

Project ID: CES111206-CA
Client: Cadence Australia
Project: Four Points Hotel
Location: Western Distributor (southbound)

CONSULTING EARTH SCIENTISTS
Suite 3, Level 1
55 Grandview Street, Pymble NSW 2073
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Corehole ID:
FP_BH3
Sheet: 2 of 3

X-Coord: 6250752 Date Commenced: 30/04/2012 Logged by: MTP
Y-Coord: 333810 Date Completed: 30/04/2012 Checked by: MTP
Surface Elevation (R.L.): 2.80 m AHD Hole Diameter (mm): NMLC

Drilling Information					LITHOLOGY							Natural Defects								
Depth (mBGL)	R.L. (m)	Method (Support)	% Coreloss	Water	Symbol	Rock Description ROCK TYPE: grain characteristics, colour structure, minor components	Weathering	Estimated Strength MPa						Is (50) MPa	RQD %	Spacing (mm)				Description
								EL	0.03	VL	0.1	L	0.3			M	1	H	3	
0																				0
1		ADV																		1
2	1																			2
3	0		0%			SANDSTONE: fine to medium grained, orangish/reddish. Distinctly cross-bedded at 5 to 20 degrees. Iron stained throughout.	MW									80%				3
4	-1		2%			SANDSTONE: fine to medium grained, pale grey with some orange iron staining. Distinctly cross-bedded at 5 to 20 degrees.										93%				4
5	-2					NO CORE: (0.05m)														5
6	-3					SANDSTONE: fine to medium grained, pale grey with some orange iron staining. Distinctly cross-bedded at 5 to 20 degrees.	MW													6
7	-4		0%			SANDSTONE: medium to coarse grained, pale grey, massive.	SW													7
8	-5					SANDSTONE: fine to medium grained, pale grey. Distinctly cross-bedded at 10 to 20 degrees.														8
9	-6	NMLC																		9
10	-7																			10

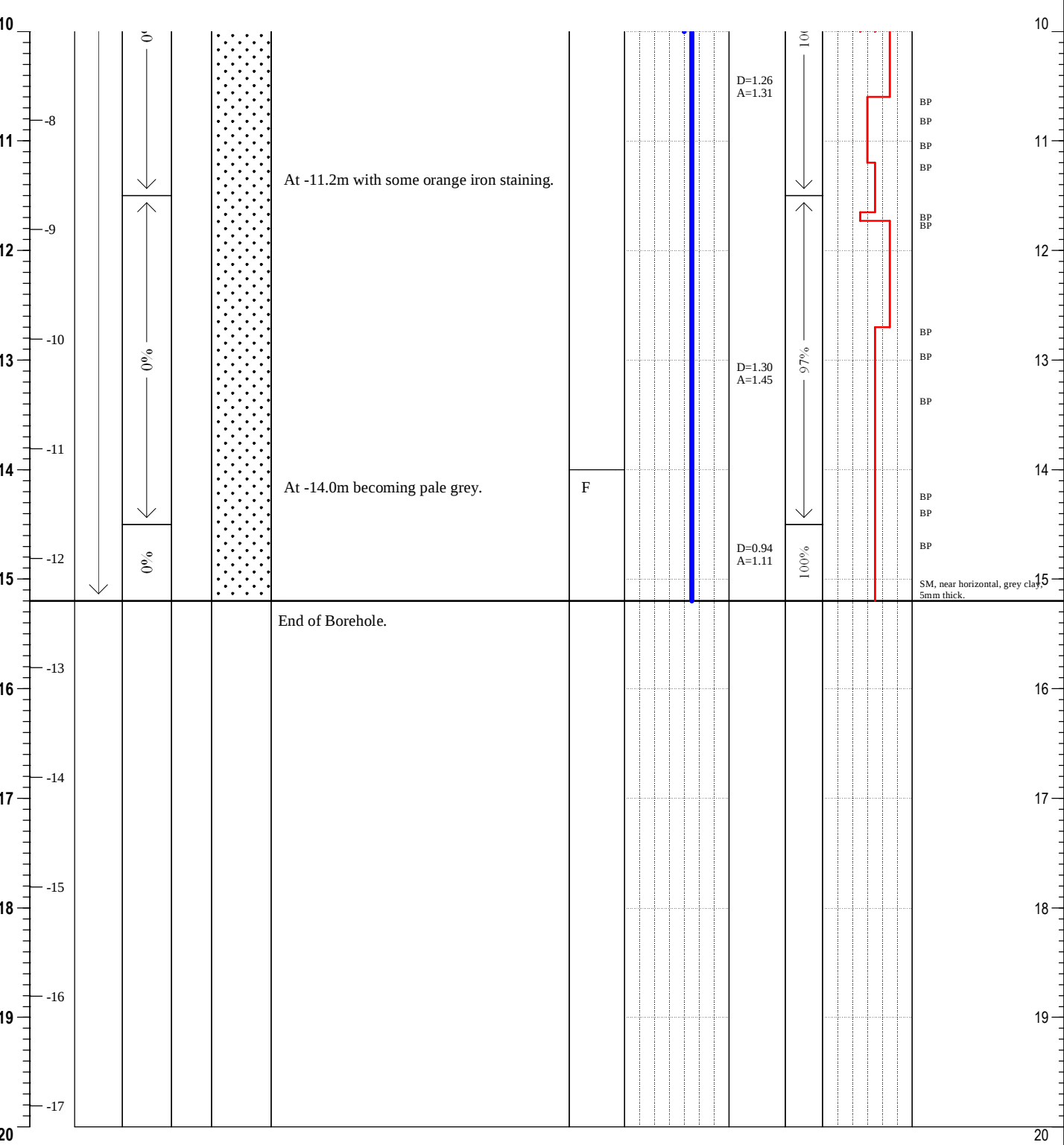
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X-Coord: 6250752 Date Commenced: 30/04/2012 Logged by: MTP
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Surface Elevation (R.L): 2.80 m AHD Hole Diameter (mm): NMLC

Drilling Information					LITHOLOGY										Natural Defects				
Depth (mBGL)	R.L. (m)	Method (Support)	% Coreloss	Water	Symbol	Rock Description ROCK TYPE: grain characteristics, colour structure, minor components	Weathering	Estimated Strength MPa						Is (50) MPa	RQD %	Spacing (mm)	Description		
								EL	VL	L	M	H	VH					EH	
								0.03	0.1	0.3	1	3	10						
															20 60 200 600 2000				





Date:	1/05/2012	Title:	FP_BH3 Four Points 2.1m to 6.0m
Prepared by:	M. Pickett		
Checked by:	D. Lowe	CES Project ID:	CES111206-CA
Scale:	NTS		
Size:	A4	Client:	Cadence Australia



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Date:	1/05/2012	Title:	FP_BH3 Four Points 6.0m to 11.0m
Prepared by:	M. Pickett		
Checked by:	D. Lowe	CES Project ID:	CES111206-CA
Scale:	NTS		
Size:	A4	Client:	Cadence Australia



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Date:	1/05/2012	Title:	FP_BH3 Four Points 11.0m to 15.2m
Prepared by:	M. Pickett		
Checked by:	D. Lowe	CES Project ID:	CES111206-CA
Scale:	NTS		
Size:	A4	Client:	Cadence Australia



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Project ID: CES111206-CA
Client: Cadence Australia
Project: Four Points Hotel
Location: Wheat Road

LOG ID:
FP_BH4

Sheet: 2 of 3

X-Coord: 333765	GDA 94 MGA 56	Date Commenced: 02/05/2012	Logged by: MTP
Y-Coord: 6250854		Date Completed: 02/05/2012	Checked by: MTP
Surface Elevation (R.L.) : 1.90 m AHD		Hole Diameter (mm): 100mm	

Drilling Information				LITHOLOGY			Samples		Tests		Well Installation Detail	
Depth (mBGL)	R.L. (m)	Method (Support)	Water	Symbol	USCS Symbol	Description SOIL TYPE: plasticity or particle characteristics colour, moisture, secondary and minor components	Consistency / Density	Sample ID	Type	SPT		100 200 300 400 Pocket Penetrometer (kPa)
10		↙				strength. Begin Core Drilling.						</

X-Coord: 6250854

Date Commenced: 02/05/2012

Logged by: MTP

Y-Coord: 333765

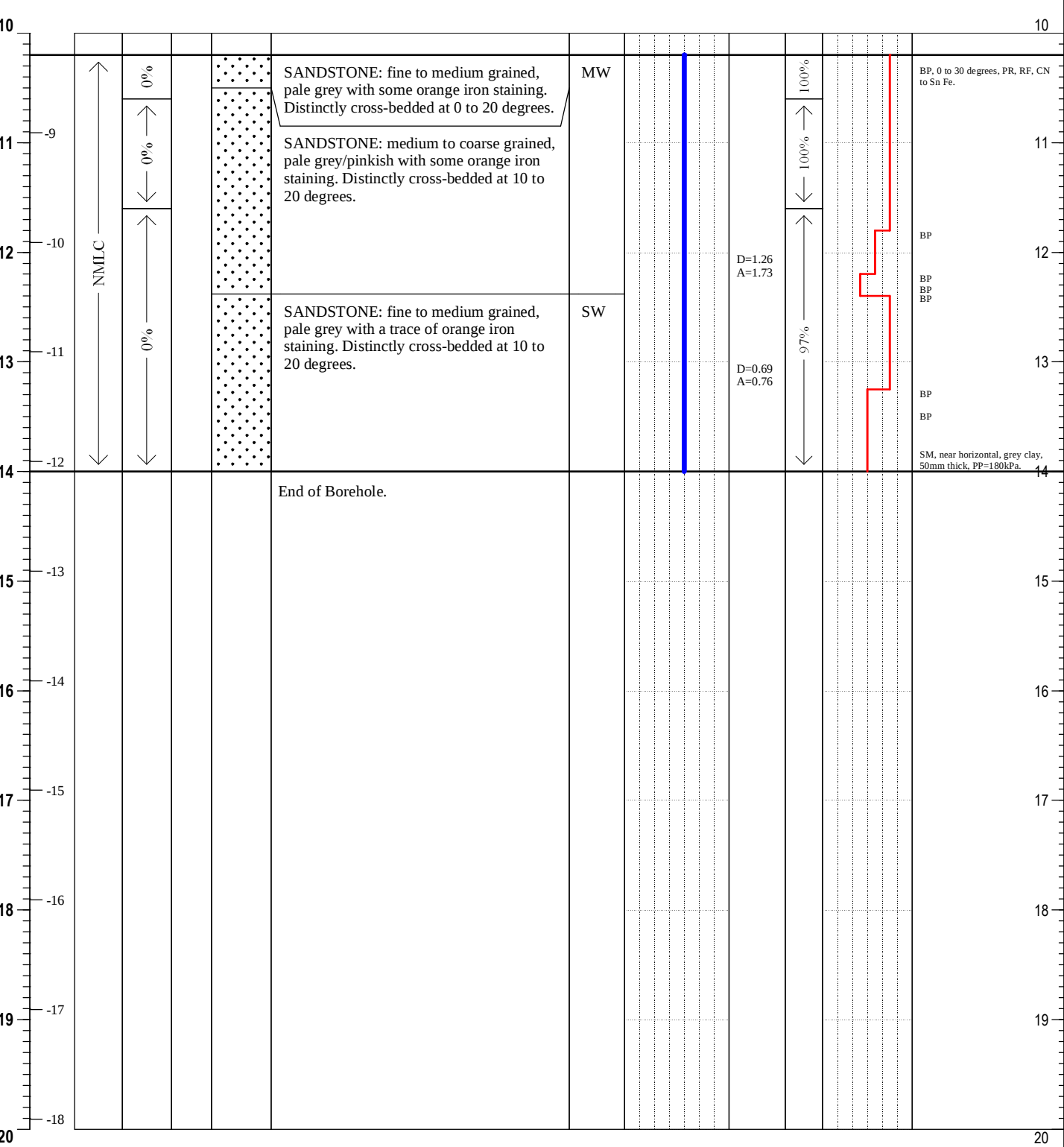
Date Completed: 02/05/2012

Checked by: MTP

Surface Elevation (R.L): 1.90 m AHD

Hole Diameter (mm): NMLC

Drilling Information					LITHOLOGY										Natural Defects				
Depth (mBGL)	R.L. (m)	Method (Support)	% Coreloss	Water	Symbol	Rock Description ROCK TYPE: grain characteristics, colour structure, minor components	Weathering	Estimated Strength MPa						Is (50) MPa	RQD %	Spacing (mm)	Description		
								EL 0.03	VL 0.1	L 0.3	M 1	H 3	VH 10					EH	





Date:	2/05/2012	Title:	FP_BH4 Four Points 10.2m to 14.0m
Prepared by:	M. Pickett		
Checked by:	D. Lowe	CES Project ID:	CES111206-CA
Scale:	NTS		
Size:	A4	Client:	Cadence Australia



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Project ID: CES111206-CA
Client: Cadence Australia
Project: Four Points Hotel
Location: Wheat Road

LOG ID:
FP_BH5

Sheet: 1 of 4

X-Coord: 333776 **Date Commenced:** 27/04/2012 **Logged by:** MTP
Y-Coord: 6250723 **GDA 94 MGA 56** **Date Completed:** 27/04/2012 **Checked by:** MTP
Surface Elevation (R.L.) : 3.50 m AHD **Hole Diameter (mm):** 100mm

Drilling Information				LITHOLOGY			Samples		Tests		Well Installation Detail
Depth (mBGL)	R.L. (m)	Method (Support)	Water	Symbol	USCS Symbol	Description SOIL TYPE: plasticity or particle characteristics colour, moisture, secondary and minor components	Consistency / Density	Sample ID	Type	SPT	
										Pocket Penetrometer (kPa) 100 200 300 400	
0		ADTC (Casing)				CONCRETE: consisting of two slabs, each 200mm thick.	L				
3					FILL: clayey sand, fine to medium grained, brown, dry. With some fine to coarse, subangular to angular gravel consisting of concrete and sandstone.	Jar					
1					FILL: sand, fine to medium grained, dark brown, dry. With a trace of clay and subangular to angular gravel consisting of brick, concrete and glass.	Jar	3,2,2 N=4				
2											
1											
3						SP	SAND: coarse grained, pale brown, wet. With a trace of silt and fine grained sand.	Jar		3,1,5 N=6	
0				SM	SILTY SAND: medium to coarse grained, dark grey, wet. with some shell fragments (fine to coarse, angular).	MD					
4											
1								Jar		2,1,10/50mm N=R	
5											
2						SANDSTONE: fine to medium grained, pale grey, with some grey clay. Extremely weathered, very low strength.				6,5/100mm N=R	
6											
3						Begin Core Drilling.					
7											
4											
8											
5											
9											
6											
10											

Drill Company: Macquarie Drilling Pty Ltd
Machine Type: E50

Operator Name: Ray Dudek
Operators Licence No.:

Refer to Standard Sheets
for details of abbreviations

X-Coord: 6250723

Date Commenced: 27/04/2012

Logged by: MTP

Y-Coord: 333776

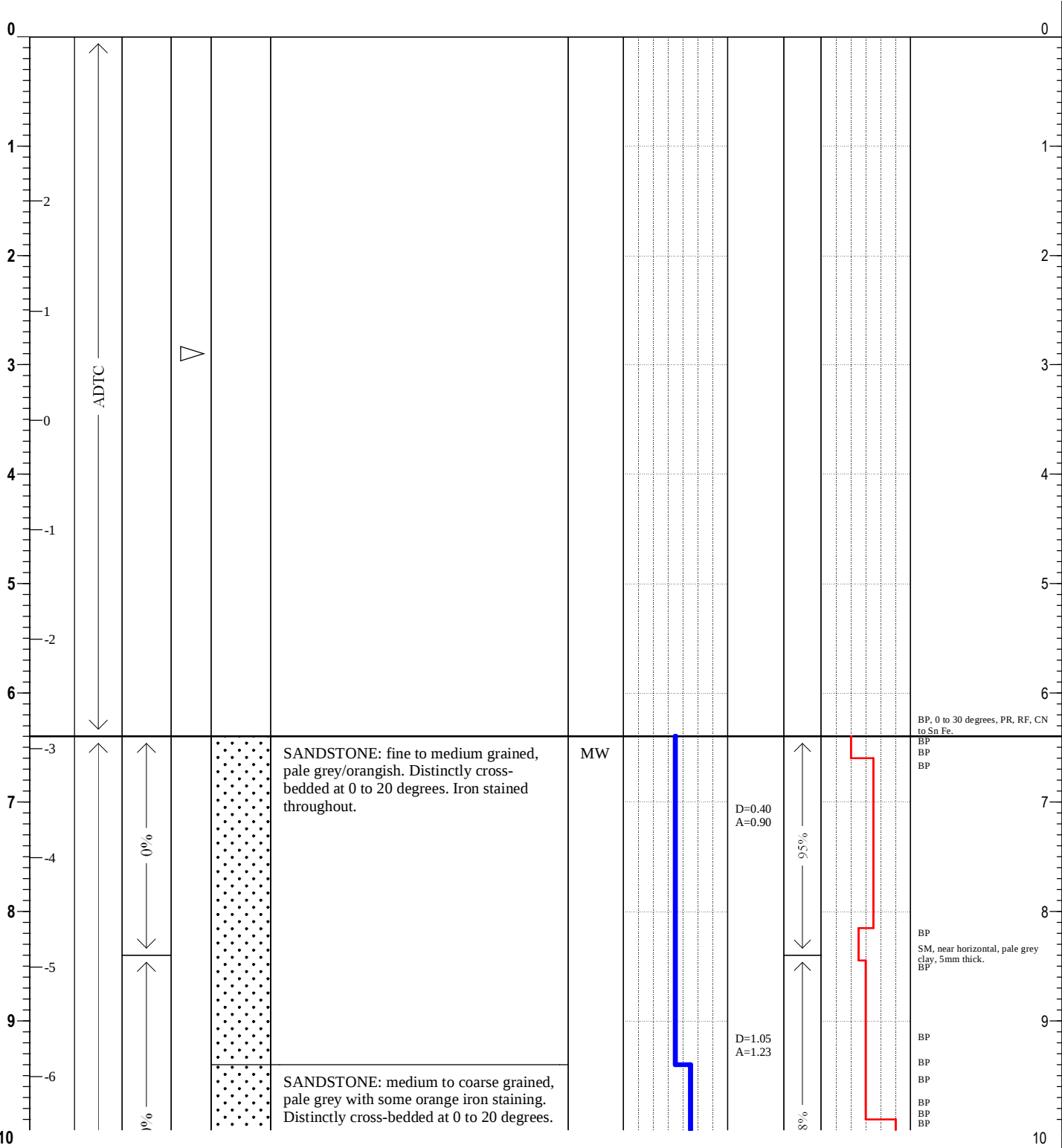
Date Completed: 27/04/2012

Checked by: MTP

Surface Elevation (R.L): 3.50 m AHD

Hole Diameter (mm): NMLC

Drilling Information					LITHOLOGY										Natural Defects				
Depth (mBGL)	R.L. (m)	Method (Support)	% Coreloss	Water	Symbol	Rock Description ROCK TYPE: grain characteristics, colour structure, minor components	Weathering	Estimated Strength MPa						Is (50) MPa	RQD %	Spacing (mm)	Description		
								EL 0.03	VL 0.1	L 0.3	M 1	H 3	VH 10					EH	





Date:	27/04/2012	Title:	FP_BH5 Four Points 6.4m to 10.0m
Prepared by:	M. Pickett		
Checked by:	D. Lowe	CES Project ID:	CES111206-CA
Scale:	NTS		
Size:	A4	Client:	Cadence Australia



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Date:	27/04/2012	Title:	FP_BH5 Four Points 10.0m to 15.0m
Prepared by:	M. Pickett		
Checked by:	D. Lowe	CES Project ID:	CES111206-CA
Scale:	NTS		
Size:	A4	Client:	Cadence Australia



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