# A2292 Geotechnical Report

# Ponsharden Cemeteries Falmouth Road, Falmouth, Cornwall



For

PDP Green Consulting Ltd, Calenick House, Truro Technology Park, Newham, Truro, Cornwall, TR1 2XN

> March 2021 Report Number: A2292-1

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- Site Photographs 1.
- 2.
- Window Sample Hole Logs Geotechnical Laboratory Test Results 3.



### 1. **INTRODUCTION**

AGS Ground Solutions (AGS) were commissioned by PDP Green Consulting Ltd (The Client), to undertake a geotechnical site investigation at Ponsharden Cemeteries, Falmouth.

It is understood that the development will comprise the construction of soil nails / rock bolts to help stabilise a retaining wall forming the northern boundary of the site.

The aim of the investigation was to:

- Determine the ground profile.
- Provide information for the design of foundations for the new structures on the site.

Our general Terms and Conditions are applicable to this report.



### 2. SITE LOCATION AND LAYOUT

The site is located in Falmouth, Cornwall and is centred approximately on Ordnance Survey Grid Reference SW 794 388. See Figure 1 for Site Location Plan.

A walkover survey was undertaken on the  $2^{nd}$  March 2021, details of which are presented below.

Access to the site was via a gate from an unnamed road to the west of Falmouth road. The site was secured with locked gates.

The site is a sensitive monument site containing multiple cemeteries, that previously was open to the public for viewing. At the time of the walkover survey the site comprised of an irregular shape containing the multiple cemeteries with many headstones and grave mounds. Access gates to the north-eastern and north-western boundaries are observed, with tracks to walk around the site. A retaining wall on the northern boundary is seen showing weathered rock, and tree stumps. A small rectangle concrete building is seen to the south-western edge of site.

The site was in poor condition with decaying headstones, overgrown grassed areas and a previous trial pit with pea gravel located in the centre of the northern boundary.

Geomorphically the site was fairly level however there were steep man-made slopes to the north and west and it was clear that the site had been artificially cut into the rock, with the south east part of the site apparently having been raised. The natural ground level sloped steeply to the west.

The following features surrounded the site:

- **To the north**; the site was bound by a steep rockface sloping down to Falmouth road. Commercial building, boats and the sea are found beyond.
- **To the east**; the site was bound Ponsharden Industrial Estate, with North Parade and industrial buildings beyond.
- **To the south**; the site was bound by an unnamed road that lead to Sainsbury supermarket, with residential properties and fields found beyond.
- **To the west**; the site was bound by a steep downward slope, trees and fields, with an industrial estate and fields beyond.

A photographic record of the site walkover survey and siteworks are presented in Appendix 1.



### 3. ENVIRONMENTAL SETTING

#### 3.1 GEOLOGY

Reference to the British Geological Survey 1:50,000 scale geological map of the area shows the site to be underlain by The Mylor Slate Formation (MRSL)

No superficial deposits were recorded on the site.

Around 50 m to the north-west of site, is shown to be underlain by Superficial deposits of Alluvium – Clay, silt sand, and gravel (ALV), which is underlain by The Mylor Slate Formation (MRSL).

Around 150 m to the north-east of site, is shown to be underlain by Superficial deposits of Tidal Flat Deposits (TFD), which is underlain by The Mylor Slate Formation (MRSL).

The British Geological survey provides the following geological descriptions. Contains British Geological Survey materials © NERC 2021:

#### Alluvium (ALV)

Description: Alluvium - Clay, Silt, Sand And Gravel. Superficial Deposits formed up to 2 million years ago in the Quaternary Period. Local environment previously dominated by rivers (U).

Setting: rivers (U). These sedimentary deposits are fluvial in origin. They are detrital, ranging from coarse- to fine-grained and form beds and lenses of deposits reflecting the channels, floodplains and levees of a river or estuary (if in a coastal setting).

#### Tidal Flat Deposits (TFD).

Description: Tidal Flat Deposits - Clay And Silt. Superficial Deposits formed up to 2 million years ago in the Quaternary Period. Local environment previously dominated by shorelines (U).

Setting: shorelines (U). These sedimentary deposits are shallow-marine in origin. They are detrital, generally coarse-grained forming beaches and bars in a coastal setting.

#### Mylor Slate Formation (MRSL).

Description: Mylor Slate Formation - Hornfelsed Slate And Hornfelsed Siltstone. Metamorphic Bedrock formed approximately 359 to 383 million years ago in the Devonian Period. Originally sedimentary rocks formed in open seas by pelagite deposits. Later altered by high temperatures of igneous intrusion.

Setting: Originally sedimentary rocks formed in open seas by pelagite deposits. These rocks were sedimentary in origin, possibly in a deep-marine (pelagic) environment, but have subsequently undergone metamorphism.



### 4. **INTRUSIVE INVESTIGATION**

#### 4.1 FIELDWORK

Site works were carried out on the  $2^{nd}$  and  $3^{rd}$  March 2021 and comprised the following:

• Excavation of 5 no. Window Sample Holes to depths of 4.00 m.

The positions of the above works on the site are indicated on Figures 2, Exploratory Hole Location Plans.

#### Window Sample Holes

Six Window Sample Holes were excavated on the site on 2<sup>nd</sup> and 3<sup>rd</sup> March 2021.

Window sample holes WS1 to WS6 were excavated on the site using an handportable cut down windowless sample rig.

The window sample holes were excavated to examine the ground, and to establish the thickness of each of the soil horizons. The resulting cores were examined by an engineer.

Standard Penetration Tests (SPTs) were performed every 1.0 m intervals in all of the window sample holes.

An hand shear vane was used to gather information on mass shear strength within the window sample arisings.

Samples were recovered for laboratory analysis.

Window Sample Hole Logs are presented in Appendix 2.

#### 4.2 **GROUNDWATER**

Groundwater was not encountered in any of the window sample holes.

It should be noted that the absence of groundwater is not necessarily indicative of the absence of a groundwater table in view of the short period the trial excavations remained open. Groundwater levels may vary due to seasonal fluctuations in rainfall, but in the shorter term can be affected by antecedent weather conditions or other causes.



### 5. LABORATORY TESTING

#### 5.1 GEOTECHNICAL TESTING

The following range of laboratory tests was scheduled:

Moisture Content of soil	12 no.
Liquid and Plastic Limits of soil	12 no.
Particle Size Distribution (Wet Sieve)	12 no.
Sedimentation	12 no.

The results of geotechnical testing are presented in Appendix 3.



### 6. EVALUATION OF GROUND CONDITIONS AND ENGINEERING PROPERTIES

#### 6.1 SOIL PROFILE

During the site investigation, three main soil / rock layers were identified on the site. An upper layer of Made Ground (MGR) was encountered which was found to overlay Weathered Mylor Slate Formation (MRSL) and The Mylor Slate Formation (MRSL).

#### Made Ground (MGR)

Made Ground (MGR) was the uppermost layer encountered on the site. The layer comprised a layer of concrete over sandy gravelly clay.

The Made Ground (MGR) was encountered in all excavations and was found to be between 0.30 m deep in Window Sample Hole WS1, WS2, WS3, WS5, and WS6, and 0.75 m in window sample hole WS4.

#### Weathered Mylor Slate Formation (MRSL)

The Weathered Mylor Slate Formation (MRSL) was situated immediately beneath the Made Ground (MGR).

The layer comprised a stiff brown, grey gravelly clay, transitioning to a moderately weak to moderatey strong grey brown metamudstone. Very thin laminae (1 - 4 mm) and rare quartz gravelly observed. Arising as clayey gravel at depth.

The Weathered Mylor Slate Formation was encountered in all locations and varied in thickness from 1.70 m in window sample hole WS2 to 3.70 m in window sample hole WS1.

#### Mylor Slate Formation (MRSL)

The Mylor Slate Formation (MRSL) was the layer on which all of the window sample holes refused. Although not observed, observations of the drill suggest that the material is intact rock.

A summary of the strata, as discussed above, is presented in the table below.

Stratum	Depth to top of Layer (m)	Thickness (m) – Where proven	Depth to base of Layer (m) – Where encountered
Made Ground (MGR)	0.00	0.30 - 0.75	0.30 - 0.75
Weathered Mylor Slate Formation (MRSL)	0.30 - 0.75	1.70 - 3.70	2.00 - 4.00
Mylor Slate	Not Encountered	Not proven	Not Encountered



Formation (MRSL)		



### **FIGURES:**

- Site Location Plan 1.
- 2. Exploratory Hole Location Plan

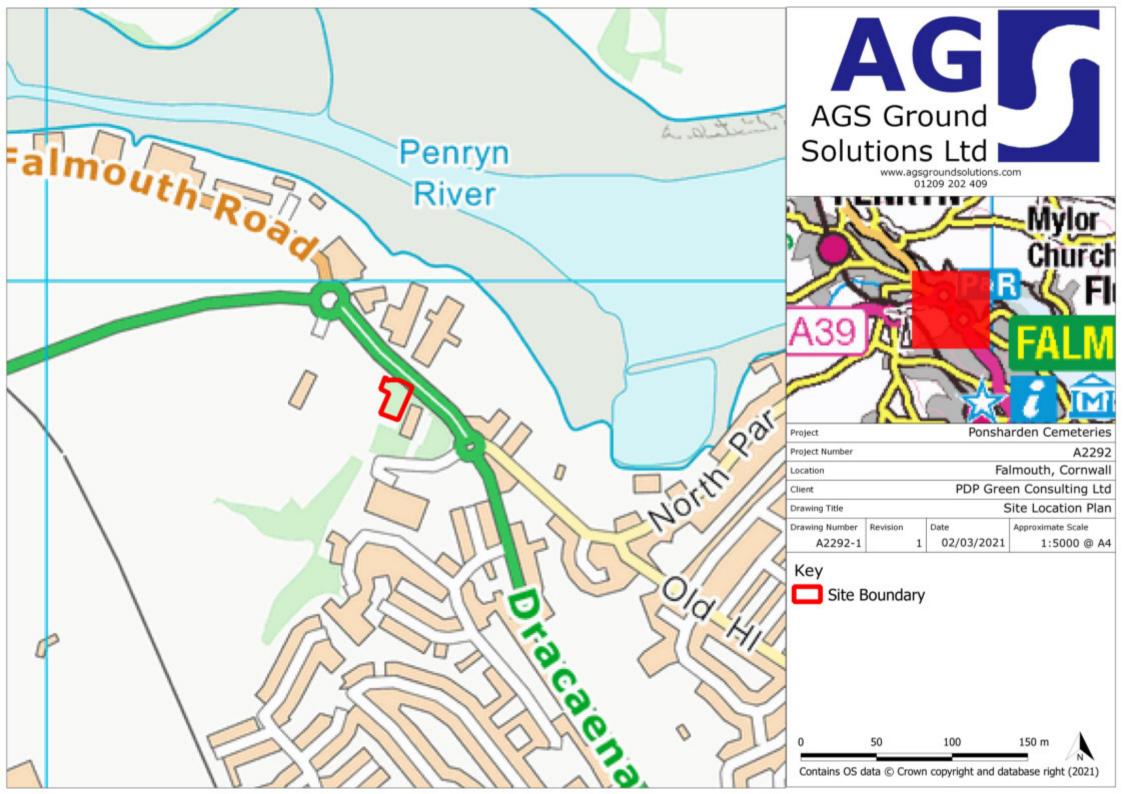
#### **APPENDICES:**

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## Figure 1

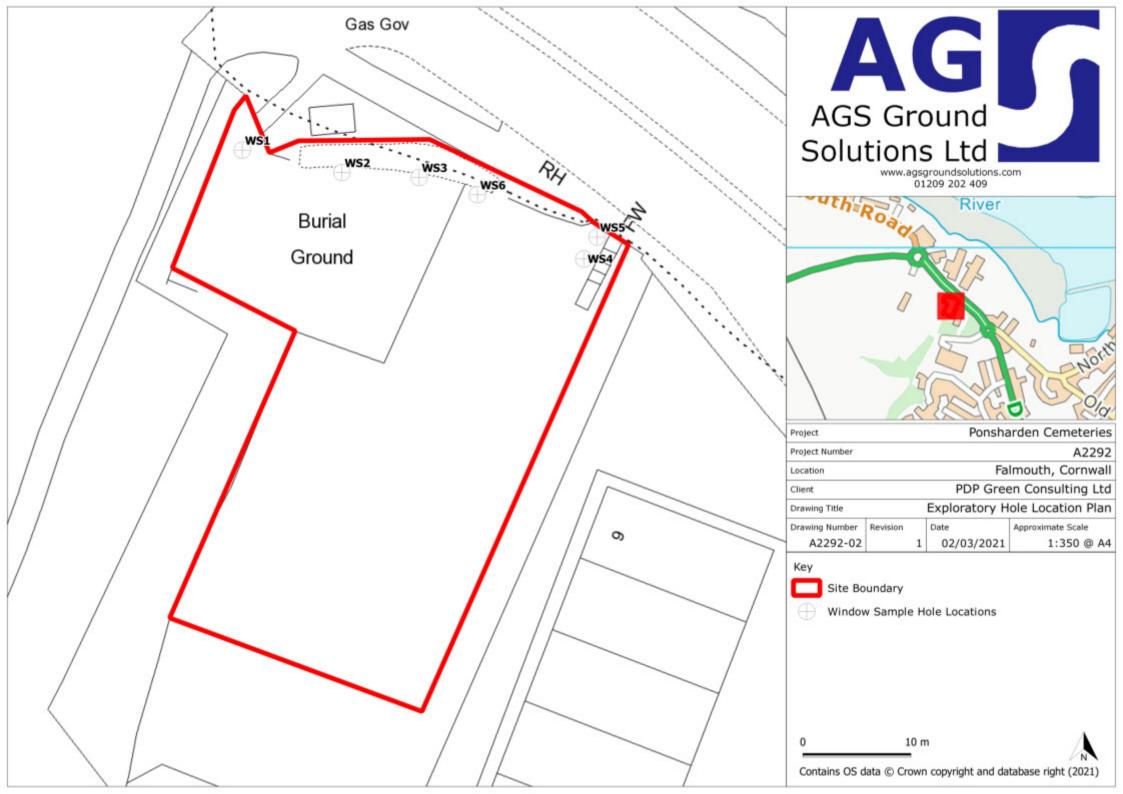
## Site Location Plan





## Figure 2

## **Exploratory Hole Location Plan**





## Appendix 1

## Site Photographs





Photograph 1 – Window Sample Hole WS6



Photograph 2 – Window Sample Hole WS5





Photograph 3 – Window Sample Hole WS4



Photograph 4 – Window Sample Hole WS3





Photograph 5 – Window Sample Hole WS2



Photograph 6 – Window Sample Hole WS1





Photograph 7 – General view of southern entrance of access to site, facing north.



Photograph 8 – General view of the southern boundary of site, facing north.





Photograph 9 – General view of the north-western boundary of site, facing north.



Photograph 10 – General view of access to the north-western boundary of site, facing north.





Photograph 11 – General view of the eastern boundary of site, facing south.



Photograph 12 – General view of the western boundary of site, facing west. The geomorphology slopes moderately down to the west.





Photograph 13 – General view of the access of the north-western boundary of site, facing south.



Photograph 14 – General view of the northern boundary of site, facing south. Note the retaining wall showing weathered rock and tree stumps.



## Appendix 2

## Window Sample Hole Logs

AGS Ground	4	Bond S 1209 20	treet, Redrut 2 409	nd Solution	UTIS LIU 2QB	Window Sampler Log No. WS1			
Folutions Ltd		gsgroun	dsolutions.c	om	Project Name: Ponsharden Cemetery	Sheet: 1 of 1	Job No:		
Equipment & Me Modular window	samples	Support I	Used:None				-		
Backfill: Bentonit	e and ar	isings			Project Location: Falmouth		A229	72	
					Client: PDP Green Consulting Ltd				
Co-ordinates:					Ground Level (m):	Date Started:02/03/2021	•		
E: N:						Date Completed:02/03/202	1		
Samples	and In s	situ Testi	ng			I	Reduced		De
Depth (m)	No.	Туре	Result	Field Records	DESCRIPT	ION	Level (m)	Lege	nd (Th (r
					-0.30		(0.) 0.)		
0.50- 0.70	WS1	D			Stiff brown/grey gravelly CLAY. Grave to sub-angular slate (Mylor Slate Formation)	l is in abundance sub-rounded			
0.80- 1.00	WS1	D							  (1.: 
1.20- 1.40	WS1	D			from 1.20 Quartz cobble				
1.50- 1.70	WS1	D			Moderately weak to moderately strong METAMUDSTONE. Very weak thin lar silty gravel (Mydor Slate Formation)	) brown/grey minae 1 to 4 mm. Arising as a	1.50		1.
1.80- 2.00	WS1	D			(Mýlor Slate Formation)				
2.20- 2.40	WS1	D							
2.50- 2.70	WS1	D							(2.)
2.80- 3.00	WS1	D			from 2.70 Quartz gravel				
3.10- 3.30	WS1	D							
. 3.40- 3.60	WS1	D							
3.80- 4.00	WS1	D					4.00		
					(Thickn	of W/S ess of not pro	<b>5 4.00 m</b> basal la ven)		
Remarks: Core recovery:							Logged	By:	Checked
0 - 1m 65% 1 - 2m 90% 2 - 3m 100%							CS Scale: 1:25	,	Approved
3 - 4m 100%							FIG No.	I	

	AGS Ground Solutions Ltd		4 Bond \$ 01209 2	Street, Redrut 02 409	h, Cornwall TR15 2		Window Sampler Log No.	WS2		
	Modular window	sample	Support	Used:None		Project Name: Ponsharden Cemetery Project Location: Falmouth Client: PDP Green Consulting Ltd		Job No: A2292		
	Co-ordinates: E: N:		Barboni, Normal TR15 208 Sampler Log No. WS2   Statistical Statistextended Statistical Statistical Statistical Statistic							
	Sample	s and In	DESCRIPTION				Immedia TRTS 2028 Sampler Log No. WS2 Street: 1 of 1   Project Location: Falnouth Client: FDP Green Consuling Lid Job No: A2292   Ground Level (m): Date Started/0203/2021   aeld Records DESCRIPTION   MADE GROUND turf over dark brown topsoil (Mode Ground) Project Location: Falnouth Client: FDP Green Consuling Lid   Image: Starte discussion of the started discussion of the st	Depth (Thick)		
	Depth (m)	A Bond Street, Redruth, Cornwall T O1209 202 409 aggroundsolutions.com Methods. by sampleSupport Used:None inte and arisings Hes and In situ Testing Karlow S2 D KS2 D K	Field Records			(,		(m)		
-						Project Name: Ponsharden Cemetery   Project Location: Falmouth   Client: PDP Green Consulting Ltd   Ground Level (m):   s   MADE GROUND turf over dark brown topsoil   (Made Ground)   Stiff brown/grey gravelly CLAY. Gravel is fine - to sub-angular slate   (Mylor Slate Formation)   Moderately weak to moderately strong brown/   METAMUDSTONE. Arising as weathered rook   (Mylor Slate Formation)	il			(0.30)
-	0.20- 0.40	WS2	D			to sub-angular slate	e - medium sub-rounded	-0.30	××××× 	0.30
	- 0.50- 0.70	WS2	D			(Mylor Slate Formation)				 (0.80)
	0.80- 1.00	WS2	D							
	1.00- 1.20	WS2	D			METAMUDSTONE. Arising as weathered ro	n/grey ck	-1.10		1.10
	_ 1.40- 1.60	WS2	D							(0.90)
	1.80- 2.00 -	WS2	D					2.00	······································	2.00
								(Thickn	ess of bas	sal layer
GDT 3/8/21										
TEMPLATE.										
-AGS3-STD										
AGS-GS STANDARD WINDOW SAMPLER LOG V2 A2292 PONSHARDEN.GPJ GSG-AGS3-STD TEMPLATE.GDT 3/8/21										
<b>DNSHARDE</b>										
/2 A2292 P/										
LER LOG V										
V SAMF										
MINDO	Remarks: Core recovery:								By: Che	cked By:
TANDARD	0 - 1m 75% 1 - 2m 100%							Scale:	Арр	roved By:
AGS-GS S	Notes: For expla	A bond Street, Redruth, Conwall T   102002400   aggroundsolutions.com   ipment & Methods.   ular window sampleSupport Used:None   Samples and In situ Testing   Depth No.   Depth No.   Or 0.40 WS2   De 1.00 WS2   De 1.20 WS2   De 1.20 WS2   De 2.00 WS2   De 2.00 WS2   De 1.60 <	viations, see Key S	heet.		FIG No	-			

AGS Ground	4	Bond S	street, Redru	nd Solution th, Cornwall TR15 2		Sampler Log N	o. WS3	). WS3			
Equipment & Me		ະອອງເບັນໄ			Project Name: Ponsharden Cemetery		Job No	:			
Modular window	sample	Support	Used:None		Project Location: Falmouth		A22				
Backfill: Bentonit	e and a	nsings						~~			
					Client: PDP Green Consulting Ltd						
Co-ordinates: E:					Ground Level (m):	Date Started:02/03/2021					
N:						Date Completed:02/03/2	021				
Samples	and In	situ Test	ing				Reduced Level		De (Th		
Depth (m)	No.	Туре	Result	Field Records	DESCRIP	TION	(m)	Lege			
					MADE GROUND turf over dark brow rootlets	n gravely clayey topsoil with			<b>X</b> (0		
					(Made Ground)		-0.30	$\times\!\!\times\!\!\times$	∅ ₀		
0.30- 0.50	WS3	D			Stiff brown/grey slightly gravelly CLA subangular - subrounded slate	Y. Gravel is fine - coarse		<u> </u>			
					(Mylor Slate Formation)						
0.70- 1.00	WS3	D							<u> </u>		
									(1 		
1 40 4 00											
1.10- 1.30	WS3	D									
1.50- 1.70	WS3	D			Moderately weak to moderately stren		-1.60	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1		
					Moderately weak to moderately stron thin laminae observed	y yiey widdo i One. Very fare		~~~~	<u>;;;</u> }		
1.80- 2.00	WS3	D			(Mylor Slate Formation)			$\sim$	۲		
2.00		-							ж.Г		
								$\sim$	×		
2.10-2.30	WS3	D						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	**		
2.40- 2.60	WS3	D							×1		
					from 2.50 Behaving as intact rock in	n moderately strong slate		$\sim$			
						n moderatery strong state			**		
280 200	14/62								***		
2.80- 3.00	WS3	D									
								~~~~	ж.Г		
									**		
							-3.30	~~~~	<u>~~</u> 3		
							End (Thickn		<b>3.30 n</b> basal k		
							r	not pro	ven)		
Remarks:							Logged	Ву:	Checked		
Core recovery: 0 - 1m 70%							CS Scale:	,	Approved		
1 - 2m 90% 2 - 3m 80%							1:25				
							FIG No				

AGS Ground	4	Bond S	treet, Redrut 2 409	nd Solution th, Cornwall TR15 2	OTIS LIU QB	Window Sampler Log No.	g No. WS4				
Equipment & Me Modular window Backfill: Bentonit	thods.	Support I	dsolutions.cr Used:None	om	Project Name: Ponsharden Cemetery Project Location: Falmouth Client: PDP Green Consulting Ltd			Job No: A2292			
Co-ordinates:					Ground Level (m):	Date Started:02/03/2021					
E: N:						Date Completed:02/03/202	I				
Samples	and In s	situ Testi	ng				Reduced Level		De		
Depth (m)	No.	Туре	Result	Field Records	DESCRIPTI	ION	(m)	Legend	(Th (r		
0.50- 0.70	WS4 WS4	D			MADE GROUND brown gravelly topso - medium subrounded imported graniti (Made Ground) Stiff brown/grey gravelly CLAY. Grave subrounded slate and flint (Mylor Slate Formation)	ic	0.75				
1.30- 1.50 1.50- 1.70	WS4 WS4	D							ଢ଼ 		
1.80- 2.00	WS4	D			from 1.70 Increased in weathered gr	ravel					
2.10- 2.30	WS4	D			Moderately weak - moderately strong g	grey/brown	-2.30		₽     1   		
2.40-2.60 WS4 D 2.70-3.00 WS4 D			METAMUDSTONE. Very thin laminae Arising as a clayey gravel (Mylor Slate Formation)	T - 4 mm. Kare quarz gravei.	-3.40		\$\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$				
							(Thickr	of W/S 3 less of ba	asal la		
Remarks: Core recovery: 0 - 1m 80%							Logged CS Scale:		necked		
1 - 2m 80% 2 - 3m 90%							1:25 FIG No				

GS Ground		4 Bond S 01209 20	Street, Redrut 02 409	nd Solution th, Cornwall TR15 2	2QB	Sampler Log No.	No. WS5			
olutions Ltd		agsgrour	ndsolutions.c	om	Decised New York and an Ormation	Sheet: 1 of 1	Job No:			
Equipment & Me Modular window	sample	Support	Used:None		Project Name: Ponsharden Cemetery		-			
Backfill: Bentonite	e and a	risings			Project Location: Falmouth		A2292			
					Client: PDP Green Consulting Ltd					
Co-ordinates:					Ground Level (m):	Date Started:02/03/2021				
E: N:						Date Completed:02/03/202	1			
Samples	and In	situ Test	ina				Reduced	De		
				Field Records	DESCRIPTI	ON	Level Le	egend (Th		
Depth (m)	No.	Туре	Result							
					MADE GROUND brown gravelly topso	il with tree roots				
					(Made Ground)			.0)		
					Stiff brown/grey gravelly CLAY. Gravel	lie in chundenee subrounded	-0.30	.0.		
0.30- 0.50	1	D			to subangular slate					
					(Mylor Slate Formation)					
0.70- 1.00	1	D								
0.70- 1.00	'	U								
								(1.:		
1.10- 1.30	1	D								
1.10- 1.00	'						<u> </u>			
								<u></u>		
1.50- 1.70	2	D						<u> </u>		
1.80- 2.00	2	D			Moderately weak to moderately strong METAMUDSTONE. Very weak thin lar	brown/grey	-1.80	1.		
2.00	-				METAMUDSTONE. Very weak thin lar silty gravel	minae 1 to 4 mm. Arising as a				
					(Mylor Slate Formation)					
2.10-2.30	2	D								
2.40- 2.60	3	D								
2.00		-						(1.		
o o o -								~~~~		
2.80-3.00	3	D								
							-3.30	3.		
							End of V	N/S 3.30 m		
							(Thickness	of basal la proven)		
Remarks:							Logged By: CS	Checked		
							Scale: 1:25	Approved		
							FIG No.			
							1			

AGS Ground		1209 20	2 409	h, Cornwall TR15 2	1 5			. WS6				
olutions Ltd		igsgroun	ndsolutions.c	om	Dreiget Name: Densberden Cometen:	Sheet: 1 of 1	lob No:					
Equipment & Me Modular window	sample	rigSupp	ort Used:Nor	ie	Project Name: Ponsharden Cemetery			Job No:				
Backfill: Bentonite	e and a	isings			Project Location: Falmouth		A22	92				
					Client: PDP Green Consulting Ltd							
Co-ordinates:					Ground Level (m):	Date Started:02/03/2021	1					
E: N:						Date Completed:02/03/202	I					
Samples	and In (	situ Toot	ing				Reduced			De		
			-	Field Records	DESCRIPTIO	N	Level (m)	Lege	end	(Th (n		
Depth (m)	No.	Туре	Result						$\sim$	,, 		
0.10- 0.30	WS6	D			MADE GROUND brown gravelly topsoil (Made Ground)	with tree roots			$\bigotimes$	(0.3		
							-0.30	××	<u> </u>	0.		
					Stiff brown/grey gravelly CLAY. Gravel i to subangular slate	s in abundance subrounded				-		
0.40- 0.60	WS6	D			(Mylor Slate Formation)					-		
									ł	-		
										- _ (1.		
0.80- 1.00	WS6	D								-		
								- <u> </u>		-		
4 40 4 55		_							<u>-</u> }	-		
1.10- 1.30	WS6	D					1 20	<u> </u>		-		
					Moderately weak to moderately strong b	prown/grey	-1.30		***	_ 1.		
1.40- 1.60	WS6	D			METAMUDSTONE. Very weak thin laminae 1 to 4 mm. Arising as a silty gravel				***	-		
					(Mylor Slate Formation)				~~_[	-		
								Ĭ		-		
									***	-		
1.80-2.00	WS6	D							***	-		
									***	-		
2.10- 2.30	WS6	D						ļ.	**	-		
		-							~~	(2.		
										-		
2.40- 2.60	WS6	D							***	-		
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								Ĭ		-		
2.70-3.00	WS6	D							***	-		
									~~~[	_		
									***	-		
									***	-		
							-3.30	~~~~		_ 3.		
							End (Thickr	of W/				
								not pro	oven)	si i8		
									,			
Remarks: Core recovery:				1	1		Loggeo		Chec	ked		
0 - 1m 100% (0m	ı - 1m)						CS Scale:		Appro	oved		
1 - 2m 80% (1.2 2 - 3m 100% (2 -	- 2m)						1:25					
							FIG No					



## Appendix 3

## **Geotechnical Laboratory Test Results**