

Contract : Burrow's Yard Client : NPTCBC / Coastal Housing Group							Trial Pit No. QTP11	
Dates : 9/12/15 - 9/12/15 Location : Retail Zone			Job Number : G762 Engineer : Quantum			Ground Level : 6,18 m A.O.D. <i>Level to Local Datum</i> Coordinates: 275971,58 E 189837,33 N <i>Co-ordinates to National Grid</i>		

m B.G.L.	Samples		Tests		Strata				WATER
	Depth	Type No.	Depth	Test Results	Depth (Thickness)	Description	Legend	Red. Level A.O.D.	
1	0,30 -	ES1			(0,50)	MADE GROUND: Black silty sandy GRAVEL with high cobble content. Gravel is fine to coarse, sub-rounded to angular, sandstone, mudstone, limestone, brick, concrete, slag, metal, plastic, glass. Cobbles are sub-angular brick, concrete, sandstone.			
	0,50 - 1,00	B4			0,50	MADE GROUND: Black ashy sandy GRAVEL with medium to high cobble content and low boulder content. Gravel is fine to coarse, sub-rounded to angular, brick, slag, concrete, sandstone, metal. Cobbles sub-angular, brick, metal, wood, sandstone, slag. Boulders of sub-angular cut sandstone, concrete.		5,68	
	0,60 -	ES2			(0,80)				
	1,00 -	ES3			1,30 (0,20)	Brown medium to coarse grained SAND.		4,88	
	1,60 -	ES5			1,50	Stiff blueish grey mottled brown sandy CLAY @2.5mbgl to 3.1mbgl Slightly gavelly and low cobble content. Gravel medium to coarse rounded sandstone. Cobbles of rounded sandstone		4,68	
2	2,00 - 2,50	B7			(1,60)				
	2,50 -	ES6							
3									
	3,20 -	ES8			3,10 (0,50)	Soft wet blueish grey slightly gravelly CLAY with low cobble content. Gravel is medium to coarse rounded sandstone. Cobbles of rounded sandstone. Frequent plant remains.		3,08	
					3,60	Trial pit terminated at 3.6mbgl		2,58	

PLAN 		Groundwater: Dry Stability: Stable Shoring: None		Remarks : Exploratory Hole was marked out and CAT scanned by Quantum Geotechnical. An 8 tonne excavator was used to reach depth.	
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Equipment Used: MXO11 Excavator						
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Contract : Burrow's Yard

Client : NPTCBC / Coastal Housing Group

Trial Pit No.

QTP11

Dates : 9/12/15 - 9/12/15

Job Number : G762

Ground Level : 6,18 m A.O.D.
Level to Local Datum

Location : Retail Zone

Engineer : Quantum

Coordinates: 275971,58 E
189837,33 N
Co-ordinates to National Grid



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Operator:
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Logged By:
J Phillips

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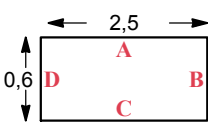
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Contract : Burrow's Yard Client : NPTCBC / Coastal Housing Group							Trial Pit No. QTP12	
Dates : 9/12/15 - 9/12/15 Location : Retail Zone			Job Number : G762 Engineer : Quantum			Ground Level : 6,10 m A.O.D. <i>Level to Local Datum</i> Coordinates: 275961,90 E 189853,61 N <i>Co-ordinates to National Grid</i>		

m B.G.L.	Samples		Tests		Strata				WATER
	Depth	Type No.	Depth	Test Results	Depth (Thickness)	Description	Legend	Red. Level A.O.D.	
1	0,30 -	ES1			(1,30)	MADE GROUND: Black silty sandy GRAVEL with high cobble content. Gravel is fine to coarse, sub-rounded to angular, sandstone, mudstone, limestone, brick, concrete, slag, metal, plastic, glass. Cobbles are sub-angular brick, concrete, sandstone.			
	0,50 - 1,00	B4							
	0,60 -	ES2							
2	1,00 -	ES3			(0,90)	Stiff blueish grey mottled brown sandy CLAY Hydrocarbon odour		4,80	
	1,60 -	ES5							
	2,30 - 2,70	B7							
3	2,50 -	ES6			(0,90)	Stiff blueish grey mottled brown CLAY Hydrocarbon odour		3,90	
	3,20 -	ES8							
	3,10								(0,50)
3,60				Trial pit terminated at 3.6mbgl		2,50			

PLAN 		Groundwater: Dry Stability: Collapsing Shoring: None		Remarks : Exploratory Hole was marked out and CAT scanned by Quantum Geotechnical. An 8 tonne excavator was used to reach depth.	
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Equipment Used: MXO11 Excavator						
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Contract : Burrow's Yard

Client : NPTCBC / Coastal Housing Group

Trial Pit No.

QTP12

Dates : 9/12/15 - 9/12/15

Job Number : G762

Ground Level : 6,10 m A.O.D.
Level to Local Datum

Location : Retail Zone

Engineer : Quantum

Coordinates: 275961,90 E
189853,61 N
Co-ordinates to National Grid



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All measurements in
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Contract : Burrow's Yard Client : NPTCBC / Coastal Housing Group						Trial Pit No. QTP13	
Dates : 10/12/15 - 10/12/15 Location : Residential Zone			Job Number : G762 Engineer : Quantum			Ground Level : 5,60 m A.O.D. <i>Level to Local Datum</i> Coordinates: 275943,42 E 189858,70 N <i>Co-ordinates to National Grid</i>	

m B.G.L.	Samples		Tests		Strata			WATER
	Depth	Type No.	Depth	Test Results	Depth (Thickness)	Description	Legend	
1	0,30 -	ES1			(0,50)	MADE GROUND: Black silty sandy GRAVEL with high cobble content. Gravel is fine to coarse, sub-rounded to angular, sandstone, mudstone, limestone, brick, concrete, slag, metal, plastic, glass. Cobbles are sub-angular brick, concrete, sandstone.		
	0,60 -	ES2			0,50 (0,40)	MADE GROUND: Black ashy sandy GRAVEL with medium to high cobble content and low boulder content. Gravel is fine to coarse, sub-rounded to angular, brick, slag, concrete, sandstone, metal. Cobbles sub-angular, brick, metal, wood, sandstone, slag. Boulders of sub-angular cut sandstone, concrete.		5,10
	1,10 - 1,20 - 1,60	ES3 B4			0,90 (1,20)	Stiff blueish grey slightly sandy slightly gravelly CLAY with low cobble content. Gravel is medium to coarse rounded sandstone. Cobbles of rounded sandstone.		4,70
2	2,00 -	ES5						
	2,50 - 3,00	B7			2,10 (1,00)	Soft wet blueish grey slightly gravelly CLAY with low cobble content. Gravel is medium to coarse rounded sandstone. Cobbles of rounded sandstone. Frequent plant remains		3,50
3	3,00 -	ES6						
					3,10	Trial pit terminated at 3.1mbgl		2,50

PLAN

Groundwater: Seepage at 2.6mbgl

 Stability: Stable

 Shoring: None

Remarks : Exploratory Hole was marked out and CAT scanned by Quantum Geotechnical. An 8 tonne excavator was used to reach depth.

Equipment Used: MXO11 Excavator

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Contract : Burrow's Yard

Client : NPTCBC / Coastal Housing Group

Trial Pit No.

QTP13

Dates : 10/12/15 - 10/12/15

Job Number : G762

Ground Level : 5,60 m A.O.D.
Level to Local Datum

Location : Residential Zone

Engineer : Quantum

Coordinates: 275943,42 E
189858,70 N
Co-ordinates to National Grid



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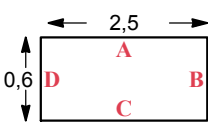
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All measurements in
metres unless
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Contract : Burrow's Yard Client : NPTCBC / Coastal Housing Group							Trial Pit No. QTP14	
Dates : 10/12/15 - 10/12/15 Location : Retail Zone			Job Number : G762 Engineer : Quantum			Ground Level : 6,01 m A.O.D. <i>Level to Local Datum</i> Coordinates: 275936,53 E 189845,05 N <i>Co-ordinates to National Grid</i>		

m B.G.L.	Samples		Tests		Strata			WATER	
	Depth	Type No.	Depth	Test Results	Depth (Thickness)	Description	Legend		Red. Level A.O.D.
1	0,20 -	ES1			(0,05)	TOPSOIL: MADE GROUND Brown slightly gravelly SAND. Gravel is fine to coarse sub-rounded to angular, sandstone, glass, brick.		5,96	
	0,40 -	ES2			(0,40)	MADE GROUND: Black ashy sandy GRAVEL with medium to high cobble content and low boulder content. Gravel is fine to coarse, sub-rounded to angular, brick, slag, concrete, sandstone, metal. Cobbles sub-angular, brick, metal, wood, sandstone, slag. Boulders of sub-angular cut sandstone, concrete.			
	0,50 - 1,00	B4			0,45	Stiff brown sandy CLAY			5,56
	1,00 -	ES3			(0,85)				
2	2,00 -	ES5			(1,10)				
	2,50 -	ES6			2,40	Soft wet blueish grey slightly gravelly CLAY with low cobble content. Gravel is medium to coarse rounded sandstone. Cobbles of rounded sandstone. Frequent plant remains.		3,61	
2,50 - 3,00	B7			(0,60)					
3					3,00	Trial pit terminated at 3.0mbgl		3,01	

PLAN 		Groundwater: Dry Stability: Stable Shoring: None		Remarks : Exploratory Hole was marked out and CAT scanned by Quantum Geotechnical. An 8 tonne excavator was used to reach depth.	
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Equipment Used: MXO11 Excavator						
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Contract : Burrow's Yard

Client : NPTCBC / Coastal Housing Group

Trial Pit No.

QTP14

Dates : 10/12/15 - 10/12/15

Job Number : G762

Ground Level : 6,01 m A.O.D.
Level to Local Datum

Location : Retail Zone

Engineer : Quantum

Coordinates: 275936,53 E
189845,05 N
Co-ordinates to National Grid



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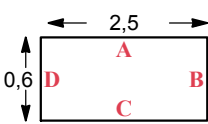
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All measurements in
metres unless
otherwise stated



Contract : Burrow's Yard Client : NPTCBC / Coastal Housing Group							Trial Pit No. QTP15		
Dates : 10/12/15 - 10/12/15 Location : Residential Zone			Job Number : G762 Engineer : Quantum			Ground Level : 6,09 m A.O.D. <i>Level to Local Datum</i> Coordinates: 275925,53 E 189863,14 N <i>Co-ordinates to National Grid</i>			
m B.G.L.	Samples		Tests		Strata				WATER
	Depth	Type No.	Depth	Test Results	Depth (Thickness)	Description	Legend	Red. Level A.O.D.	
1	0,30 -	ES1				MADE GROUND: Black mottled brown silty sandy GRAVEL with high cobble content. Gravel is fine to coarse, sub-rounded to angular, sandstone, mudstone, limestone, brick, concrete, slag, metal, plastic, glass. Cobbles are sub-angular brick, concrete, sandstone.			
	0,60 -	ES2			(0,90)				
	1,00 - 1,00 - 1,50	ES3 B4			0,90 (1,00)	Stiff brown sandy CLAY.		5,19	
	1,90 -	W5			1,90	Stiff blueish grey mottled brown sandy CLAY		4,19	
2,20 -	ES6				@2.4 to 3.1mbgl occasional plant material				
2,50 - 3,00 2,60 -	B9 ES7			(1,20)					
3	3,10 -	ES8			3,10	Trial pit terminated at 3.1mbgl		2,99	
PLAN 			Groundwater: Medium groundwater flow at 1.9mbgl Stability: Stable Shoring: None			Remarks : Exploratory Hole was marked out and CAT scanned by Quantum Geotechnical. An 8 tonne excavator was used to reach depth.			
Equipment Used: MXO11 Excavator									
			Ty Berwig, Llanelli, Carmarthenshire SA14 9ST Tel: 01544 744 880 Fax: 01554 776 150 email: enquiries@quantum-geotech.co.uk			Operator: KJ		Logged By: J Phillips	
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Contract : Burrow's Yard

Client : NPTCBC / Coastal Housing Group

Trial Pit No.

QTP15

Dates : 10/12/15 - 10/12/15

Job Number : G762

Ground Level : 6,09 m A.O.D.
Level to Local Datum

Location : Residential Zone

Engineer : Quantum

Coordinates: 275925,53 E
189863,14 N
Co-ordinates to National Grid



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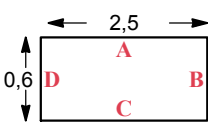
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All measurements in
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Contract : Burrow's Yard Client : NPTCBC / Coastal Housing Group							Trial Pit No. QTP16	
Dates : 10/12/15 - 10/12/15 Location : Residential Zone			Job Number : G762 Engineer : Quantum			Ground Level : 6,14 m A.O.D. <i>Level to Local Datum</i> Coordinates: 275915,92 E 189853,91 N <i>Co-ordinates to National Grid</i>		

m B.G.L.	Samples		Tests		Strata				WATER
	Depth	Type No.	Depth	Test Results	Depth (Thickness)	Description	Legend	Red. Level A.O.D.	
1	0,30 -	ES1			(0,40)	MADE GROUND: Black silty sandy GRAVEL with high cobble content. Gravel is fine to coarse, sub-rounded to angular, sandstone, mudstone, limestone, brick, concrete, slag, metal, plastic, glass. Cobbles are sub-angular brick, concrete, sandstone.			
	0,50 - 1,00	B4			0,40	MADE GROUND: Black mottled pink ashy sandy GRAVEL with medium cobble content. Gravel is fine to coarse sub-rounded to angular, sandstone, brick, slag, glass, metal, plastic. Cobbles sub-angular slag, brick, sandstone, metal.		5,74	
	0,60 -	ES2							
2	1,00 -	ES3			(1,00)				
	1,80 -	ES5			1,40	Stiff blueish grey mottled brown sandy CLAY Occasional plant material.		4,74	
				(1,30)					
3	3,00 - 3,50	B6			2,70	Soft wet blueish grey CLAY. Frequent plant remains.			3,44
	3,00 -	ES7			(1,00)	@3.5-3.7mbgl sandy slightly gravelly CLAY with low cobble content. Gravel is medium to coarse rounded sandstone. Cobbles of rounded sandstone.			
					3,70	Trial pit terminated at 3.7mbgl		2,44	

PLAN 		Groundwater: Dry Stability: Stable Shoring: None		Remarks : Exploratory Hole was marked out and CAT scanned by Quantum Geotechnical. An 8 tonne excavator was used to reach depth.	
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Equipment Used: MXO11 Excavator						
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Contract : Burrow's Yard

Client : NPTCBC / Coastal Housing Group

Trial Pit No.

QTP16

Dates : 10/12/15 - 10/12/15

Job Number : G762

Ground Level : 6.14 m A.O.D.
Level to Local Datum

Location : Residential Zone

Engineer : Quantum

Coordinates: 275915.92 E
189853.91 N
Co-ordinates to National Grid



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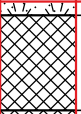
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metres unless
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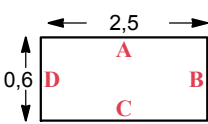


Contract : Burrow's Yard Client : NPTCBC / Coastal Housing Group		Trial Pit No. QTP16	
Dates : 10/12/15 - 10/12/15 Location : Residential Zone	Job Number : G762 Engineer : Quantum	Ground Level : 6,14 m A.O.D. <i>Level to Local Datum</i>	Coordinates: 275915,92 E 189853,91 N <i>Co-ordinates to National Grid</i>



Contract : Burrow's Yard Client : NPTCBC / Coastal Housing Group						Trial Pit No. QTP17	
Dates : 11/12/15 - 11/12/15 Location : Residential Zone			Job Number : G762 Engineer : Quantum		Ground Level : 5,94 m A.O.D. <i>Level to Local Datum</i> Coordinates: 275904,31 E 189879,57 N <i>Co-ordinates to National Grid</i>		

m B.G.L.	Samples		Tests		Strata			WATER
	Depth	Type No.	Depth	Test Results	Depth (Thickness)	Description	Legend	
1	0,40 -	ES1			(0,05) 0,05 (0,35)	TOPSOIL: Brown sandy gravelly CLAY with low cobble content and frequent rootlets. Gravel is fine to coarse, sub-rounded to angular, tarmac, brick, concrete, sandstone. Cobbles sub-angular, brick. SUB BASE: Grey GRAVEL. Gravel is fine to coarse sub-rounded to angular Slag and tarmac.		5,89
	0,80 -	ES2			0,40 (1,00)	MADE GROUND: Black silty sandy GRAVEL with high cobble content. Gravel is fine to coarse, sub-rounded to angular, sandstone, mudstone, limestone, brick, concrete, slag, metal, plastic, glass. Cobbles are sub-angular brick, concrete, sandstone.		5,54
	1,50 - 1,50 - 2,00	ES3 B4			1,40 (0,05) 1,45	Brown medium to coarse grained SAND. Stiff brown sandy CLAY @2.3-2.8mbgl Blueish grey mottled brown slightly sandy Clay.		4,54 4,49
	2,40 - 2,50 - 3,00	ES5 B7			(1,35)			
3	3,00 -	ES6			2,80 (0,20) 3,00	Soft wet blueish grey CLAY. Frequent plant remains. Trial pit terminated at 3.0mbgl		3,14 2,94

PLAN 		Groundwater: Seepage at 2.8mbgl Stability: Stable Shoring: None		Remarks : Exploratory Hole was marked out and CAT scanned by Quantum Geotechnical. An 8 tonne excavator was used to reach depth.	
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Equipment Used: MXO11 Excavator						
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Contract : Burrow's Yard

Client : NPTCBC / Coastal Housing Group

Trial Pit No.

QTP17

Dates : 11/12/15 - 11/12/15

Job Number : G762

Ground Level : 5.94 m A.O.D.
Level to Local Datum

Location : Residential Zone

Engineer : Quantum

Coordinates: 275904,31 E
189879,57 N
Co-ordinates to National Grid



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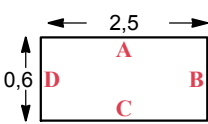
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All measurements in
metres unless
otherwise stated



Contract : Burrow's Yard Client : NPTCBC / Coastal Housing Group						Trial Pit No. QTP18	
Dates : 11/12/15 - 11/12/15 Location : Residential Zone			Job Number : G762 Engineer : Quantum			Ground Level : 6,35 m A.O.D. <i>Level to Local Datum</i> Coordinates: 275868,97 E 189829,01 N <i>Co-ordinates to National Grid</i>	

m B.G.L.	Samples		Tests		Strata			WATER
	Depth	Type No.	Depth	Test Results	Depth (Thickness)	Description	Legend	
1	0,35 -	ES1			(0,05) 0,05 (0,25)	TOPSOIL: Brown sandy gravelly CLAY with low cobble content and frequent rootlets. Gravel is fine to coarse, sub-rounded to angular, tarmac, brick, concrete, sandstone. Cobbles sub-angular, brick. MADE GROUND: Black mottled brown silty sandy GRAVEL with high cobble content. Gravel is fine to coarse, sub-rounded to angular, sandstone, mudstone, limestone, brick, concrete, slag, metal, plastic, glass. Cobbles are sub-angular brick, concrete, sandstone.		6,30 6,05
	0,60 -	ES2			0,30 (0,20) 0,50	MADE GROUND: Black mottled brown silty sandy GRAVEL with high cobble content. Gravel is fine to coarse, sub-rounded to angular, sandstone, mudstone, limestone, brick, concrete, slag, metal, plastic, glass. Cobbles are sub-angular brick, concrete, sandstone.		5,85
	1,00 -	ES3			(0,40) 0,90	MADE GROUND: Black ashy sandy GRAVEL with medium to high cobble content and low boulder content. Gravel is fine to coarse, sub-rounded to angular, brick, slag, concrete, sandstone, metal. Cobbles sub-angular, brick, metal, wood, sandstone, slag. Boulders of sub-angular cut sandstone, concrete.		5,45
	1,00 - 1,50	B4				Orange mottled light brown slightly clayey SAND. Purplish grey slightly sandy CLAY with low cobble content. Cobbles sub-rounded to sub-angular brick, lime, sandstone.		
						@1.6-2.1mbgl sandy Clay		
2	1,80 -	ES5			(1,20)			
					2,10	Trial pit terminated at 2.1mbgl		4,25

PLAN 		Groundwater: Seepage at 1.9mbgl Stability: Stable Shoring: None		Remarks : Exploratory Hole was marked out and CAT scanned by Quantum Geotechnical. An 8 tonne excavator was used to reach depth.	
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Equipment Used: MXO11 Excavator					
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Contract : Burrow's Yard

Client : NPTCBC / Coastal Housing Group

Trial Pit No.

QTP18

Dates : 11/12/15 - 11/12/15

Job Number : G762

Ground Level : 6,35 m A.O.D.
Level to Local Datum

Location : Residential Zone

Engineer : Quantum

Coordinates: 275868,97 E
189829,01 N
Co-ordinates to National Grid



Ty Berwig, Llanelli, Carmarthenshire
SA14 9ST
Tel: 01544 744 880
Fax: 01554 776 150
email: enquiries@quantum-geotech.co.uk

Operator:
KJ

Logged By:
J Phillips

Sheet No.
2 Of 2

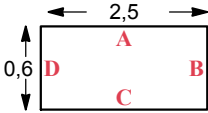
m Per
Page

All measurements in
metres unless
otherwise stated



Contract : Burrow's Yard Client : NPTCBC / Coastal Housing Group						Trial Pit No. QTP19	
Dates : 11/12/15 - 11/12/15 Location : Residential Zone			Job Number : G762 Engineer : Quantum			Ground Level : 6,36 m A.O.D. <i>Level to Local Datum</i> Coordinates: 275878,52 E 189852,44 N <i>Co-ordinates to National Grid</i>	

m B.G.L.	Samples		Tests		Strata			WATER
	Depth	Type No.	Depth	Test Results	Depth (Thickness)	Description	Legend	
1	0,30 -	ES1			(0,05)	TOPSOIL: Brown sandy gravelly CLAY with low cobble content and frequent rootlets. Gravel is fine to coarse, sub-rounded to angular, tarmac, brick, concrete, sandstone. Cobbles sub-angular, brick.		6,31
	0,50 -	ES2			(0,65)	MADE GROUND: Black mottled brown silty sandy GRAVEL with high cobble content. Gravel is fine to coarse, sub-rounded to angular, sandstone, mudstone, limestone, brick, concrete, slag, metal, plastic, glass. Cobbles are sub-angular brick, concrete, sandstone.		
	1,00 - 1,00 - 1,50	ES3 B4			0,70	MADE GROUND: Black mottled brown silty sandy GRAVEL with high cobble content. Gravel is fine to coarse, sub-rounded to angular, sandstone, mudstone, limestone, brick, concrete, slag, metal, plastic, glass. Cobbles are sub-angular brick, concrete, sandstone. @0.7 to 1.2mbgl at southern end of trial pit is concrete layer with cobbles of brick		5,66
	1,80 - 1,90 -	ES5 W6			(1,30)			
2					2,00	Trial pit terminated at 2mbgl		4,36

PLAN 		Groundwater: Seepage at 1.9mbgl Stability: Stable Shoring: None	Remarks : Exploratory Hole was marked out and CAT scanned by Quantum Geotechnical. An 8 tonne excavator was used to reach depth.
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Equipment Used: MXO11 Excavator							
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	Ty Berwig, Llanelli, Carmarthenshire SA14 9ST Tel: 01544 744 880 Fax: 01554 776 150 email: enquiries@quantum-geotech.co.uk	Operator: KJ	Logged By: J Phillips	Sheet No. 1 Of 2	m Per Page 5	All measurements in metres unless otherwise stated	
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Contract : Burrow's Yard

Client : NPTCBC / Coastal Housing Group

Trial Pit No.

QTP19

Dates : 11/12/15 - 11/12/15

Job Number : G762

Ground Level : 6,36 m A.O.D.
Level to Local Datum

Location : Residential Zone

Engineer : Quantum

Coordinates: 275878,52 E
189852,44 N
Co-ordinates to National Grid



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Operator:
KJ

Logged By:
J Phillips

Sheet No.
2 Of 2

m Per
Page

All measurements in
metres unless
otherwise stated

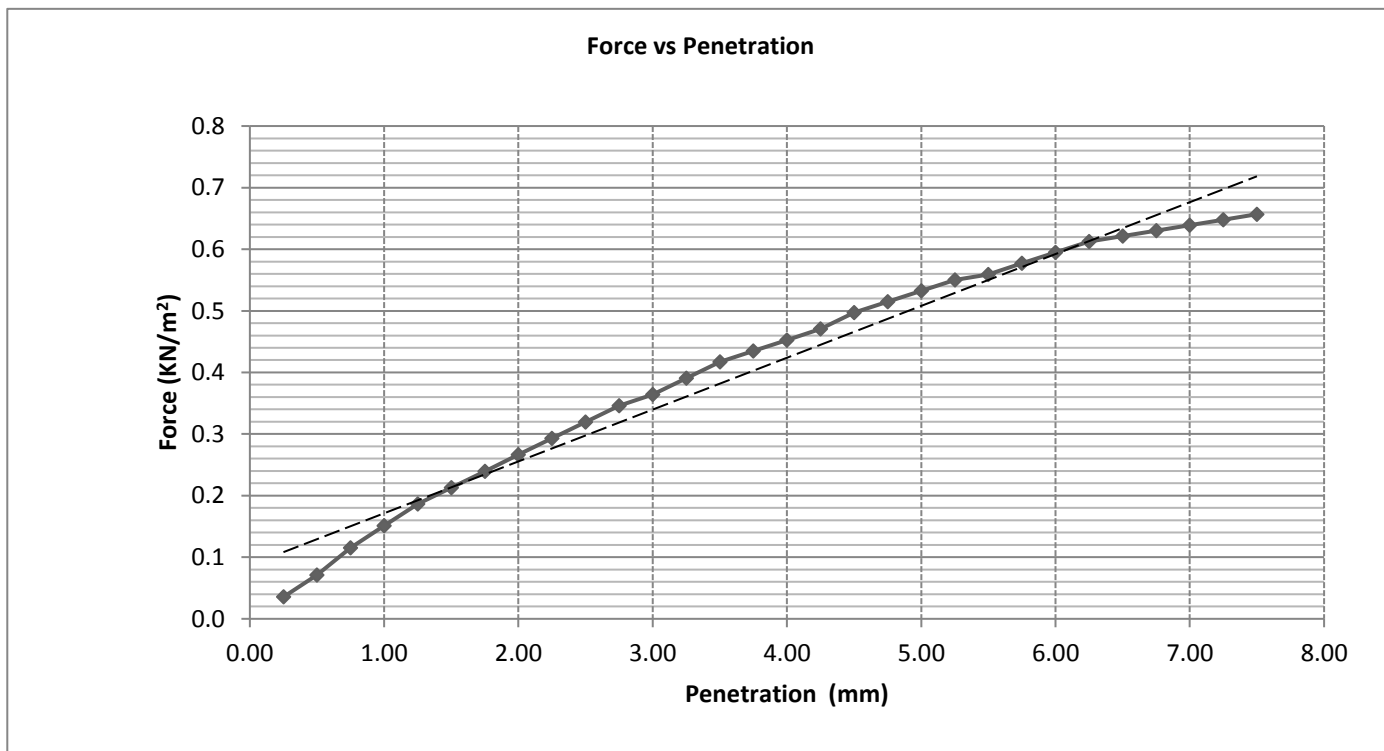


APPENDIX VI – CALIFORNIA BEARING RATIO RESULTS

Determination of In Situ CBR to BS 1377: Part 9: 1990: Cl.4.3

Client Name:	Neath Port Talbot County Borough Council		
Client Address:	Civic Centre, Port Talbot, SA13 1PJ		
Contract Name:	Burrows Yard, Opposite Water Street, port Talbot	Contract No.:	G762

Site Reference:	QCBR01	Lab. Reference:	G762.1.1	Date Tested:	9.12.15
Sample Location:	1			Date Received:	9.12.15
Material Description:	Dark grey sandy gravel				
Supplier:	In Situ		Source:	In Situ	
Depth Below Ground Level:	0.3m		Reaction Load:	4 x 4 Vehicle	



Peneration (mm)	2.50	5.00
Force (kN)	0.3	0.5
Standard Force (kN)	13.20	20.00
CBR (%)	2.4	2.7

CBR Value (%)	2.7
Moisture Content (%)	23

Remarks:

Signed: **G.Morris**
Position: Laboratory Manager
Dated: 29 April 2016

Penetration (mm)	Force (kN)	Force (divs)
0.25	0.0	4
0.50	0.1	8
0.75	0.1	13
1.00	0.2	17
1.25	0.2	21
1.50	0.2	24
1.75	0.2	27
2.00	0.3	30
2.25	0.3	33
2.50	0.3	36
2.75	0.3	39
3.00	0.4	41
3.25	0.4	44
3.50	0.4	47
3.75	0.4	49
4.00	0.5	51
4.25	0.5	53
4.50	0.5	56
4.75	0.5	58
5.00	0.5	60
5.25	0.6	62
5.50	0.6	63
5.75	0.6	65
6.00	0.6	67
6.25	0.6	69
6.50	0.6	70
6.75	0.6	71
7.00	0.6	72
7.25	0.6	73
7.50	0.7	74

Load Ring No.	10kN	(use drop down menu)
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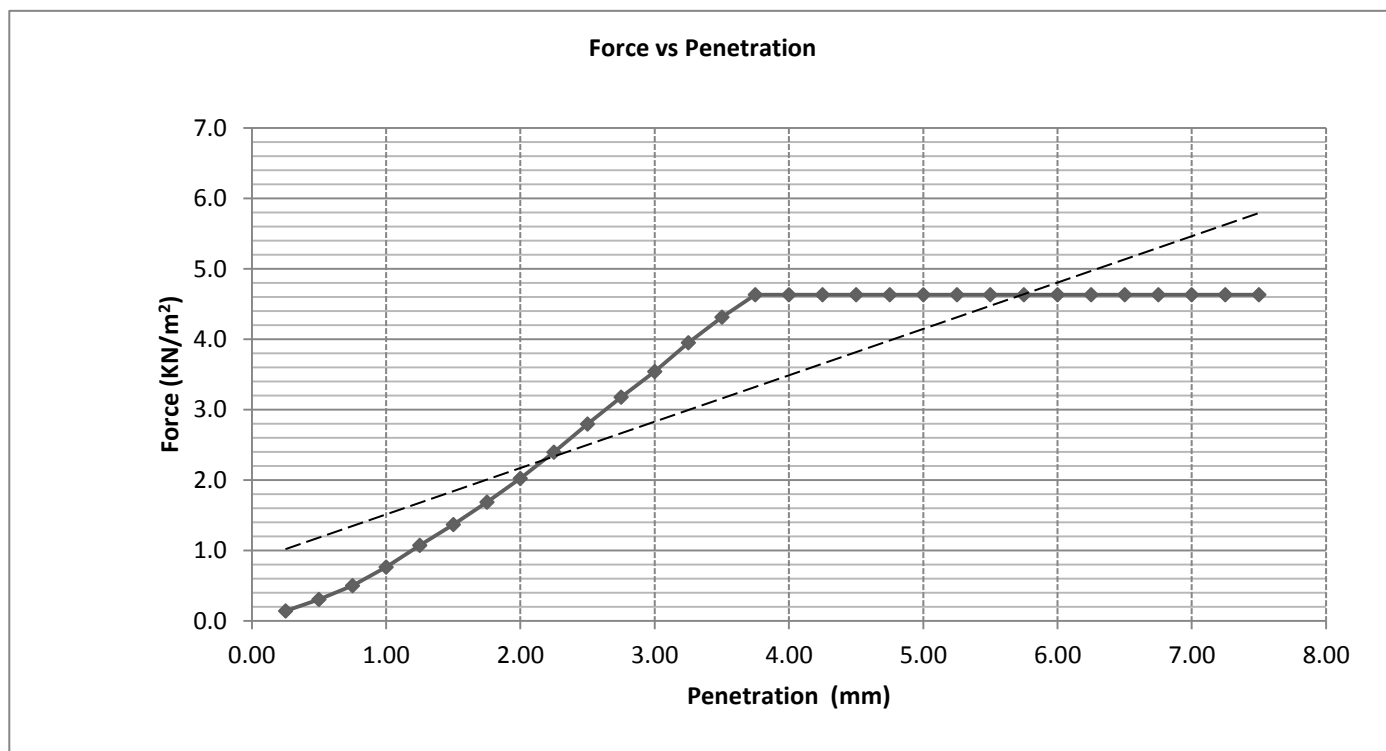
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Moisture Content	23
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Determination of In Situ CBR to BS 1377: Part 9: 1990: Cl.4.3

Client Name:	Neath Port Talbot County Borough Council		
Client Address:	Civic Centre, Port Talbot, SA13 1PJ		
Contract Name:	Burrows Yard, Opposite Water Street, port Talbot	Contract No.:	G762

Site Reference:	QCBR02	Lab. Reference:	G762.1.2	Date Tested:	9.12.15
Sample Location:	2			Date Received:	9.12.15
Material Description:	Dark grey sandy gravel				
Supplier:	In Situ	Source:	In Situ		
Depth Below Ground Level:	0.3m	Reaction Load:	4 x 4 Vehicle		



Peneration (mm)	2.50	5.00
Force (kN)	2.8	4.6
Standard Force (kN)	13.20	20.00
CBR (%)	21	23

CBR Value (%)	23
Moisture Content (%)	18

Remarks:	Test stopped due to vehicle lifting.
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Signed: **G.Morris**
Position: Laboratory Manager
Dated: 29 April 2016

Penetration (mm)	Force (kN)	Force (divs)
0.25	0.1	16
0.50	0.3	34
0.75	0.5	56
1.00	0.8	86
1.25	1.1	121
1.50	1.4	154
1.75	1.7	190
2.00	2.0	228
2.25	2.4	270
2.50	2.8	315
2.75	3.2	358
3.00	3.5	399
3.25	3.9	445
3.50	4.3	486
3.75	4.6	522
4.00	4.6	522
4.25	4.6	522
4.50	4.6	522
4.75	4.6	522
5.00	4.6	522
5.25	4.6	522
5.50	4.6	522
5.75	4.6	522
6.00	4.6	522
6.25	4.6	522
6.50	4.6	522
6.75	4.6	522
7.00	4.6	522
7.25	4.6	522
7.50	4.6	522

Load Ring No.	10kN	(use drop down menu)
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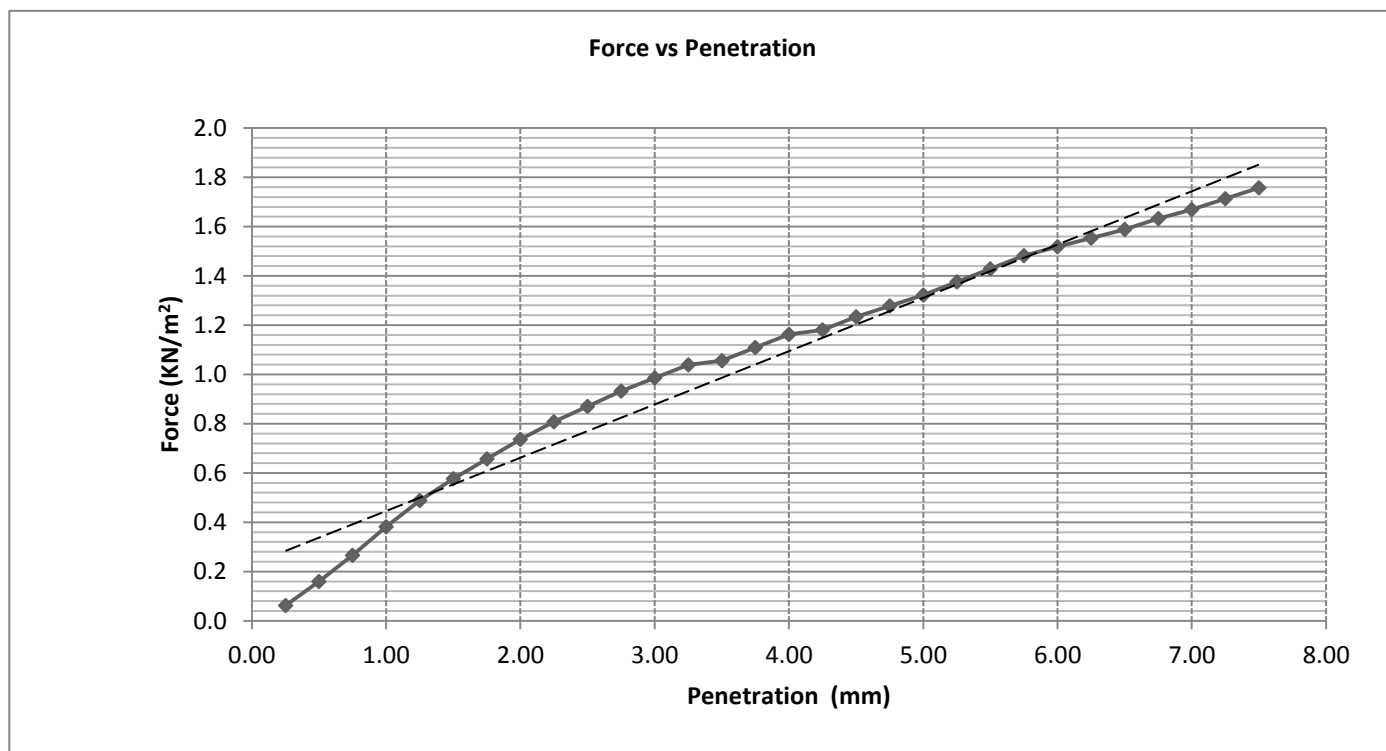
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Moisture Content	18
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Determination of In Situ CBR to BS 1377: Part 9: 1990: Cl.4.3

Client Name:	Neath Port Talbot County Borough Council		
Client Address:	Civic Centre, Port Talbot, SA13 1PJ		
Contract Name:	Burrows Yard, Opposite Water Street, port Talbot	Contract No.:	G762

Site Reference:	QCBR03	Lab. Reference:	G762.1.3	Date Tested:	9.12.15
Sample Location:	3			Date Received:	9.12.15
Material Description:	Dark grey sandy gravel				
Supplier:	In Situ		Source:	In Situ	
Depth Below Ground Level:	0.3m		Reaction Load:	4 x 4 Vehicle	



Peneration (mm)	2.50	5.00
Force (kN)	0.9	1.3
Standard Force (kN)	13.20	20.00
CBR (%)	6.6	6.6

CBR Value (%)	6.6
Moisture Content (%)	17

Remarks:

Signed: **G.Morris**
Position: Laboratory Manager
Dated: 29 April 2016

Penetration (mm)	Force (kN)	Force (divs)
0.25	0.1	7
0.50	0.2	18
0.75	0.3	30
1.00	0.4	43
1.25	0.5	55
1.50	0.6	65
1.75	0.7	74
2.00	0.7	83
2.25	0.8	91
2.50	0.9	98
2.75	0.9	105
3.00	1.0	111
3.25	1.0	117
3.50	1.1	119
3.75	1.1	125
4.00	1.2	131
4.25	1.2	133
4.50	1.2	139
4.75	1.3	144
5.00	1.3	149
5.25	1.4	155
5.50	1.4	161
5.75	1.5	167
6.00	1.5	171
6.25	1.6	175
6.50	1.6	179
6.75	1.6	184
7.00	1.7	188
7.25	1.7	193
7.50	1.8	198

Load Ring No.	10kN	(use drop down menu)
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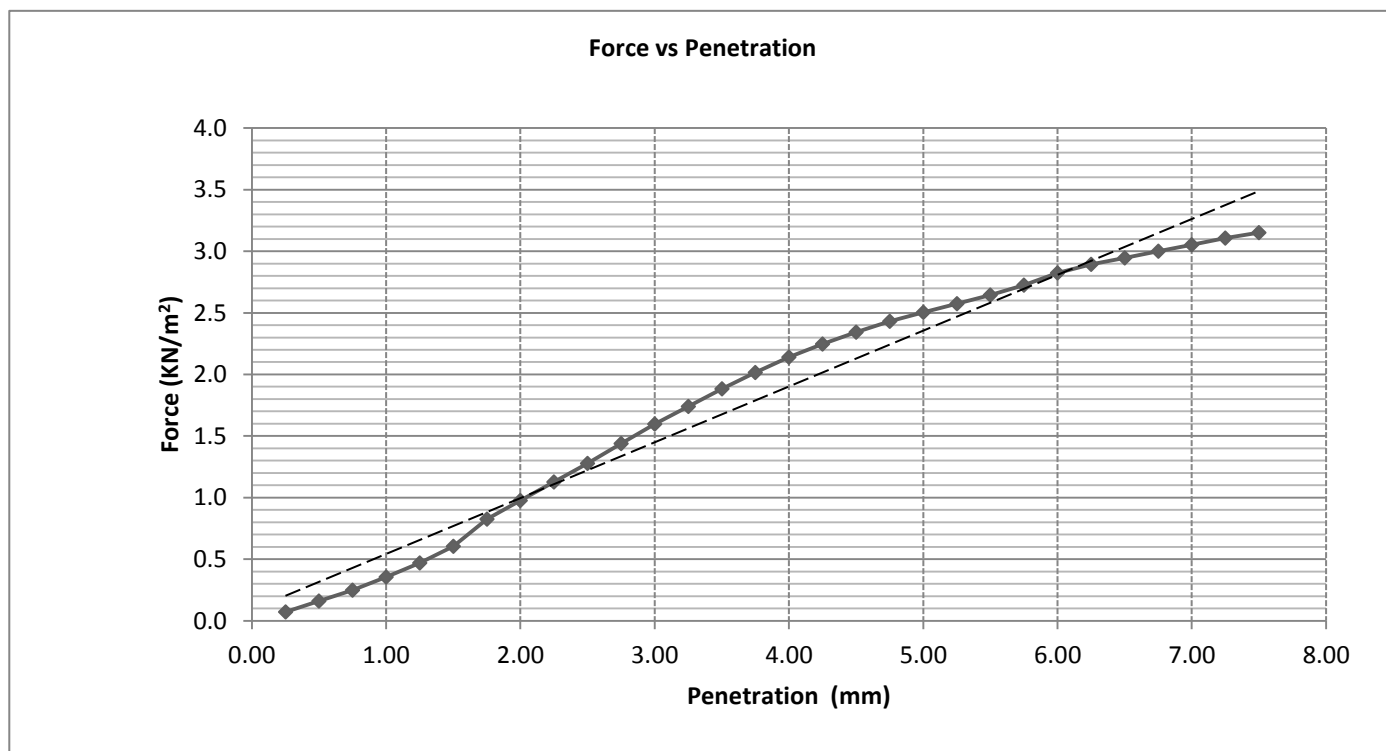
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Moisture Content	17
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Determination of In Situ CBR to BS 1377: Part 9: 1990: Cl.4.3

Client Name:	Neath Port Talbot County Borough Council		
Client Address:	Civic Centre, Port Talbot, SA13 1PJ		
Contract Name:	Burrows Yard, Opposite Water Street, port Talbot	Contract No.:	G762

Site Reference:	QCBR04	Lab. Reference:	G762.1.4	Date Tested:	9.12.15
Sample Location:	4			Date Received:	9.12.15
Material Description:	Dark grey sandy gravel				
Supplier:	In Situ		Source:	In Situ	
Depth Below Ground Level:	0.3m		Reaction Load:	4 x 4 Vehicle	



Peneration (mm)	2.50	5.00
Force (kN)	1.3	2.5
Standard Force (kN)	13.20	20.00
CBR (%)	9.7	13

CBR Value (%)	13
Moisture Content (%)	14

Remarks:

Signed: **G.Morris**
Position: Laboratory Manager
Dated: 29 April 2016

Penetration (mm)	Force (kN)	Force (divs)
0.25	0.1	8
0.50	0.2	18
0.75	0.2	28
1.00	0.4	40
1.25	0.5	53
1.50	0.6	68
1.75	0.8	93
2.00	1.0	110
2.25	1.1	127
2.50	1.3	144
2.75	1.4	162
3.00	1.6	180
3.25	1.7	196
3.50	1.9	212
3.75	2.0	227
4.00	2.1	241
4.25	2.2	253
4.50	2.3	264
4.75	2.4	274
5.00	2.5	282
5.25	2.6	290
5.50	2.6	298
5.75	2.7	307
6.00	2.8	318
6.25	2.9	326
6.50	2.9	332
6.75	3.0	338
7.00	3.1	344
7.25	3.1	350
7.50	3.2	355

Load Ring No.	10kN	(use drop down menu)
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Load Ring Factor.	0.0088763
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Moisture Content	14
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