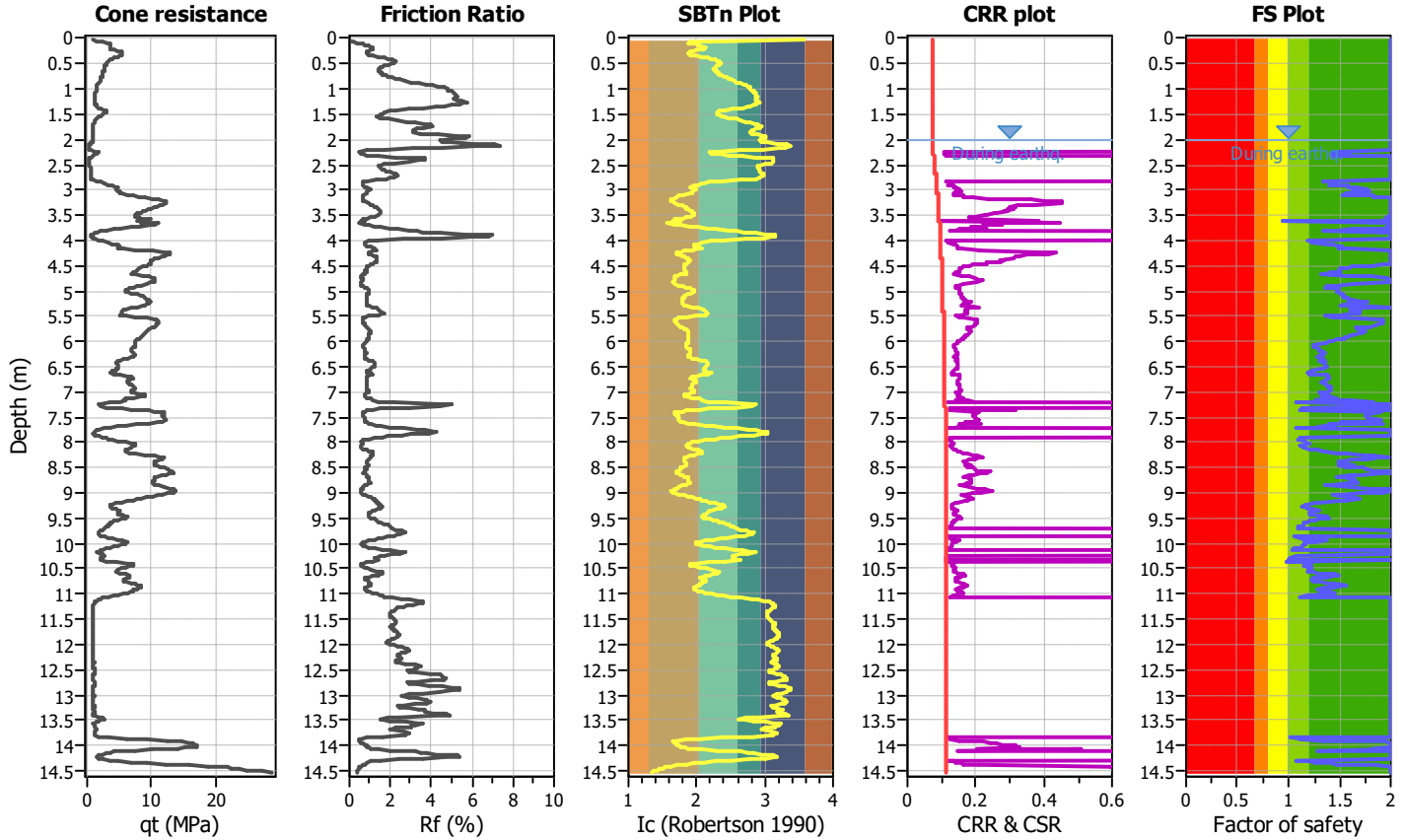
**Project title : 170602050\_Greenstone Stages 3-5**

**Location : Lots 1 - 44 Lyndhurst Rd**

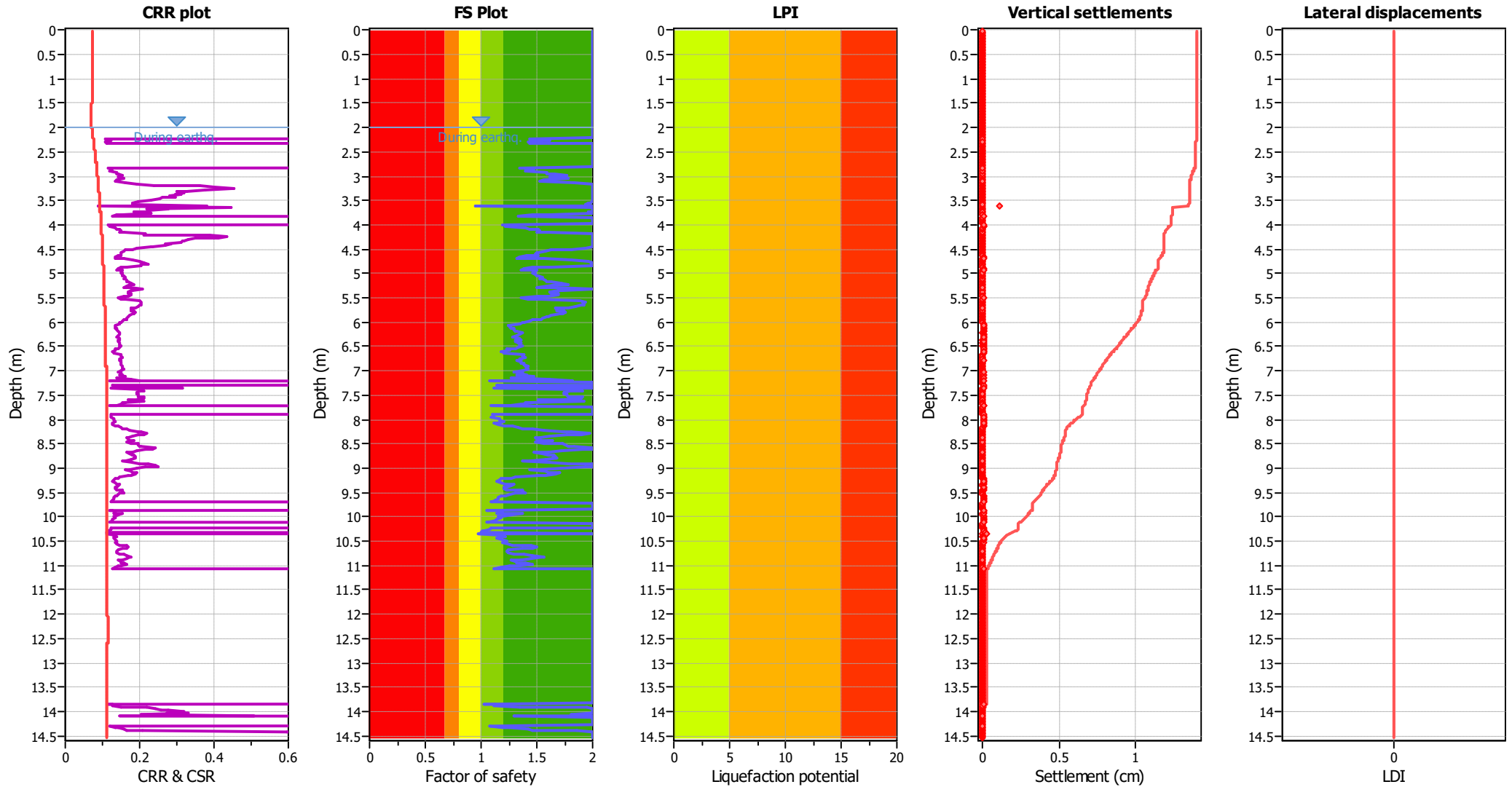
**CPT file : CPT01\_SLS**

### Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	2.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	2.00 m	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	15.00 m
Earthquake magnitude $M_w$ :	7.50	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method
Peak ground acceleration:	0.11	Unit weight calculation:	Based on SBT	$K_g$ applied:	Yes		



### Liquefaction analysis overall plots



**Input parameters and analysis data**

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	2.00 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_{\sigma}$ applied:	Yes
Earthquake magnitude $M_w$ :	7.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.11	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	2.00 m	Fill height:	N/A	Limit depth:	15.00 m

**F.S. color scheme**

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

**LPI color scheme**

- Very high risk
- High risk
- Low risk





## LIQUEFACTION ANALYSIS REPORT

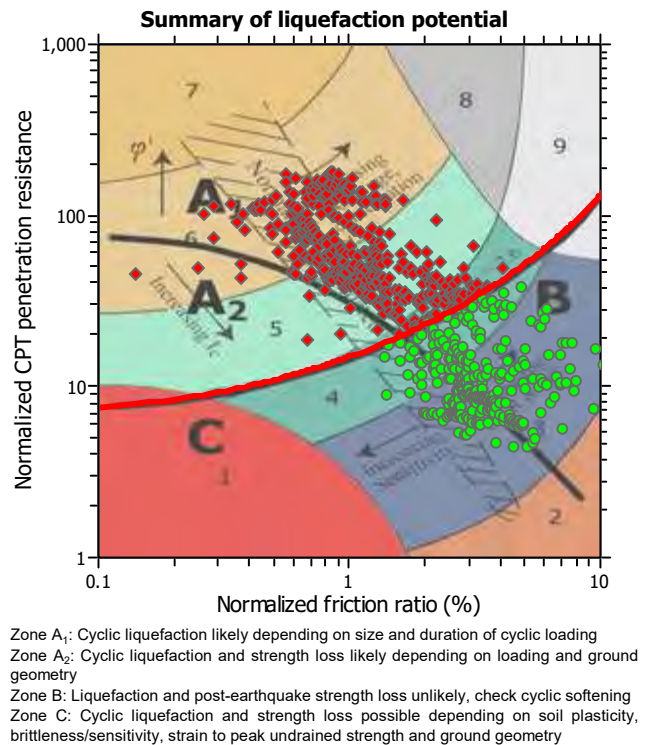
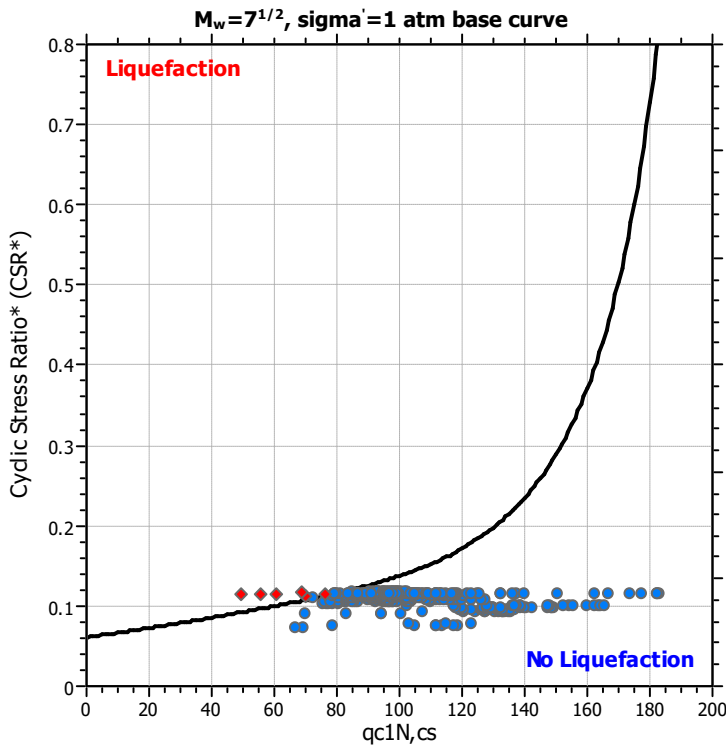
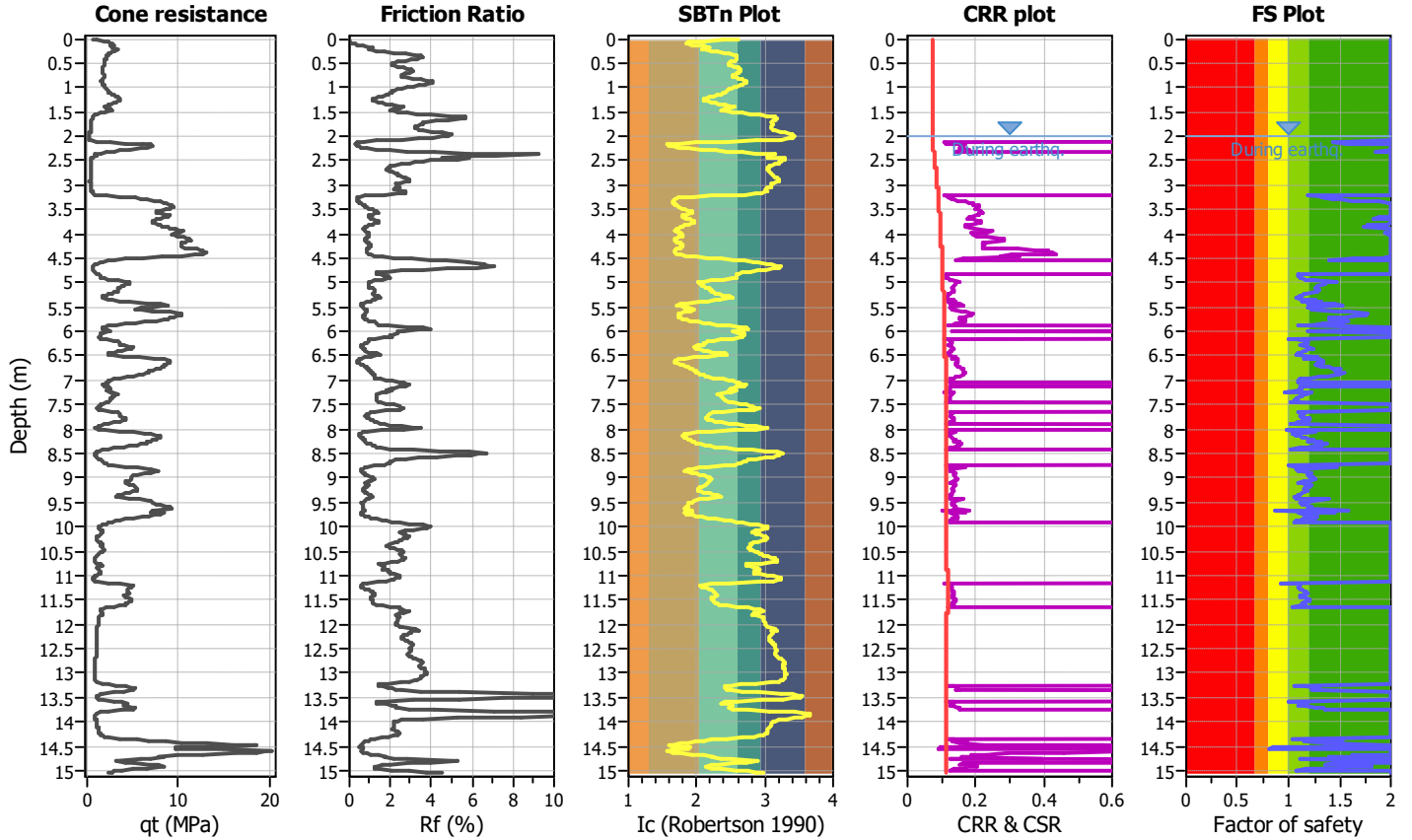
**Project title : 170602050\_Greenstone Stages 3-5**

**Location : Lots 1 - 44 Lyndhurst Rd**

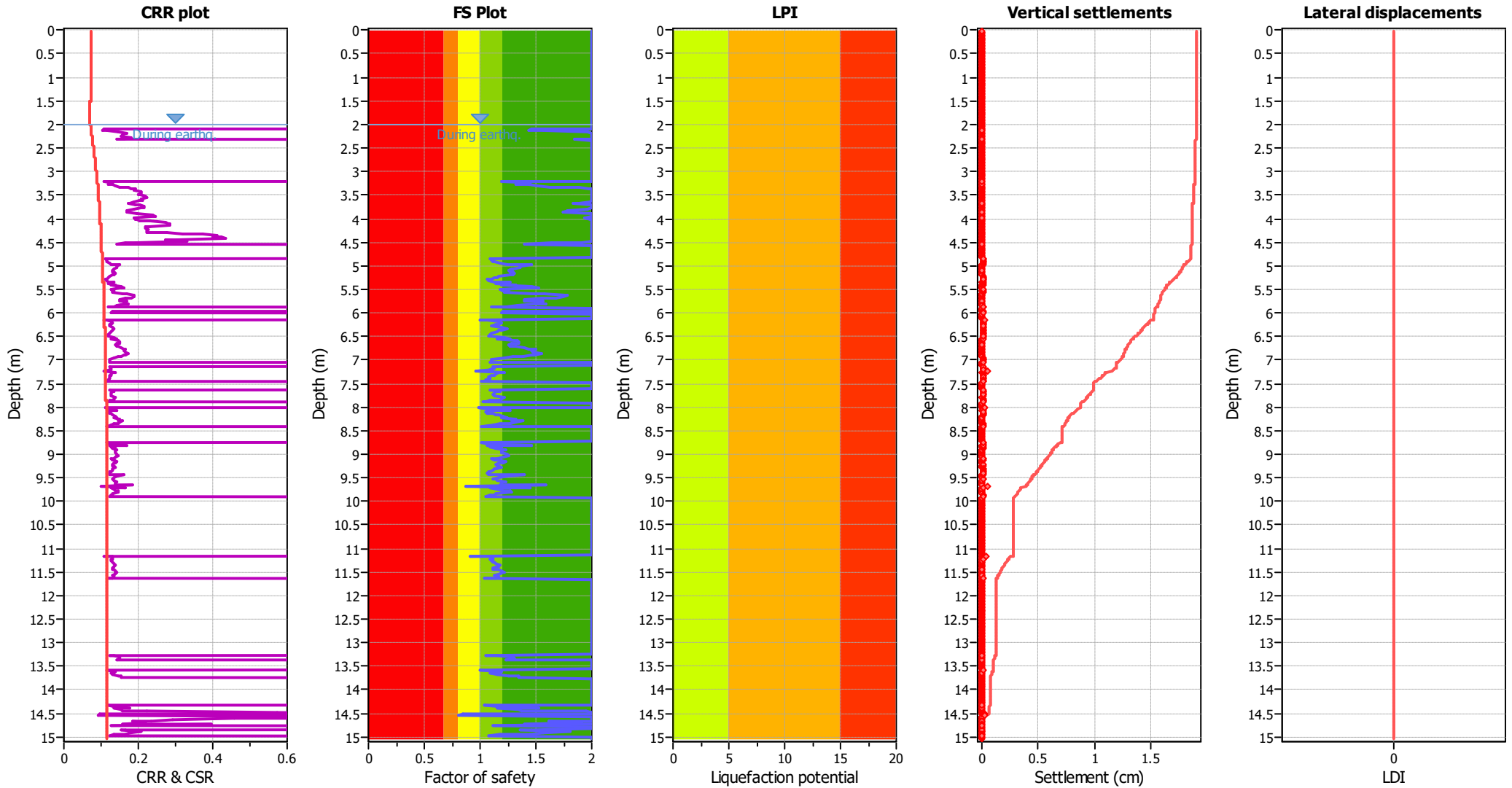
**CPT file : CPT02\_SLS**

### Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	2.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	2.00 m	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	15.00 m
Earthquake magnitude $M_w$ :	7.50	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method
Peak ground acceleration:	0.11	Unit weight calculation:	Based on SBT	$K_\sigma$ applied:	Yes		



### Liquefaction analysis overall plots



#### Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	2.00 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_{\sigma}$ applied:	Yes
Earthquake magnitude $M_w$ :	7.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.11	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	2.00 m	Fill height:	N/A	Limit depth:	15.00 m

#### F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

#### LPI color scheme

- Very high risk
- High risk
- Low risk

## LIQUEFACTION ANALYSIS REPORT

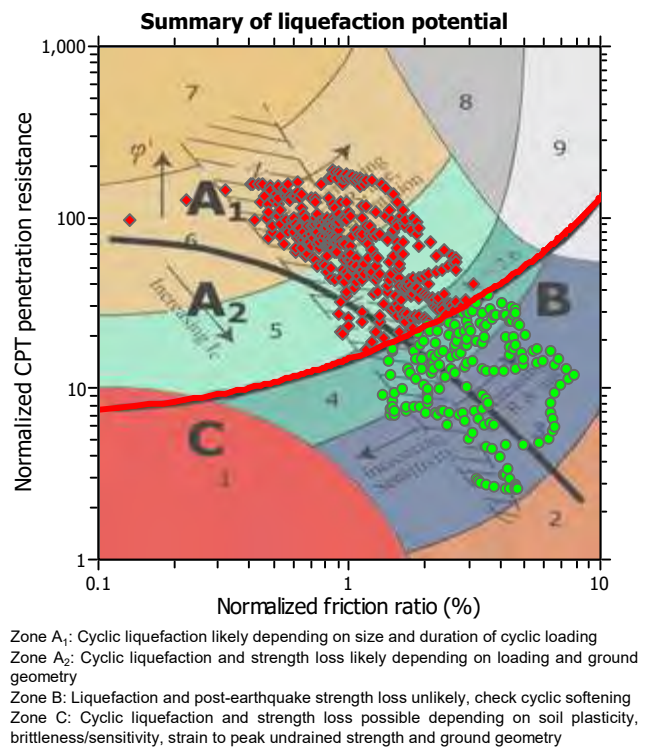
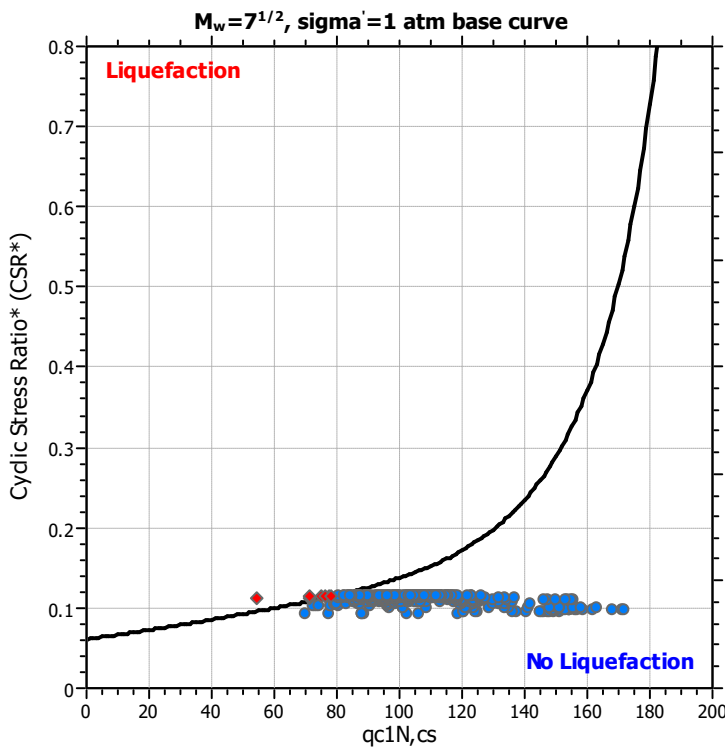
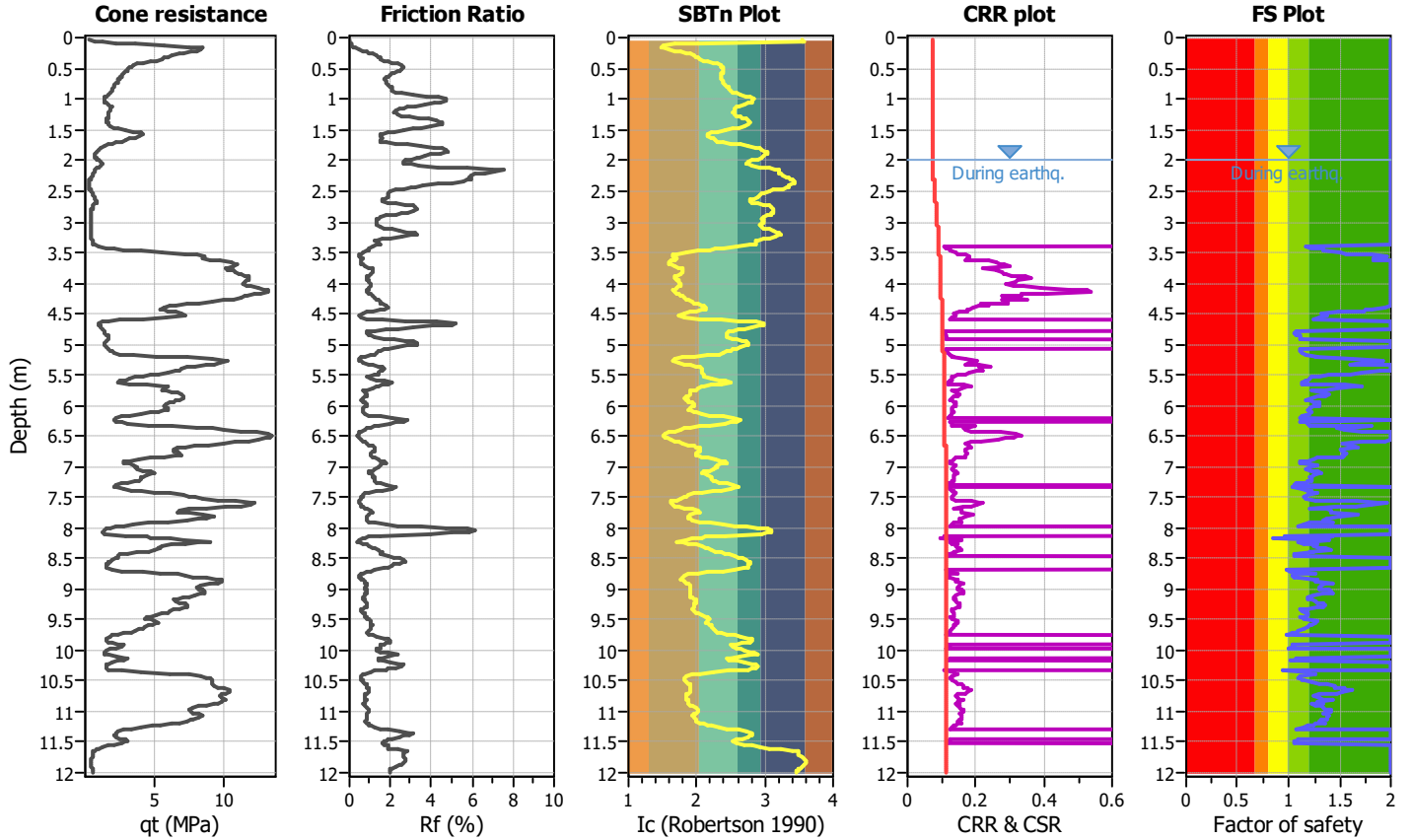
**Project title : 170602050\_Greenstone Stages 3-5**

**Location : Lots 1 - 44 Lyndhurst Rd**

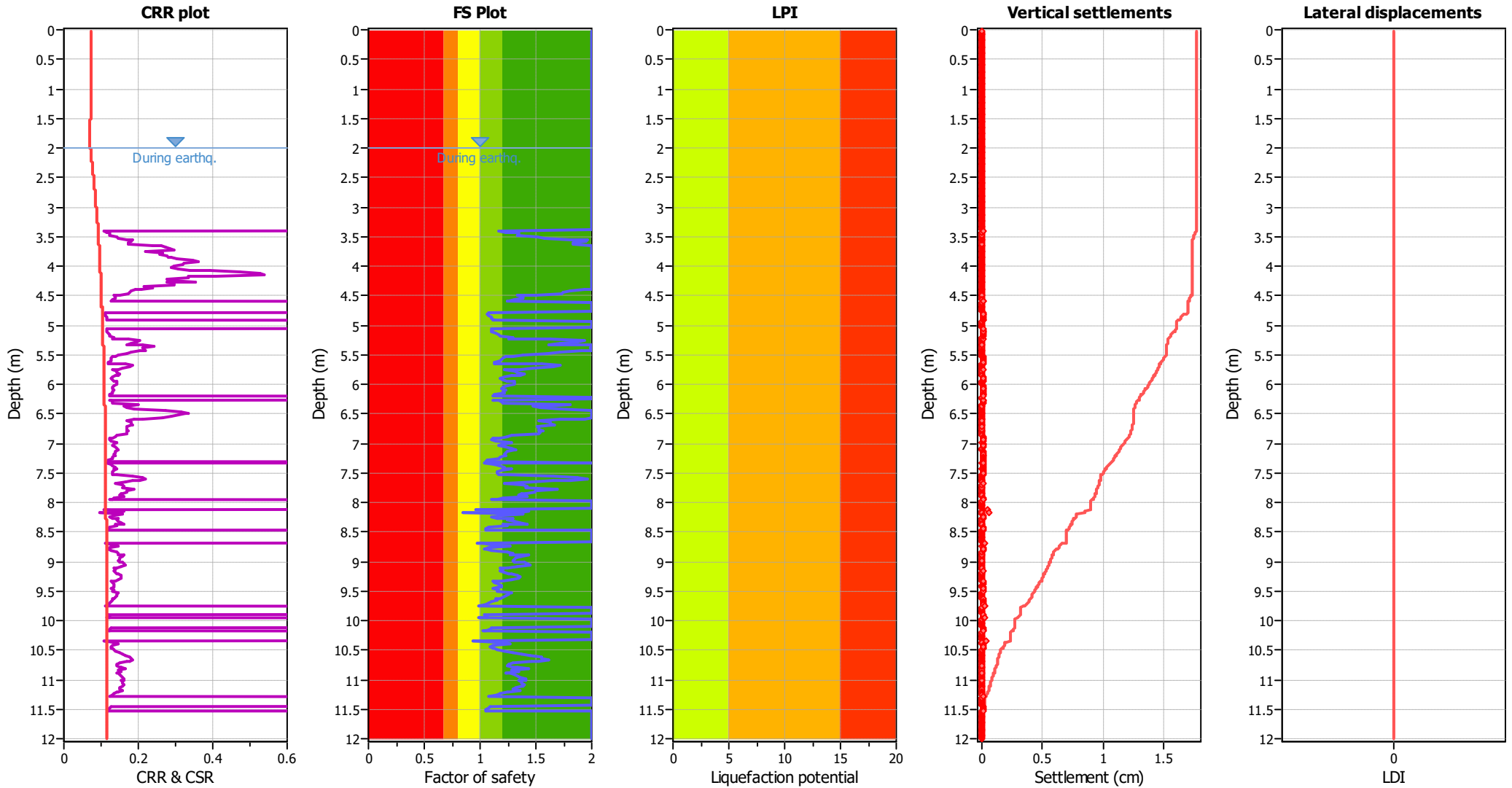
**CPT file : CPT03\_SLS**

**Input parameters and analysis data**

Analysis method:	B&I (2014)	G.W.T. (in-situ):	2.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	2.00 m	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	15.00 m
Earthquake magnitude $M_w$ :	7.50	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method
Peak ground acceleration:	0.11	Unit weight calculation:	Based on SBT	$K_\sigma$ applied:	Yes		



### Liquefaction analysis overall plots



**Input parameters and analysis data**

Analysis method:	B&I (2014)	Depth to GWT (earthq.):	2.00 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_{\sigma}$ applied:	Yes
Earthquake magnitude $M_w$ :	7.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.11	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	2.00 m	Fill height:	N/A	Limit depth:	15.00 m

**F.S. color scheme**

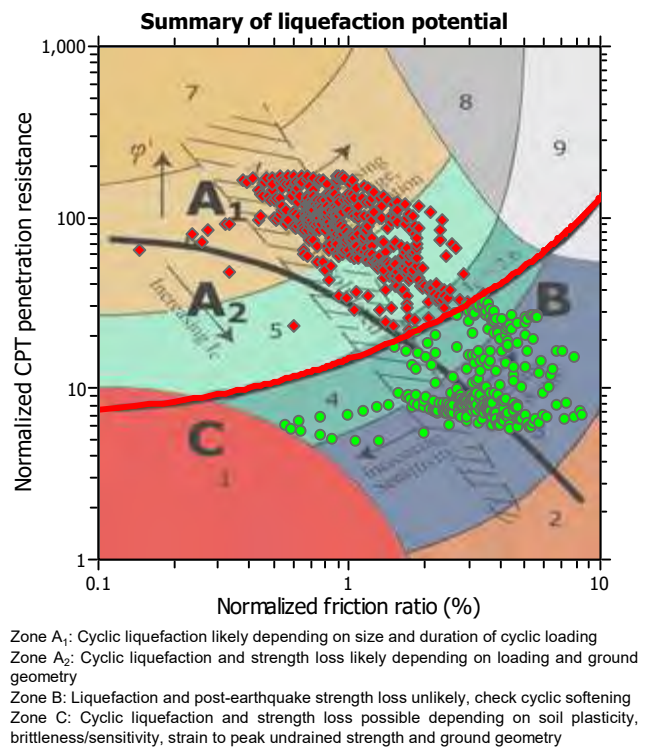
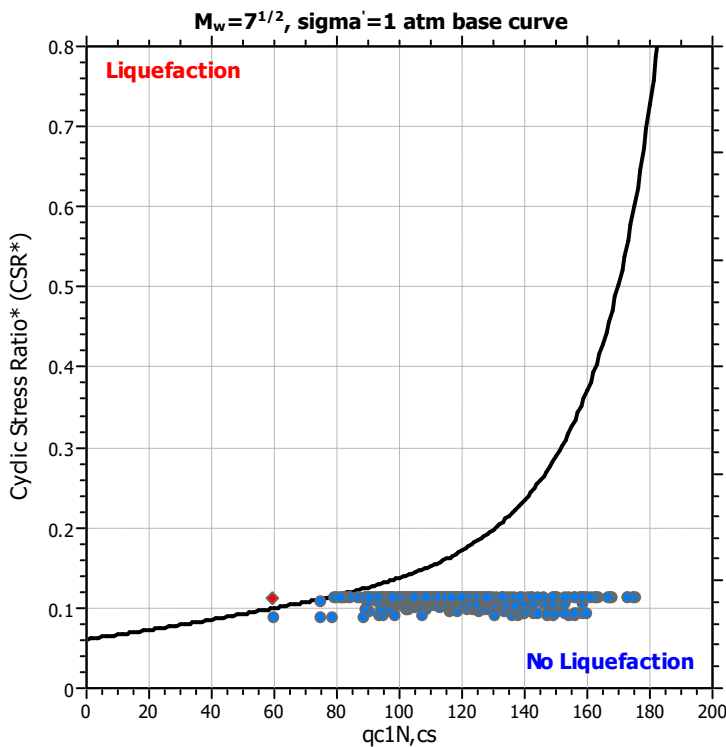
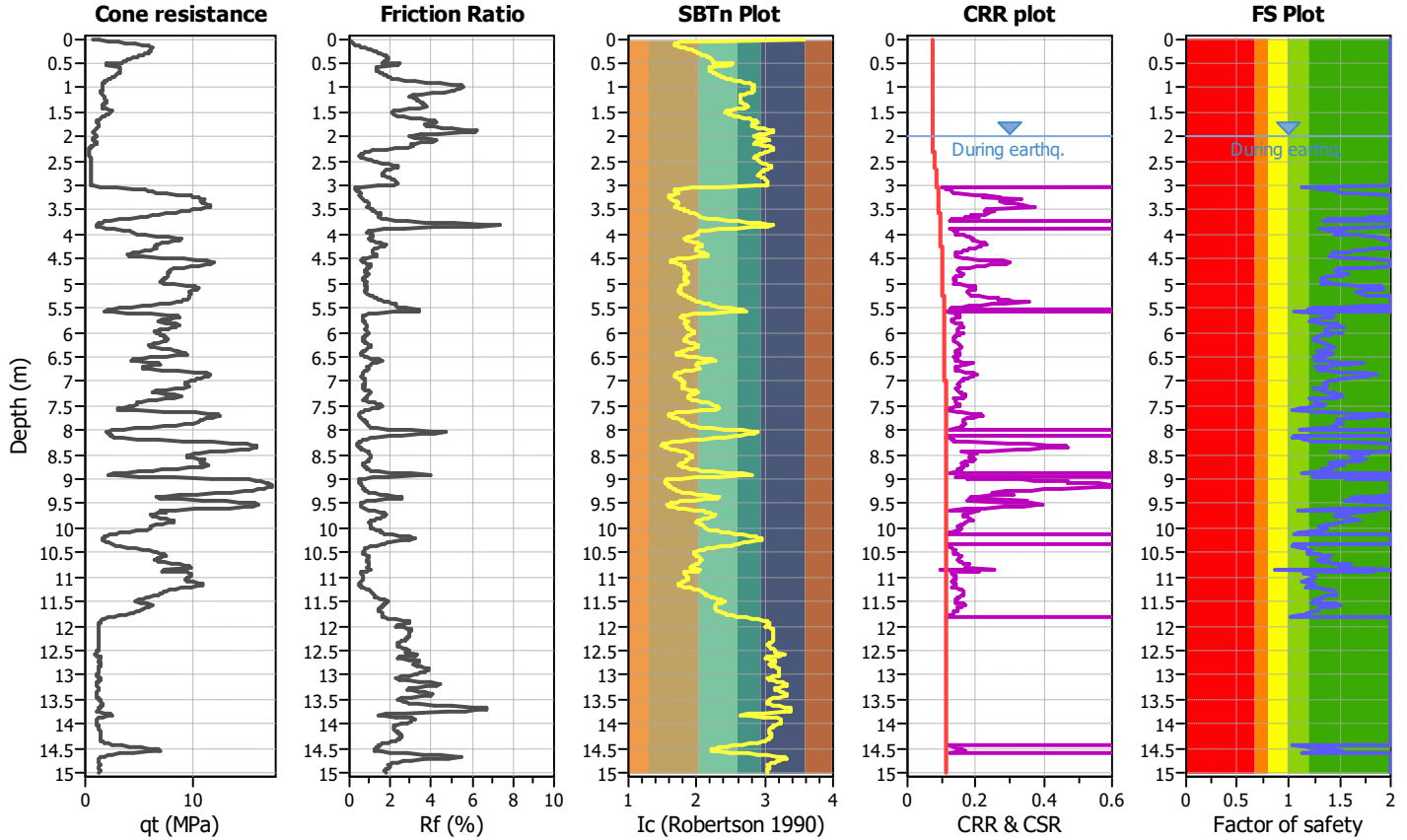
- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

**LPI color scheme**

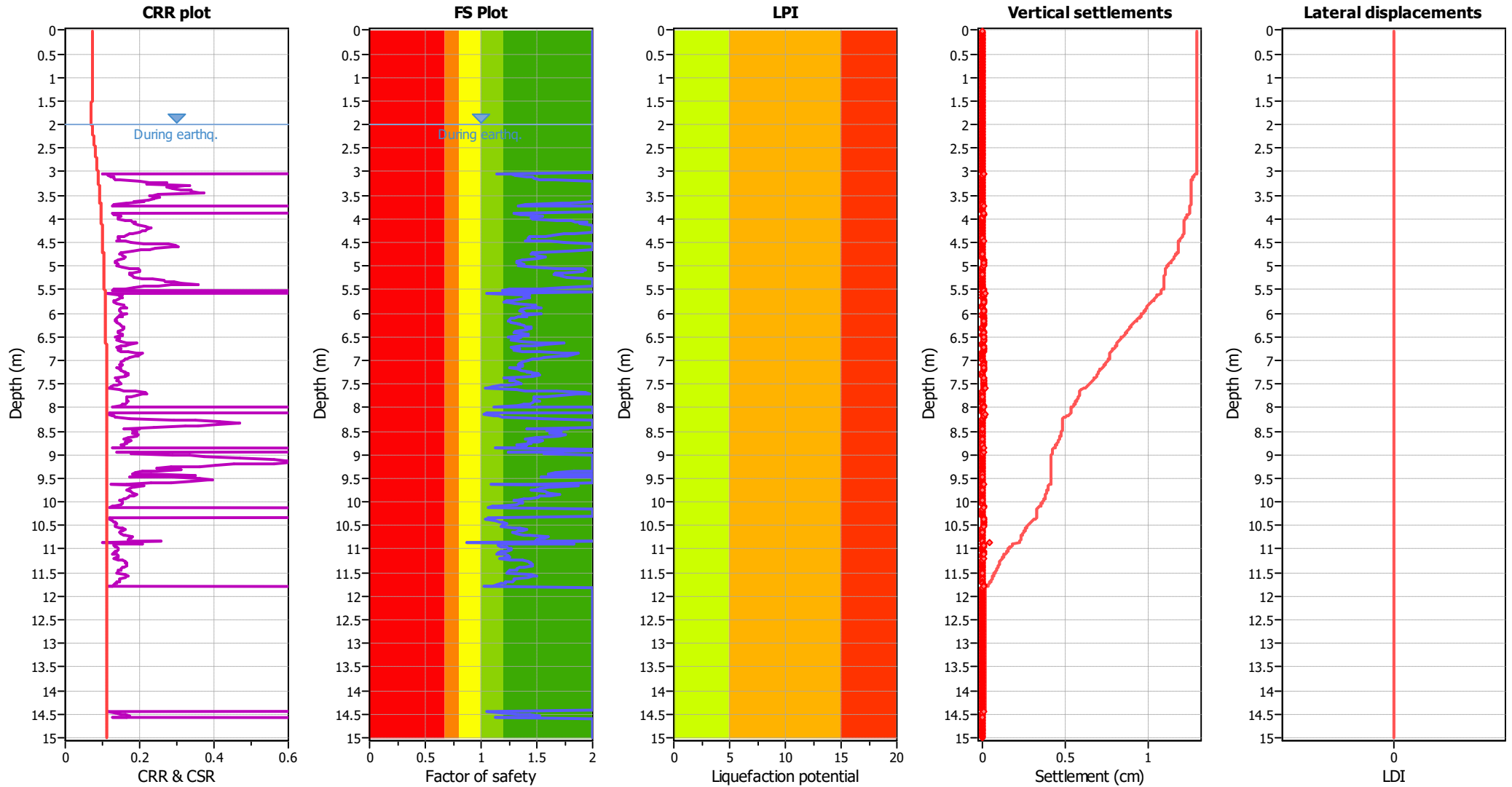
- Very high risk
- High risk
- Low risk

**LIQUEFACTION ANALYSIS REPORT**
**Project title : 170602050\_Greenstone Stages 3-5**
**Location : Lots 1 - 44 Lyndhurst Rd**
**CPT file : CPT04\_SLS**
**Input parameters and analysis data**

Analysis method:	B&I (2014)	G.W.T. (in-situ):	2.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	2.00 m	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	15.00 m
Earthquake magnitude $M_w$ :	7.50	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method
Peak ground acceleration:	0.11	Unit weight calculation:	Based on SBT	$K_\sigma$ applied:	Yes		



### Liquefaction analysis overall plots



**Input parameters and analysis data**

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	2.00 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_{\sigma}$ applied:	Yes
Earthquake magnitude $M_w$ :	7.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.11	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	2.00 m	Fill height:	N/A	Limit depth:	15.00 m

**F.S. color scheme**

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

**LPI color scheme**

- Very high risk
- High risk
- Low risk

## LIQUEFACTION ANALYSIS REPORT

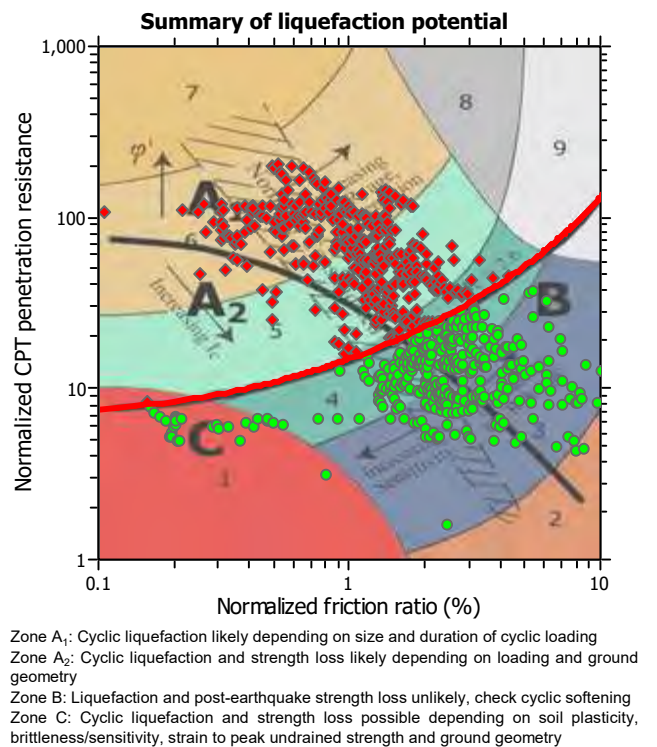
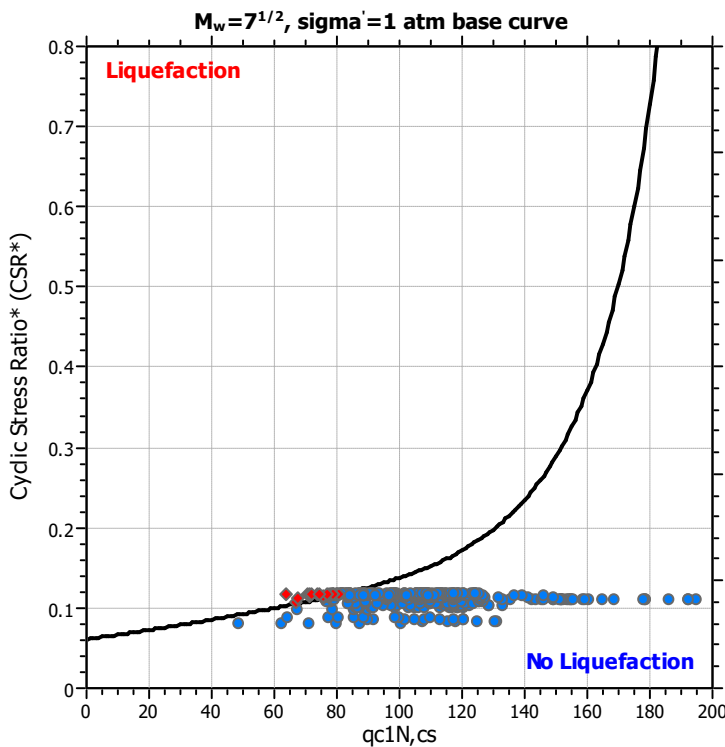
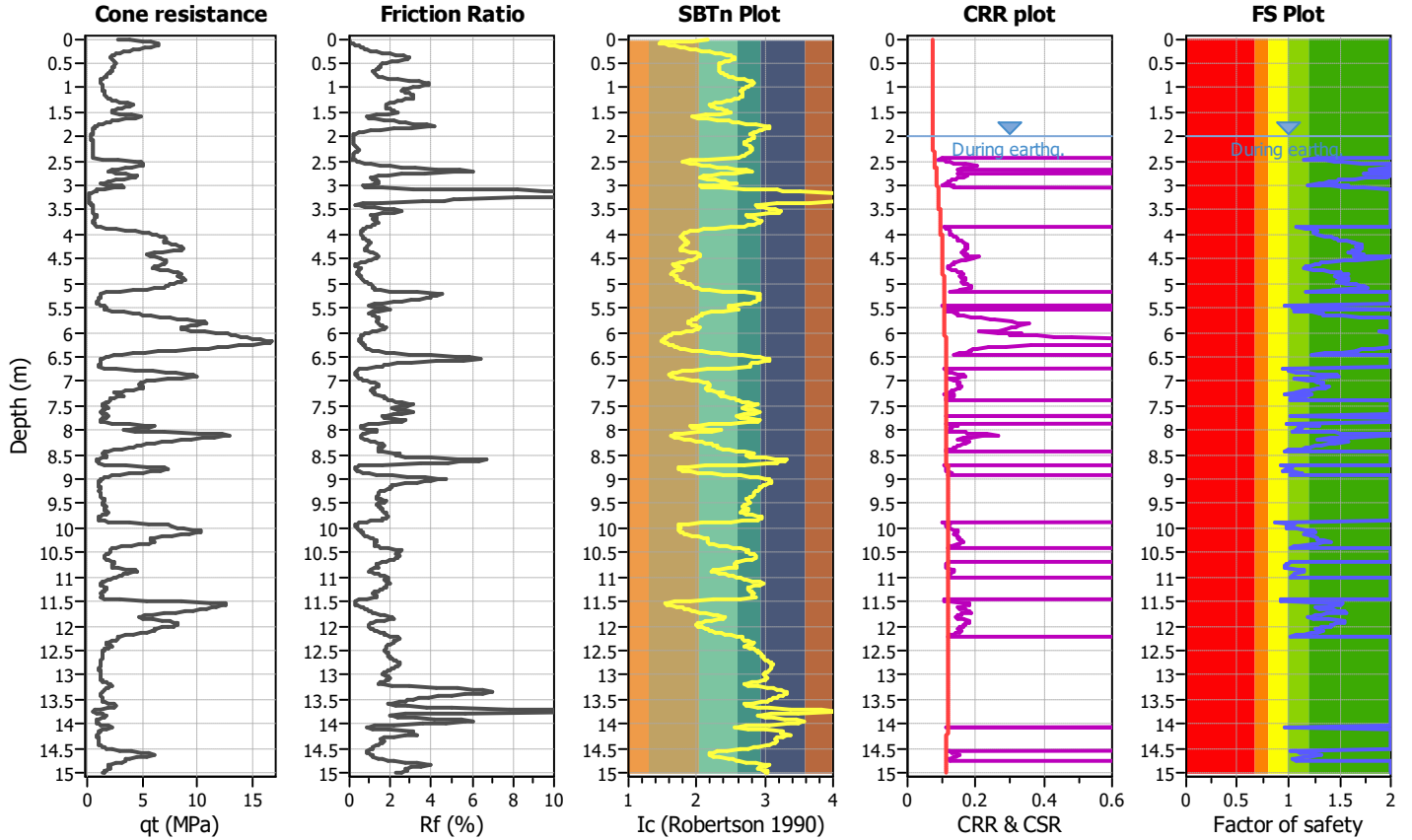
**Project title : 170602050\_Greenstone Stages 3-5**

**Location : Lots 1 - 44 Lyndhurst Rd**

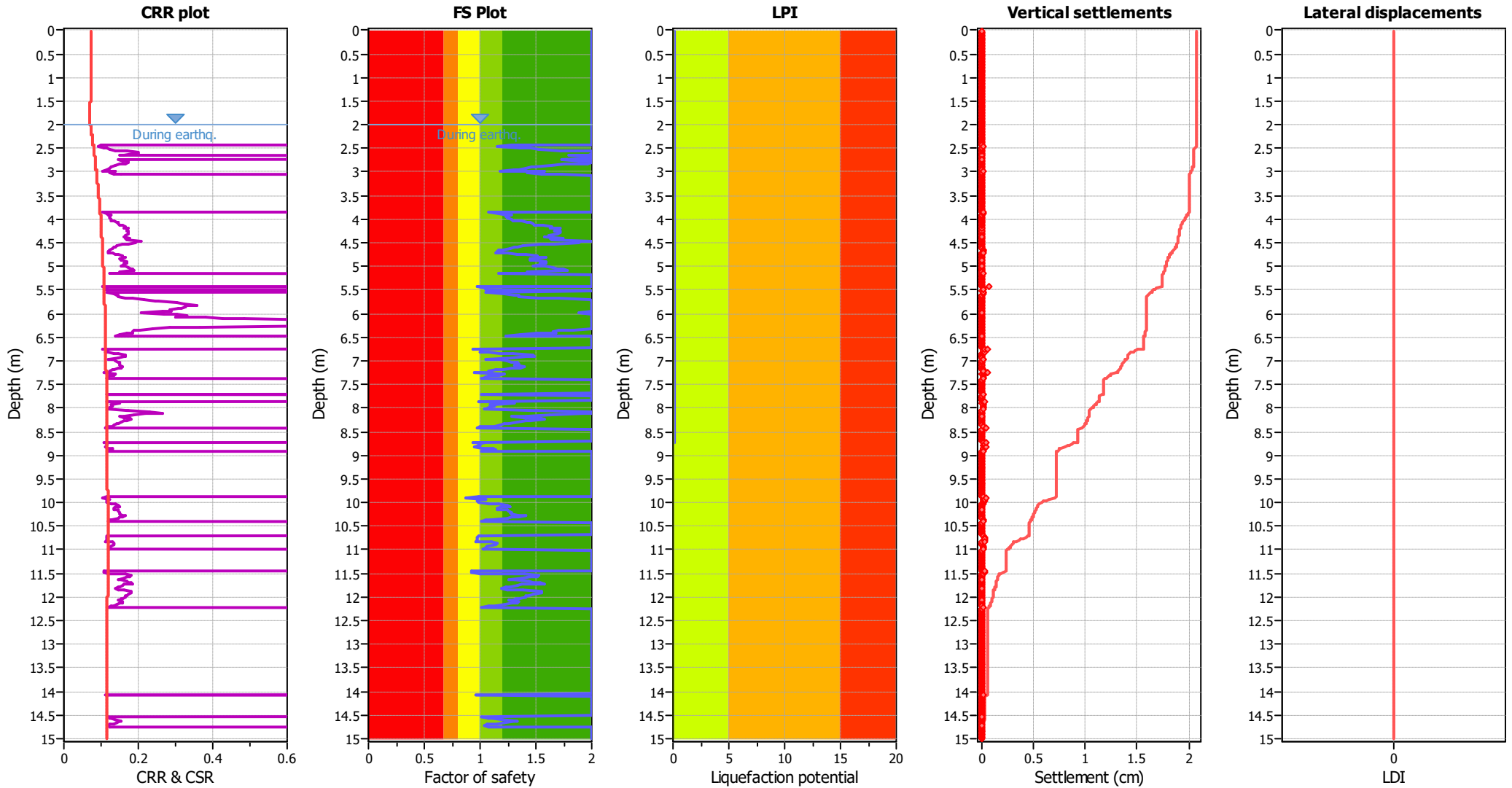
**CPT file : CPT05\_SLS**

**Input parameters and analysis data**

Analysis method:	B&I (2014)	G.W.T. (in-situ):	2.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	2.00 m	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	15.00 m
Earthquake magnitude $M_w$ :	7.50	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method
Peak ground acceleration:	0.11	Unit weight calculation:	Based on SBT	$K_g$ applied:	Yes		



### Liquefaction analysis overall plots



**Input parameters and analysis data**

Analysis method:	B&I (2014)	Depth to GWT (earthq.):	2.00 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_{\sigma}$ applied:	Yes
Earthquake magnitude $M_w$ :	7.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.11	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	2.00 m	Fill height:	N/A	Limit depth:	15.00 m

**F.S. color scheme**

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

**LPI color scheme**

- Very high risk
- High risk
- Low risk





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## LIQUEFACTION ANALYSIS REPORT

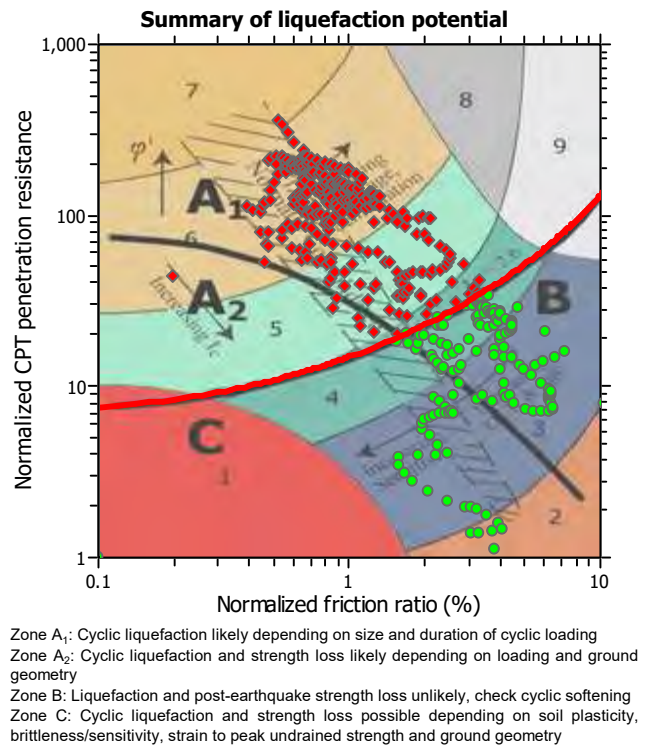
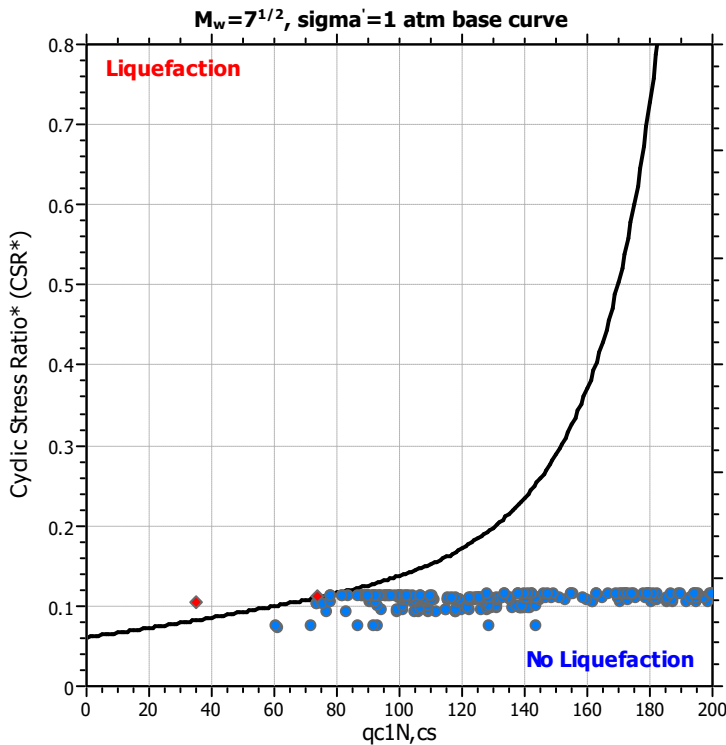
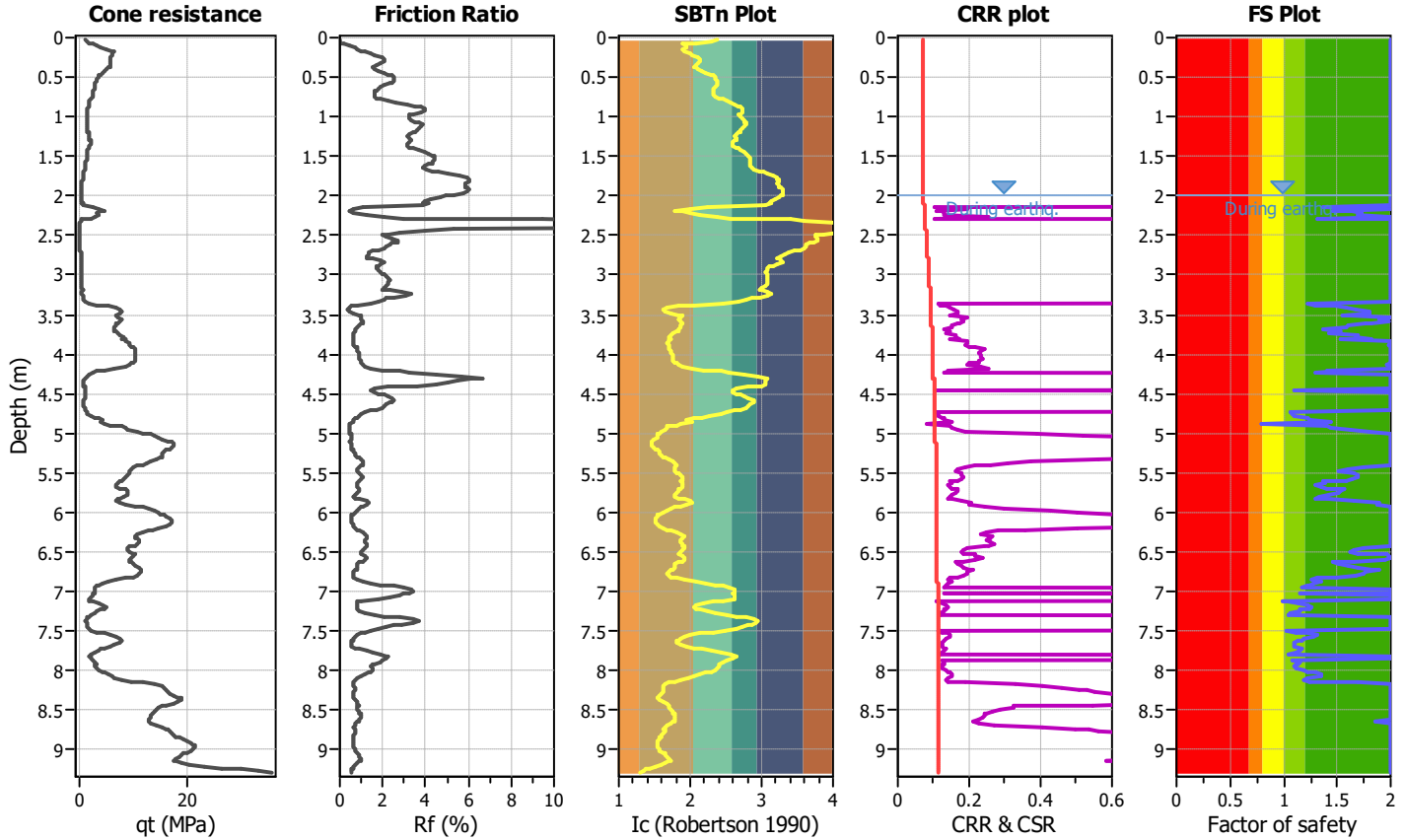
**Project title : 170602050\_Greenstone Stages 3-5**

**Location : Lots 1 - 44 Lyndhurst Rd**

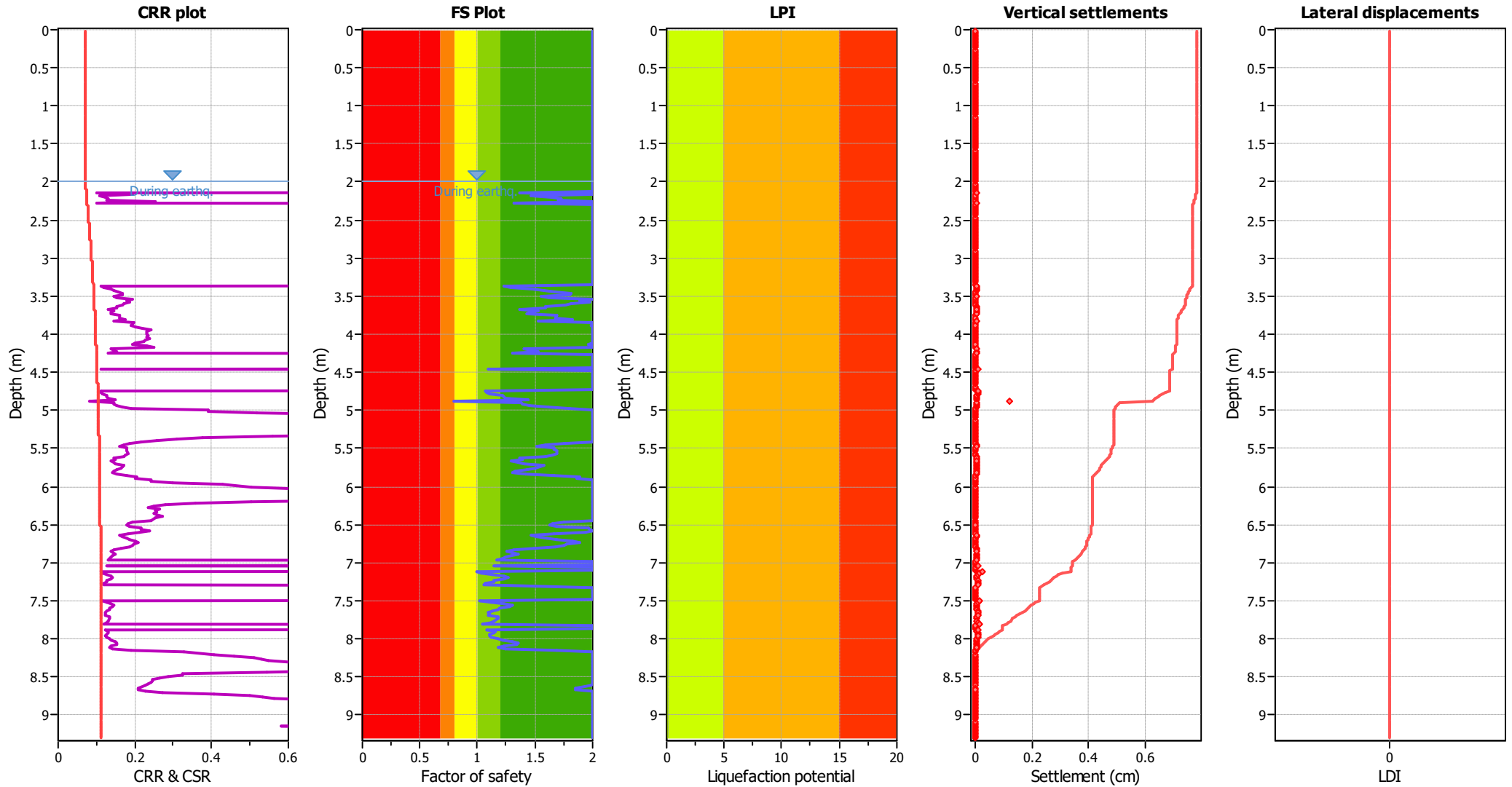
**CPT file : CPT06\_SLS**

### Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	2.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	2.00 m	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	15.00 m
Earthquake magnitude $M_w$ :	7.50	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method
Peak ground acceleration:	0.11	Unit weight calculation:	Based on SBT	$K_g$ applied:	Yes		



### Liquefaction analysis overall plots



**Input parameters and analysis data**

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	2.00 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_{\sigma}$ applied:	Yes
Earthquake magnitude $M_w$ :	7.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.11	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	2.00 m	Fill height:	N/A	Limit depth:	15.00 m

**F.S. color scheme**

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

**LPI color scheme**

- Very high risk
- High risk
- Low risk



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## LIQUEFACTION ANALYSIS REPORT

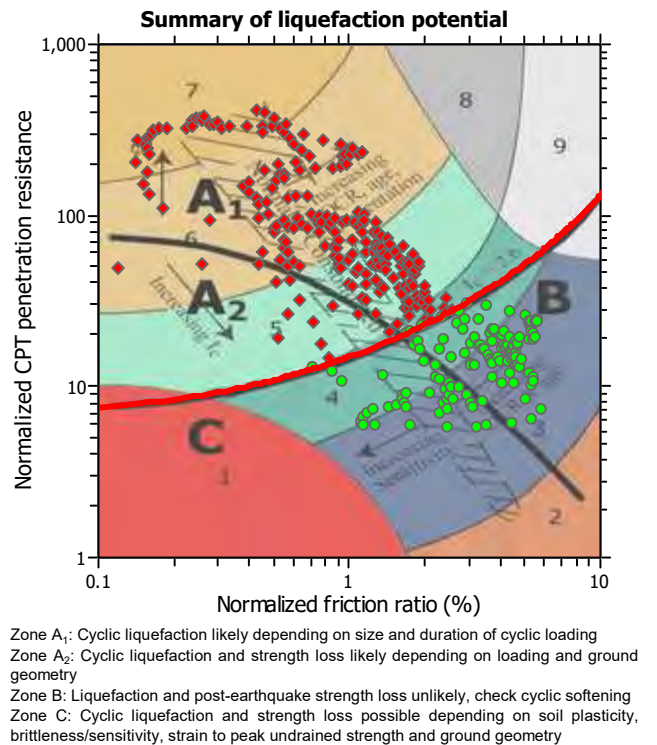
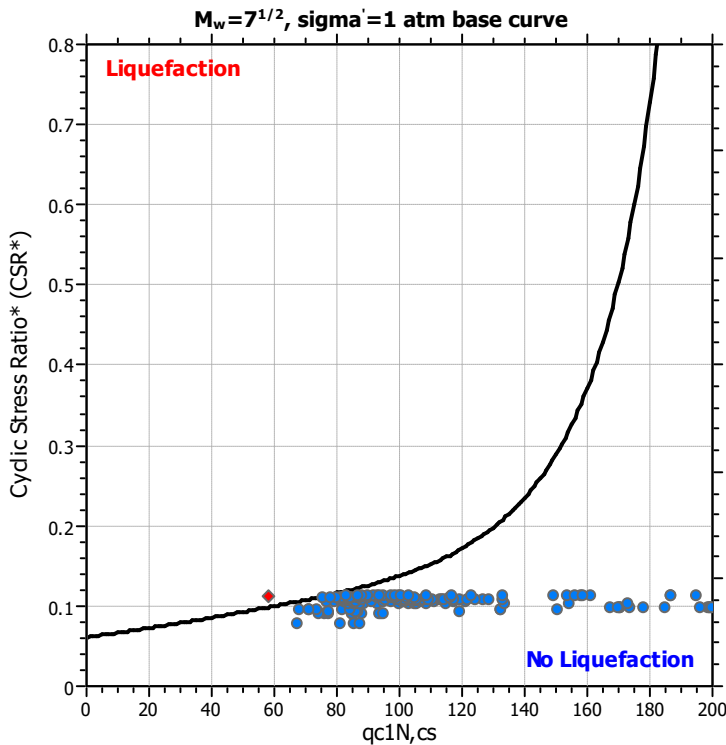
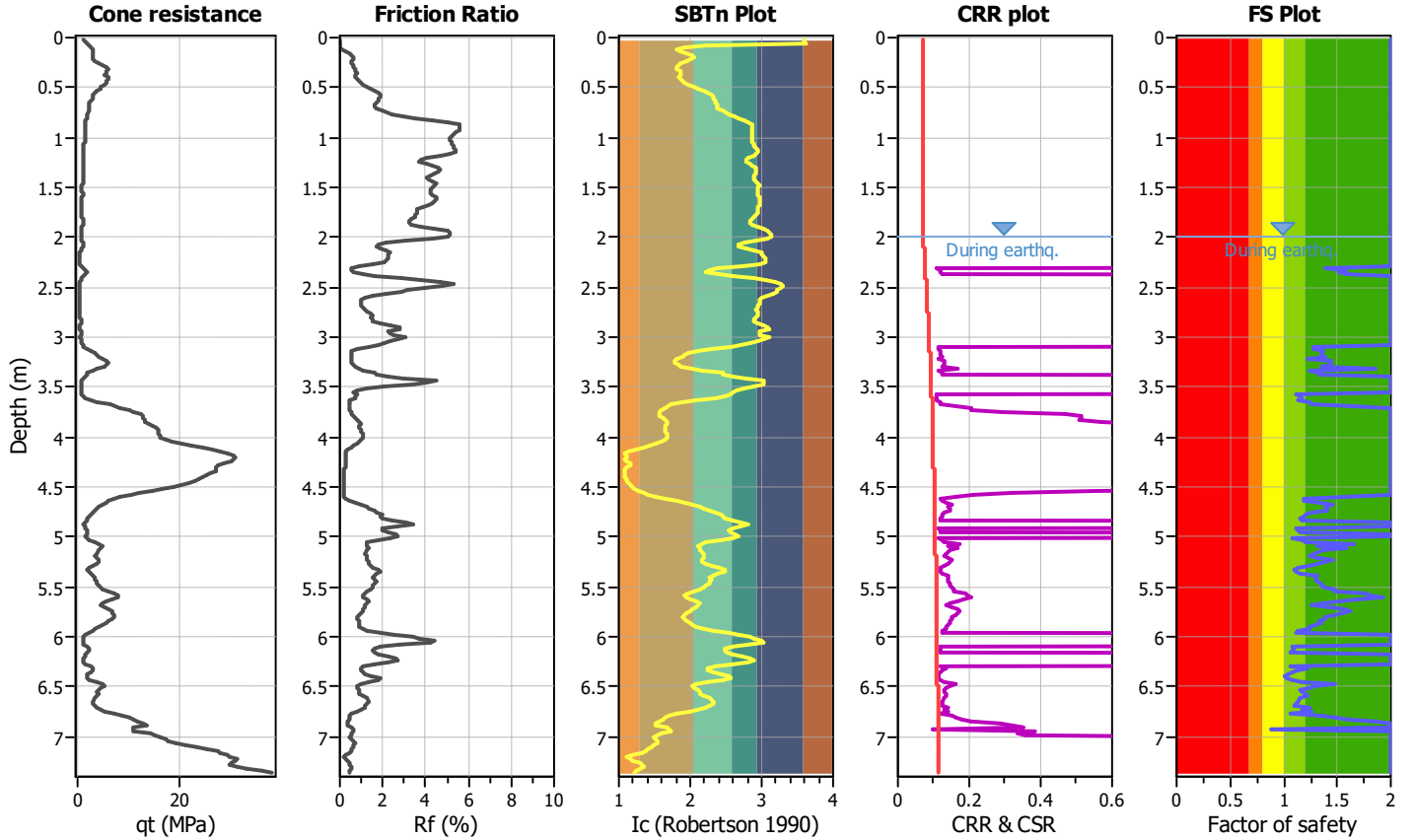
**Project title : 170602050\_Greenstone Stages 3-5**

**Location : Lots 1 - 44 Lyndhurst Rd**

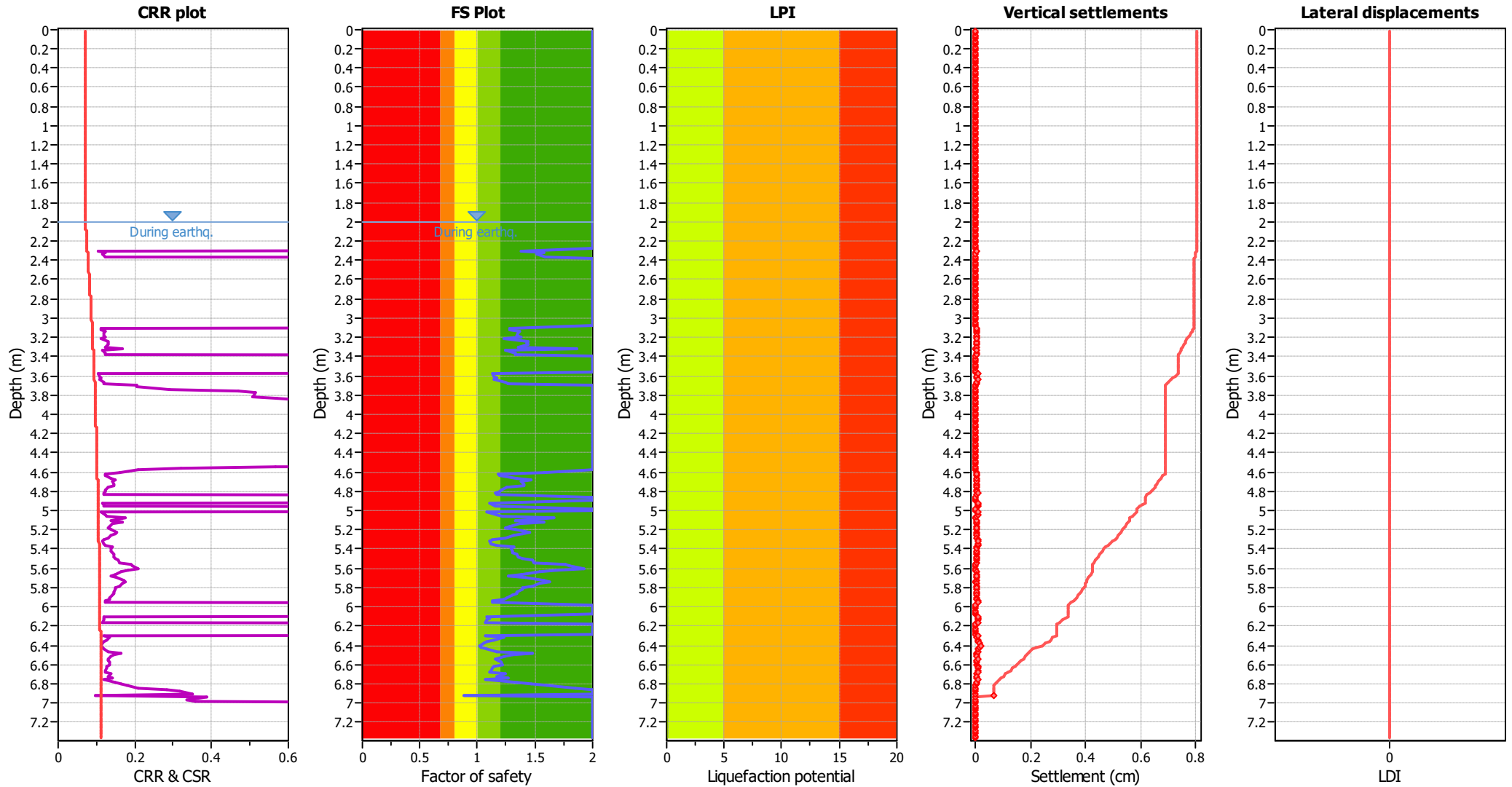
**CPT file : CPT07\_SLS**

### Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	2.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	2.00 m	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	15.00 m
Earthquake magnitude $M_w$ :	7.50	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method
Peak ground acceleration:	0.11	Unit weight calculation:	Based on SBT	$K_g$ applied:	Yes		



### Liquefaction analysis overall plots



**Input parameters and analysis data**

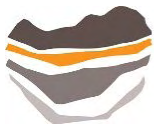
Analysis method:	B&I (2014)	Depth to GWT (earthq.):	2.00 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>σ</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	7.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.11	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	2.00 m	Fill height:	N/A	Limit depth:	15.00 m

**F.S. color scheme**

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

**LPI color scheme**

- Very high risk
- High risk
- Low risk



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## LIQUEFACTION ANALYSIS REPORT

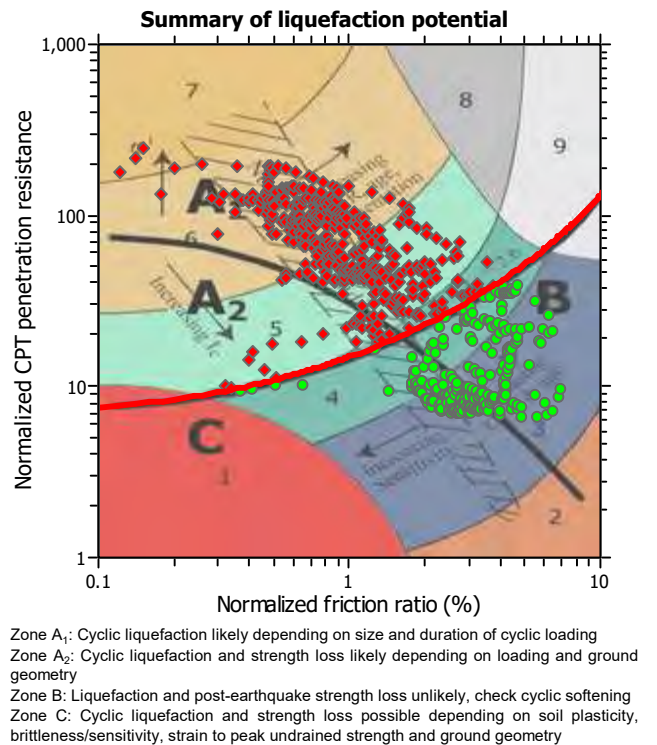
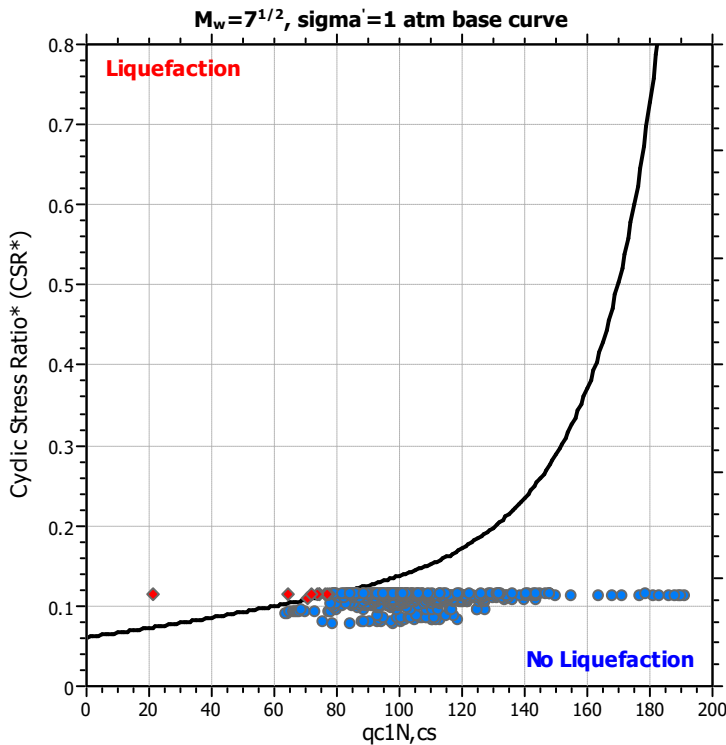
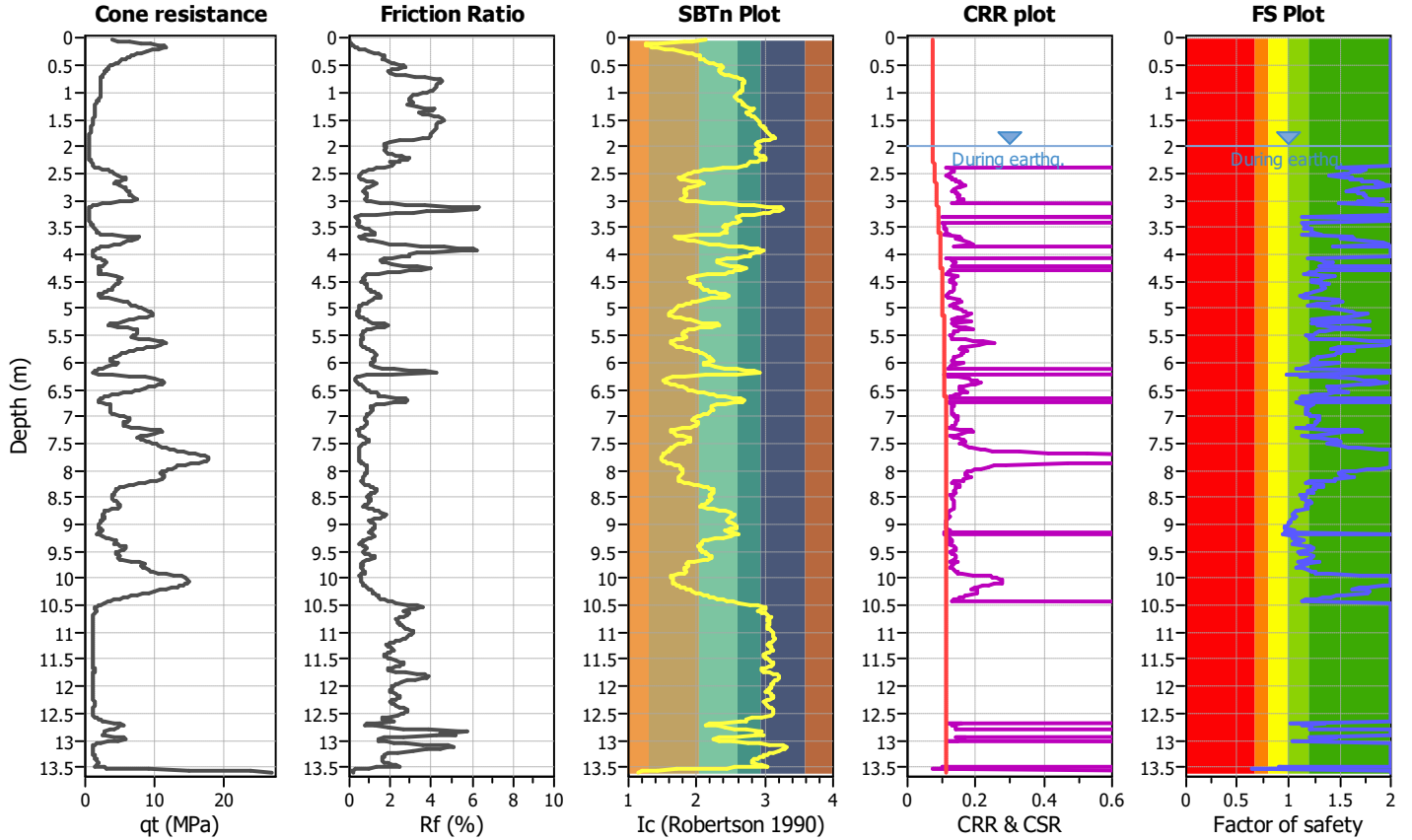
**Project title : 170602050\_Greenstone Stages 3-5**

**Location : Lots 1 - 44 Lyndhurst Rd**

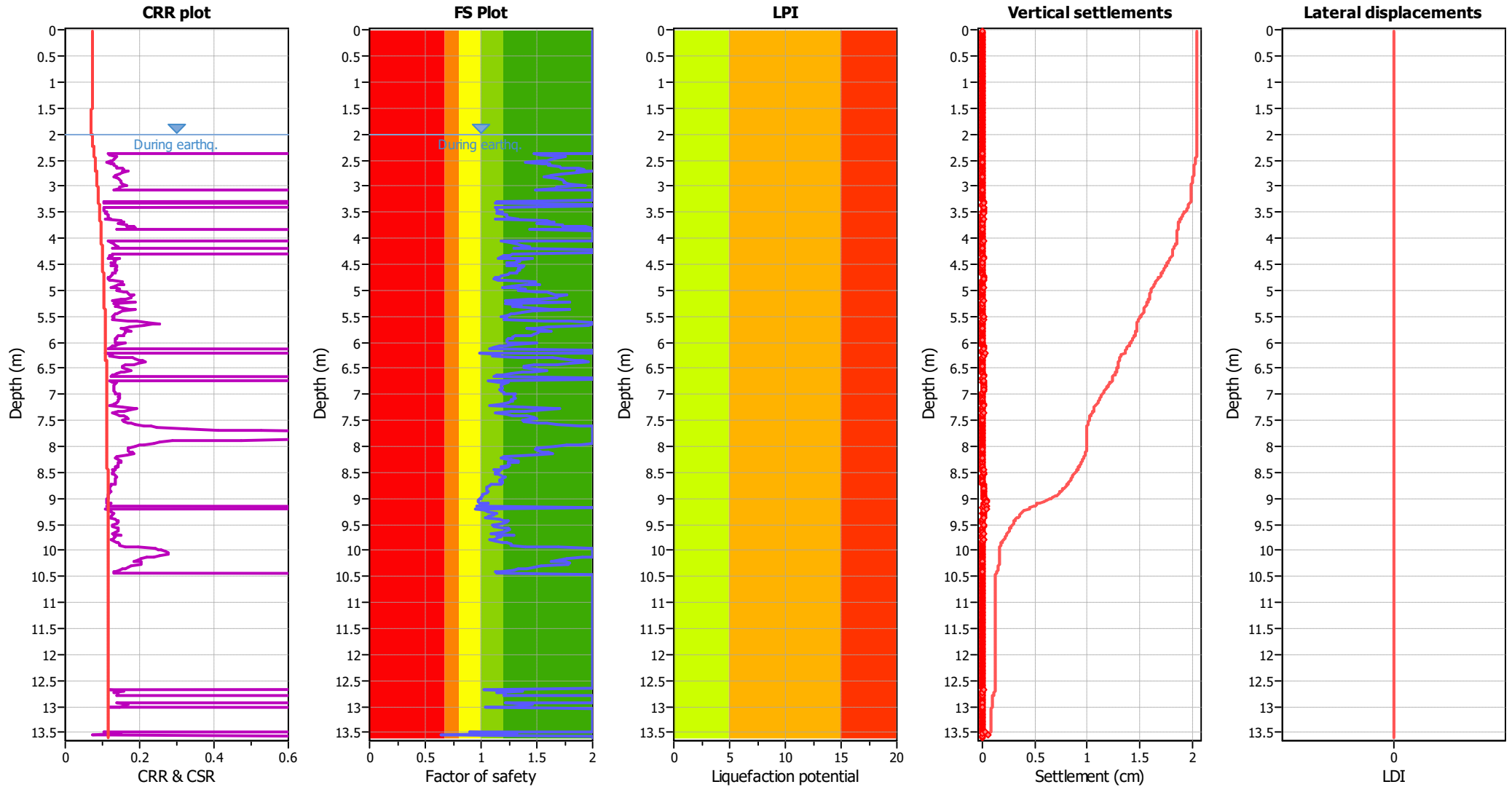
**CPT file : CPT08\_SLS**

### Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	2.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	2.00 m	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	15.00 m
Earthquake magnitude $M_w$ :	7.50	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method
Peak ground acceleration:	0.11	Unit weight calculation:	Based on SBT	$K_\sigma$ applied:	Yes		



### Liquefaction analysis overall plots



**Input parameters and analysis data**

Analysis method:	B&I (2014)	Depth to GWT (earthq.):	2.00 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_{\sigma}$ applied:	Yes
Earthquake magnitude $M_w$ :	7.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.11	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	2.00 m	Fill height:	N/A	Limit depth:	15.00 m

**F.S. color scheme**

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

**LPI color scheme**

- Very high risk
- High risk
- Low risk



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## LIQUEFACTION ANALYSIS REPORT

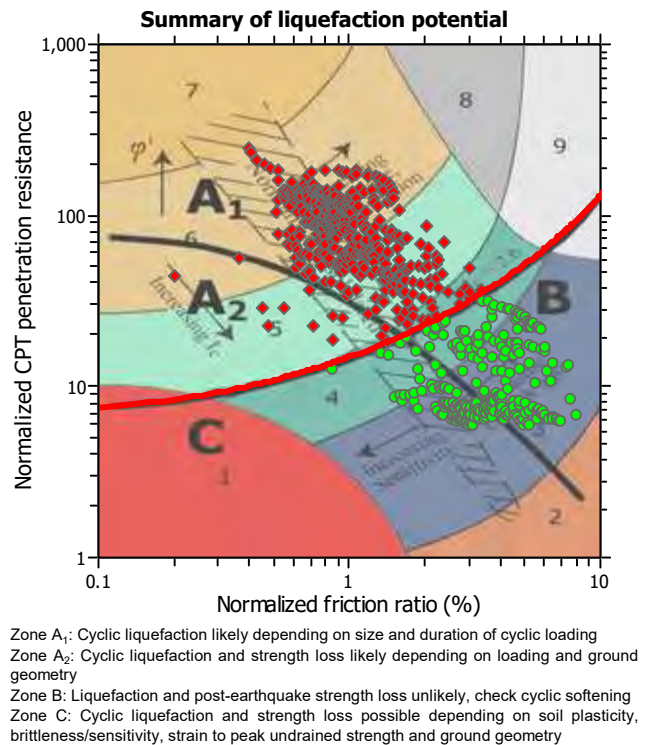
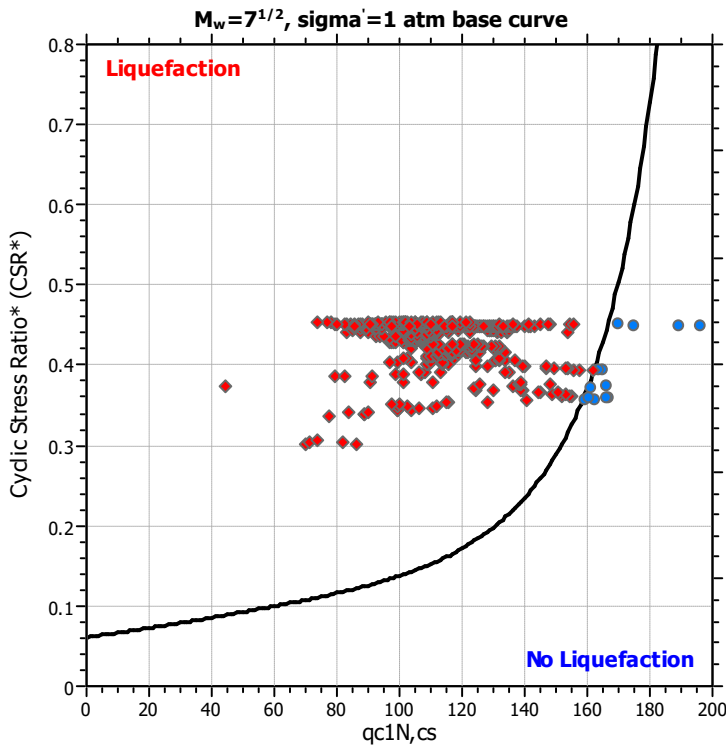
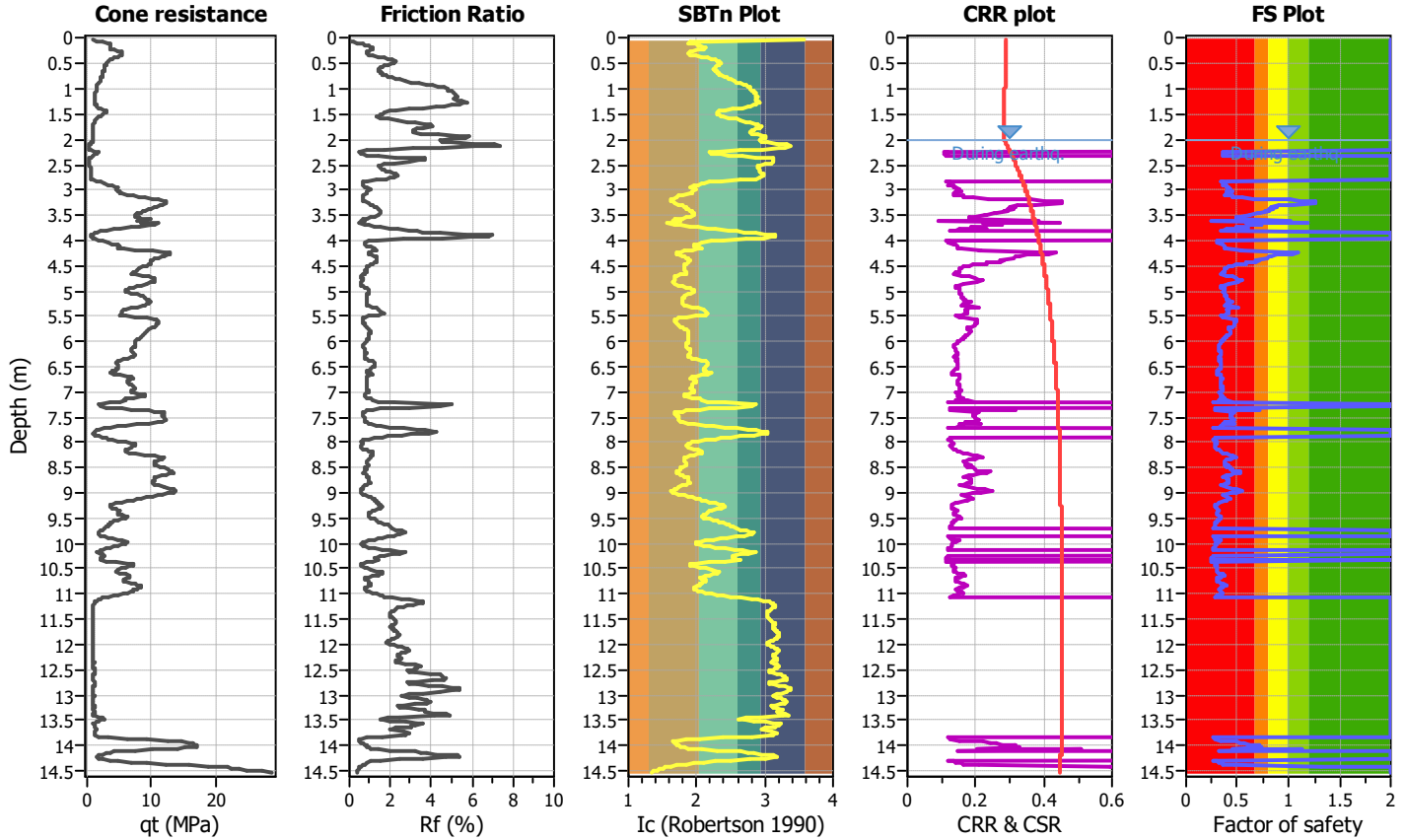
**Project title : 170602050\_Greenstone Stages 3-5**

**Location : Lots 1 - 44 Lyndhurst Rd**

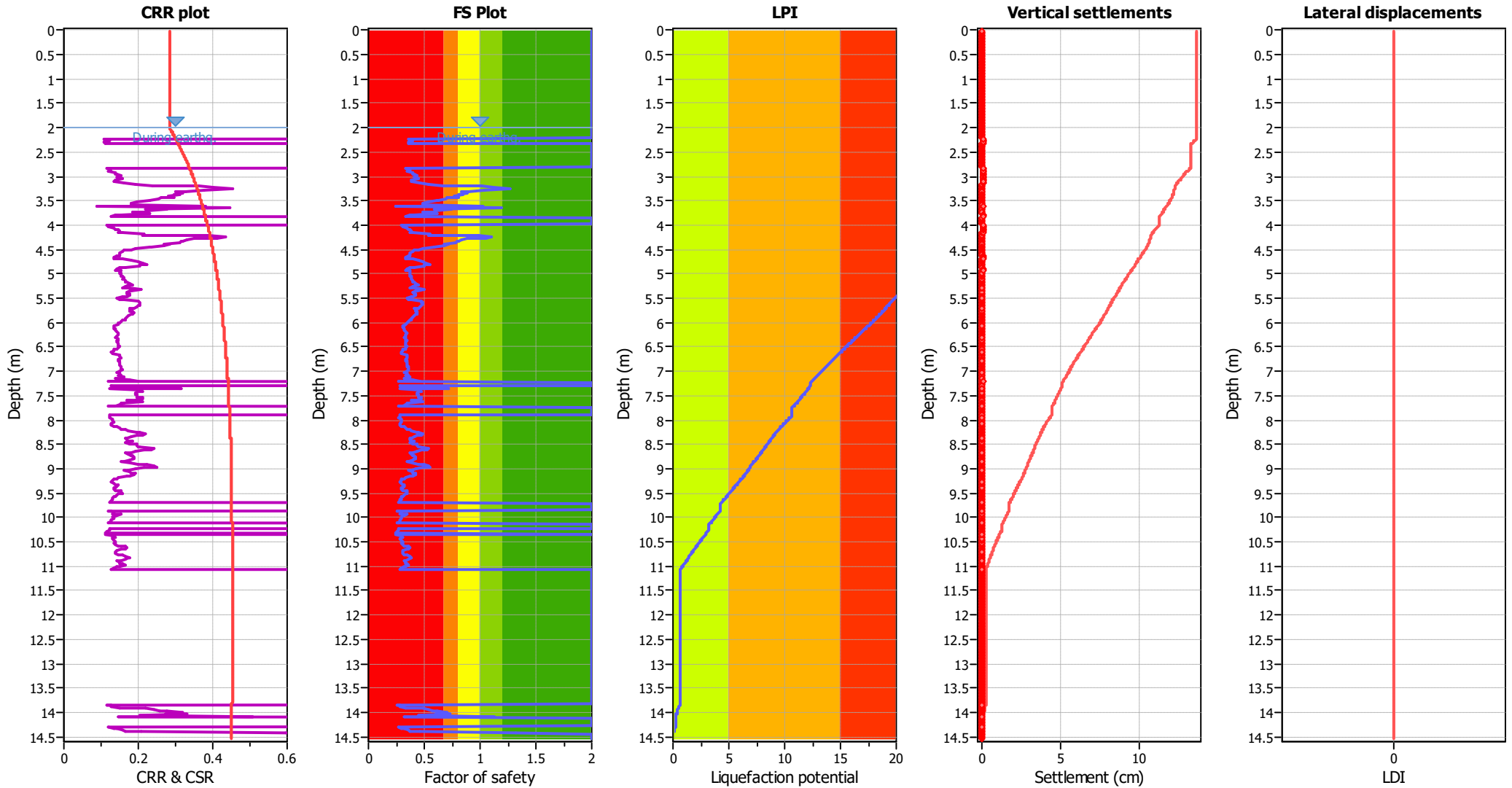
**CPT file : CPT01\_ULS**

### Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	2.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	2.00 m	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	15.00 m
Earthquake magnitude $M_w$ :	7.50	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method
Peak ground acceleration:	0.44	Unit weight calculation:	Based on SBT	$K_g$ applied:	Yes		



### Liquefaction analysis overall plots



**Input parameters and analysis data**

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	2.00 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_{\sigma}$ applied:	Yes
Earthquake magnitude $M_w$ :	7.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.44	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	2.00 m	Fill height:	N/A	Limit depth:	15.00 m

**F.S. color scheme**

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

**LPI color scheme**

- Very high risk
- High risk
- Low risk



## LIQUEFACTION ANALYSIS REPORT

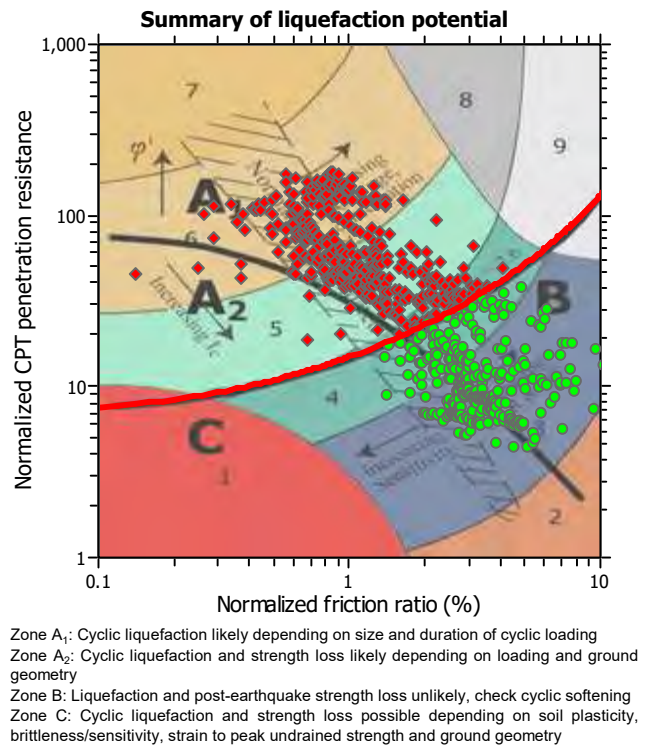
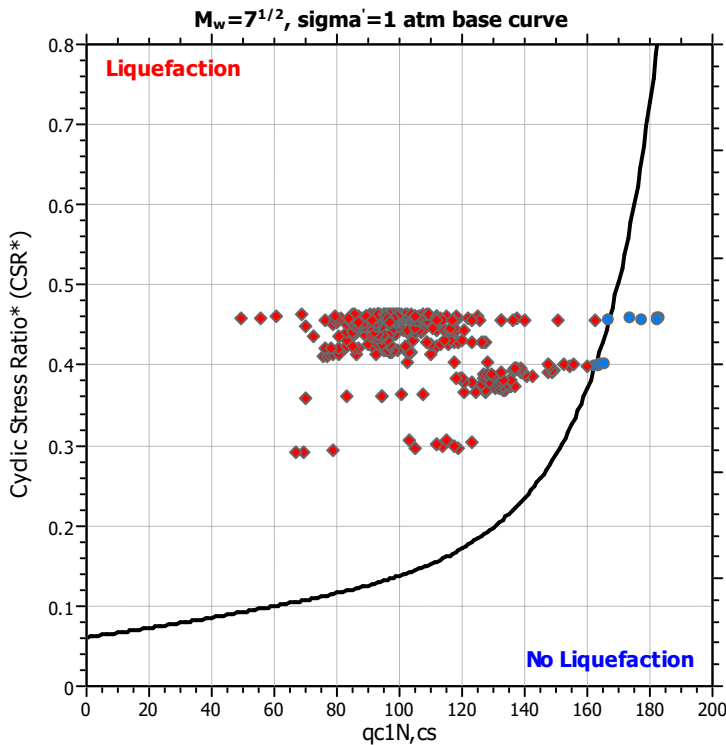
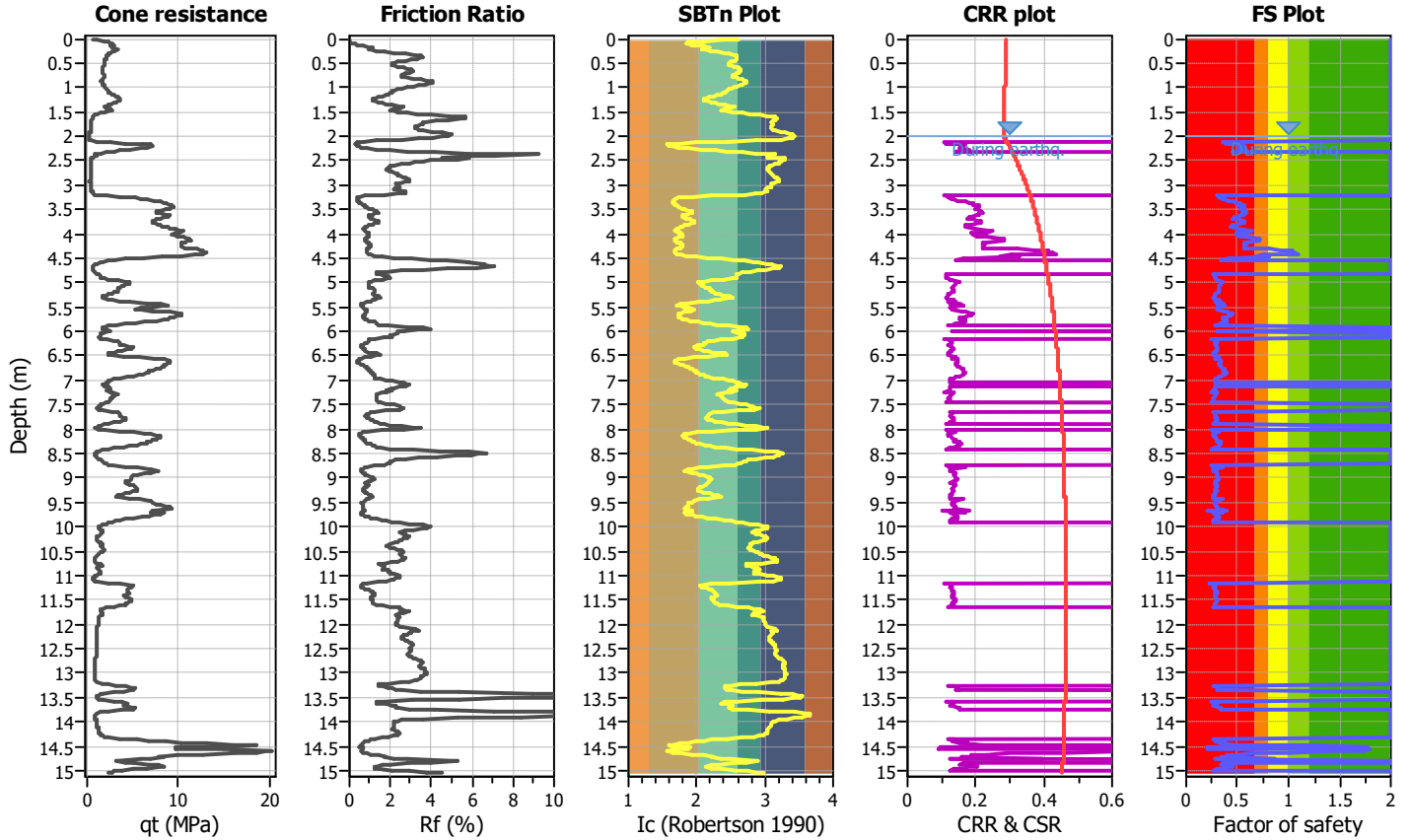
**Project title : 170602050\_Greenstone Stages 3-5**

**Location : Lots 1 - 44 Lyndhurst Rd**

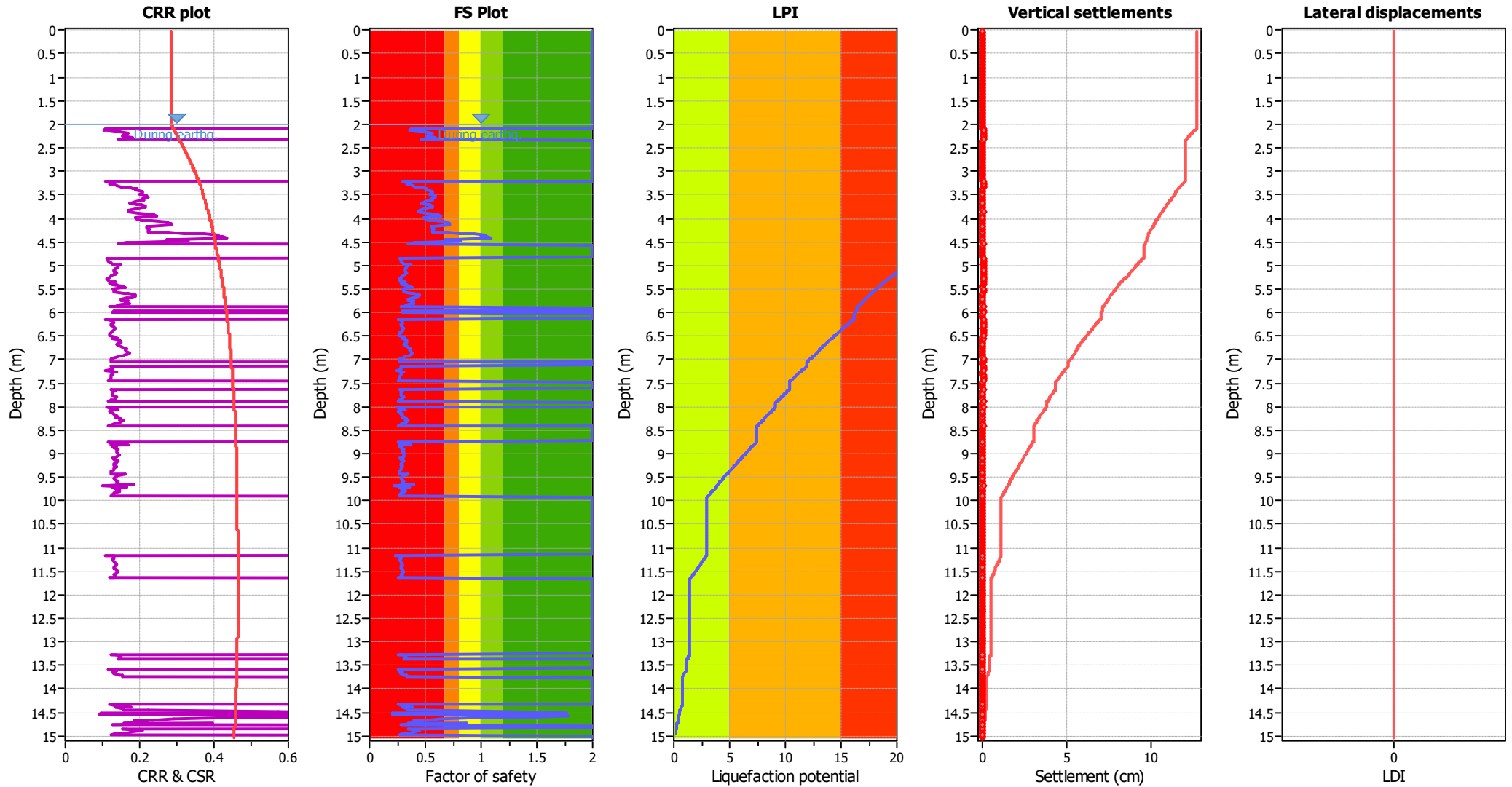
**CPT file : CPT02\_ULS**

**Input parameters and analysis data**

Analysis method:	B&I (2014)	G.W.T. (in-situ):	2.00 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	2.00 m	Fill height:	N/A	applied:	Sands only
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth applied:	Yes
Earthquake magnitude $M_w$ :	7.50	Ic cut-off value:	2.60	Trans. detect. applied:	No	Limit depth:	15.00 m
Peak ground acceleration:	0.44	Unit weight calculation:	Based on SBT	$K_\sigma$ applied:	Yes	MSF method:	Method



### Liquefaction analysis overall plots



**Input parameters and analysis data**

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	2.00 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_{\sigma}$ applied:	Yes
Earthquake magnitude $M_w$ :	7.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.44	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	2.00 m	Fill height:	N/A	Limit depth:	15.00 m

**F.S. color scheme**

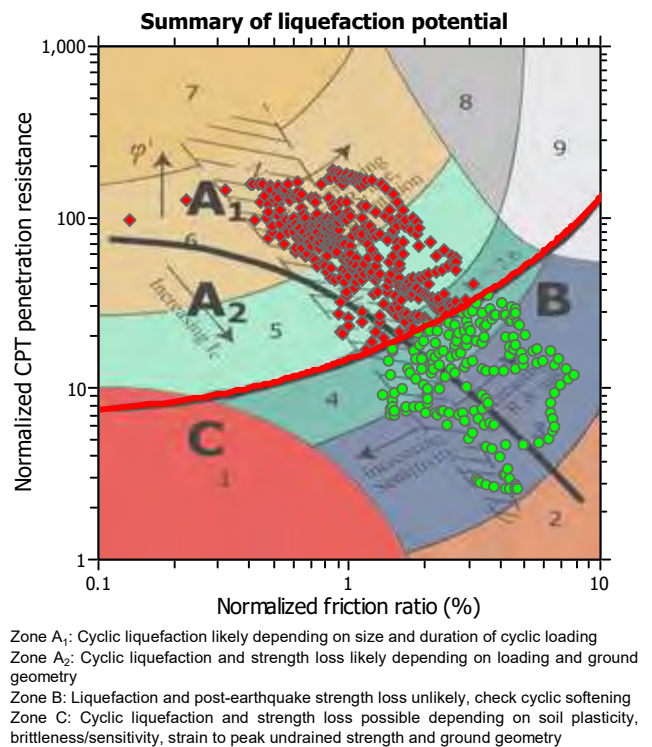
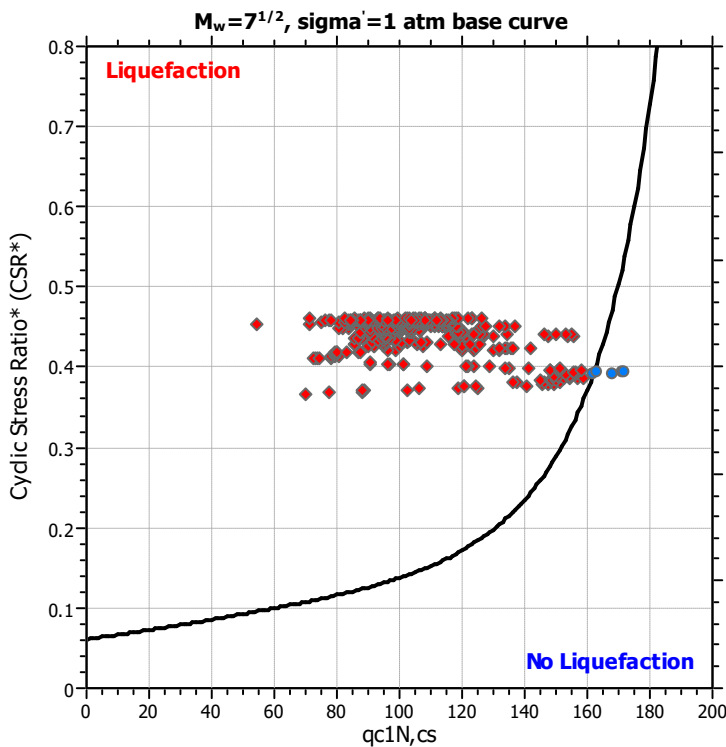
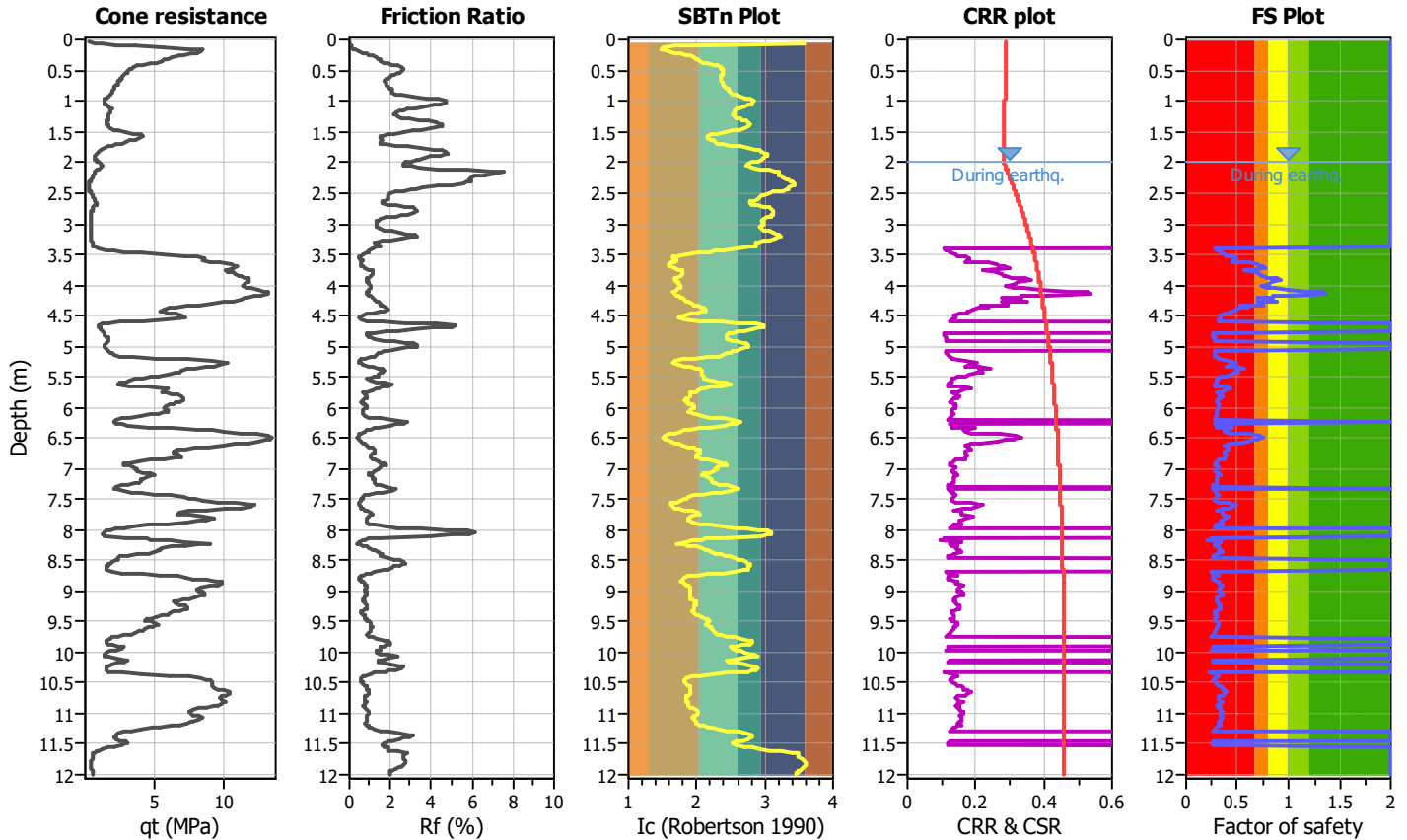
- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

**LPI color scheme**

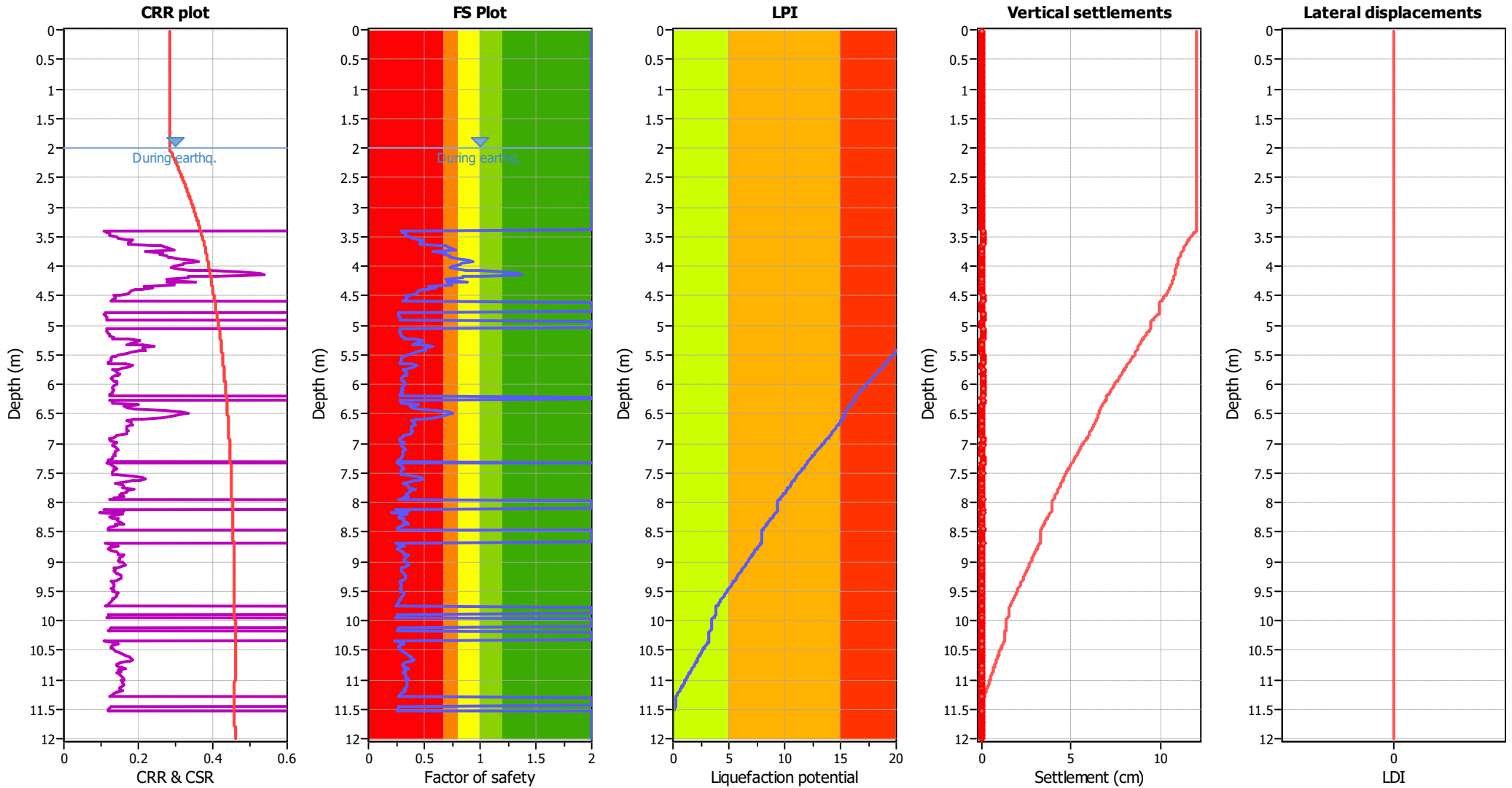
- Very high risk
- High risk
- Low risk

**LIQUEFACTION ANALYSIS REPORT**
**Project title : 170602050\_Greenstone Stages 3-5**
**Location : Lots 1 - 44 Lyndhurst Rd**
**CPT file : CPT03\_ULS**
**Input parameters and analysis data**

Analysis method:	B&I (2014)	G.W.T. (in-situ):	2.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	2.00 m	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	15.00 m
Earthquake magnitude $M_w$ :	7.50	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method
Peak ground acceleration:	0.44	Unit weight calculation:	Based on SBT	$K_\sigma$ applied:	Yes		



### Liquefaction analysis overall plots



#### Input parameters and analysis data

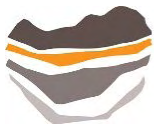
Analysis method:	B&I (2014)	Depth to GWT (earthq.):	2.00 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_{\sigma}$ applied:	Yes
Earthquake magnitude $M_w$ :	7.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.44	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	2.00 m	Fill height:	N/A	Limit depth:	15.00 m

#### F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

#### LPI color scheme

- Very high risk
- High risk
- Low risk



## LIQUEFACTION ANALYSIS REPORT

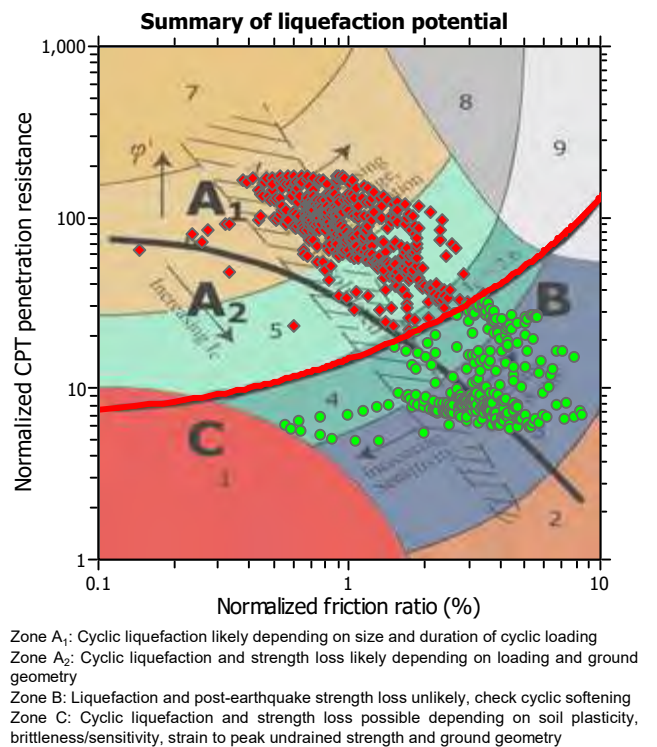
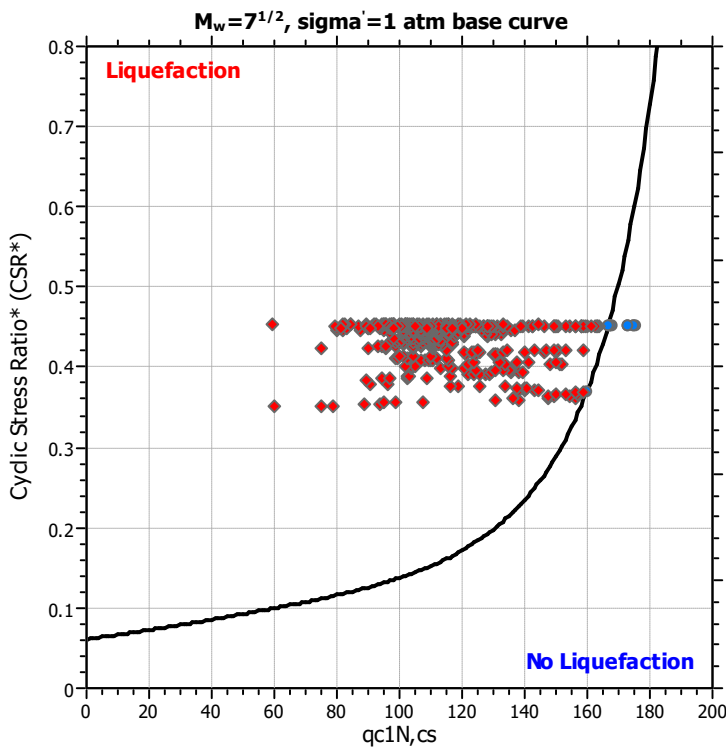
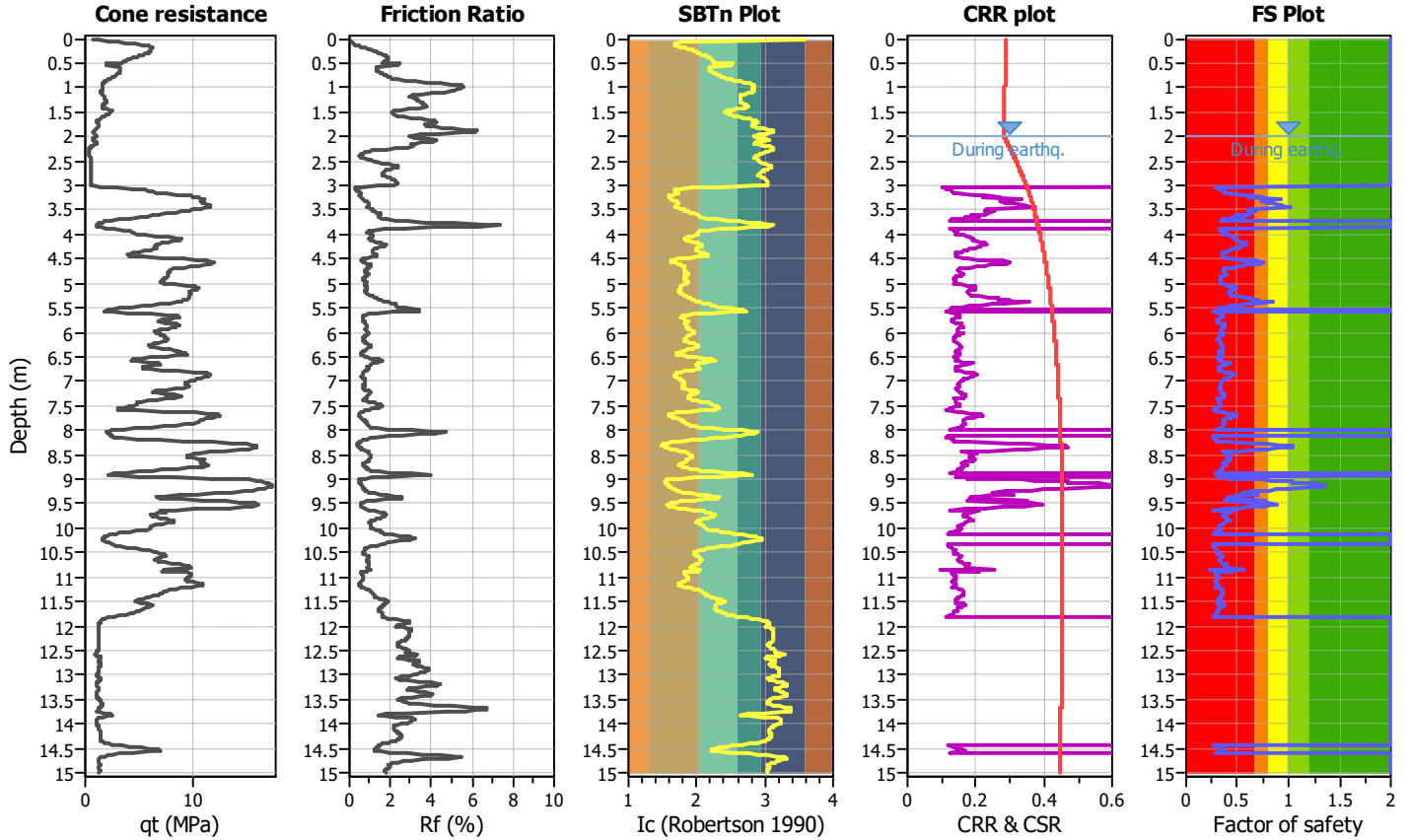
**Project title : 170602050\_Greenstone Stages 3-5**

**Location : Lots 1 - 44 Lyndhurst Rd**

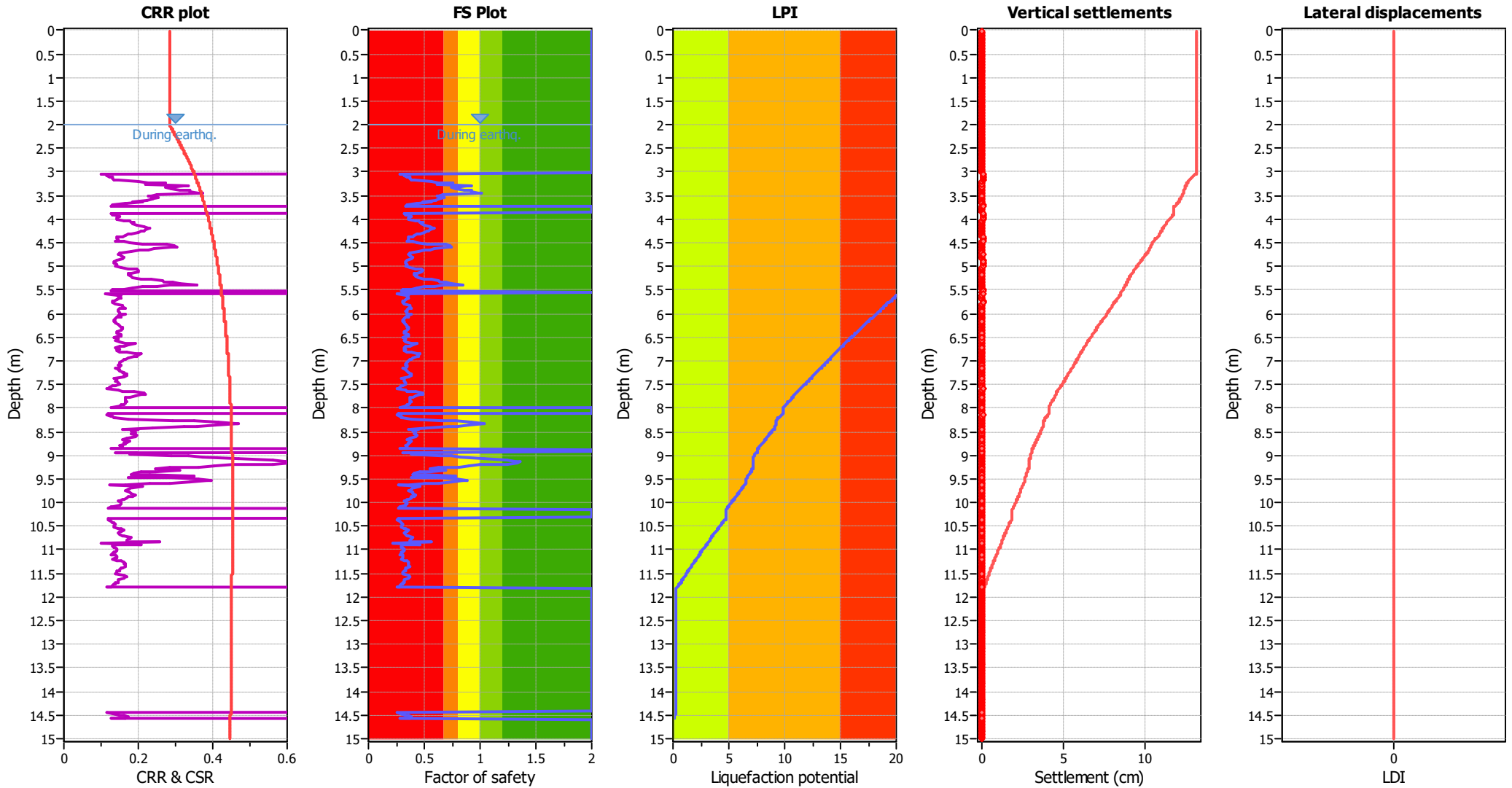
**CPT file : CPT04\_ULS**

### Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	2.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	2.00 m	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	15.00 m
Earthquake magnitude $M_w$ :	7.50	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method
Peak ground acceleration:	0.44	Unit weight calculation:	Based on SBT	$K_\sigma$ applied:	Yes		



### Liquefaction analysis overall plots



#### Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	2.00 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_{\sigma}$ applied:	Yes
Earthquake magnitude $M_w$ :	7.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.44	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	2.00 m	Fill height:	N/A	Limit depth:	15.00 m

#### F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

#### LPI color scheme

- Very high risk
- High risk
- Low risk

## LIQUEFACTION ANALYSIS REPORT

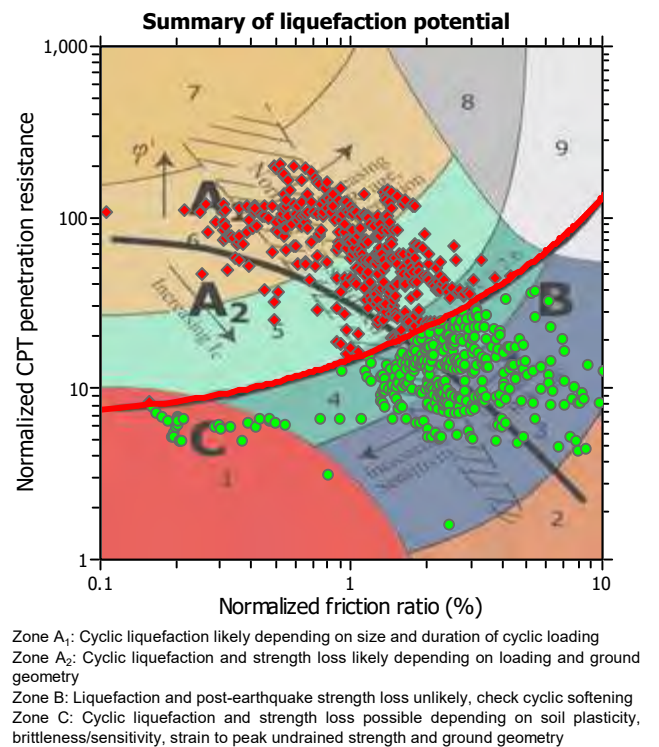
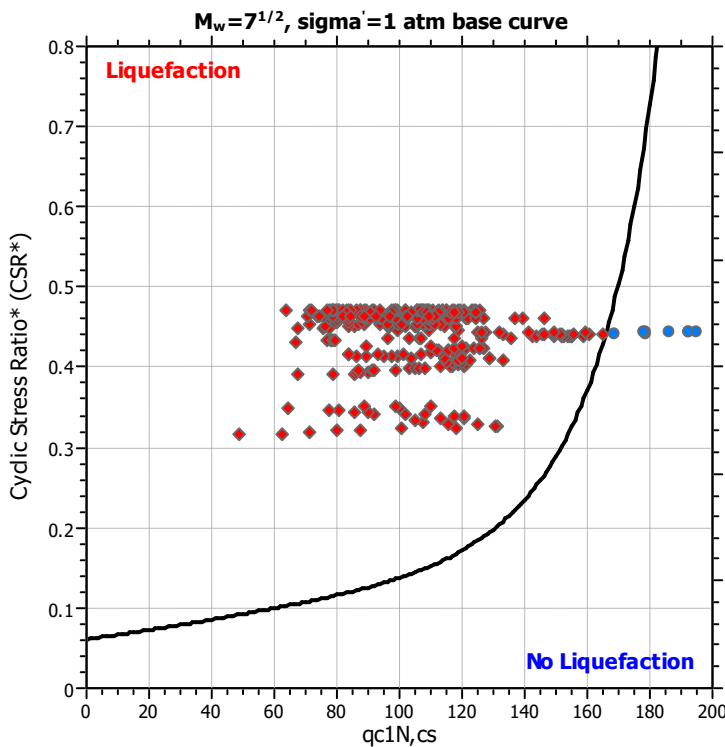
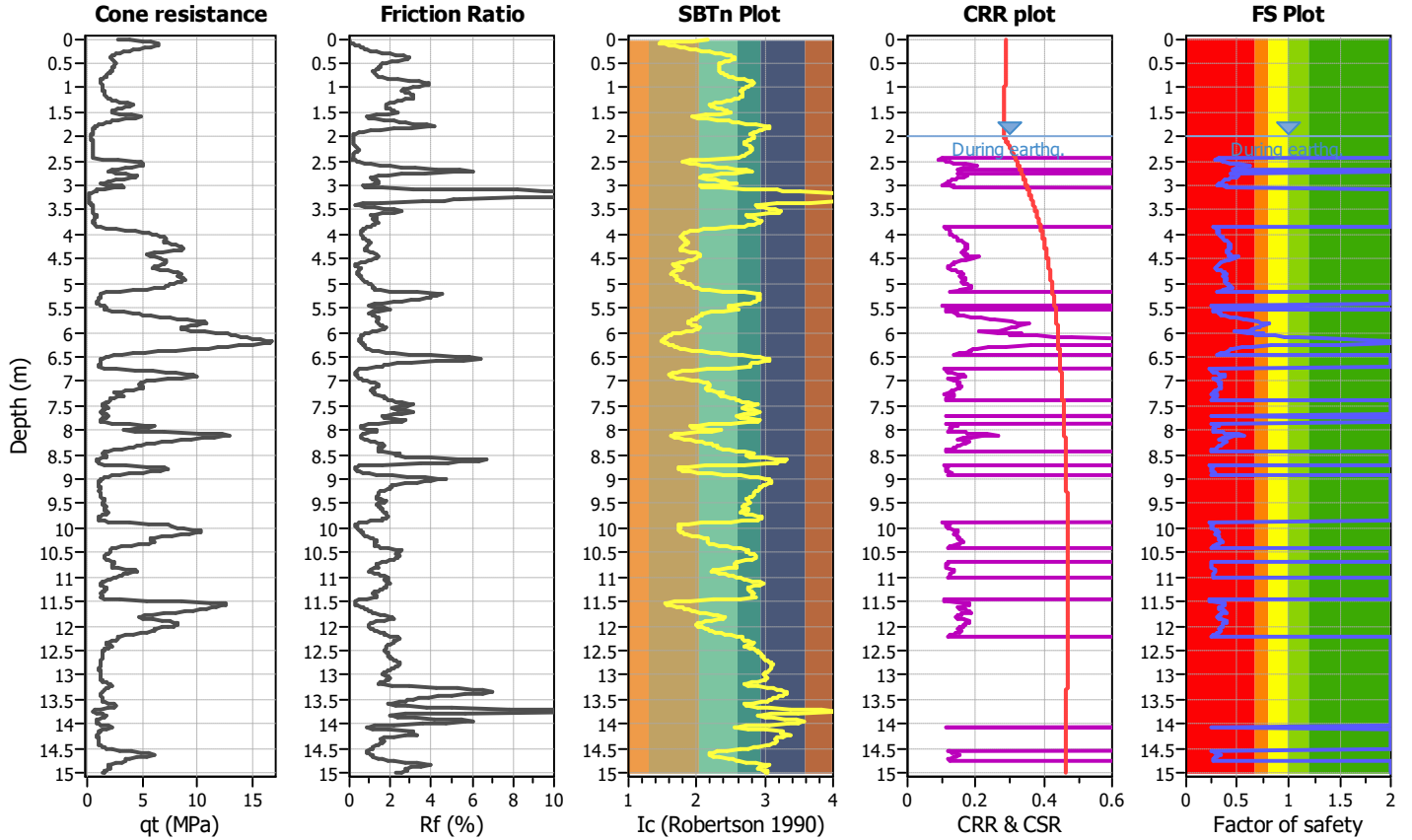
**Project title : 170602050\_Greenstone Stages 3-5**

**Location : Lots 1 - 44 Lyndhurst Rd**

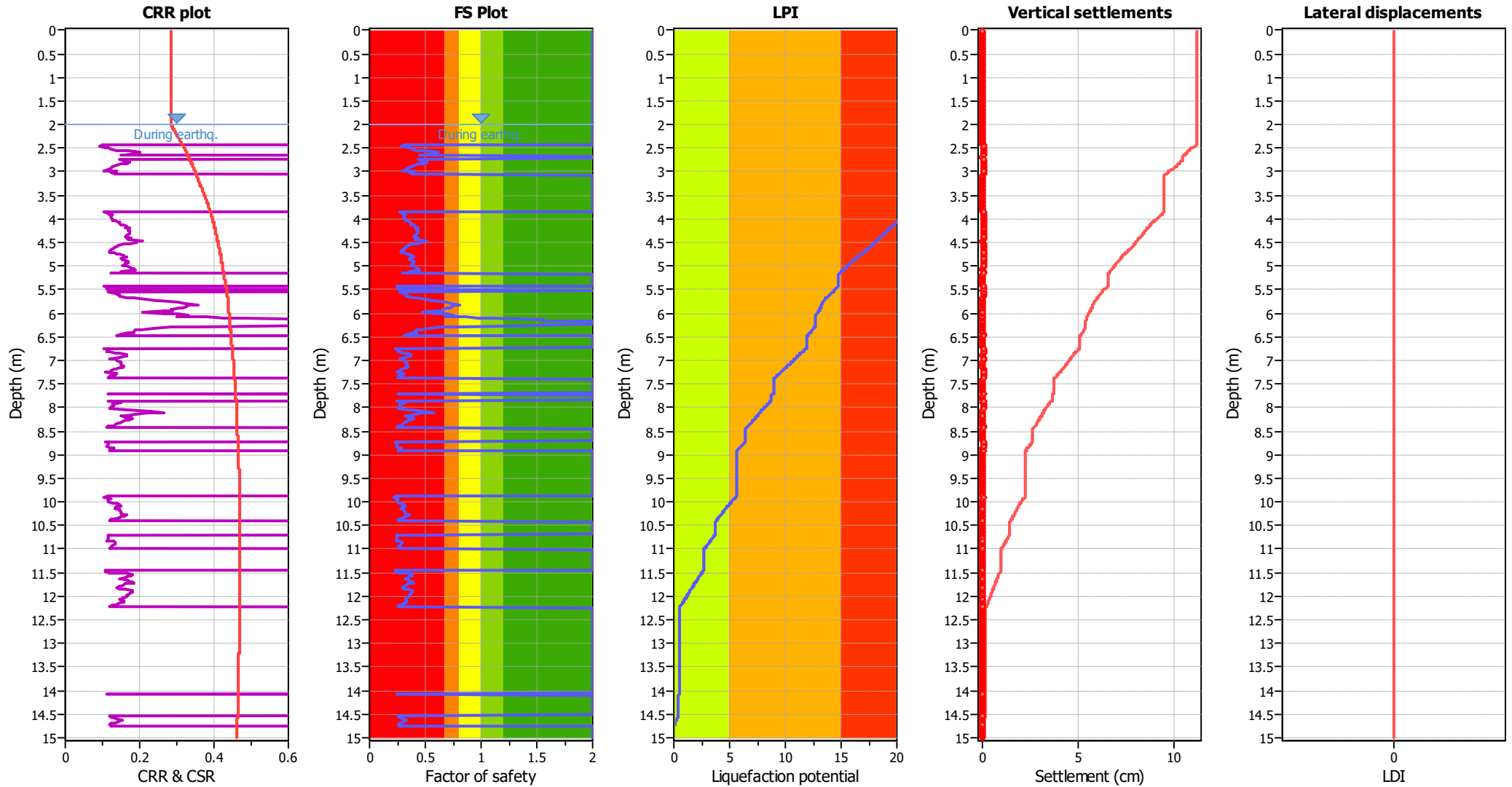
**CPT file : CPT05\_ULS**

**Input parameters and analysis data**

Analysis method:	B&I (2014)	G.W.T. (in-situ):	2.00 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	2.00 m	Fill height:	N/A	applied:	Sands only
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth applied:	Yes
Earthquake magnitude $M_w$ :	7.50	Ic cut-off value:	2.60	Trans. detect. applied:	No	Limit depth:	15.00 m
Peak ground acceleration:	0.44	Unit weight calculation:	Based on SBT	$K_\sigma$ applied:	Yes	MSF method:	Method



### Liquefaction analysis overall plots



**Input parameters and analysis data**

Analysis method:	B&I (2014)	Depth to GWT (earthq.):	2.00 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_{\sigma}$ applied:	Yes
Earthquake magnitude $M_w$ :	7.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.44	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	2.00 m	Fill height:	N/A	Limit depth:	15.00 m

**F.S. color scheme**

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

**LPI color scheme**

- Very high risk
- High risk
- Low risk





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## LIQUEFACTION ANALYSIS REPORT

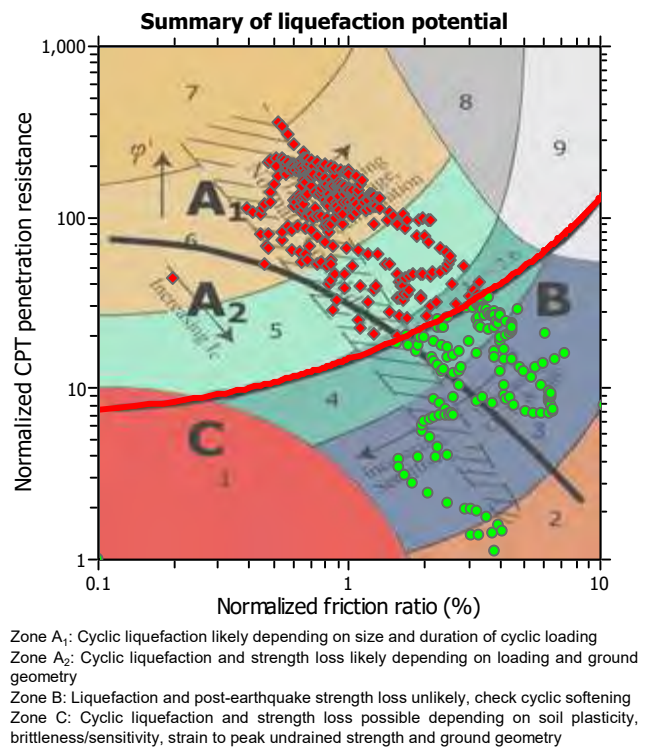
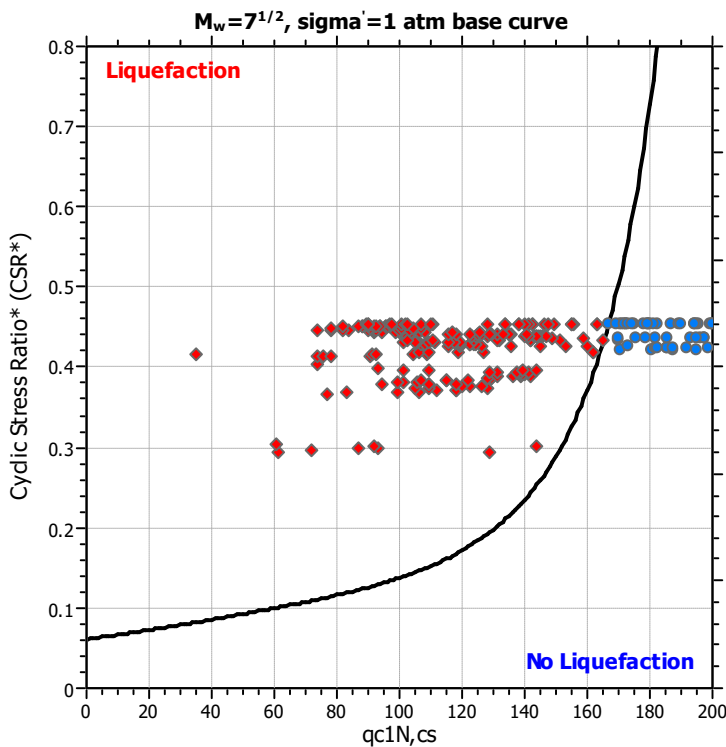
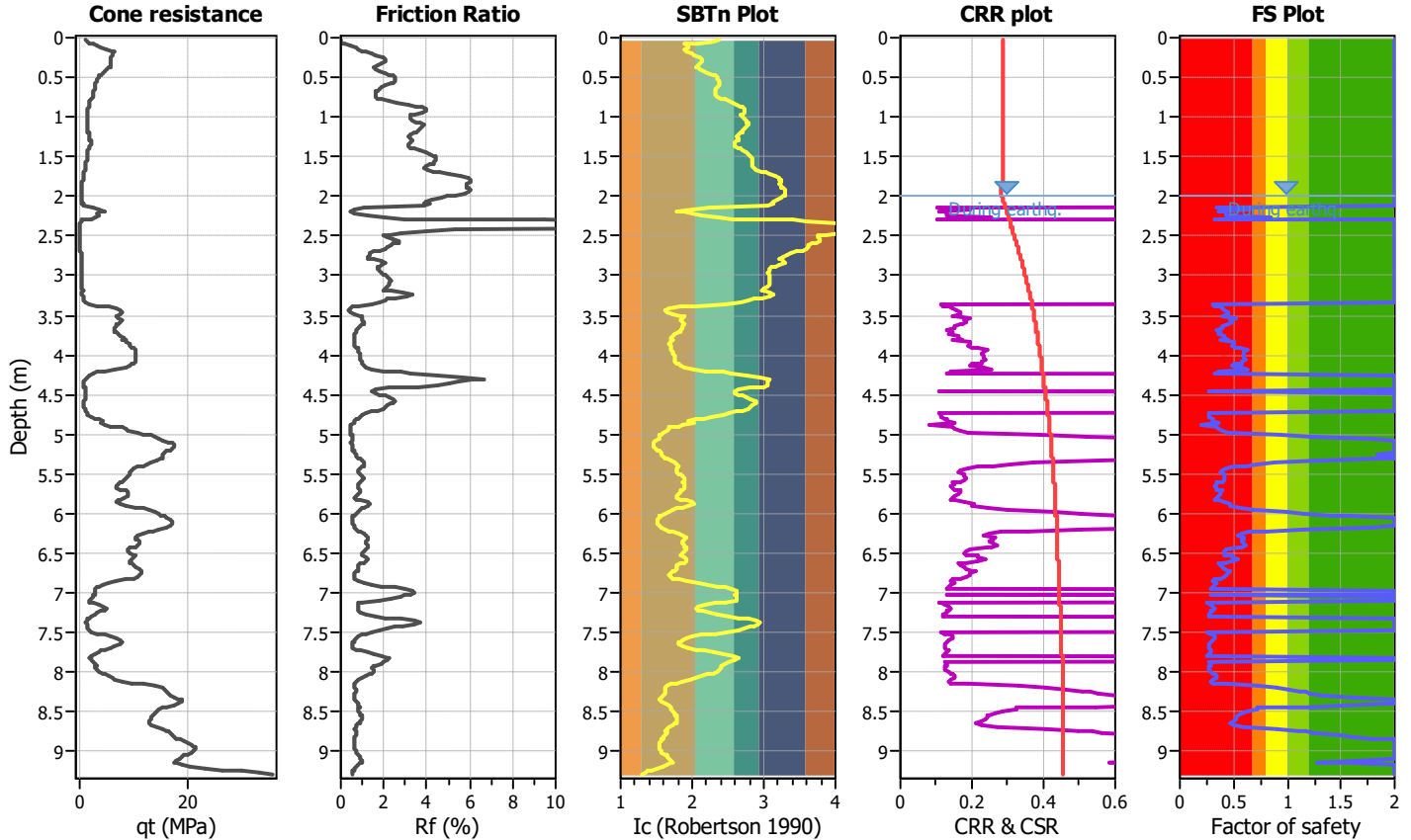
**Project title : 170602050\_Greenstone Stages 3-5**

**Location : Lots 1 - 44 Lyndhurst Rd**

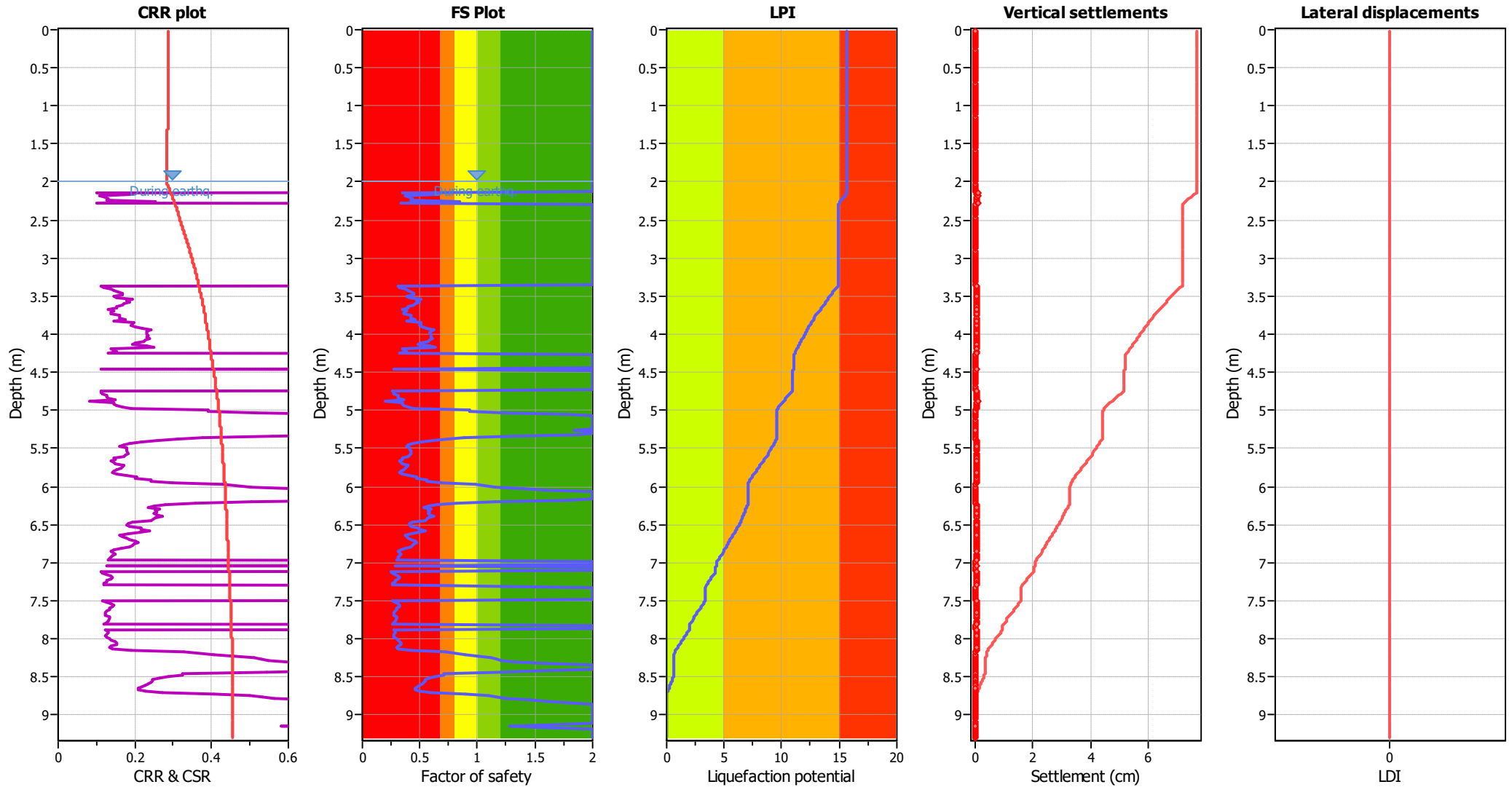
**CPT file : CPT06\_ULS**

### Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	2.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	2.00 m	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	15.00 m
Earthquake magnitude $M_w$ :	7.50	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method
Peak ground acceleration:	0.44	Unit weight calculation:	Based on SBT	$K_\sigma$ applied:	Yes		



### Liquefaction analysis overall plots



#### Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	2.00 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_{\sigma}$ applied:	Yes
Earthquake magnitude $M_w$ :	7.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.44	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	2.00 m	Fill height:	N/A	Limit depth:	15.00 m

#### F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

#### LPI color scheme

- Very high risk
- High risk
- Low risk



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## LIQUEFACTION ANALYSIS REPORT

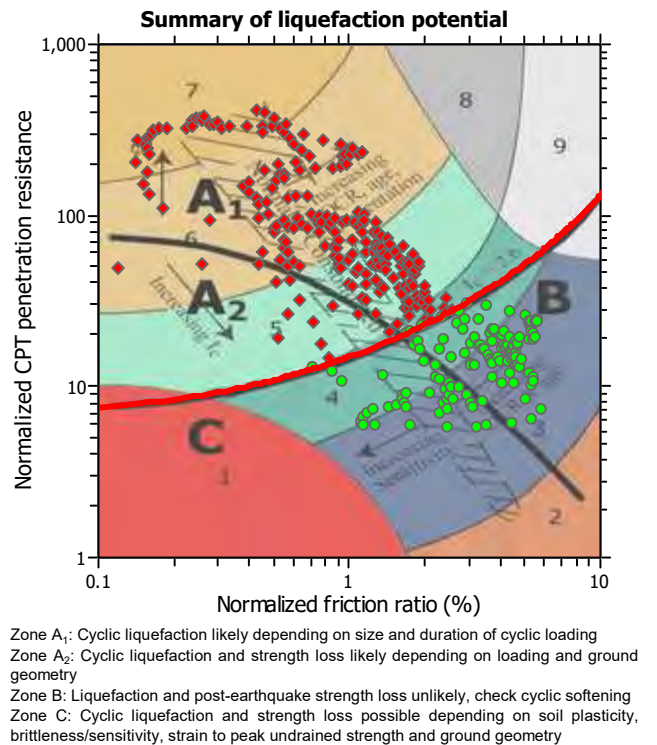
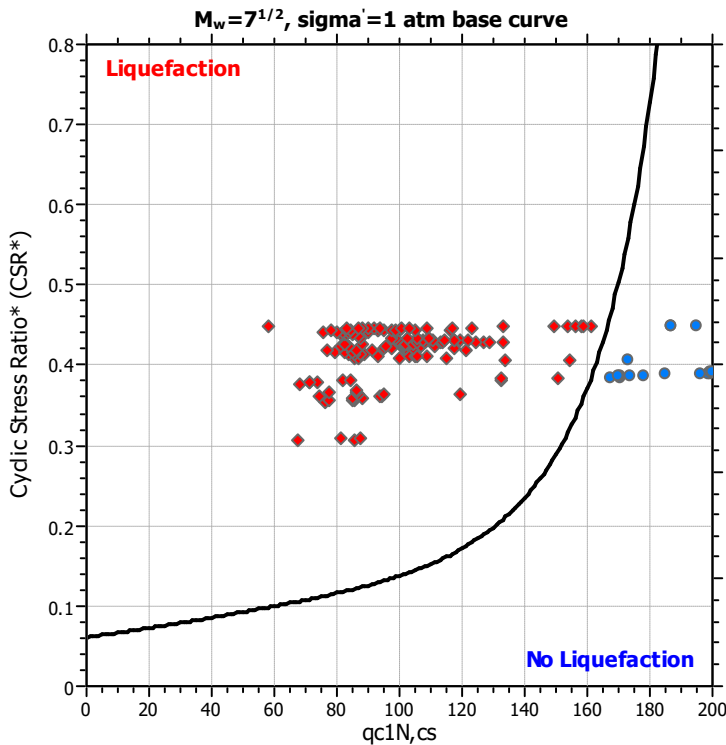
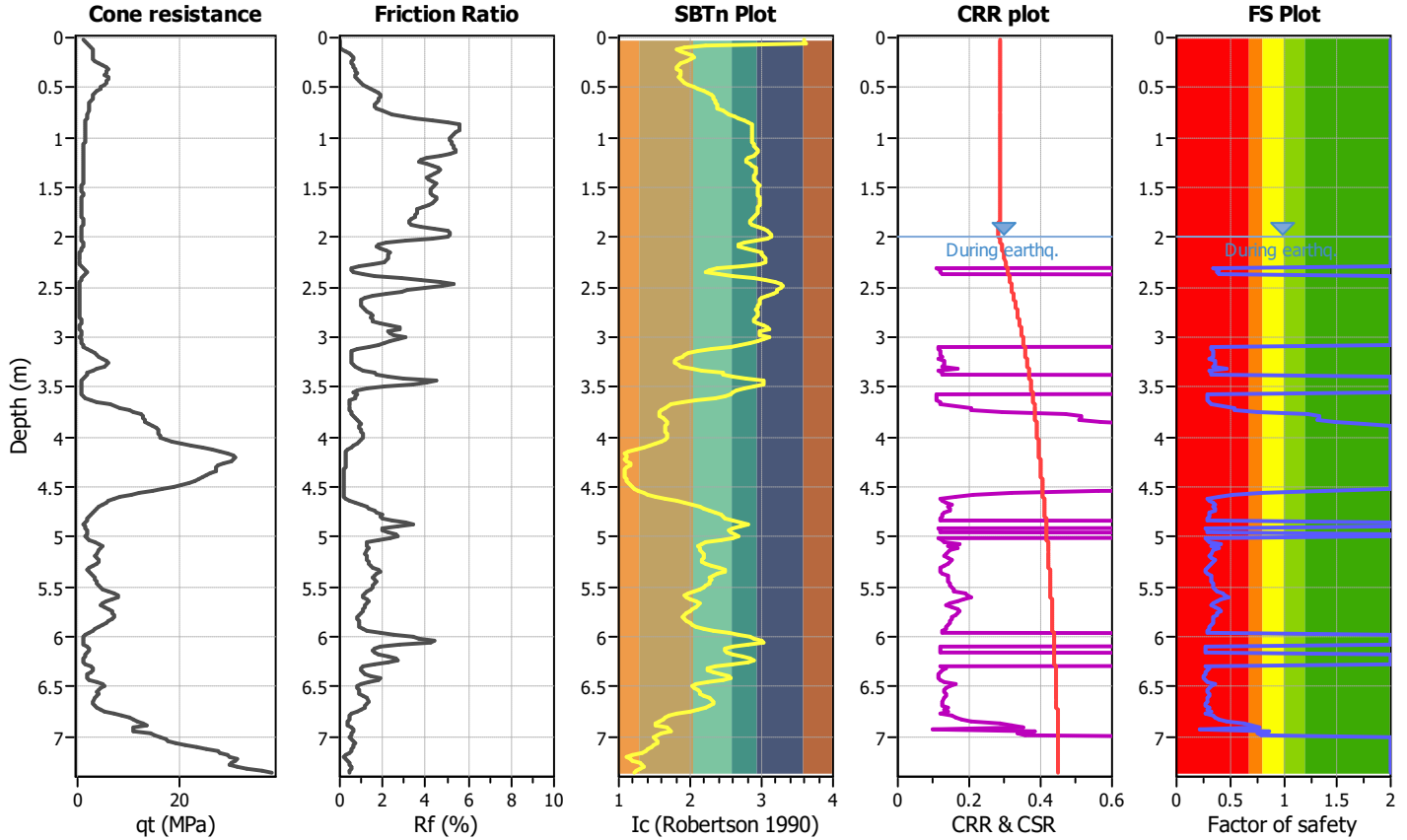
**Project title : 170602050\_Greenstone Stages 3-5**

**Location : Lots 1 - 44 Lyndhurst Rd**

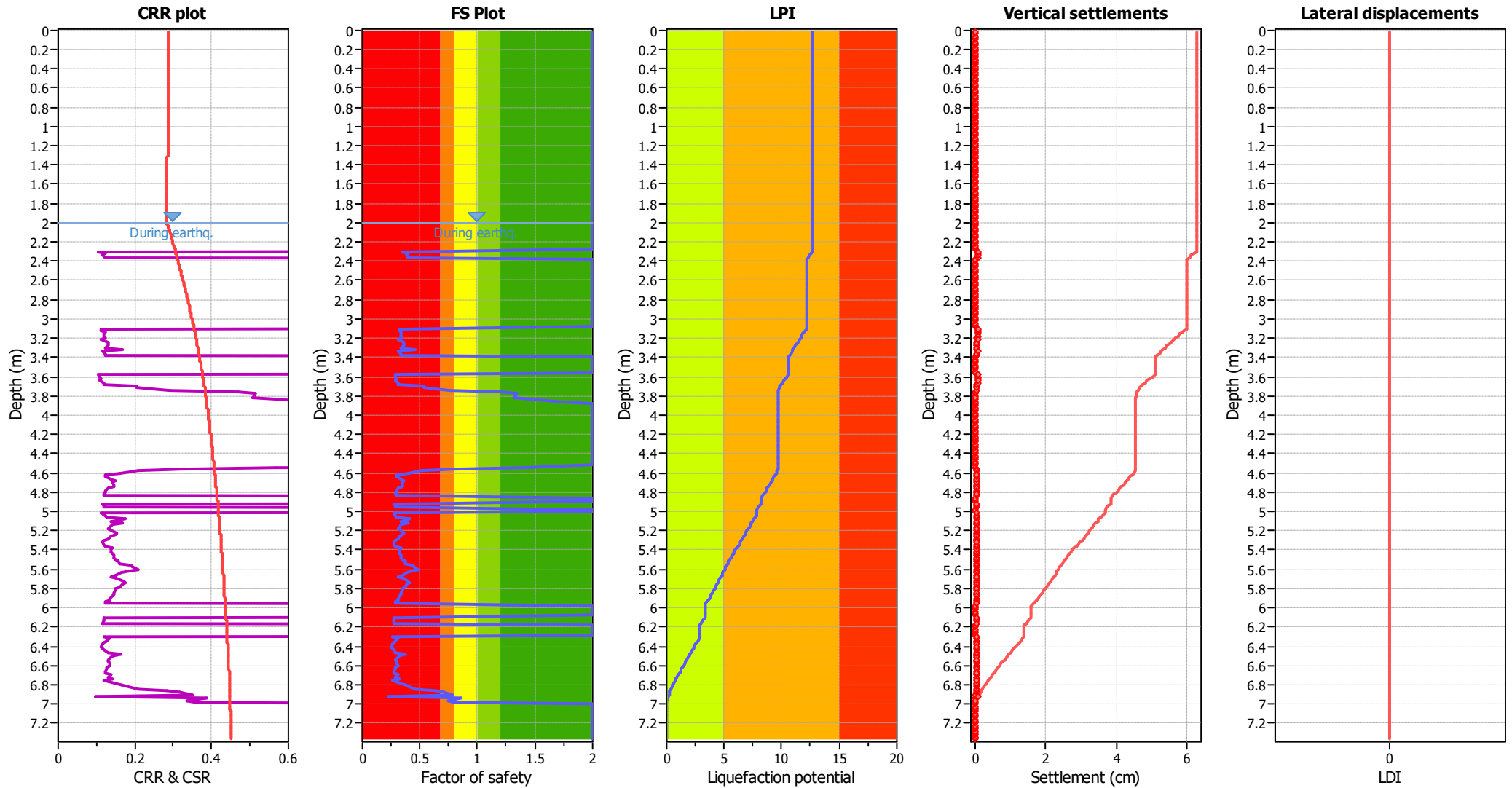
**CPT file : CPT07\_ULS**

### Input parameters and analysis data

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Fines correction method:	B&I (2014)	G.W.T. (earthq.):	2.00 m	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	15.00 m
Earthquake magnitude $M_w$ :	7.50	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method
Peak ground acceleration:	0.44	Unit weight calculation:	Based on SBT	$K_\sigma$ applied:	Yes		



### Liquefaction analysis overall plots



#### Input parameters and analysis data

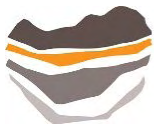
Analysis method:	B&I (2014)	Depth to GWT (earthq.):	2.00 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>σ</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	7.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.44	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	2.00 m	Fill height:	N/A	Limit depth:	15.00 m

#### F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

#### LPI color scheme

- Very high risk
- High risk
- Low risk



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## LIQUEFACTION ANALYSIS REPORT

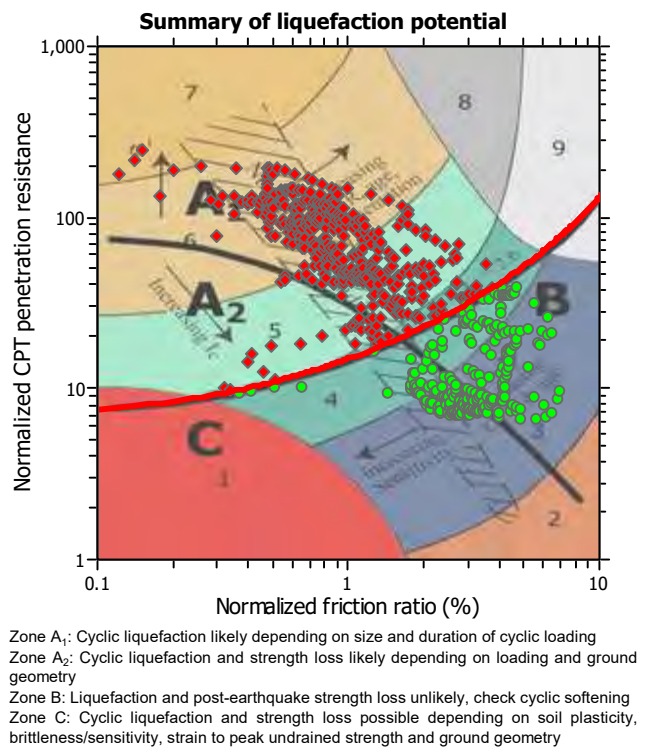
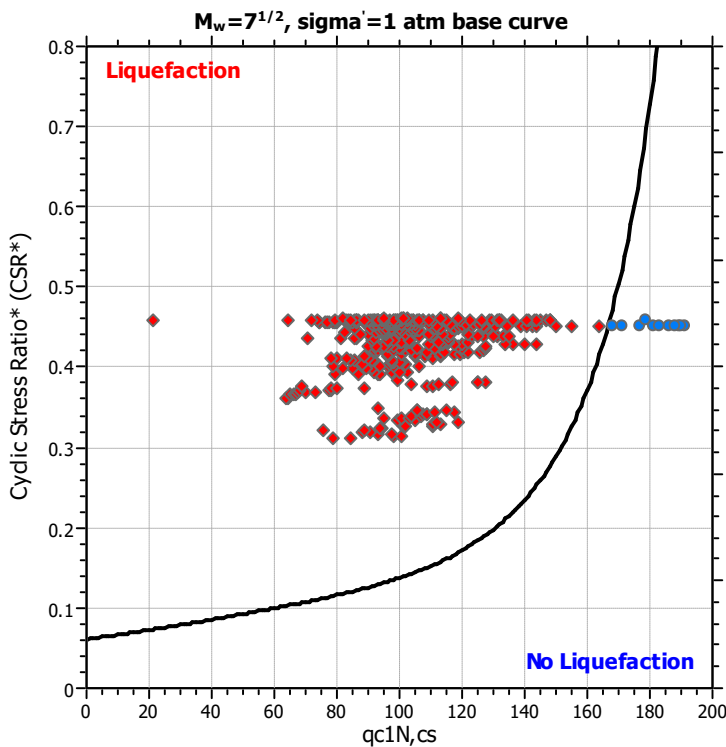
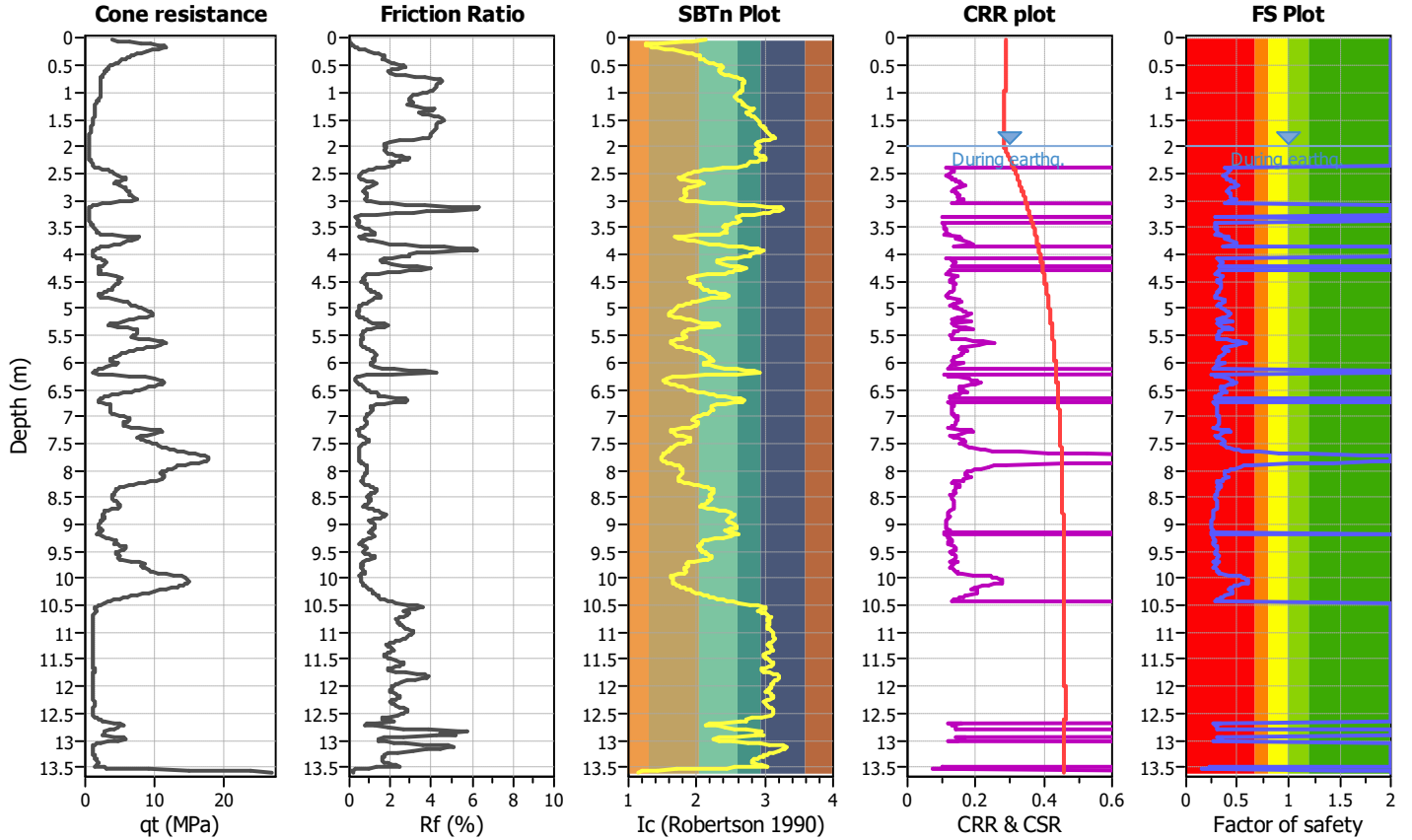
**Project title : 170602050\_Greenstone Stages 3-5**

**Location : Lots 1 - 44 Lyndhurst Rd**

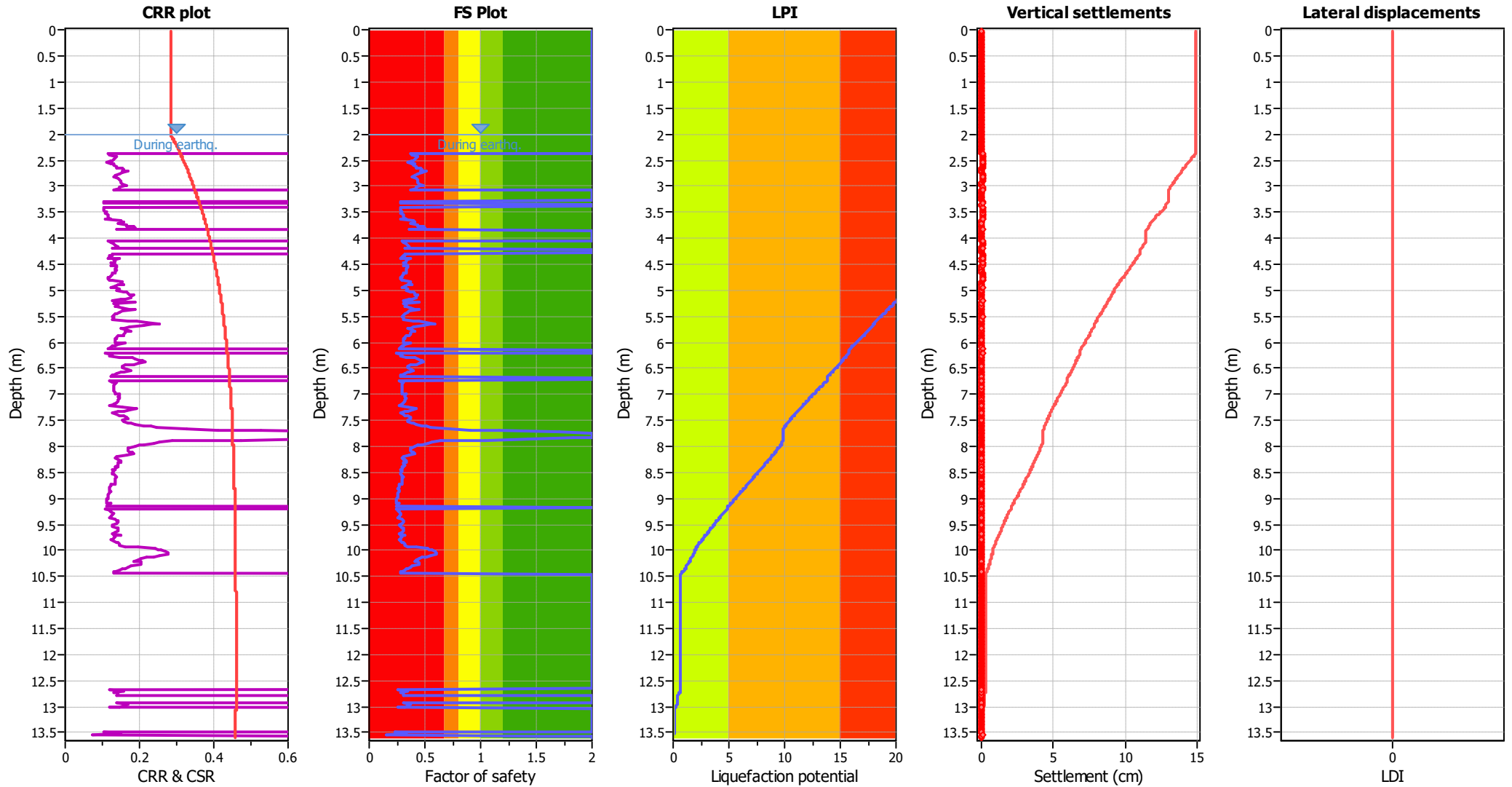
**CPT file : CPT08\_ULS**

### Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	2.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	2.00 m	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	15.00 m
Earthquake magnitude $M_w$ :	7.50	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method
Peak ground acceleration:	0.44	Unit weight calculation:	Based on SBT	$K_\sigma$ applied:	Yes		



### Liquefaction analysis overall plots



**Input parameters and analysis data**

Analysis method:	B&I (2014)	Depth to GWT (earthq.):	2.00 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_{\sigma}$ applied:	Yes
Earthquake magnitude $M_w$ :	7.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.44	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	2.00 m	Fill height:	N/A	Limit depth:	15.00 m

**F.S. color scheme**

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

**LPI color scheme**

- Very high risk
- High risk
- Low risk

# Important Information about This

# Geotechnical-Engineering Report

Subsurface problems are a principal cause of construction delays, cost overruns, claims, and disputes.

While you cannot eliminate all such risks, you can manage them. The following information is provided to help.

**The Geoprofessional Business Association (GBA) has prepared this advisory to help you – assumedly a client representative – interpret and apply this geotechnical-engineering report as effectively as possible. In that way, clients can benefit from a lowered exposure to the subsurface problems that, for decades, have been a principal cause of construction delays, cost overruns, claims, and disputes. If you have questions or want more information about any of the issues discussed below, contact your GBA-member geotechnical engineer. Active involvement in the Geoprofessional Business Association exposes geotechnical engineers to a wide array of risk-confrontation techniques that can be of genuine benefit for everyone involved with a construction project.**

## Geotechnical-Engineering Services Are Performed for Specific Purposes, Persons, and Projects

Geotechnical engineers structure their services to meet the specific needs of their clients. A geotechnical-engineering study conducted for a given civil engineer will not likely meet the needs of a civil-works constructor or even a different civil engineer. Because each geotechnical-engineering study is unique, each geotechnical-engineering report is unique, prepared *solely* for the client. *Those who rely on a geotechnical-engineering report prepared for a different client can be seriously misled.* No one except authorized client representatives should rely on this geotechnical-engineering report without first conferring with the geotechnical engineer who prepared it. *And no one – not even you – should apply this report for any purpose or project except the one originally contemplated.*

## Read this Report in Full

Costly problems have occurred because those relying on a geotechnical-engineering report did not read it *in its entirety*. Do not rely on an executive summary. Do not read selected elements only. *Read this report in full.*

## You Need to Inform Your Geotechnical Engineer about Change

Your geotechnical engineer considered unique, project-specific factors when designing the study behind this report and developing the confirmation-dependent recommendations the report conveys. A few typical factors include:

- the client's goals, objectives, budget, schedule, and risk-management preferences;
- the general nature of the structure involved, its size, configuration, and performance criteria;
- the structure's location and orientation on the site; and
- other planned or existing site improvements, such as retaining walls, access roads, parking lots, and underground utilities.

Typical changes that could erode the reliability of this report include those that affect:

- the site's size or shape;
- the function of the proposed structure, as when it's changed from a parking garage to an office building, or from a light-industrial plant to a refrigerated warehouse;
- the elevation, configuration, location, orientation, or weight of the proposed structure;
- the composition of the design team; or
- project ownership.

As a general rule, *always* inform your geotechnical engineer of project changes – even minor ones – and request an assessment of their impact. *The geotechnical engineer who prepared this report cannot accept responsibility or liability for problems that arise because the geotechnical engineer was not informed about developments the engineer otherwise would have considered.*

## This Report May Not Be Reliable

*Do not rely on this report* if your geotechnical engineer prepared it:

- for a different client;
- for a different project;
- for a different site (that may or may not include all or a portion of the original site); or
- before important events occurred at the site or adjacent to it; e.g., man-made events like construction or environmental remediation, or natural events like floods, droughts, earthquakes, or groundwater fluctuations.

Note, too, that it could be unwise to rely on a geotechnical-engineering report whose reliability may have been affected by the passage of time, because of factors like changed subsurface conditions; new or modified codes, standards, or regulations; or new techniques or tools. *If your geotechnical engineer has not indicated an "apply-by" date on the report, ask what it should be, and, in general, if you are the least bit uncertain about the continued reliability of this report, contact your geotechnical engineer before applying it.* A minor amount of additional testing or analysis – if any is required at all – could prevent major problems.

## Most of the "Findings" Related in This Report Are Professional Opinions

Before construction begins, geotechnical engineers explore a site's subsurface through various sampling and testing procedures. *Geotechnical engineers can observe actual subsurface conditions only at those specific locations where sampling and testing were performed.* The data derived from that sampling and testing were reviewed by your geotechnical engineer, who then applied professional judgment to form opinions about subsurface conditions throughout the site. Actual sitewide-subsurface conditions may differ – maybe significantly – from those indicated in this report. Confront that risk by retaining your geotechnical engineer to serve on the design team from project start to project finish, so the individual can provide informed guidance quickly, whenever needed.

## This Report's Recommendations Are Confirmation-Dependent

The recommendations included in this report – including any options or alternatives – are confirmation-dependent. In other words, *they are not final*, because the geotechnical engineer who developed them relied heavily on judgment and opinion to do so. Your geotechnical engineer can finalize the recommendations *only after observing actual subsurface conditions* revealed during construction. If through observation your geotechnical engineer confirms that the conditions assumed to exist actually do exist, the recommendations can be relied upon, assuming no other changes have occurred. *The geotechnical engineer who prepared this report cannot assume responsibility or liability for confirmation-dependent recommendations if you fail to retain that engineer to perform construction observation.*

## This Report Could Be Misinterpreted

Other design professionals' misinterpretation of geotechnical-engineering reports has resulted in costly problems. Confront that risk by having your geotechnical engineer serve as a full-time member of the design team, to:

- confer with other design-team members,
- help develop specifications,
- review pertinent elements of other design professionals' plans and specifications, and
- be on hand quickly whenever geotechnical-engineering guidance is needed.

You should also confront the risk of constructors misinterpreting this report. Do so by retaining your geotechnical engineer to participate in prebid and preconstruction conferences and to perform construction observation.

## Give Constructors a Complete Report and Guidance

Some owners and design professionals mistakenly believe they can shift unanticipated-subsurface-conditions liability to constructors by limiting the information they provide for bid preparation. To help prevent the costly, contentious problems this practice has caused, include the complete geotechnical-engineering report, along with any attachments or appendices, with your contract documents, *but be certain to note conspicuously that you've included the material for informational purposes only*. To avoid misunderstanding, you may also want to note that "informational purposes" means constructors have no right to rely on the interpretations, opinions, conclusions, or recommendations in the report, but they may rely on the factual data relative to the specific times, locations, and depths/elevations referenced. Be certain that constructors know they may learn about specific project requirements, including options selected from the report, *only* from the design drawings and specifications. Remind constructors that they may

perform their own studies if they want to, and *be sure to allow enough time* to permit them to do so. Only then might you be in a position to give constructors the information available to you, while requiring them to at least share some of the financial responsibilities stemming from unanticipated conditions. Conducting prebid and preconstruction conferences can also be valuable in this respect.

## Read Responsibility Provisions Closely

Some client representatives, design professionals, and constructors do not realize that geotechnical engineering is far less exact than other engineering disciplines. That lack of understanding has nurtured unrealistic expectations that have resulted in disappointments, delays, cost overruns, claims, and disputes. To confront that risk, geotechnical engineers commonly include explanatory provisions in their reports. Sometimes labeled "limitations," many of these provisions indicate where geotechnical engineers' responsibilities begin and end, to help others recognize their own responsibilities and risks. *Read these provisions closely*. Ask questions. Your geotechnical engineer should respond fully and frankly.

## Geoenvironmental Concerns Are Not Covered

The personnel, equipment, and techniques used to perform an environmental study – e.g., a "phase-one" or "phase-two" environmental site assessment – differ significantly from those used to perform a geotechnical-engineering study. For that reason, a geotechnical-engineering report does not usually relate any environmental findings, conclusions, or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. *Unanticipated subsurface environmental problems have led to project failures*. If you have not yet obtained your own environmental information, ask your geotechnical consultant for risk-management guidance. As a general rule, *do not rely on an environmental report prepared for a different client, site, or project, or that is more than six months old*.

## Obtain Professional Assistance to Deal with Moisture Infiltration and Mold

While your geotechnical engineer may have addressed groundwater, water infiltration, or similar issues in this report, none of the engineer's services were designed, conducted, or intended to prevent uncontrolled migration of moisture – including water vapor – from the soil through building slabs and walls and into the building interior, where it can cause mold growth and material-performance deficiencies. Accordingly, *proper implementation of the geotechnical engineer's recommendations will not of itself be sufficient to prevent moisture infiltration*. Confront the risk of moisture infiltration by including building-envelope or mold specialists on the design team. *Geotechnical engineers are not building-envelope or mold specialists*.



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