



Preliminary Viability Investigation

Pendeen Community Cemetery

31 May 2018

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EXECUTIVE SUMMARY

Objectives

Wheal Jane Consultancy was commissioned by Mrs D Webb of The Pendeen Community Cemetery Project Committee to undertake an intrusive investigation on the site of a proposed Community Cemetery.

Site Investigation

Previous Investigations	No previous site investigations are known to have taken place.
Site Works	20 Trial Pits were excavated across the two proposed site locations 5 across site A evenly spread across the site and 15 across site B in a 10 meter grid formation.
Ground Conditions	Full ground profiles were obtained, showing topsoil overlying clayey, sandy GRAVEL which in turn overlies fractured granite bedrock of the Land's End Intrusion.
Groundwater	No groundwater was encountered during the site investigation.

Conclusions

- No groundwater was encountered during the investigation.
- Bedrock was encountered across Site A at depths of between 1.24m and 1.67m below existing ground level.
- Bedrock was encountered across Site B at depths of between 1.46m and 2.23m below existing ground level.

Recommendations

- Since the Environment Agency guidelines are somewhat ambiguous, it is recommended that this preliminary investigation report be forwarded to the aforementioned, prior to further intrusive works commencing.
- It may be feasible to conduct a localised cut-and-fill operation across the site, reducing the level of the proposed car parking areas to raise the level elsewhere, thus increasing the depth to bedrock. Alternatively, topsoil/subsoil could be sourced from elsewhere, i.e. site A.

1 INTRODUCTION

1.1 Instruction

- 1.1.1 Wheal Jane Consultancy (WJC) was commissioned by Pendeen Community Cemetery Project Committee to undertake a Preliminary Viability Investigation at two locations in Pendeen to assess their suitability to be used for a new Community Cemetery.
- 1.1.2 This report has been prepared by Wheal Jane Consultancy solely for the benefit of Pendeen Community Cemetery Project Committee. It shall not be relied upon or transferred to any third party without the prior written authorisation of WJC.

1.2 Scope and Objectives

- 1.2.1 The objective of this investigation is to determine the depth to bedrock across the site in order to assess the site's suitability for its intended use as a cemetery.

1.3 Limitations

- 1.3.1 Conditions of the ground at locations not included within the investigation may be different from the tested locations.
- 1.3.2 This report considers site conditions at the time of the ground investigation, but ground conditions may change with time. If future work discovers ground conditions that vary significantly from the findings available in this report, the conclusions should be reviewed in the context of the new information.
- 1.3.3 Findings were assessed in the context of standards and methodology current at the time of reporting.
- 1.3.4 The findings and conclusions in this report are based upon information derived from a variety of sources. WJC cannot accept liability for the accuracy or completeness of any information derived from third party sources.

2 THE SITE

2.1 Site Location and Layout

2.1.1 The sites are located at Pendeen, approximately 10km to the north west of the town centre of Penzance. Site A is approximately centred on National Grid Reference SW 38039 34275. Site B is approximately centred on National Grid Reference SW 38121 34334. The sites are shown on the site location plan Figure 2.1.

2.1.2 Both sites A and B are irregular in shape and cover an area of approximately 0.18h and 0.19h respectively.

2.1.3 The site layouts can be seen in Figures 2.2 and 2.3 below:



Figure 2.2: Current Site Layout for the preferred site option (Site B)

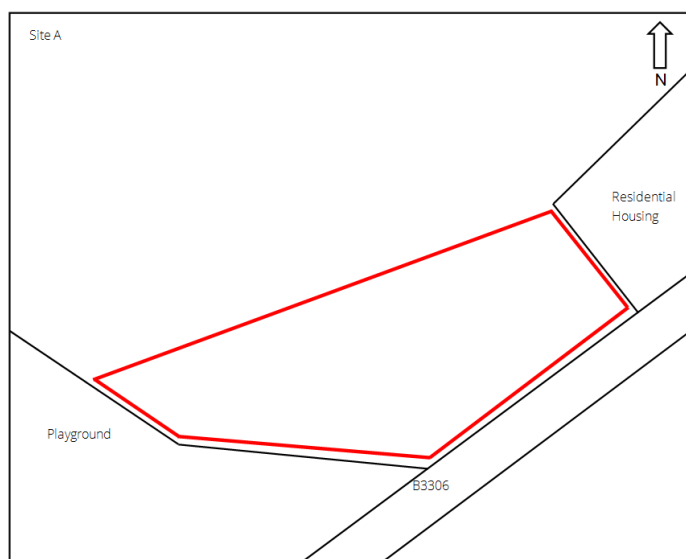


Figure 2.3: Current Site Layout for the second site option (Site A)

2.2 Surrounding area

- 2.2.1 Site A is bound to the north by fields with residential property and Geevor tin mine beyond. To the east by residential and commercial property with site B beyond, to the west by a playground with residential property and Geevor tin mine beyond. To the south the site is bound by the B3306 with residential property beyond.
- 2.2.2 Site B is bound to the north by fields with residential property beyond. To the west by residential property and site A beyond. To the south by the B3306 with residential property beyond. To the east the site is bound by the Pendeen Community Centre with residential and commercial property beyond.

2.3 Proposed Development

- 2.3.1 The proposed development is for a community cemetery for burials and memorial with visitor parking and associated landscaping. Pre-application reference: PA17/02828/PREAPP.

3 SITE INVESTIGATION

3.1 Site Works

3.1.1 A Preliminary Viability Investigation was conducted on Tuesday 29th May 2018. The investigation was overseen by a geotechnical engineer from Wheal Jane Consultancy. Exploratory hole location plans are presented as Figures 3.1A and 3.1B for sites A and B respectively.

3.1.2 The following table summaries the intrusive investigation techniques employed during the site investigation:

Site A

Exploratory Hole Type	Exploratory Hole ID	Hole Depths (mBGL)	Comments
Trial Pit	TP16 – TP20	0.52 – 1.67	Excavated for site coverage

Site B

Exploratory Hole Type	Exploratory Hole ID	Hole Depths (mBGL)	Comments
Trial Pit	TP1 – TP15	1.46 – 2.33	Excavated for site coverage

3.1.3 Trial pit logs for both sites TP1-TP20 are shown in Appendix A.

3.1.4 Photographs of the Preliminary Viability Investigation can be seen in Appendix B.

4 GROUND CONDITIONS

4.1 General

- 4.1.1 The BGS 1:50,000-scale bedrock geological map [Sheet 351] of Land's End shows the site to be underlain by the Land's End Intrusion comprising of Granite.
- 4.1.2 Trial pit logs depicting the strata beneath the site are shown in Appendix A. The following table represents a summary of the strata encountered beneath the site:

Strata	Depth Encountered (mBGL)		Typical Thickness (m)	Brief Description & Comments
	From	To		
Topsoil	0.00	0.29 – 0.65	0.50	Dark brown slightly clayey, sandy TOPSOIL.
Made Ground	0.00 – 0.49	0.39 – 0.73	0.50	Dark brown slightly clayey, sandy TOPSOIL with rare plastic, timber and metal. Or Grey GRAVEL of Granite (fill).
Weathered Land's End Intrusion	0.29 – 0.65	1.24 – 2.23	1.70	Light orangish brown sandy GRAVEL of Granite. Or Light orangish brown sandy GRAVEL of Granite. Rare cobbles and boulders of Granite.

4.2 Strata Encountered

Topsoil

- 4.2.1 Material described as Topsoil was encountered across the site to depths of up to 0.65m below existing ground level.

Made Ground

- 4.2.2 Material described as Made Ground was encountered in a few locations over the two sites. In site A the material encountered was 'Grey GRAVEL of Granite (fill)', which was covering the clay sewer pipe that runs across the site.
- 4.2.3 At site B, the Made Ground encountered was 'Dark brown slightly clayey, sandy TOPSOIL with rare plastic, timber and metal'. This was found closest to the Pendeen Community Centre in the trial pits excavated by the public footpath.

Weathered Land's End Intrusion

- 4.2.4 At site A, material described as The Weathered Land's End Intrusion was encountered across the site to depths of up to 1.67m. The unit was thickest in the north west of the site.
- 4.2.5 At site B, The Weathered Land's End Intrusion was encountered across the site to depths of up to 2.23m. The unit was thickest in the north east and around the eastern and southern boundaries of the site. This is shown in Figure 4.1 "Bedrock Depth Map."
- 4.2.6 In general, the unit may be described as 'Light orangish brown sandy GRAVEL of Granite' or 'Light orangish brown sandy GRAVEL of Granite. Rare cobbles and boulders of Granite'.
- 4.2.7 Based on on-site observations, it is likely that the cobbles and boulders encountered are fractured bedrock of The Land's End Intrusion.

4.3 Groundwater

- 4.3.1 No groundwater was encountered during the site investigation.

4.4 Contamination Indications

- 4.4.1 No olfactory evidence of contamination was encountered during the site investigation.

5 CONCLUSIONS

- 5.1.1 No groundwater was encountered during the investigation.
- 5.1.2 Bedrock was encountered across Site A at depths of between 1.24m and 1.67m below existing ground level.
- 5.1.3 Bedrock was encountered across Site B at depths of between 1.46m and 2.23m below existing ground level.

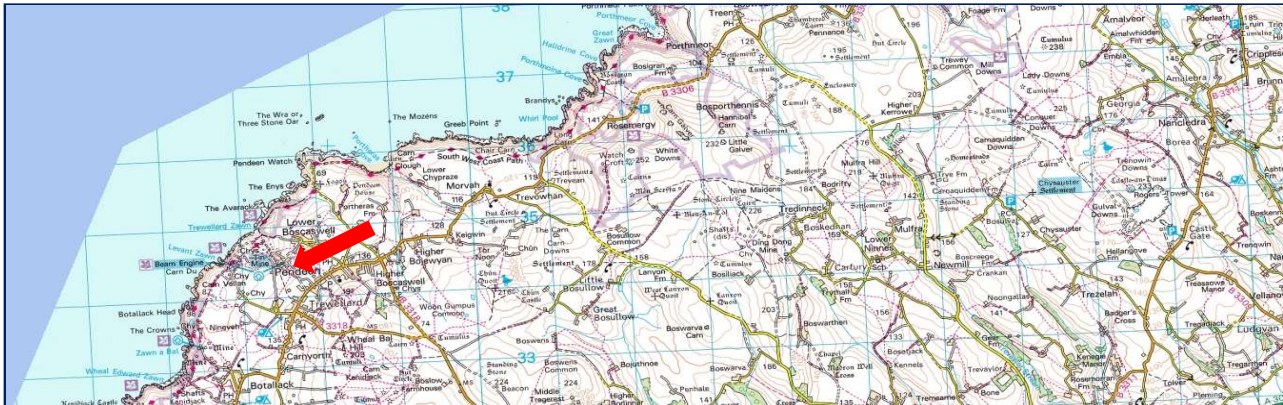
6 RECOMMENDATIONS

- 6.1.1 Since the Environment Agency guidelines are somewhat ambiguous, it is recommended that this preliminary investigation report be forwarded to the aforementioned, prior to further intrusive works commencing.
- 6.1.2 It may be feasible to conduct a localised cut-and-fill operation across the site, reducing the level of the proposed car parking areas to raise the level elsewhere, thus increasing the depth to bedrock. Alternatively, topsoil/subsoil could be sourced from elsewhere, i.e. site A.

7 NOTES

- *This report is concerned solely with the property, as defined by this report, or parts thereof examined.*
- *The report should not be used in connection with adjacent properties.*
- *In respect of site works, Wheal Jane Consultancy cannot accept any liabilities for any additional mine workings found outside the limits of any areas examined.*
- *The information supplied by third parties which has been used in compiling this Phase 2 ground investigation report, is derived from a number of statutory and non-statutory sources. While every effort is made by the supplier to ensure accuracy, the supplier cannot guarantee the accuracy or completeness of such information or data, nor to identify all the factors that may be relevant.*
- *The conclusions and recommendations relate to the type and extent of development outlined in this report for this specific property only and should not be taken as suitable for any other form or extent of development on this property without further consultation with Wheal Jane Consultancy.*
- *This report is confidential to the client, the client's legal and professional advisors, and may not be reproduced or distributed without our permission other than to directly facilitate the sale or development of the property concerned.*
- *We have no liability toward any person not party to commissioning this report.*
- *Unless otherwise expressly stated, nothing in this report shall create or confer any rights or other benefits pursuant to the Contracts (Rights of Third Parties) Act 1999 in favour of any person other than the person commissioning this report.*
- *This report is not an asbestos inspection that may fall within the control of Control of Asbestos Regulations 2006*

FIGURES



Pendeen Community Cemetery

19416

Preliminary Viability Investigation



Fig 2.1

Site Location Plan

Pendeen Community Cemetery Project Committee

31/05/2018



Pendeen Community Cemetery

19416

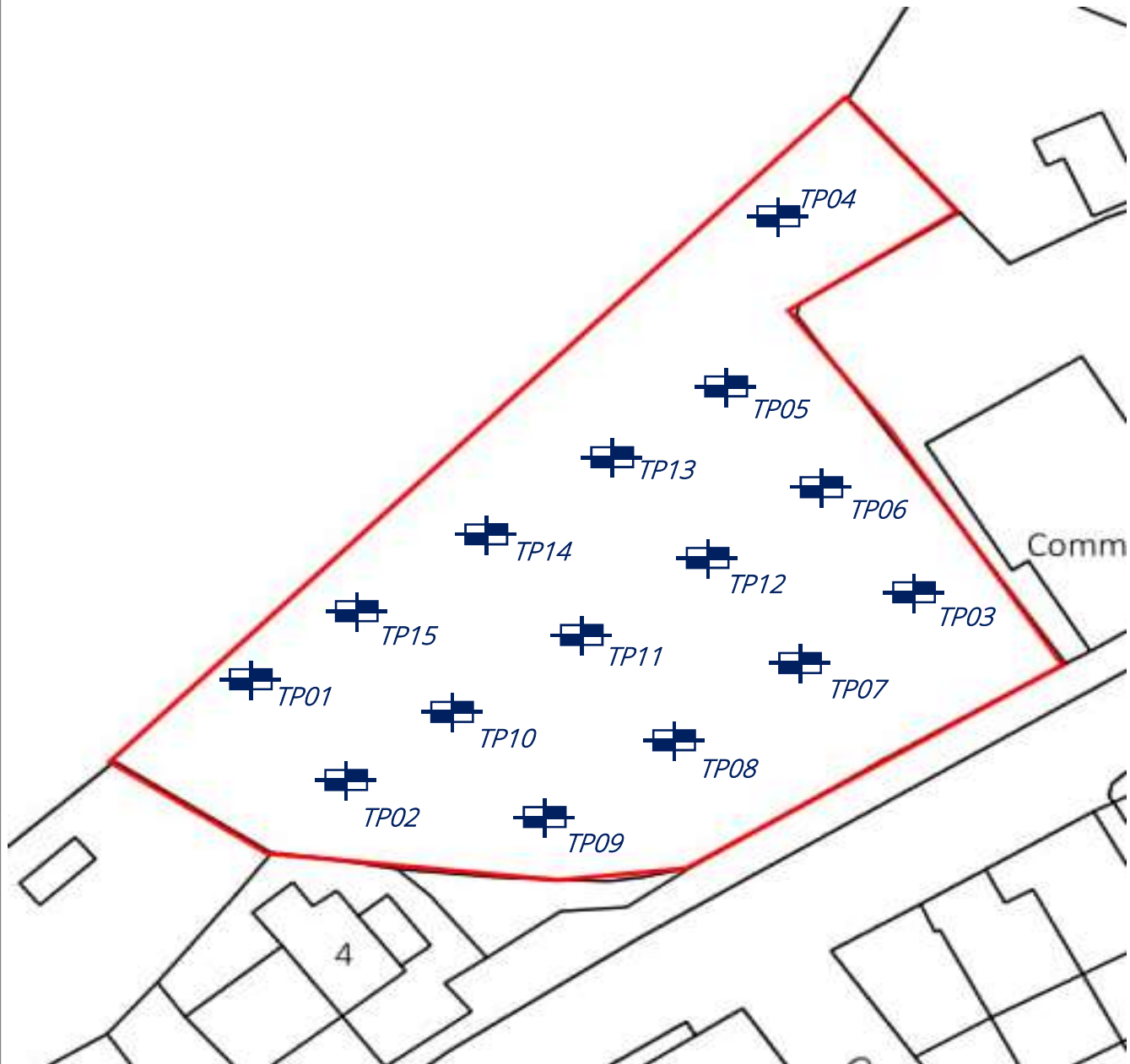
Preliminary Viability Investigation

Exploratory Hole Location Plan Site A

Fig 3.1A

Pendeen Community Cemetery Project Committee

31/05/2018



Pendeen Community Cemetery

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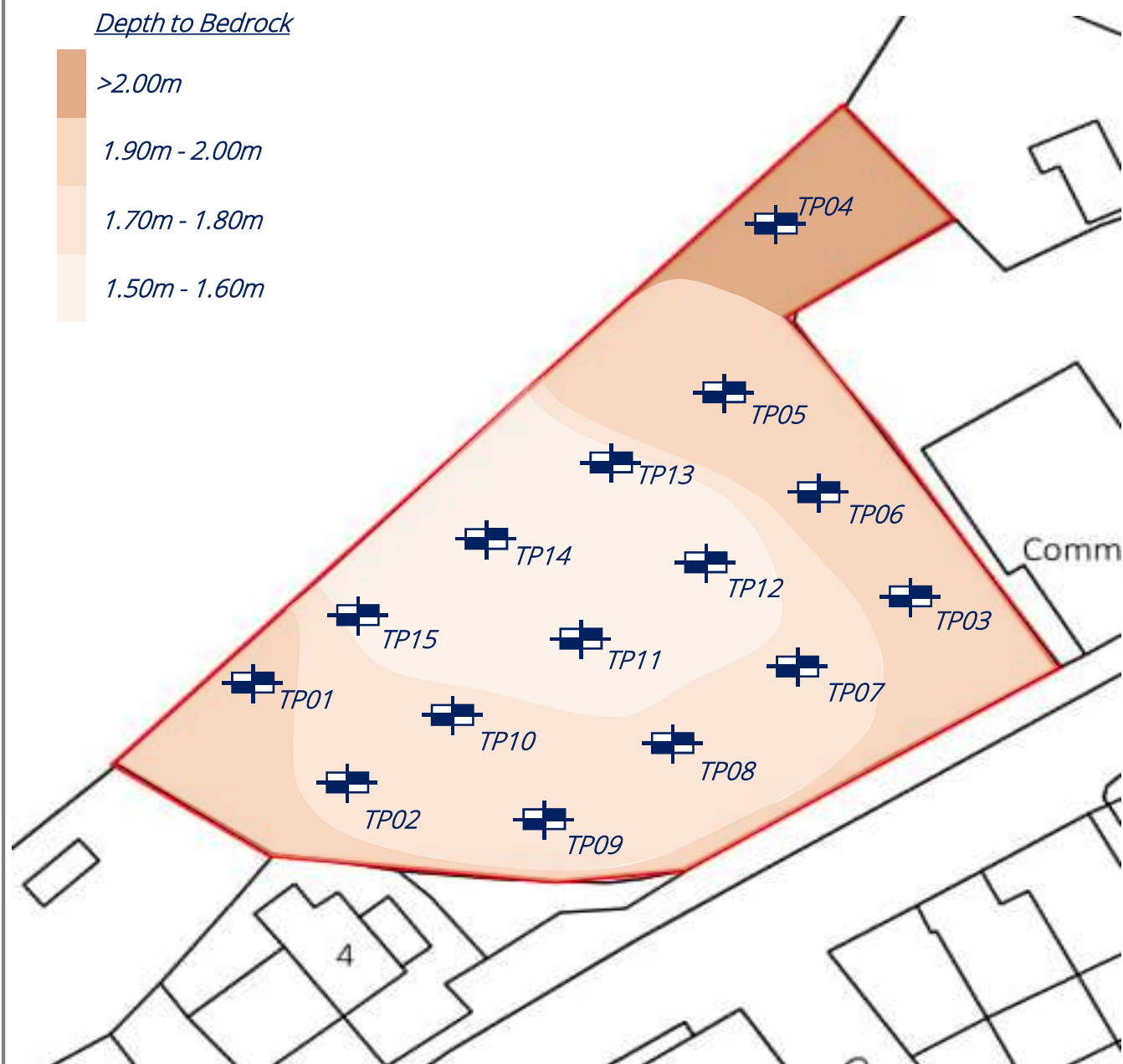
Preliminary Viability Investigation

Exploratory Hole Location Plan Site B

Fig 3.1B

Pendeen Community Cemetery Project Committee

31/05/2018



Pendeen Community Cemetery

19416

Preliminary Viability Investigation

Fig 4.1

Bedrock Depth Map


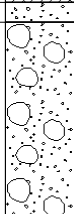
Pendeen Community Cemetery Project Committee

31/05/2018

Appendix A

Trial Pit Logs

Wheal Jane Consultancy Environment & mining services					Site Pendeen Community Cemetry		Trial Pit Number TP1		
Excavation Method Machine excavated trial pits.		Dimensions Width:0.72m Length:3.67m		Ground Level (mOD) 129.00		Client Pendeen Community Cemetery Project Committee		Job Number 19416	
		Location SW 38090 34327		Dates 29/05/2018		Project Contractor JM Plant Hire		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				128.56 128.36 <					

Wheal Jane Consultancy Environment & mining services						Site Pendeen Community Cemetry		Trial Pit Number TP2	
Excavation Method Machine excavated trial pit.		Dimensions Width:0.73m Length:3.72m		Ground Level (mOD) 129.00		Client Pendeen Community Cemetery Project Committee		Job Number 19416	
		Location SW 38104 34320		Dates 29/05/2018		Project Contractor JM Plant Hire		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				128.71	(0.29)	Grass over dark brown slightly clayey, sandy TOPSOIL. Sand is fine to coarse.			
				128.58	(0.42)	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse.			
					(1.32)	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse. Frequent boulders of granite up to 700mm.			
				127.26	1.74	Complete at 1.74m			


Remarks

No groundwater encountered.

Scale (approx)

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Figure No.

19416.TP2

Wheal Jane Consultancy Environment & mining services					Site Pendeen Community Cemetry		Trial Pit Number TP3			
Excavation Method Machine excavated trial pit.		Dimensions Width: 0.83m Length: 3.79m		Ground Level (mOD) 130.00		Client Pendeen Community Cemetery Project Committee		Job Number 19416		
		Location SW 38148 34333		Dates 29/05/2018		Project Contractor JM Plant Hire		Sheet 1/1		
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water		
				129.61	(0.39)	MADE GROUND: Grass over dark brown slightly clayey, sandy TOPSOIL. Sand is fine to coarse. Rare plastic and timber.				
				129.33	(0.28) 0.67	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse.				
					(1.37)	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse. Frequent boulders of granite up to 700mm.				
				127.96	2.04	Complete at 2.04m				
					Remarks No groundwater encountered.					
					Scale (approx) 1:50		Logged By BH		Figure No. 19416.TP3	

<div>Wheal Jane Consultancy</div> <div>Environment & mining services</div>						Site Pendeen Community Cemetry		Trial Pit Number TP4	
Excavation Method Machine excavated trial pit.		Dimensions Width: 0.91m Length: 2.38m		Ground Level (mOD) 130.00		Client Pendeen Community Cemetery Project Committee		Job Number 19416	
		Location SW 38136 34366		Dates 29/05/2018		Project Contractor JM Plant Hire		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
				129.27	(0.73)	MADE GROUND: Grass over dark brown slightly clayey, sandy TOPSOIL. Sand is fine to coarse. Rare plastic and brick.			
					0.73	Light orangish brown slightly clayey, sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse.			
					(1.03)				
					128.24	1.76	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse. Frequent boulders of granite up to 700mm.		
				127.77	2.23	Complete at 2.23m			



Remarks

No groundwater encountered.

Scale (approx)



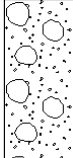
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Figure No.

19416.TP4

Wheal Jane Consultancy Environment & mining services					Site Pendeen Community Cemetry		Trial Pit Number TP5		
Excavation Method Machine excavated trial pit.		Dimensions Width: 0.87m Length: 2.38m		Ground Level (mOD) 130.00		Client Pendeen Community Cemetery Project Committee		Job Number 19416	
		Location SW 38124 34357		Dates 29/05/2018		Project Contractor JM Plant Hire		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
				129.49	(0.51)	Grass over dark brown slightly clayey, sandy TOPSOIL. Sand is fine to coarse.			
					0.51	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse.			
					(0.35)				
					129.14	0.86	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse. Frequent boulders of granite up to 700mm.		
				128.04	1.96	Complete at 1.96m			


Remarks

No groundwater encountered.

Scale (approx)



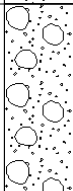
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Figure No.

19416.TP5

<div>Wheal Jane Consultancy</div> <div>Environment & mining services</div>						Site Pendeen Community Cemetry		Trial Pit Number TP6	
Excavation Method Machine excavated trial pit.		Dimensions Width: 0.72m Length: 3.31m		Ground Level (mOD) 129.00		Client Pendeen Community Cemetery Project Committee		Job Number 19416	
		Location SW 38134 34348		Dates 29/05/2018		Project Contractor JM Plant Hire		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
				128.57 128.33	(0.43)	Grass over dark brown slightly clayey, sandy TOPSOIL. Sand is fine to coarse.			
					0.43 (0.24) 0.67	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse.			
					(1.32)	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse. Frequent boulders of granite up to 750mm.			
				127.01	1.99	Complete at 1.99m			


Remarks

No groundwater encountered.

Scale (approx)




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Figure No.

19416.TP6

<div>Wheal Jane Consultancy</div> <div>Environment & mining services</div>						Site Pendeen Community Cemetry		Trial Pit Number TP7	
Excavation Method Machine excavated trial pit.		Dimensions Width: 0.72m Length: 3.29m		Ground Level (mOD) 129.00		Client Pendeen Community Cemetery Project Committee		Job Number 19416	
		Location SW 38139 34330		Dates 29/05/2018		Project Contractor JM Plant Hire		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
				128.48	(0.52) 0.52	Grass over dark brown slightly clayey, sandy TOPSOIL. Sand is fine to coarse.			
					(1.08)	Light orangish brown slightly clayey, sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse.			
					1.60 (0.22) 1.82	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse. Frequent boulders of granite up to 700mm.			
					Complete at 1.82m				


Remarks

No groundwater encountered.

Scale (approx)



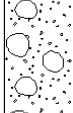
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Figure No.

19416.TP7

<div>Wheal Jane Consultancy</div> <div>Environment & mining services</div>						Site Pendeen Community Cemetry		Trial Pit Number TP8	
Excavation Method Machine excavated trial pit.		Dimensions Width: 0.81m Legth: 3.02m		Ground Level (mOD) 129.00		Client Pendeen Community Cemetery Project Committee		Job Number 19416	
		Location SW 38130 34326		Dates 29/05/2018		Project Contractor JM Plant Hire		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
						MADE GROUND: Grass over dark brown slightly clayey, sandy TOPSOIL. Sand is fine to coarse. Rare plastic.			
				128.35 128.29	0.65 0.71	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse.			
					(1.07)	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse. Frequent boulders of granite up to 750mm.			
				127.22	1.78	Complete at 1.78m			


Remarks

No groundwater encountered.

Scale (approx)



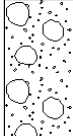
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Figure No.

19416.TP8

<div>Wheal Jane Consultancy</div> <div>Environment & mining services</div>						Site Pendeen Community Cemetry		Trial Pit Number TP9	
Excavation Method Machine excavated trial pit.		Dimensions Width: 0.78m Length: 3.19m		Ground Level (mOD) 129.00		Client Pendeen Community Cemetery Project Committee		Job Number 19416	
		Location SW 38119 34322		Dates 29/05/2018		Project Contractor JM Plant Hire		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
				128.51	(0.49)	Grass over dark brown slightly clayey, sandy TOPSOIL. Sand is fine to coarse.			
					0.49	Light orangish brown slightly clayey, sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse.			
					(0.37)				
					128.14	0.86	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse. Frequent boulders of granite up to 700mm.		
				127.22	1.78	Complete at 1.78m			


Remarks

No groundwater encountered.

Scale (approx)

1:50

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Figure No.

19416.TP9

<div>Wheal Jane Consultancy</div> <div>Environment & mining services</div>						Site Pendeen Community Cemetry		Trial Pit Number TP10	
Excavation Method Machine excavted trial pit.		Dimensions Width: 0.92m Length: 3.33m		Ground Level (mOD) 129.00		Client Pendeen Community Cemetery Project Committee		Job Number 19416	
		Location SW 38113 34329		Dates 29/05/2018		Project Contractor JM Plant Hire		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				128.80	(0.20) 0.20	Grass over dark brown slightly clayey, sandy TOPSOIL. Sand is fine to coarse. From 0.58m frequent boulders of granite up to 600mm.			
					(1.62)	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse. Frequent boulders of granite up to 750mm.			
								127.18	1.82


Remarks

No groundwater encountered.

Scale (approx)


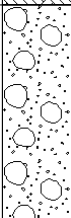
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Figure No.

19416.TP10

<div>Wheal Jane Consultancy</div> <div>Environment & mining services</div>						Site Pendeen Community Cemetry		Trial Pit Number TP11	
Excavation Method Machine excavated trial pit.		Dimensions Width: 0.69m Length: 3.54m		Ground Level (mOD) 129.00		Client Pendeen Community Cemetery Project Committee		Job Number 19416	
		Location SW 38123 34339		Dates 29/05/2018		Project Contractor JM Plant Hire		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				128.80	(0.20) 0.20	Grass over dark brown slightly clayey, sandy, gravelly TOPSOIL. Sand is fine to coarse. From 0.48m frequent boulders of granite up to 600mm.		 	
					(1.42)	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse. Frequent boulders of granite up to 700mm.			
					127.38	1.62	Complete at 1.62m		


Remarks

No groundwater encountered.

Scale (approx)



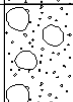
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Figure No.

19416.TP11

<div>Wheal Jane Consultancy</div> <div>Environment & mining services</div>						Site Pendeen Community Cemetry		Trial Pit Number TP12	
Excavation Method Machine excavted trial pit.		Dimensions Width: 0.69m Length: 3.80m		Ground Level (mOD) 129.00		Client Pendeen Community Cemetery Project Committee		Job Number 19416	
		Location SW 38129 34344		Dates 29/05/2018		Project Contractor JM Plant Hire		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
					(0.46)	Grass over dark brown slightly clayey, sandy, gravelly TOPSOIL. Sand is fine to coarse.			
				128.54	0.46	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse.			
				128.18	0.82	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse. Frequent boulders of granite up to 700mm.			
					(0.70)				
				127.48	1.52	Complete at 1.52m			


Remarks

No groundwater encountered.

Scale (approx)




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Figure No.

19416.TP12

<div>Wheal Jane Consultancy</div> <div>Environment & mining services</div>						Site Pendeen Community Cemetry		Trial Pit Number TP13	
Excavation Method Machine excavated trial pit.		Dimensions Width: 0.82m Length: 3.70m		Ground Level (mOD) 129.00		Client Pendeen Community Cemetery Project Committee		Job Number 19416	
		Location SW 38113 34352		Dates 29/05/2018		Project Contractor JM Plant Hire		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
						Grass over dark brown slightly clayey, sandy, gravelly TOPSOIL.			
				128.45 128.28	0.55 (0.17) 0.72	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse.			
					(0.74)	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse. Frequent boulders of granite up to 750mm.			
				127.54	1.46	Complete at 1.46m			


Remarks

No groundwater encountered.

Scale (approx)




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Figure No.

19416.TP13

<div>Wheal Jane Consultancy</div> <div>Environment & mining services</div>						Site Pendeen Community Cemetry		Trial Pit Number TP14	
Excavation Method Machine excavated trial pit.		Dimensions Width: 0.76m Length: 3.61m		Ground Level (mOD) 129.00		Client Pendeen Community Cemetery Project Committee		Job Number 19416	
		Location SW 38104 34346		Dates 29/05/2018		Project Contractor JM Plant Hire		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
				128.38 128.29	(0.62)	Grass over dark brown slightly clayey, sandy, gravelly TOPSOIL. Sand is fine to coarse.			
					0.62 0.71	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse.			
					(0.87)	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse. Frequent boulders of granite up to 700mm.			
					127.42	1.58	Complete at 1.58m		


Remarks

No groundwater encountered.

Scale (approx)




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Figure No.

19416.TP14

<div>Wheal Jane Consultancy</div> <div>Environment & mining services</div>						Site Pendeen Community Cemetry		Trial Pit Number TP15	
Excavation Method Machine excavated trial pit.		Dimensions Width: 0.82m Length: 3.48m		Ground Level (mOD) 129.00		Client Pendeen Community Cemetery Project Committee		Job Number 19416	
		Location SW 38094 34339		Dates 29/05/2018		Project Contractor JM Plant Hire		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
				128.46 128.37	(0.54)	Grass over dark brown slightly clayey, sandy, gravelly TOPSOIL. Sand is fine to coarse.			
					0.54	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse.			
					0.63				
					(0.94)	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse. Frequent boulders of granite up to 700mm.			
				127.43	1.57	Complete at 1.57m			


Remarks

No groundwater encountered.

Scale (approx)


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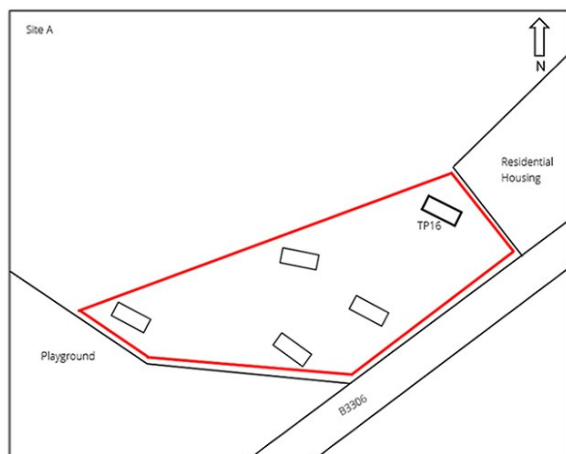
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Figure No.

19416.TP15

<div>Wheal Jane Consultancy</div> <div>Environment & mining services</div>						Site Pendeen Community Cemetry		Trial Pit Number TP16	
Excavation Method Machine excavated trial pit.		Dimensions Width: 0.72m Length: 3.72m		Ground Level (mOD) 128.00		Client Pendeen Community Cemetery Project Committee		Job Number 19416	
		Location SW 38054 34295		Dates 29/05/2018		Project Contractor JM Plant Hire		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				127.51 127.48	(0.49) 0.49 0.52	Grass over dark brown slightly clayey, sandy, gravelly TOPSOIL. Sand is fine to coarse.			
						MADE GROUND: Grey angular to subangular, fine to coarse GRAVEL of granite. Fill material covering clay pipe. Complete at 0.52m			


Remarks

No groundwater encountered.
Sewer encountered.

Scale (approx)


1:50

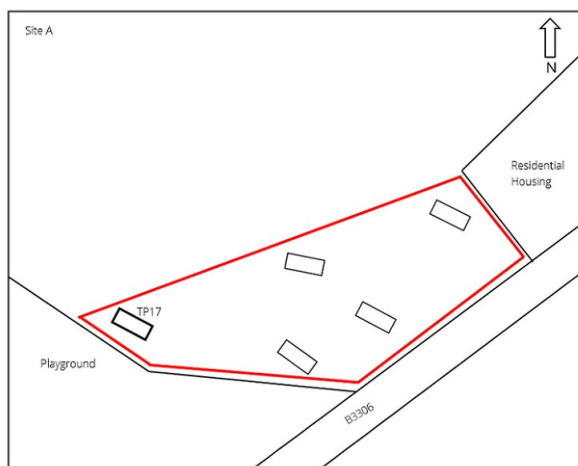
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Figure No.

19416.TP16

<div>Wheal Jane Consultancy</div> <div>Environment & mining services</div>						Site Pendeen Community Cemetry		Trial Pit Number TP17	
Excavation Method Machine excavated trial pit.		Dimensions Width: 0.71m Length: 2.96m		Ground Level (mOD) 127.00		Client Pendeen Community Cemetery Project Committee		Job Number 19416	
		Location SW 37985 34273		Dates 29/05/2018		Project Contractor JM Plant Hire		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				126.80	(0.20) 0.20	Grass over dark brown slightly clayey, sandy, gravelly TOPSOIL. Sand is fine to coarse. From 0.57m frequent boulders of granite up to 600mm.			
					(1.47)	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse. Frequent boulders of granite up to 700mm.			
				125.33	1.67	Complete at 1.67m			



Remarks

No groundwater encountered.

Scale (approx)



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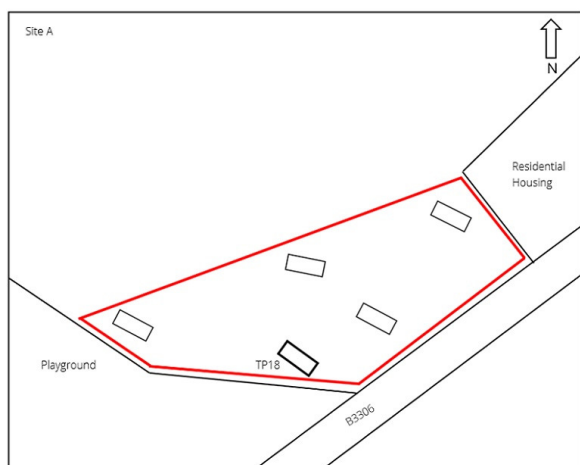
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Figure No.

19416.TP17

<div>Wheal Jane Consultancy</div> <div>Environment & mining services</div>						Site Pendeen Community Cemetry		Trial Pit Number TP18	
Excavation Method Machine excavated trial pit.		Dimensions Width: 0.76m Length: 2.78m		Ground Level (mOD) 127.00		Client Pendeen Community Cemetery Project Committee		Job Number 19416	
		Location SW 38018 34263		Dates 29/05/2018		Project Contractor JM Plant Hire		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
						Grass over dark brown slightly clayey, sandy, gravelly TOPSOIL. Sand is fine to coarse			
				126.38 126.32	0.62 0.68 (0.56)	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse.			
				125.76	1.24	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse. Frequent boulders of granite up to 700mm. Complete at 1.24m			


Remarks

No groundwater encountered.

Scale (approx)

1:50

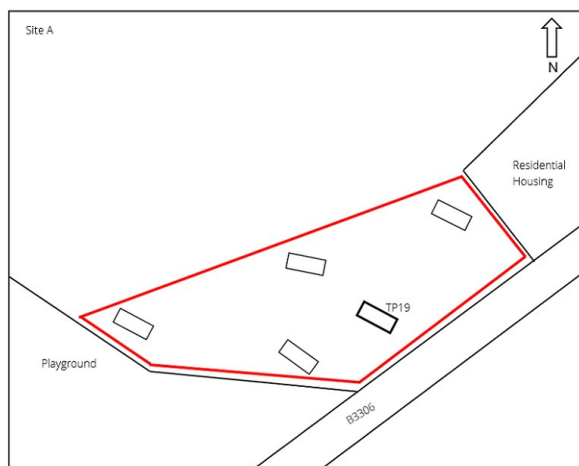
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Figure No.

19416.TP18

<div>Wheal Jane Consultancy<div>Environment & mining services</div></div>						Site Pendeen Community Cemetry		Trial Pit Number TP19	
Excavation Method Machine excavated trial pit.		Dimensions Width: 0.68m Length: 3.06m		Ground Level (mOD) 127.00		Client Pendeen Community Cemetery Project Committee		Job Number 19416	
		Location SW 38040 34272		Dates 29/05/2018		Project Contractor JM Plant Hire		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
				126.42 126.28 <					


Remarks

No groundwater encountered.

Scale (approx)


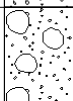
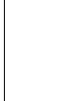
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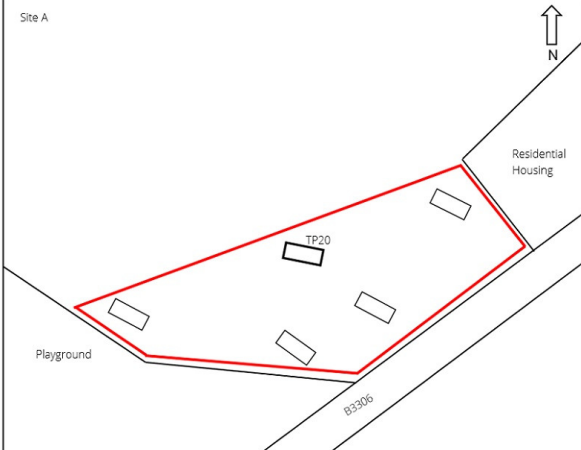
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Figure No.

19416.TP19

<div>Wheal Jane Consultancy</div> <div>Environment & mining services</div>						Site Pendeen Community Cemetry		Trial Pit Number TP20	
Excavation Method Machine excavated trial pit.		Dimensions Width: 0.69m Length: 3.35m		Ground Level (mOD) 128.00		Client Pendeen Community Cemetery Project Committee		Job Number 19416	
		Location SW 38020 34289		Dates 29/05/2018		Project Contractor JM Plant Hire		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
						Grass over dark brown slightly clayey, sandy, gravelly TOPSOIL. Sand is fine to coarse.			
				127.46 127.38	0.54 0.62	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse.			
					(0.64)	Light orangish brown sandy angular to subangular, medium to coarse GRAVEL of granite. Sand is fine to coarse. Frequent boulders of granite up to 750mm.			
				126.74	1.26	Complete at 1.26m			

			Remarks No groundwater encountered.		
Scale (approx) 1:50		Logged By BH		Figure No. 19416.TP20	

Appendix B

Trial Pit Photographs

Trial Pit:

TP01



Pendeen Community Cemetery

19416

Preliminary Viability Investigation

Trial Pit Photographs

The Pendeen Community Cemetery
Project Committee

29/05/2018

Trial Pit:

TP02



Pendeen Community Cemetery

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Preliminary Viability Investigation

Trial Pit Photographs

The Pendeen Community Cemetery
Project Committee

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Trial Pit:

TP03



Pendeen Community Cemetery

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Preliminary Viability Investigation

Trial Pit Photographs

The Pendeen Community Cemetery
Project Committee

29/05/2018

Trial Pit:

TP04



Pendeen Community Cemetery

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Preliminary Viability Investigation

Trial Pit Photographs

The Pendeen Community Cemetery
Project Committee

29/05/2018

Trial Pit:

TP05



Pendeen Community Cemetery

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Preliminary Viability Investigation

Trial Pit Photographs

The Pendeen Community Cemetery
Project Committee

29/05/2018

Trial Pit:

TP06



Pendeen Community Cemetery

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Preliminary Viability Investigation

Trial Pit Photographs

The Pendeen Community Cemetery
Project Committee

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Trial Pit:

TP07



Pendeen Community Cemetery

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Trial Pit Photographs

The Pendeen Community Cemetery
Project Committee

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Trial Pit:

TP08



Pendeen Community Cemetery

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Preliminary Viability Investigation

Trial Pit Photographs

The Pendeen Community Cemetery
Project Committee

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Trial Pit:

TP09



Pendeen Community Cemetery

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Trial Pit Photographs

The Pendeen Community Cemetery
Project Committee

29/05/2018

Trial Pit:

TP10



Pendeen Community Cemetery

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Preliminary Viability Investigation

Trial Pit Photographs

The Pendeen Community Cemetery
Project Committee

29/05/2018

Trial Pit:

TP11



Pendeen Community Cemetery

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Preliminary Viability Investigation

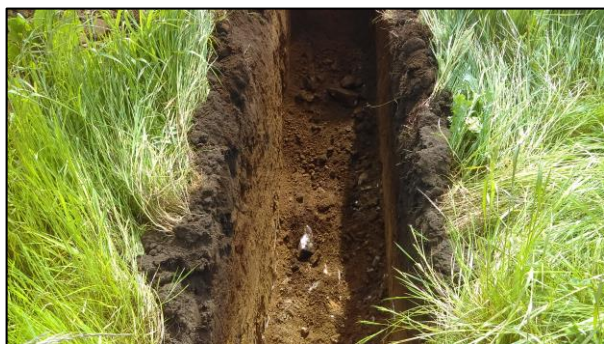
Trial Pit Photographs

The Pendeen Community Cemetery
Project Committee

29/05/2018

Trial Pit:

TP12



Pendeen Community Cemetery

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Preliminary Viability Investigation

Trial Pit Photographs

The Pendeen Community Cemetery
Project Committee

29/05/2018

Trial Pit:

TP13



Pendeen Community Cemetery

19416

Preliminary Viability Investigation

Trial Pit Photographs

The Pendeen Community Cemetery
Project Committee

29/05/2018

Trial Pit:

TP14



Pendeen Community Cemetery

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Preliminary Viability Investigation

Trial Pit Photographs

The Pendeen Community Cemetery
Project Committee

29/05/2018

Trial Pit:

TP15



Pendeen Community Cemetery

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Preliminary Viability Investigation

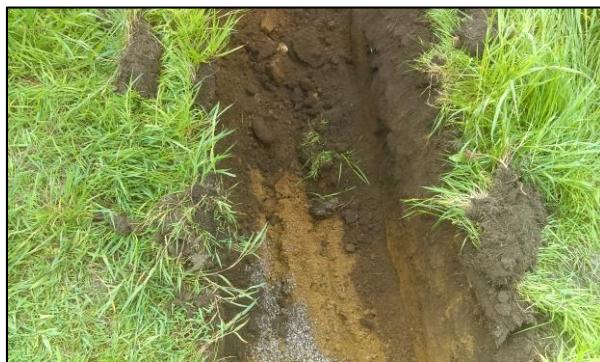
Trial Pit Photographs

The Pendeen Community Cemetery
Project Committee

29/05/2018

Trial Pit:

TP16



Pendeen Community Cemetery

19416

Preliminary Viability Investigation

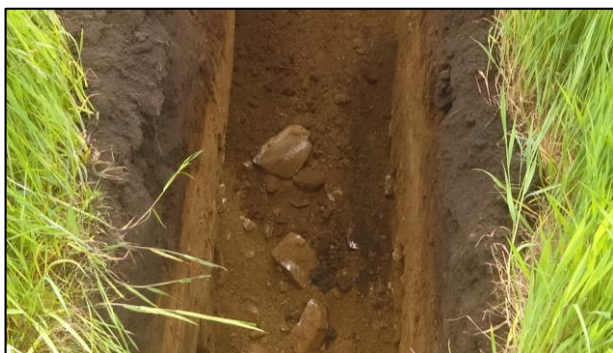
Trial Pit Photographs

The Pendeen Community Cemetery
Project Committee

29/05/2018

Trial Pit:

TP17



Pendeen Community Cemetery

19416

Preliminary Viability Investigation

Trial Pit Photographs

The Pendeen Community Cemetery
Project Committee

29/05/2018

Trial Pit:

TP18



Pendeen Community Cemetery

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Preliminary Viability Investigation

Trial Pit Photographs

The Pendeen Community Cemetery
Project Committee

29/05/2018

Trial Pit:

TP19



Pendeen Community Cemetery

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Preliminary Viability Investigation

Trial Pit Photographs

The Pendeen Community Cemetery
Project Committee

29/05/2018

Trial Pit:

TP20



Pendeen Community Cemetery

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Preliminary Viability Investigation

Trial Pit Photographs

The Pendeen Community Cemetery
Project Committee

29/05/2018



Wheal Jane Consultancy

Wheal Jane Group

- Mine Search Reports-
- Mine Site Investigations-
- Mundic Analysis-
- Contaminated Land Assessments-
- Laboratory Testing of Soils and Water-

