

APPENDIX C

BGS RADON GEOREPORT

LAURA PULLIN
INTEGRAL GEOTECNIQUE
INTEGRAL HOUSE
7 BEDDAU WAY
CAERPHILLY
CF83 2AX
UNITED KINGDOM

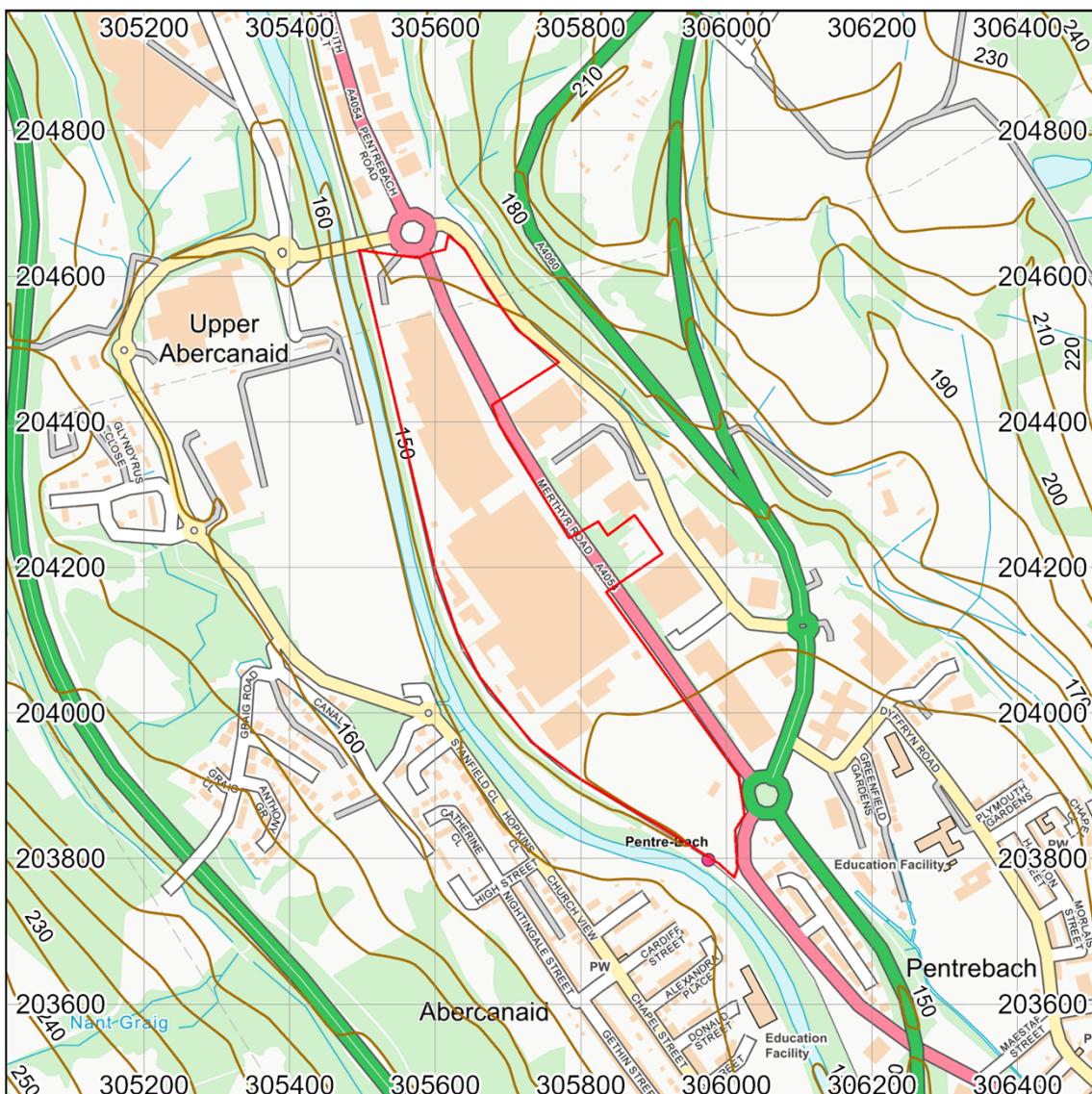
Radon Report

Advisory report on the requirement for radon protective measures in new buildings, conversions and extensions to existing buildings. The report also indicates whether a site is located within a radon Affected Area

Report Id: **BGS_341819/59078**

Client reference: 14275 Former Hoover Factory, Merthyr Tydfil

Search location



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Search location indicated in red

This report describes a site located at National Grid Reference 305760, 204215. Note that for sites of irregular shape, this point may lie outside the site boundary. Where the client has submitted a site plan the assessment will be based on the area given.

Radon Report: UK

When extensions are made to existing buildings in high radon areas, or new buildings are constructed in these areas, the Building Regulations for England, Wales, Scotland and Northern Ireland require that protective measures are taken against radon entering the building.

This report provides information on whether radon protective measures are required. Depending on the probability of buildings having high radon levels, the Regulations may require either:

1. No protective measures
2. Basic protective measures
3. Full protective measures

This is an advisory report on the requirement for radon protective measures in new buildings, conversions and extensions. The report also indicates whether a site is located within a radon Affected Area

Requirement for radon protective measures

The determination below follows advice in *BR211 Radon: Guidance on protective measures for new buildings (2023 edition)*, which also provides guidance on what to do if the result indicates that protective measures are required.

Is the property in an area where radon protective measures are required for new buildings or extensions to existing ones as described in publication BR211 (2023 edition) Radon: Guidance on protective measures for new buildings?

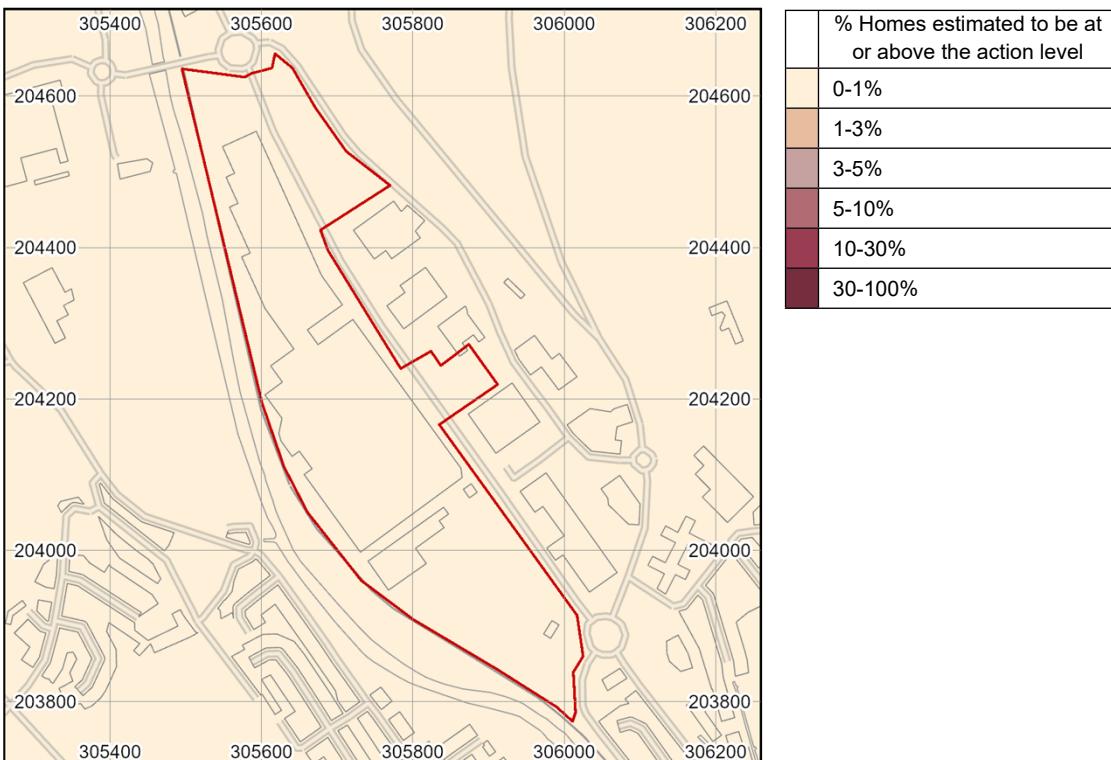
NO RADON PROTECTIVE MEASURES ARE REQUIRED FOR THE REPORT AREA.

More details of the protective measures required are available in *BR211 Radon: Guidance on protective measures for new buildings (2023 Edition)*.

Whether or not the radon level in a building is above or below the radon Action Level can only be established by having the building tested. The UKHSA provides a radon testing service which can be accessed at www.ukradon.org or by telephone (01235 822622).

If you require further information or guidance, you should contact your local authority building control officer or approved inspector.

Radon Affected Area



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Scale: 1:10 000 (1cm = 100 m)

Search area indicated in red

Is the property in a radon Affected Area as defined by the UK Health Security Agency (UKHSA) and if so what percentage of homes are estimated to be at or above the Action Level? NO

Additional Information

THE PROPERTY IS IN AN AREA WHERE LESS THAN 1% OF HOMES ARE ESTIMATED TO BE AT OR ABOVE THE ACTION LEVEL. THE PROPERTY IS NOT IN A RADON AFFECTED AREA.

The UKHSA recommends a radon 'Action Level' of 200 Becquerels per cubic metre of air ($Bq m^{-3}$) for the annual average of the radon gas concentration in a home.

Where 1% or more of homes are estimated to be at or above the Action Level the area should be regarded as a radon Affected Area.

This report informs you whether the property is in a radon Affected Area and the percentage of homes that are estimated to be at or above the radon Action Level at this location. Being in an Affected Area does not necessarily mean there is a high radon level within the property; the only way to determine the radon level is to carry out a radon measurement.

The UKHSA advises that radon gas should be measured in all properties within radon Affected Areas and that homes with radon levels at or above the Action Level (200 Bq m⁻³) should be remediated. Householders with levels between the Target Level (100 Bq m⁻³) and Action Level should seriously consider reducing their radon level, especially if they are at greater risk, such as if they are current or ex smokers. Whether or not a home is in fact above or below the Action Level or Target Level can only be established by having the building tested. The UKHSA provides a validated radon testing service which can be accessed at www.ukradon.org.

The information in this report provides an answer to one of the standard legal enquiries on house purchase in England and Wales, known as Law Society CON29 Enquiries of the Local Authority (2016); 3.14 Radon Gas: Do records indicate that the property is in a “Radon Affected Area” as identified by the UKHSA. The data can also be used to advise house buyers and sellers in Scotland and Northern Ireland.

If you are buying a new build property in a Radon Affected Area, you should ask the builder whether radon protective measures were incorporated in the construction of the property.

If you are buying a currently occupied property in a radon Affected Area, you should ask the present owner whether radon levels have been measured in the property. If they have, ask whether the results were at or above the radon Action Level and if so, whether remedial measures were installed, radon levels were re-tested, and if the results of re-testing confirmed the effectiveness of the measures.

Further information on radon is available from the UKHSA at www.ukradon.org.

What is radon?

Radon is a naturally occurring radioactive gas, which is produced by the radioactive decay of radium which, in turn, is derived from the radioactive decay of uranium. Uranium is found in small quantities in all soils and rocks, although the amount varies from place to place. Radon released from rocks and soils is quickly diluted in the atmosphere. Concentrations in the open air are normally very low and do not present a hazard. Radon that enters enclosed spaces such as some buildings (particularly basements), caves, mines, and tunnels may reach high concentrations in some circumstances. The construction method and degree of ventilation will influence radon levels in individual buildings. A person's exposure to radon will also vary according to how particular buildings and spaces are used.

Inhalation of the radioactive decay products of radon gas increases the chance of developing lung cancer. If individuals are exposed to high concentrations for significant periods of time, there may be cause for concern. In order to limit the risk to individuals, the Government has adopted an Action Level for radon in homes of 200 becquerels per cubic metre (Bq m⁻³). The Government advises householders that, where the radon level is at or above the Action Level, measures should be taken to reduce the concentration.

Radon in workplaces

The Ionising Radiation Regulations 2017 require employers to take action when radon is present above a defined level in the workplace. Advice may be obtained from your local Health and Safety Executive Area Office or the Environmental Health Department of your local authority. The BRE publishes a guide (BR293): **Radon in the workplace**. BRE publications may be obtained from the BRE Bookshop, Tel: 01923 664262, email: bookshop@bre.co.uk website: www.brebookshop.com

Contact Details

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- Geological observations and interpretations are made according to the prevailing understanding of the subject at the time. The quality of such observations and interpretations may be affected by the availability of new data, by subsequent advances in knowledge, improved methods of interpretation, and better access to sampling locations.
- Raw data may have been transcribed from analogue to digital format, or may have been acquired by means of automated measuring techniques. Although such processes are subjected to quality control to ensure reliability where possible, some raw data may have been processed without human intervention and may in consequence contain undetected errors.
- Detail, which is clearly defined and accurately depicted on large-scale maps, may be lost when small-scale maps are derived from them.
- Although samples and records are maintained with all reasonable care, there may be some deterioration in the long term.
- The most appropriate techniques for copying original records are used, but there may be some loss of detail and dimensional distortion when such records are copied.
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- Data, information and related records, which have been donated to BGS, have been produced for a specific purpose, and that may affect the type and completeness of the data recorded and any interpretation. The nature and purpose of data collection, and the age of the resultant material may render it unsuitable for certain applications/uses. You must verify the suitability of the material for your intended usage.
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- The topography shown on any map extracts is based on the latest OS mapping and is not necessarily the same as that used in the original compilation of the BGS geological map, and to which the geological linework available at that time was fitted.
- Note that for some sites, the latest available records may be historical in nature, and while every effort is made to place the analysis in a modern geological context, it is possible in some cases that the detailed geology at a site may differ from that described.

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**Report issued by
BGS Enquiry Service**

APPENDIX D

CONSULTANTS COAL MINING REPORT FROM THE MINING REMEDIATION AUTHORITY



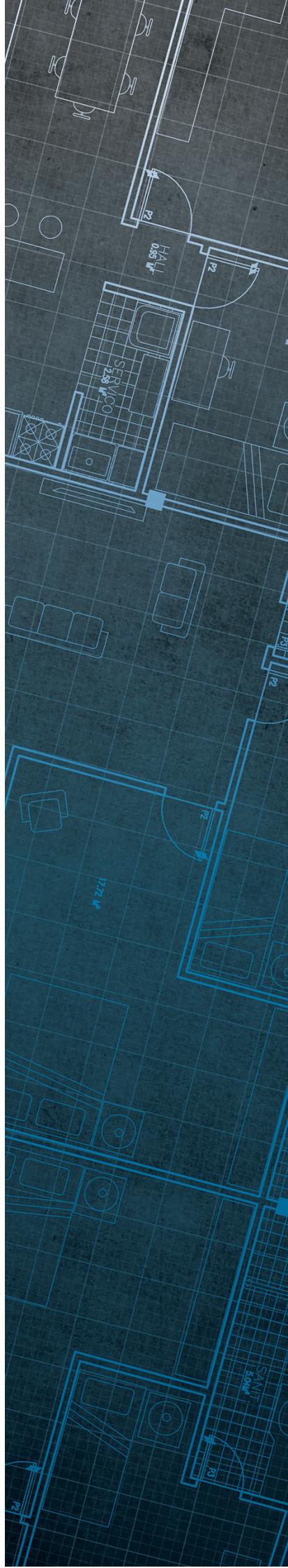
The Coal
Authority

Consultants Coal Mining Report

Hoover Candy Site
Pentrebach
Merthyr Tydfil
Merthyr Tydfil
CF48 4TQ

Date of enquiry: 10 October 2024
Date enquiry received: 10 October 2024
Issue date: 10 October 2024

Our reference: 51003455639001
Your reference: 14275/LP



Consultants

Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

INTEGRAL GEOTECHNIQUE (WALES) LTD.

Enquiry address

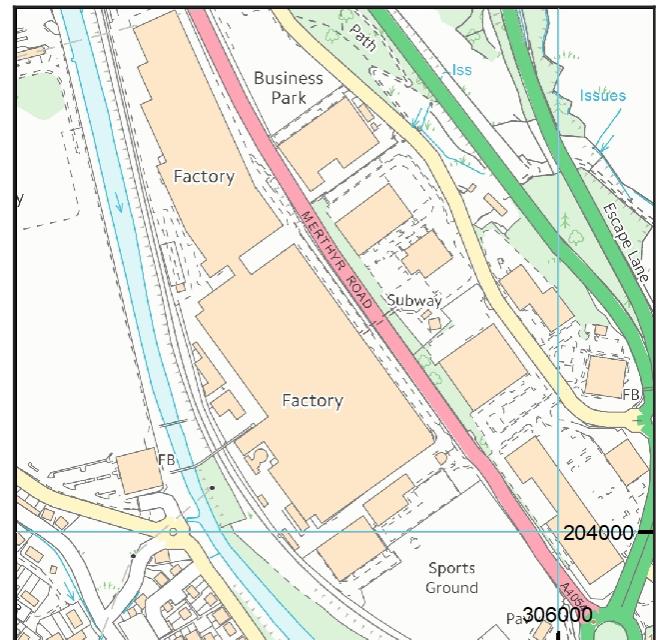
Hoover Candy Site
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How to contact us

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Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	UPPER 6FT RIDER	Coal	4WJU	16	Beneath Property	6.2	South	170	1875
unnamed	UPPER 6FT RIDER	Coal	4WJS	24	Beneath Property	4.5	South	170	1875
unnamed	LOWER 7FT BOTTOM LEAF	Coal	4E29	35	North-East	7.7	South-East	114	1907
unnamed	TWO FOOT NINE	Coal	4WLA	37	Beneath Property	6.6	South-East	66	1940
unnamed	FOUR FOOT	Coal	4WIG	37	Beneath Property	5.5	South	210	1854
unnamed	TWO FOOT NINE	Coal	4WJ0	48	Beneath Property	5.2	South	130	1862
unnamed	LOWER NINE FOOT	Coal	49AZ	49	Beneath Property	8.9	South	259	1885
unnamed	UPPER 6FT (T.L.)	Coal	4WIL	52	South-West	3.9	South-East	120	1891
unnamed	FOUR FOOT	Coal	4WL6	54	Beneath Property	6.6	South	210	1891
unnamed	FOUR FOOT	Coal	4WL5	61	South	8.4	South-East	210	1891
unnamed	UPPER 6FT RIDER	Coal	4WMI	64	East	6.9	South-East	170	1900
unnamed	LOWER 7FT BOTTOM LEAF	Coal	4BDV	65	North-East	6.5	South-East	117	1902
unnamed	LOWER 7FT BOTTOM LEAF	Coal	4E2A	70	Beneath Property	8.6	South-East	117	1889
unnamed	LOWER NINE FOOT	Coal	4WJD	83	Beneath Property	6.6	South-East	145	1868
unnamed	LOWER NINE FOOT	Coal	4WJK	85	Beneath Property	3.3	South-East	145	1932
unnamed	LOWER NINE FOOT	Coal	4BDK	89	North-East	0.0	East	183	1909
unnamed	LOWER NINE FOOT	Coal	4WJN	91	Beneath Property	7.1	South-East	145	1932
unnamed	LOWER NINE FOOT	Coal	4WLG	98	North-East	6.9	South	183	1935
unnamed	LOWER 7FT BOTTOM LEAF	Coal	4WK1	117	Beneath Property	7.5	South-East	117	1899
unnamed	LOWER 7FT BOTTOM LEAF	Coal	4WK2	124	Beneath Property	5.9	South	117	1899

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	BOTTOM VEIN IRONSTONE	Ironstone	499Y	137	North-East	16.4	South	100	1855
unnamed	LOWER 7FT BOTTOM LEAF	Coal	4WLQ	147	North-East	6.1	South-East	117	1902
unnamed	GARW NO.1 IRONSTONE	Ironstone	499V	156	North	16.0	South-East	100	1855

Probable unrecorded shallow workings

Yes.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Shaft	305204-008	305591 204697		Coal	
Shaft	305204-009	305600 204677		Coal	
Adit	305204-011	305698 204719		Coal	
Shaft	305204-012	305711 204552		Coal	
Shaft	305204-013	305719 204547		Coal	
Adit	305204-014	305784 204572		Coal	
Shaft	305204-039	305754 204591		Coal	
Adit	305204-072	305719 204561		Coal	

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

SWR233	SWR3143	8695
SWR3150	PO0	SWR1878
SWR3146	SWR3187	SWR3141

Our records show we have more plans than those shown above which could affect the enquiry boundary.

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
BUTE	Coal	Yes	Within	N/A	17
LOWER 9FT AND BUTE	Coal	Yes	Within	N/A	198
LOWER NINE FOOT TOP LEAF	Coal	Yes	Within	N/A	206
LOWER SIX FEET	Coal	Yes	Within	N/A	255
UPPER 6FT RIDER	Coal	Yes	Within	N/A	231
UPPER SIX FEET	Coal	Yes	Within	N/A	266

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices

The property is not in an area where a notice to withdraw support has been given.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk**.

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

Opencast mines

Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips

Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations

Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites

Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence

Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas

Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

Mine water treatment schemes

Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining

Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing

Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders

Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices

Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices

Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land

Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

- Approximate position of the enquiry boundary shown 
- Disused mine shaft 
- Disused adit 
- Outcrop (Proven) 



How to contact us

0345 762 6848 (UK)
 +44 (0)1623 637 000 (International)
www.groundstability.com

APPENDIX E

CABLE PERCUSSION BOREHOLE LOGS

Contract : Hoover Candy Factory

Client : Merthyr Tydfil County Borough Council

Borehole No.

CP101

Dates : 4/7/22 - 6/7/22

Job Number : Q0838

Ground Level : 149.86 m A.O.D.
Level to Ordnance Datum

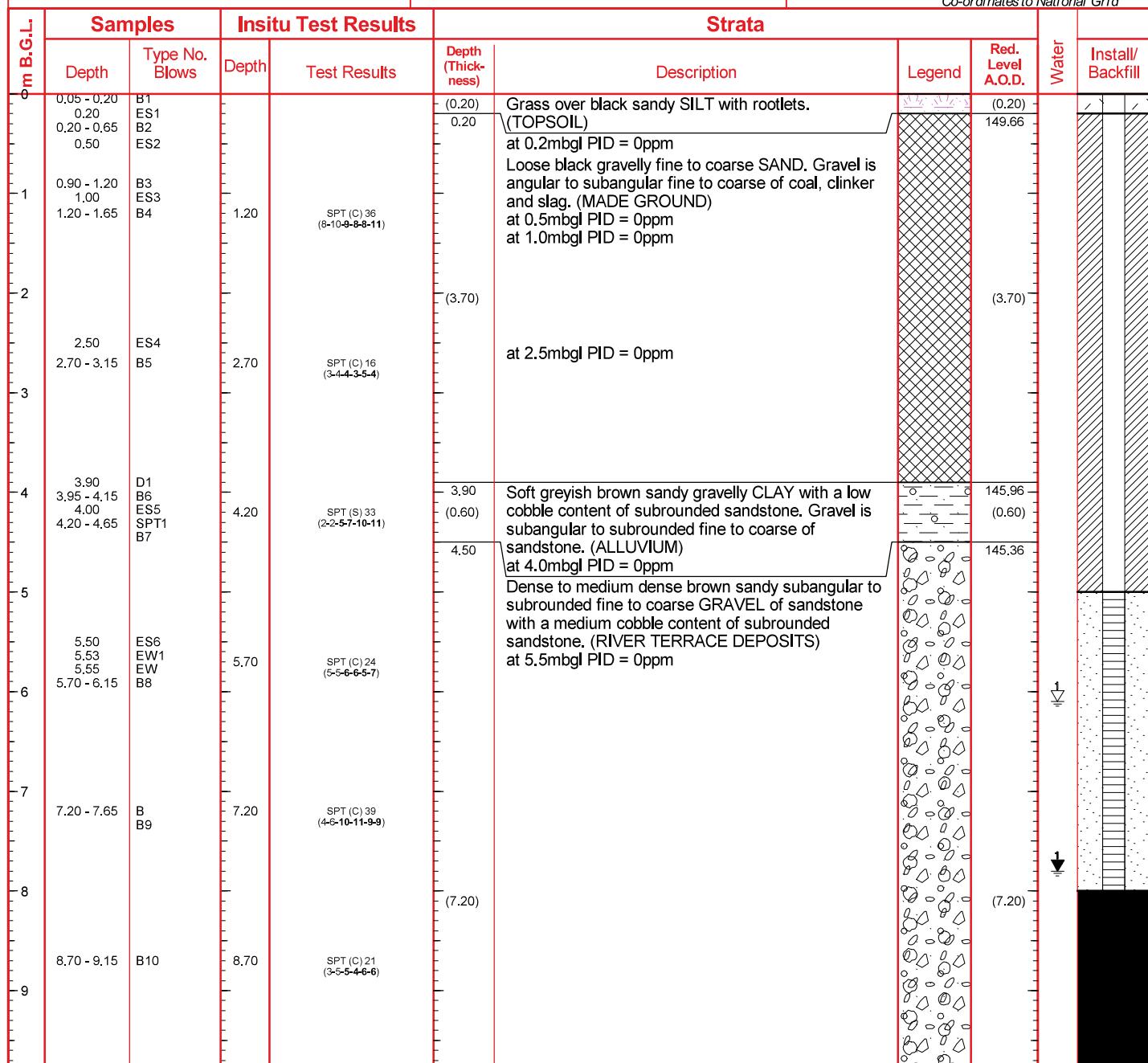
Location :

Engineer : Redstart

Coordinates: 305952.61 E

203879.04 N

Co-ordinates to National Grid



Hole Progress / Water Obs

Casing

Groundwater

Chiselling

Date / Time	H. Depth	C. Depth	Water	Depth	Cas. Dia.	Struck	Rose To	Behaviour	Sealed	From	To	Hours
04/07/2022 08:00	0.00					7.80	6.10	Moderate groundwater inflow.		4.70	4.90	0:30
04/07/2022 17:00	1.20									7.40	7.60	0:30
05/07/2022 08:00	1.20											

Equipment / plant used: Dando 2000

Remarks: 1.) PAS survey undertaken prior to breaking ground,
2.) Hand pit dug to 1.20m,
3.) Borehole terminated at 13.80mbgl due to refusal in dense gravels.



Plas Newydd
Swansea
Tel: 01544744880
email: enquiries@quantumgeotechnic.co.uk

Operator:
NF & MW

Logged By:
T.Goodrick

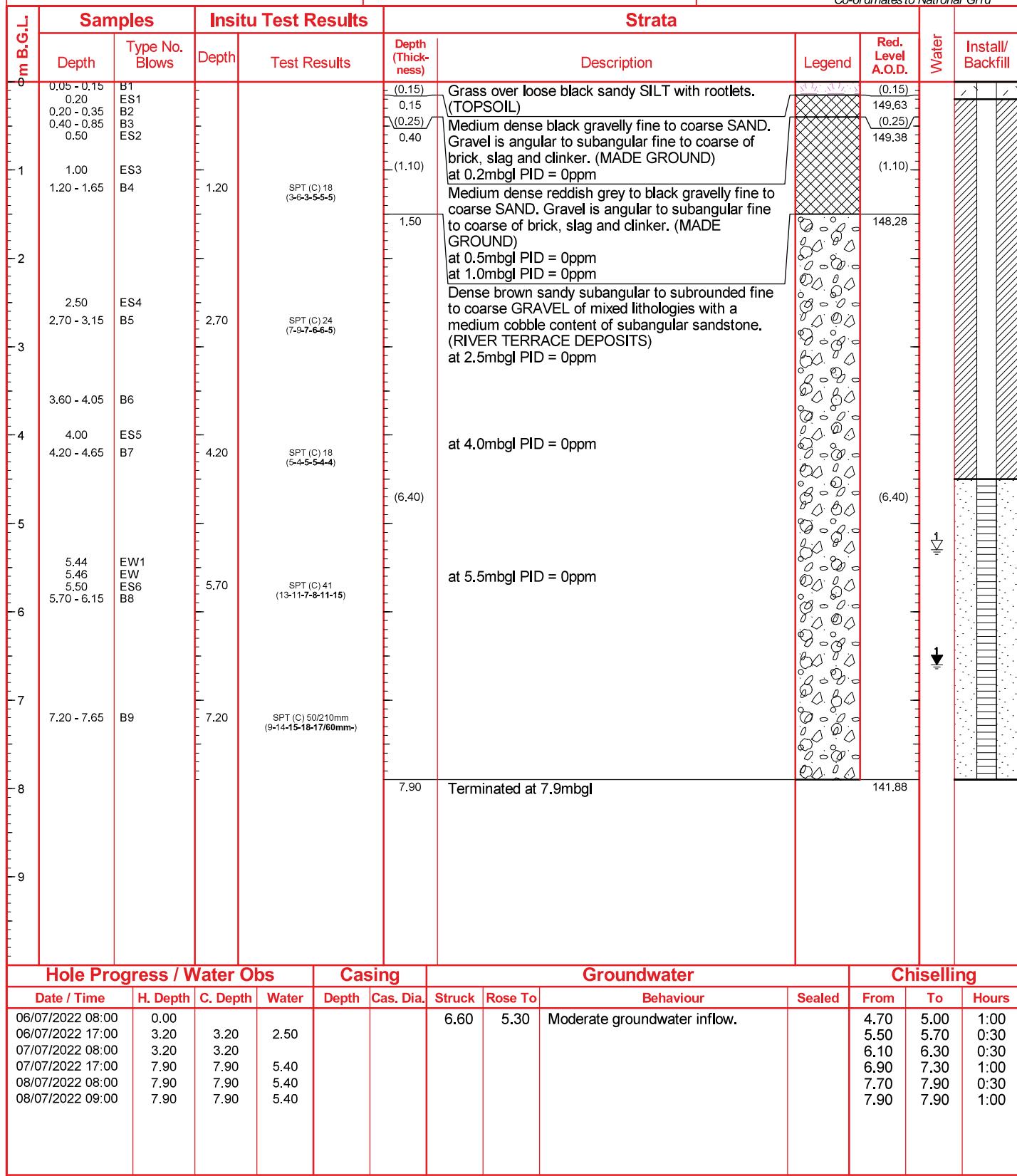
Sheet No.
1 Of 2

m Per
Page
10

All measurements in
metres unless
otherwise stated



Contract : Hoover Candy Factory Client : Merthyr Tydfil County Borough Council									Borehole No. CP101			
Dates : 4/7/22 - 6/7/22			Job Number : Q0838			Ground Level : 149.86 m A.O.D. Level to Ordnance Datum						
Location :			Engineer : Redstart			Coordinates: 305952.61 E 203879.04 N Co-ordinates to National Grid						
m B.G.L.	Samples		Insitu Test Results		Strata							
	Depth	Type No. Blows	Depth	Test Results	Depth (Thick- ness)	Description			Red. Level A.O.D.			
10	10.20 - 10.65	B B11	10.20	SPT (C) 22 (4-4-5-5-7)					138.16			
11			11.70	SPT (C) 16 (2-3-1-3-2-10)	11.70	Dense to very dense brown sandy subangular to subrounded fine to coarse GRAVEL of sandstone with a medium cobble content of subrounded sandstone. (RIVER TERRACE DEPOSITS)			(2.10)			
12					(2.10)							
13			13.20	SPT (C) 50/275mm (16-9/40mm-7-17-16-10/50mm)								
14			13.80	SPT (C) 50/115mm (15-10/20mm-34-16/40mm-)	13.80	Terminated at 13.8mbgl upon refusal			136.06			
15												
16												
17												
18												
19												
Hole Progress / Water Obs				Casing		Groundwater			Chiselling			
Date / Time	H. Depth	C. Depth	Water	Depth	Cas. Dia.	Struck	Rose To	Behaviour	Sealed	From	To	Hours
05/07/2022 17:00	10.70	10.70	7.10	13.60	200.00					13.60	13.80	1:00
06/07/2022 08:00	10.70	10.70	5.60									
06/07/2022 17:00	13.80	13.80	6.60									
Equipment / plant used: Dando 2000 Remarks: 1.) PAS survey undertaken prior to breaking ground, 2.) Hand pit dug to 1.20m, 3.) Borehole terminated at 13.80mbgl due to refusal in dense gravels.												
 Plas Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk		Operator: NF & MW			Logged By: T.Goodrick		Sheet No. 2 Of 2	m Per Page 10	All measurements in metres unless otherwise stated			

Contract : Hoover Candy Factory
Borehole No.
CP102
Client : Merthyr Tydfil County Borough Council
Dates : 6/7/22 - 8/7/22
Job Number : Q0838
**Ground Level : 149.78 m A.O.D.
Level to Ordnance Datum**
Location :
Engineer : Redstart
Coordinates: 305837.71 E
203910.53 N
Co-ordinates to National Grid

Equipment / plant used: Dando 2000
Remarks: 1.) PAS survey undertaken prior to breaking ground,
2.) Hand pit dug to 1.20m,
3.) Borehole terminated at 7.90mbgl due to refusal in dense gravels.

 Plas Newydd
Swansea
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NF & MW

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T.Goodrick

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 All measurements in
metres unless
otherwise stated


Contract : Hoover Candy Factory

Client : Merthyr Tydfil County Borough Council

Borehole No.

CP103

Dates : 8/7/22 - 8/7/22

Job Number : Q0838

Ground Level : 150.86 m A.O.D.
Level to Ordnance Datum

Location :

Engineer : Redstart

Coordinates: 305853.80 E

204060, 19 N

Co-ordinates to National Grid

m B.G.L.	Samples		Insitu Test Results		Strata				Water	Install/ Backfill		
	Depth	Type No. Blows	Depth	Test Results	Depth (Thickness)	Description		Legend				
0	0.20 - 0.65 0.20 0.50 0.70 - 1.15	B1 ES1 ES ES2 B B2 ES ES3 B3			(0.20)	Tarmac over concrete. at 0.2mbgl PID = 0ppm			(0.20)	150.66		
1	1.00 1.20 - 1.65		1.20	SPT (C) 13 (3-4-3-3-3-4)	0.20	Loose black to reddish grey gravelly fine to coarse SAND. Gravel is angular to subangular fine to coarse of brick, clinker and slag. (MADE GROUND) at 0.5mbgl PID = 0ppm at 1.0mbgl PID = 0ppm						
2	2.50 2.70 - 3.15	ES4 B4	2.70	SPT (C) 22 (5-5-5-6-6-5)	(5.20)	at 2.5mbgl PID = 0ppm				(5.20)		
3	4.00 4.20 - 4.65	ES ES5 B5	4.20	SPT (C) 22 (5-4-4-5-6-7)		at 4.0mbgl PID = 0ppm						
4	5.40 - 0.00 5.40 5.50 5.70 - 6.15	D D1 ES ES6 SPT1 B6	5.70	SPT (C) 50/285mm (1-1-0-12-17-21/60mm)	5.40 (0.50)	Soft greyish brown sandy SILT. (ALLUVIUM) at 5.5mbgl PID = 0ppm				145.46 (0.50)		
5					5.90 (0.30)	Dense to very dense brown sandy subangular to subrounded fine to coarse GRAVEL of mixed lithologies with a medium cobble content of subrounded sandstone. (RIVER TERRACE DEPOSITS)				144.96 (0.30)		
6					6.20	Terminated at 6.2mbgl				144.66		
7												
8												
9												
	Hole Progress / Water Obs			Casing		Groundwater			Chiselling			
Date / Time	H. Depth	C. Depth	Water	Depth	Cas. Dia.	Struck	Rose To	Behaviour	Sealed	From	To	Hours
08/07/2022 08:00	0.00			6.20	200.00					6.00	6.20	1:00
08/07/2022 17:00	6.20	6.20	5.30									

Equipment / plant used: Dando 2000

Remarks: 1.) PAS survey undertaken prior to breaking ground,

2.) Hand pit dug to 1.20m,

3.) Borehole terminated at 6.20mbgl due to refusal in dense gravels.

4) No Groundwater Encountered



Swansea
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email: enquiries@quantumgeotechnic.co.uk

Operator:
NF & MW

Logged By:
T.Goodrick

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All measurements in
metres unless
otherwise stated



Contract : Hoover Candy Factory Client : Merthyr Tydfil County Borough Council									Borehole No. CP104			
Dates : 11/7/22 - 12/7/22			Job Number : Q0838					Ground Level : 151.33 m A.O.D. Level to Ordnance Datum				
Location :			Engineer : Redstart					Coordinates: 305687.25 E 204049.09 N Co-ordinates to National Grid				
m B.G.L.	Samples		In situ Test Results		Strata							
	Depth	Type No. Blows	Depth	Test Results	Depth (Thickness)	Description			Red. Level A.O.D.			
0	0.20 - 0.50 0.30 0.50 - 0.70 0.50 0.70 - 1.20	B1 ES1 B2 ES2 B3			(0.20)	Concrete. at 0.2mbgl PID = 0ppm			(0.20)			
1	1.00 1.20 - 1.65	ES3 B B4	1.20	SPT (C) 1 (1-0-1-0-0-0)	0.20 (2.60)	Loose grey to black and red gravelly fine to coarse SAND. Gravel is angular to subangular fine to coarse of slag, clinker and mudstone. (MADE GROUND) at 0.5mbgl PID = 0ppm at 1.0mbgl PID = 0ppm			151.13			
2	2.50 2.70 - 3.15	ES4 B5	2.70	SPT (C) 1 (1-1-0-0-1-0)	2.80 (0.80)	at 2.5mbgl PID = 0ppm			(2.60)			
3	4.00 4.20 - 4.60	ES5 B6	4.20	SPT (C) 29 (3-4-8-6-8-7)	3.60 (1.50)	Soft brown sandy SILT. (ALLUVIUM)			148.53 (0.80)			
4	5.10			SPT (C) 70/160mm (18-7-20-41-9/10mm-)	5.10	Very dense brown sandy subangular to subrounded fine to coarse GRAVEL of mixed lithologies, with a medium cobble content of subrounded sandstone. (RIVER TERRACE DEPOSITS) at 4.0mbgl PID = 0ppm			147.73 (1.50)			
5						Terminated at 5.1mbgl upon refusal			146.23			
6												
7												
8												
9												
Hole Progress / Water Obs				Casing		Groundwater			Chiselling			
Date / Time	H. Depth	C. Depth	Water	Depth	Cas. Dia.	Struck	Rose To	Behaviour	Sealed	From	To	Hours
11/07/2022 08:00 11/07/2022 17:00	0.00 5.10	5.10	4.80	5.10	200.00					4.90	5.10	2:00
Equipment / plant used: Dando 2000 Remarks: 1.) PAS survey undertaken prior to breaking ground. 2.) Hand pit dug to 1.20m, 3.) Borehole terminated at 5.10mbgl due to refusal in dense gravels.												
4. No Groundwater Encountered  Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk						Operator: NF & IT	Logged By: T.Goodrick	Sheet No. 1 Of 1	m Per Page 10	All measurements in metres unless otherwise stated		

Contract : Hoover Candy Factory Client : Merthyr Tydfil County Borough Council								Borehole No. CP105				
Dates : 8/7/22 - 8/7/22				Job Number : Q0838				Ground Level : 151.27 m A.O.D. Level to Ordnance Datum				
Location :				Engineer : Redstart				Coordinates: 305650.55 E 204121.69 N Co-ordinates to National Grid				
m B.G.L.	Samples		Insitu Test Results		Strata				Water			
	Depth	Type No. Blows	Depth	Test Results	Depth (Thick- ness)	Description				Legend	Red. Level A.O.D.	
0	0.30 - 0.50 0.50 0.50 - 0.70	B1 ES1 B2			(0.30)	Concrete.				(0.30)		
1	1.00 1.00 - 1.20	ES2 B3		SPT (S) 13 (2-2-4-3-3-3)	0.30 (0.20) 0.50 (1.50)	Loose black gravelly fine to coarse SAND. Gravel is angular to subangular fine to coarse of brick, slag and mudstone. (MADE GROUND) at 0.5mbgl PID = 0.5mbgl				150.97 (0.20) 150.77		
1	1.50	SPT1	1.50		2.00	Loose to medium dense reddish brown sandy angular to subangular GRAVEL of mudstone. (MADE GROUND - COLLIERY SPOIL) at 1.0mbgl PID = 1.0mbgl				(1.50)		
2						Terminated at 2.0mbgl upon refusal on obstruction, possibly large rubber tyre.				149.27		
3												
4												
5												
6												
7												
8												
9												
Hole Progress / Water Obs				Casing		Groundwater				Chiselling		
Date / Time	H. Depth	C. Depth	Water	Depth	Cas. Dia.	Struck	Rose To	Behaviour	Sealed	From	To	Hours
08/07/2022 08:00	0.00			1.50	200.00							
08/07/2022 17:00	2.00	1.50										
Equipment / plant used: Pilcon 1500												
Remarks: 1.) PAS survey undertaken prior to breaking ground. Hand pit dug to 1.20m, 2.) Borehole terminated due to obstruction at 2.00m, 3.) Borehole moved to CP105A.												
4. No Groundwater Encountered Quantum Geotech Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk						Operator: JW & AB	Logged By: T.Goodrick	Sheet No. 1 Of 1	m Per Page 10	All measurements in metres unless otherwise stated		

Contract : Hoover Candy Factory Client : Merthyr Tydfil County Borough Council								Borehole No. CP105A				
Dates : 8/7/22 - 11/7/22			Job Number : Q0838				Ground Level : 151.25 m A.O.D. Level to Ordnance Datum					
Location :			Engineer : Redstart				Coordinates: 305653.44 E 204118.32 N Co-ordinates to National Grid					
m B.G.L.	Samples		Insitu Test Results		Strata							
	Depth	Type No. Blows	Depth	Test Results	Depth (Thick- ness)	Description		Red. Level A.O.D.				
0					(0.20)	Concrete.		(0.20)				
1					0.20	Loose black to grey gravelly fine to coarse SAND. Gravel is angular to subangular fine to coarse of mudstone and slag. (MADE GROUND)		151.05				
2					(2.30)			(2.30)				
3			3.00	SPT (C) 50/20mm (25/40mm-50/20mm-)	2.50 (0.10) 2.60 (0.20) 2.80 (0.20) 3.00	Concrete. Void. Concrete. Terminated at 3.0mbgl upon refusal on concrete		148.75 (0.10) 148.65 (0.20) 148.45 (0.20) 148.25				
4												
5												
6												
7												
8												
9												
Hole Progress / Water Obs			Casing		Groundwater			Chiselling				
Date / Time	H. Depth	C. Depth	Water	Depth	Cas. Dia.	Struck	Rose To	Behaviour	Sealed	From	To	Hours
11/07/2022 08:00	0.00			2.50	200.00					3.00	3.00	1:00
11/07/2022 17:00	3.00	2.50										
Equipment / plant used: Pilcon 1500 Remarks: 1.) PAS survey undertaken prior to breaking ground. Hand pit dug to 1.20m, 2.) Borehole terminated at 3.00m due to obstruction at 3.00m, 3.) Borehole moved to CP105B.												
4. No groundwater encountered:  Quantum Geotech Swansea Tel: 01544744880 email: enquiries@quantumgeotechnic.co.uk				Operator: JW & AB		Logged By: T.Goodrick		Sheet No. 1 Of 1	m Per Page 10	All measurements in metres unless otherwise stated		

Contract : Hoover Candy Factory Client : Merthyr Tydfil County Borough Council										Borehole No. CP105B					
Dates: 11/7/22 - 11/7/22				Job Number : Q0838				Ground Level : 151.29 m A.O.D. Level to Ordnance Datum							
Location :				Engineer : Redstart				Coordinates: 305647.99 E 204120.46 N Co-ordinates to National Grid							
m B.G.L.	Samples		Insitu Test Results		Strata										
	Depth	Type No. Blows	Depth	Test Results	Depth (Thickness)	Description				Legend	Red. Level A.O.D.	Water			
0					(0.20)	Concrete.					(0.20)				
1					0.20	Medium dense black to grey gravelly fine to coarse SAND. Gravel is angular to subangular fine to coarse of mudstone and slag. (MADE GROUND)					151.09				
2					(2.80)						(2.80)				
3															
3.50 - 4.00	B B1		3.00	SPT (C) 50/190mm (8-12-15-15-20/40mm-)	3.00	Very dense brown to reddish brown sandy subangular to subrounded fine to coarse GRAVEL of mixed lithologies with a medium cobble content of subrounded sandstone. (RIVER TERRACE DEPOSITS)					148.29				
4	4.00	ES1	4.00 4.05	SPT (C) 50/20mm (25/30mm-50/20mm-) SPT (C) 50/20mm (25/20mm-50/20mm-)	(1.05)						(1.05)				
4					4.05	Terminated at 4.05mbgl upon refusal					147.24				
5															
6															
7															
8															
9															
Hole Progress / Water Obs				Casing		Groundwater				Chiselling					
Date / Time	H. Depth	C. Depth	Water	Depth	Cas. Dia.	Struck	Rose To	Behaviour		Sealed	From	To	Hours		
11/07/2022 08:00	0.00										3.50	4.00	1:00		
11/07/2022 17:00	4.00	3.00									4.00	4.00			
Equipment / plant used: Pilcon 1500															
Remarks: 1.) PAS survey undertaken prior to breaking ground. Hand pit dug to 1.20m, 2.) Borehole terminated at 4.00m upon refusal in dense gravel, 3.) No groundwater encountered															
Plas Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk						Operator: JW & AB	Logged By: T.Goodrick	Sheet No. 1 Of 1	m Per Page 10	All measurements in metres unless otherwise stated	AGS				

Equipment / plant used: Pilcon 1500

Equipment / plant used: Pileon 1500
Remarks: 1.) PAS survey undertaken prior to breaking ground. Hand pit dug to 1.20m,
2.) Borehole terminated at 4.00m upon refusal in dense gravel,
3.) No groundwater encountered



Plas Newydd
Swansea
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Operator: **IW & AE**

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Contract : Hoover Candy Factory										Borehole No. CP106			
Client : Merthyr Tydfil County Borough Council													
Dates: 6/7/22 - 6/7/22				Job Number : Q0838				Ground Level : 151.61 m A.O.D. Level to Ordnance Datum					
Location :				Engineer : Redstart				Coordinates: 305619.29 E 204212.64 N Co-ordinates to National Grid					
m B.G.L.	Samples		Insitu Test Results		Strata						Water		
	Depth	Type No. Blows	Depth	Test Results	Depth (Thick- ness)	Description				Legend		Red. Level A.O.D.	
0	0.30 - 0.50 0.30 0.50 0.70 - 1.00	B1 ES1 ES2 B2			(0.20)	Reinforced concrete.					(0.20)		
1				0.20	Medium dense reddish brown sandy angular to subangular fine to coarse GRAVEL of brick and clinker. (MADE GROUND)					151.41			
1				(0.70)						(0.70)			
1				0.90	Concrete pipe. Hole terminated and moved to CP106A.					150.71			
2													
3													
4													
5													
6													
7													
8													
9													
Hole Progress / Water Obs				Casing		Groundwater					Chiselling		
Date / Time	H. Depth	C. Depth	Water	Depth	Cas. Dia.	Struck	Rose To	Behaviour		Sealed	From	To	Hours
Equipment / plant used: Pilcon 1500													
Remarks: 1.) PAS survey undertaken prior to breaking ground. Hand pit dug to 0.90m, 2.) Borehole terminated upon encountering concrete pipe at 0.90m, 3.) Borehole moved to CP106A.													
4) No groundwater encountered		Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk				Operator: JW & AB	Logged By: T.Goodrick	Sheet No. 1 Of 1	m Per Page 10	All measurements in metres unless otherwise stated			
 Quantum Geotech						AGS							

Equipment / plant used: Pilcon 1500

Equipment / plant used: Pileon 1500
Remarks: 1.) PAS survey undertaken prior to breaking ground. Hand pit dug to 0.90m,
2.) Borehole terminated upon encountering concrete pipe at 0.90m,
3.) Borehole moved to CP106A

4. No groundwater encountered

Quantum Geotech
Swansea
Tel: 01554744880
email: enquiries@quantum-geotech.co.uk

email: enquiries@

Form Name: SA/SPT. Version 2.11.000, 22/05/15

Operator:
JW & AB

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T.Goodrick

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All measurements in metres unless otherwise stated

AGS

Contract : Hoover Candy Factory Client : Merthyr Tydfil County Borough Council										Borehole No. CP106A			
Dates : 6/7/22 - 7/7/22				Job Number : Q0838					Ground Level : 151.55 m A.O.D. Level to Ordnance Datum				
Location :				Engineer : Redstart					Coordinates: 305617.91 E 204214.44 N Co-ordinates to National Grid				
m B.G.L.	Samples		In situ Test Results		Strata					Water			
	Depth	Type No. Blows	Depth	Test Results	Depth (Thickness)	Description			Legend	Red. Level A.O.D.	Install/ Backfill		
0					(0.20)	Reinforced concrete.				(0.20)			
1	0.80 - 1.00 0.80	B1 ES1	1.50	SPT (S) 7 (2-1-2-2-1-2)	0.20 (2.30)	Medium dense reddish brown sandy angular to subangular fine to coarse GRAVEL of brick and clinker. (MADE GROUND) at 0.8mbgl PID = 0ppm				151.35			
2	2.50 - 3.00 2.50	B2 ES2			2.50	at 2.5mbgl PID = 0ppm Dense to very dense brown SAND and GRAVEL. Gravel is fine to coarse sub-rounded to sub-angular sandstone and siltstone.				149.05			
3	3.50 - 3.70	B3	3.30 3.50 3.80	SPT (C) 50/40mm (25/70mm-50/40mm-) SPT (C) 50/40mm (25/20mm-50/40mm-) SPT (C) 50/40mm (25/20mm-50/40mm-)	(1.30) 3.80	Terminated upon refusal at 3.8mbgl				(1.30)			
4										147.75			
5													
6													
7													
8													
9													
Hole Progress / Water Obs				Casing		Groundwater				Chiselling			
Date / Time	H. Depth	C. Depth	Water	Depth	Cas. Dia.	Struck	Rose To	Behaviour		Sealed	From	To	Hours
06/07/2022 08:00	0.00			3.00	200.00						3.30	3.50	1:00
06/07/2022 17:00	3.80	3.00									3.50	3.80	2:00
Equipment / plant used: Pilcon 1500 Remarks: 1.) PAS survey undertaken prior to breaking ground. Hand pit dug to 1.20m, 2.) Borehole terminated at 3.80m upon refusal in dense gravels, 3.) Borehole moved to already drilled WS114 where no advancement was achieved.													
4. No groundwater encountered:  Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk						Operator: JW & AB	Logged By: T.Goodrick	Sheet No. 1 Of 1	m Per Page 10	All measurements in metres unless otherwise stated			

APPENDIX F

ROTARY BOREHOLE LOGS

Contract : Hoover Candy Factory Client : Merthyr Tydfil County Borough Council										Borehole No. RBH101 CP
Dates : 29/6/22 - 4/6/22			Job Number : Q0838					Ground Level : 149.40 m A.O.D. Level to Ordnance Datum		
Location :			Engineer : Redstart					Coordinates: 305961.64 E 203980, 38 N Co-ordinates to National Grid		
m B.G.L.	Samples		In situ Test Results		Strata					
	Depth	Type No. Blows	Depth	Test Results	Depth (Thickness)	Description				Red. Level A.O.D.
0	0.20 0.30 0.50	B2 ES1 ES2			(0.20)	Grass over black sandy SILT with rootlets. (TOPSOIL)				(0.20)
1	1.00	ES3	1.20	SPT (C) 18 (5-6-8-4-3-3)	0.20	at 0.2mbgl PID = 0ppm Loose black slightly clayey gravelly fine to coarse SAND. Gravel is angular to subangular fine to coarse of brick, coal and slag. (MADE GROUND) at 0.5mbgl PID = 0ppm at 1.0mbgl PID = 0ppm				149.20
2	2.50	ES4	2.70	SPT (C) 10 (2-2-2-3-2-3)	(3.10)					(3.10)
3						at 2.5mbgl PID = 0ppm				
4	3.90 4.00 4.20 - 4.65 4.20	D1 ES5 B B7	4.20	SPT (C) 15 (3-3-4-4-3-4)	3.30 (0.80)	Loose black clayey sandy SILT with wood fragments. (ALLUVIUM)				146.10 (0.80)
5	5.13	EW1			4.10 (0.90)	at 4.0mbgl PID = 0ppm Dense black sandy subangular to subrounded fine to coarse GRAVEL of mixed lithologies. (RIVER TERRACE DEPOSITS)				145.30 (0.90)
6	5.70 - 6.15	B	5.70	SPT (C) 45 (9-9-9-9-15-12)	5.00	Medium dense to dense brown sandy subangular to subrounded fine to coarse GRAVEL of mixed lithologies. High cobble content of subangular sandstone. (RIVER TERRACE DEPOSITS)				144.40
7	7.20 - 7.65	B	7.20	SPT (C) 37 (7-6-8-10-9-10)						144.40
8	8.70 - 9.15 8.70	B B10	8.70	SPT (C) 24 (13-11-6-5-4-9)						144.40
9										
Hole Progress / Water Obs				Casing		Groundwater				Chiselling
Date / Time	H. Depth	C. Depth	Water	Depth	Cas. Dia.	Struck	Rose To	Behaviour		Sealed
29/06/2022 08:00	0.00					6.60	5.70	Moderate groundwater inflow.		
29/06/2022 17:00	4.00	4.00								5.90
30/06/2022 08:00	4.00	4.00								6.10
30/06/2022 17:00	9.50	9.50	5.70							8.50
01/07/2022 08:00	9.50	9.50	5.70							9.10
Equipment / plant used: Dando 2000 Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl.										

Contract : Hoover Candy Factory								Borehole No. RBH101 CP						
Client : Merthyr Tydfil County Borough Council				Dates : 29/6/22 - 4/6/22				Job Number : Q0838		Ground Level : 149.40 m A.O.D. Level to Ordnance Datum				
Location :				Engineer : Redstart				Coordinates: 305961.64 E 203980.38 N Co-ordinates to National Grid						
m B.G.L.	Samples		Insitu Test Results		Strata				Legend	Red. Level A.O.D.	Water			
10	Depth	Type No. Blows	Depth	Test Results	Depth (Thickness)	Description								
10.20 - 10.65	B		10.20	SPT (C) 16 (5-4-4-4-4-4)										
11.70 - 12.15	B		11.70	SPT (C) 24 (7-8-11-5-5-3)	(13.20)						(13.20)			
13.20 - 13.65	B		13.20	SPT (C) 17 (4-5-4-4-5-4)										
14.70 - 15.15	B		14.70	SPT (C) 50 (3-4-12-24-7-7)										
16.20 - 16.65	B		16.20	SPT (C) 23 (5-7-8-5-6-4)										
17.70 - 18.15	B		17.70	SPT (C) 50/245mm (8-10-11-13-19-7/20mm)										
18			18.00	SPT (C) 70/105mm (16-9/20mm-20-29/30mm-21/mm-)		18.20	Terminated at 18.2mbgl upon refusal				131.20			
19														
Hole Progress / Water Obs				Casing		Groundwater				Chiselling				
Date / Time	H. Depth	C. Depth	Water	Depth	Cas. Dia.	Struck	Rose To	Behaviour		Sealed	From	To	Hours	
01/07/2022 17:00	16.00	16.00	6.30	18.00	200.00						18.00	18.20	1:00	
04/07/2022 08:00	16.00	16.00	5.10											
04/07/2022 17:00	18.20	18.00	6.90											
Equipment / plant used: Dando 2000														
Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl.														
 Quantum Geotech				Plas Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk			Operator: NF & MW	Logged By: T.Goodrick	Sheet No. 2 Of 2	m Per Page 10	All measurements in metres unless otherwise stated			
 AGS														

Equipment / plant used: Dando 2000

Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbql.



Plas Newydd
Swansea
Tel: 01554744880
email: enquiries@quantumgeotechnic.co.uk

Operator:

Logged By.

Sheet No
3 Of 3

m P
Page

All measurements in metres unless otherwise stated



Contract : Hoover Candy Factory

Client : Merthyr Tydfil County Borough Council

Borehole No.

RBH101 R

Dates : 6/7/22 - 6/7/22

Job Number : Q0838

Ground Level : 149.40 m A.O.D.
Level to Ordnance Datum

Location :

Engineer : Redstart

Coordinates: 305961.64 E
203980, 38 N
Co-ordinates to National Grid



Contract : Hoover Candy Factory

Borehole No.

Client : Merthyr Tydfil County Borough Council

RBH101 R

Dates : 6/7/22 - 6/7/22

Job Number : Q0838

Ground Level : 149.40 m A.O.D.
Level to Ordnance Datum

Location :

Engineer : Redstart

Coordinates: 305961.64 E
203980.38 N
Co-ordinates to National Grid



Contract : Hoover Candy Factory

Client : Merthyr Tydfil County Borough Council

Borehole No.

RBH101 R

Dates : 6/7/22 - 6/7/22

Job Number : Q0838

Ground Level : 149.40 m A.O.D.
Level to Ordnance Datum

Location :

Engineer : Redstart

Coordinates: 305961.64 E

203980.38 N

Co-ordinates to National Grid



Contract : Hoover Candy Factory Client : Merthyr Tydfil County Borough Council												Borehole No. RBH102			
Dates : 7/7/22 - 8/7/22						Job Number : Q0838				Ground Level : 149.90 m A.O.D. Level to Ordnance Datum					
Location :						Engineer : Redstart				Coordinates: 305913.62 E 204047.92 N Co-ordinates to National Grid					
m B.G.L.	Run Details				Fractures		Samples		Strata						
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	Fl	Depth	Type No. Blows	Depth (Thickness)	Description			Legend	Red. Level A.O.D.	
0									Made Ground - Drillers Description						
1									(4.20)						
2															
3															
4															
5									4.20 Brown sandy Clay - Drillers Description			145.70			
5.33									(0.90)						
6									5.10 Dense Gravel and Cobbles - Drillers Description			144.80	▼		
7									(3.40)						
8															
9									8.50 Gravel - Drillers Description			141.40			
10									(7.30)						
11															
12															
13															
14															
15															
16									15.80 Sand and Gravel - Drillers Description			134.10			
17									(9.60)						
18															
19															
20															
21															
22													▼		
23															
24															
Hole Progress / Water Obs				Casing		Groundwater				Flush					
Date / Time	H. Depth	C. Depth	Water	Depth	Diam.	Struck	Rose To	Behaviour		Sealed	Depth	Type	Returns		
07/07/2022 08:00	0.00					5.50 8.00 15.00					0.00 - 49.00	Mist	100		
Plant: Commachio 600 Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl.															
	Plas Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk				Operator:	QGL	Logged By:	Sheet No.	m Per Page	All measurements in metres unless otherwise stated					
								1 Of 2	25						
															

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Contract : Hoover Candy Factory												Borehole No. RBH102			
Client : Merthyr Tydfil County Borough Council															
Dates : 7/7/22 - 8/7/22						Job Number : Q0838						Ground Level : 149.90 m A.O.D. Level to Ordnance Datum			
Location :						Engineer : Redstart						Coordinates: 305913.62 E 204047.92 N Co-ordinates to National Grid			
m B.G.L.	Run Details			Fractures		Samples		Strata					Water		
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	Fl	Depth	Type No. Blows	Depth (Thickness)	Description				Legend	Red. Level A.O.D.
25															
26								25.40	Siltstone - Drillers Description			124.50			
27								(4.10)							
28															
29															
30								29.50	Coal - Drillers Description			120.40			
31								(0.50)	Mudstone - Drillers Description			119.90			
32								30.00	Coal - Drillers Description			119.40			
33								(0.50)	Mudstone - Drillers Description			118.70			
34								30.50							
35								(0.70)							
36								31.20							
37								(6.40)							
38								37.60	Coal - Drillers Description			112.30			
39								(1.20)							
40								38.80	Mudstone - Drillers Description			111.10			
41								(1.20)							
42								40.00	Coal - Drillers Description			109.90			
43								(0.50)							
44								40.50	Mudstone - Drillers Description			109.40			
45								(8.50)							
46															
47															
48															
49								49.00	Terminated at 49.0mbgl			100.90			
Hole Progress / Water Obs						Casing		Groundwater				Flush			
Date / Time	H. Depth	C. Depth	Water			Depth	Diam.	Struck	Rose To	Behaviour		Sealed	Depth	Type	Returns
07/07/2022 17:00	49.00	26.50				26.50	115.00								
Plant: Commachio 600															
Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl.															
 Plas Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk								Operator:	Logged By:	Sheet No.	m Per Page	All measurements in metres unless otherwise stated			
								QGL	P Darby	2 Of 2	25				

Contract : Hoover Candy Factory											Borehole No. RBH103						
Client : Merthyr Tydfil County Borough Council																	
Dates : 1/7/22 - 4/7/22						Job Number : Q0838					Ground Level : 151.00 m A.O.D. Level to Ordnance Datum						
Location :						Engineer : Redstart					Coordinates: 305732.04 E 203975.34 N Co-ordinates to National Grid						
m B.G.L.	Run Details			Fractures		Samples		Strata					Water				
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	Fl	Depth	Type No. Blows	Depth (Thickness)	Description				Legend	Red. Level A.O.D.		
0										MADE GROUND - Black and reddish brown slightly silty sandy GRAVEL with many wood fragments and low cobble content. Gravel is fine to coarse angular mudstone, clinker, brick and concrete. Cobbles are angular brick, concrete and slag.							
1										Ash Fill - Drillers Description			149.80				
2										Gravel and Boulders - Drillers Description			147.10				
3																	
4										Sand and Gravel - Drillers Description			141.00				
5																	
6										Sandstone and Mudstone Bands - Drillers Description			137.10				
7																	
8										Coal - Drillers Description			131.90				
9										Mudstone - Drillers Description			131.50				
10																	
11										Coal - Drillers Description			128.90				
12										Mudstone and Siltstone Bands - Drillers Description			128.00				
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	
Hole Progress / Water Obs						Casing		Groundwater				Flush					
Date / Time	H. Depth	C. Depth	Water			Depth	Diam.	Struck	Rose To	Behaviour		Sealed	Depth	Type	Returns		
01/07/2022 08:00	0.00					14.50	115.00	14.00	7.20	Fast groundwater inflow below 14.0mbgl			0.00 - 42.00	Mist	100		
01/07/2022 16:00	10.00	10.00	7.40														
04/07/2022 07:00	10.00	10.00	7.40														
Plant: Commachio 600																	
Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl.																	
 Plas Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk						Operator: QGL		Logged By: P Darby		Sheet No. 1 Of 2	m Per Page 25	All measurements in metres unless otherwise stated					

Plant: Commachio 600

Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbal.

Contract : Hoover Candy Factory Client : Merthyr Tydfil County Borough Council												Borehole No. RBH103			
Dates : 1/7/22 - 4/7/22						Job Number : Q0838				Ground Level : 151.00 m A.O.D. Level to Ordnance Datum					
Location :						Engineer : Redstart				Coordinates: 305732.04 E 203975.34 N Co-ordinates to National Grid					
m B.G.L.	Run Details			Fractures		Samples		Strata					Water	Install/ Backfill	
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	Fl	Depth	Type No. Blows	Depth (Thickness)	Description					Legend
25									Mudstone and Siltstone Bands - Drillers Description			x x x x			
26									(6.10)			x x x x			
27												x x x x			
28												x x x x			
29									29.10 Coal - Drillers Description					121.90	
30									(1.10)						
31									30.20 Mudstone and Siltstone Bands - Drillers Description					120.80	
32															
33															
34															
35															
36									(11.80)						
37															
38															
39															
40															
41															
42									42.00 Terminated at 42.0mbgl					109.00	
43															
44															
45															
46															
47															
48															
49															
Hole Progress / Water Obs				Casing			Groundwater				Flush				
Date / Time	H. Depth	C. Depth	Water	Depth	Diam.	Struck	Rose To	Behaviour			Sealed	Depth	Type	Returns	
04/07/2022 17:00	42.00	14.50													
Plant: Commachio 600 Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl.															
 Quantum Geotech Plas Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk				Operator: QGL		Logged By: P Darby		Sheet No. 2 Of 2	m Per Page 25	All measurements in metres unless otherwise stated	 AGS				

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Contract : Hoover Candy Factory Client : Merthyr Tydfil County Borough Council									Borehole No. RBH104 CP				
Dates : 28/6/22 - 29/6/22 Location :				Job Number : Q0838 Engineer : Redstart				Ground Level : 151.03 m A.O.D. Level to Ordnance Datum					
m B.G.L.	Samples		In situ Test Results		Strata					Red. Level A.O.D.	Water		
	Depth	Type No. Blows	Depth	Test Results	Depth (Thickness)	Description							
0	0.30 - 0.75 0.50	B B1 ES1			(0.30)	Reinforced Concrete. Rebar at 0.25m.				(0.30)			
1	0.80 - 1.15 1.00	B2 ES2			(0.30)	Loose dark grey slightly silty slightly gravelly fine to coarse SAND. Gravel is angular to subangular fine to coarse of coal, brick and slag. (MADE GROUND)				150.73 (0.50)			
1	1.20 - 1.65	B3	1.20	SPT (C) 7 (2-1-2-2-1-2)	(0.50)	at 0.5mbgl PID = 0ppm				150.23			
2	1.90 - 2.35	B B4			0.80	Loose grey to black ravelly fine to coarse SAND. Gravel is angular to subangular fine to coarse of clinker, coal and slag. (MADE GROUND - COLLIERY SPOIL)				(2.00)			
2	2.50	ES3			(2.00)	at 1.0mbgl PID = 0ppm							
3	2.70 - 3.15	B5	2.70	SPT (C) 7 (1-1-2-2-1-2)	2.80	at 2.5mbgl PID = 0ppm				148.23			
3	3.70 - 4.15	B6			(0.90)	Loose black gravelly fine to coarse SAND. Gravel is angular to subangular of fine coal. (MADE GROUND - COAL DUST)				(0.90)			
4	4.00	ES4			3.70	Firm greyish brown sandy gravelly CLAY with a medium cobble content of subrounded sandstone. Gravel is subrounded to rounded fine to coarse of sandstone. (ALLUVIUM)				147.33			
4	4.20 - 4.65	B7	4.20	SPT (C) 50/200mm (4-3-10-17-23/50mm-)	(0.80)	at 4.0mbgl PID = 0ppm				(0.80)			
5	5.30 - 5.80 5.50	B B8 ES5			4.50	Very dense brown fine to coarse SAND + GRAVEL with a medium cobble content of subrounded sandstone. (RIVER TERRACE DEPOSITS)				146.53			
5	5.70			SPT (C) 50/170mm (25-20-23-7/20mm-)	(1.30)	at 5.5mbgl PID = 0ppm				(1.30)			
6					5.80	Terminated at 5.8mbgl upon refusal				145.23			
Hole Progress / Water Obs				Casing		Groundwater				Chiselling			
Date / Time	H. Depth	C. Depth	Water	Depth	Cas. Dia.	Struck	Rose To	Behaviour		Sealed	From	To	Hours
28/06/2022 08:00	0.00			5.70	200.00						5.70	5.80	1:00
28/06/2022 17:00	4.20	4.00											
29/06/2022 08:00	4.20	4.00											
29/06/2022 17:00	5.80	5.70	5.10										
Equipment / plant used: Dando 2000													
Remarks: 1.) PAS survey undertaken prior to breaking ground. Hand dug pit to 1.20m, 2.) Slow progress due to dense Sands and Gravels 3.) No Groundwater Encountered													
 Quantum Geotech Plas Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk						Operator: NF & MW	Logged By: T.Goodrick	Sheet No. 1 Of 1	m Per Page 10	All measurements in metres unless otherwise stated	 AGS		

Equipment / plant used: Dando 2000

Equipment / plant used: Dando 2000
Remarks: 1.) PAS survey undertaken prior to breaking ground. Hand dug pit to 1.20m,
2.) Slow progress due to dense Sands and Gravels
3.) No Groundwater Encountered



Plas Newydd
Swansea
Tel: 01554744880
email: enquiries@quantummechatronic.co.uk

Operator:
NE & MW

Logged By.

Sheet No
1 Of 1

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Page

All measurements in metres unless otherwise stated

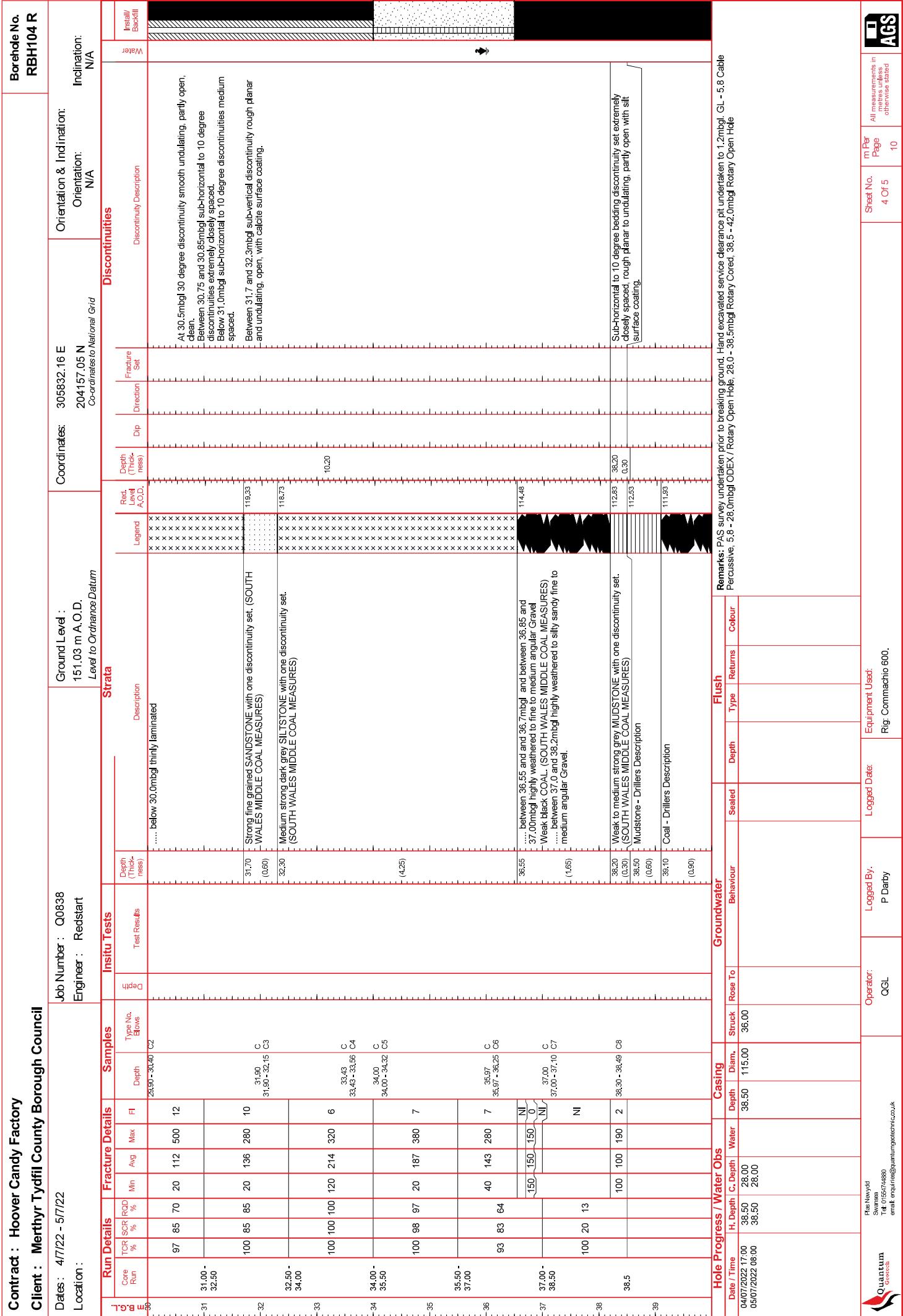


Contract : Hoover Candy Factory
Client : Merthyr Tydfil County Borough Council

Dates : 4/7/22 - 5/7/22
 Location :

Job Number : Q0838
 Engineer : Redstart

Borehole No. : RBH104 R
 Orientation & Indination: Orientation: N/A
 Inclination: N/A
 Coordinates: 305832.16 E
 204157.05 N
 Co-ordinates to National Grid



Contract : Hoover Candy Factory
Client : Merthyr Tydfil County Borough Council

Dates : 4/7/22 - 5/7/22

Location :

Job Number : Q0838
 Engineer : Redstart

Borehole No. **RBH104 R**

Orientation & Indination: Orientation: N/A

Coordinates: 305832.16 E
 204157.05 N
 Co-ordinates to National Grid

Ground Level : 151.03 m A.O.D.
 Level to Ordnance Datum

Inclination: N/A

Water

Install/ Backfill

Water

Contract : Hoover Candy Factory

Client : Merthyr Tydfil County Borough Council

Borehole No.

RBH104 R

Dates : 4/7/22 - 5/7/22

Job Number : Q0838

Ground Level : 151.03 m A.O.D.
Level to Ordnance Datum

Location :

Engineer : Redstart

Coordinates: 305832.16 E

204157.05 N

Co-ordinates to National Grid



Contract : Hoover Candy Factory

Borehole No.

Client : Merthyr Tydfil County Borough Council

RBH104 R

Dates : 4/7/22 - 5/7/22

Job Number : Q0838

Ground Level : 151.03 m A.O.D.
Level to Ordnance Datum

Location :

Engineer : Redstart

Coordinates: 305832.16 E

204157.05 N

Co-ordinates to National Grid



Contract : Hoover Candy Factory

Client : Merthyr Tydfil County Borough Council

Borehole No.

RBH104 R

Dates : 4/7/22 - 5/7/22

Job Number : Q0838

Ground Level : 151.03 m A.O.D.
Level to Ordnance Datum

Location :

Engineer : Redstart

Coordinates: 305832.16 E

204157.05 N

Co-ordinates to National Grid



Contract : Hoover Candy Factory
Client : Merthyr Tydfil County Borough Council

Dates : 14/7/22 - 15/7/22
 Location :

Job Number : Q0838
 Engineer : Redstart

Borehole No. **RBH105**
 Orientation & Indination: N/A
 Orientation: N/A
 Coordinates: 305882.68 E
 Co-ordinates to National Grid
 Coordinates: 204229.87 N
 Inclination: N/A
 Water Table: N/A
 Install/ Backfill:

B.G.L	Run Details			Fracture Details			Samples			In situ Tests			Strata			Discontinuities					
	Core Run	TCR %	SCR %	R.D %	Min	Avg	Max	F1	Depth	Type No.	Balls	Test Results	Depth (Thickness)	Legend	Red. Level A.O.D.	Depth (Thickness)	Fracture Set	Direction	Dip	Discontinuity Description	
16												(19.60mm-21.20±0.00mm)									
17												16.2 SPT (C) 50±05mm (≤20.60mm-≤1.49±0.00mm-)									
18												17.7 SPT (C) 50±05mm (25.70mm-≤0.55mm-)									
19												19.2 SPT (C) 50±05mm (25.70mm-≤0.55mm-)									
20												20.00 Silstone - Drillers Description (0.70)									
21	22.20 - 22.20	100	100	84	40	115	250	12	20.87 - 21.03	C1		20.70 Thinly laminated to thinly bedded medium strong dark grey MUDSTONE and strong light grey SANDSTONE with one discontinuity set. Sub-horizontal to 10 degree (bedding) discontinuity set closely spaced, smooth planar, tight to partly open, clean.									
22	22.20 - 23.70	100	97	72	90	150	280	9	23.10-23.40	C2		(23.7)									
23	23.70 - 25.20	98	95	49	10	113	300	12	24.56-24.80	C3		23.77 Medium strong dark grey thinly laminated MUDSTONE with one discontinuity set. (SOUTH WALES MIDDLE COAL MEASURES)									
24	25.20 - 26.10	80	55	29	30	100	310	4	25.70-26.00	C4		(23.7)									
25	26.70 - 27.20	300	146	48						NI		25.50 between 25.5 and 25.7mbgl highly to completely weathered to gravelly Sand Weak to medium strong black COAL with one discontinuity set. (SOUTH WALES MIDDLE COAL MEASURES)									
26	27.20 - 29.70	60	46	21						27.23-27.32	C5		26.20 between 26.2 and 26.4mbgl highly to completely weathered to gravelly Sand Weak to medium strong dark grey MUDSTONE with one discontinuity set. (SOUTH WALES MIDDLE COAL MEASURES)								
27	29.70 - 30.70	96	85	52	15	142	310	6	29.25-29.48	C6		27.10 Weak to medium strong black COAL with two discontinuity sets. (SOUTH WALES MIDDLE COAL MEASURES)									
28												(13.87)									
29												28.57 Medium strong grey conglomeric MUDSTONE with one discontinuity									
Hole Progress			Water Obs			Casing			Groundwater			Flush			Remarks						
Date / Time	H. Depth	C. Depth	Water	Depth	Diam.	Struck	Rose To	Behaviour	Sealed	Depth	Type	Returns	Colour								

Contract : Hoover Candy Factory
Client : Merthyr Tydfil County Borough Council

Dates : 14/7/22 - 15/7/22
 Location :

Job Number : Q0838
 Engineer : Redstart

Borehole No. **RBH105**
 Orientation & Indination: Orientation: N/A
 Inclination: N/A
 Water

Run Details		Fracture Details		Samples		In situ Tests		Strata		Discontinuities						
Bl.	Core Run	TCR %	SCR %	ROD %	Min	Avg	Max	F1	Depth	Type No. Holes	Test Results	Depth (Thickness)	Discontinuity Description	Fracture Set		
30	30/7	96	85	52	15	142	310	6	30.20 - 30.30	C7						
31	30.7															
32																
33																
34																
35																
36																
37																
38																
39																
40																
41																
42																
43																
44																
Hole Progress / Water Obs		Casing		Groundwater		Flush		Equipment Used:				All measurements in metres unless otherwise stated				
Date / Time	H. Depth	C. Depth	Water Depth	Diam.	Struck	Rose To	Behaviour	Sealed	Depth	Type	Returns	Colour				
14/07/2022 17:00	30.70	20.70														

Quantum Geotech
 File Name: ROTARY A3, Version 2.11.000, 22/05/15 Output By: Phil Darby, Library File: C:\USER\RS\PHIL DARBY\ONEDRIVE - QUANTUM GEOTECHNIC LTD\QUANTUM 4.GLB.
 Source: 141 01554724880
 email: enquiries@quantumgeotechnic.co.uk

Operator: QGL
 Logged By: P Darby
 Logged Date: Rig: Commachio 600.
 Rig: Commachio 600.

Sheet No. 3 Of 3

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Contract : Hoover Candy Factory

Client : Merthyr Tydfil County Borough Council

Borehole No.

RBH105

Dates : 14/7/22 - 15/7/22

Job Number : Q0838

Ground Level : 149.56 m A.O.D.
Level to Ordnance Datum

Location :

Engineer : Redstart

Coordinates: 305892.68 E

204229.87 N

Co-ordinates to National Grid



Contract : Hoover Candy Factory

Client : Merthyr Tydfil County Borough Council

Borehole No.

RBH105

Dates : 14/7/22 - 15/7/22

Job Number : Q0838

Ground Level : 149.56 m A.O.D.
Level to Ordnance Datum

Location :

Engineer : Redstart

Coordinates: 305892.68 E

204229.87 N

Co-ordinates to National Grid



Contract : Hoover Candy Factory Client : Merthyr Tydfil County Borough Council												Borehole No. RBH106			
Dates : 8/7/22 - 8/7/22						Job Number : Q0838				Ground Level : 151.35 m A.O.D. Level to Ordnance Datum					
Location :						Engineer : Redstart				Coordinates: 305667.24 E 204070, 36 N Co-ordinates to National Grid					
m B.G.L.	Run Details				Fractures		Samples		Strata						
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	Fl	Depth	Type No. Blows	Depth (Thickness)	Description			Legend	Red. Level A.O.D.	Water
0									Ash Backfill - Drillers Description						
1									(2.90)						
2									2.90 Brown Clay - Drillers Description			148.45			
3									(1.10)						
4									4.00 Gravel and Boulders - Drillers Description			147.35			
5									(2.80)						
6									6.80 Sand and Gravels - Drillers Description			144.55			
7									(7.30)						
8									14.10 Mudstone and Siltstone - Drillers Description			137.25			
9									(2.30)						
10									16.40 Coal - Drillers Description			134.95			
11									(1.20)						
12									17.60 Mudstone and Siltstone - Drillers Description			133.75			
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															
Hole Progress / Water Obs				Casing			Groundwater				Flush				
Date / Time	H. Depth	C. Depth	Water	Depth	Diam.	Struck	Rose To	Behaviour			Sealed	Depth	Type	Returns	
08/07/2022 08:00	0.00			14.50	115.00	13.00		Medium groundwater inflow							
Plant: Commachio 600 Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl.															
 Quantum Geotech	Plas Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk				Operator:	QGL	Logged By:	Sheet No.	m Per Page	All measurements in metres unless otherwise stated	P Darby	1 Of 2	25		

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Plant: Commachio 600

Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl.

Contract : Hoover Candy Factory											Borehole No. RBH107		
Client : Merthyr Tydfil County Borough Council													
Dates : 5/7/22 - 5/7/22						Job Number : Q0838					Ground Level : 151.63 m A.O.D. Level to Ordnance Datum		
Location :						Engineer : Redstart					Coordinates: 305769.03 E 204244.24 N Co-ordinates to National Grid		
m B.G.L.	Run Details			Fractures		Samples		Strata					
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	FI	Depth	Type No.	Blows	Depth (Thickness)	Description	Legend	Red Level A.O.D.
25										(2.10)	Mudstone - Drillers Description		
26										26.20	Coal - Drillers Description		125.43
27										(1.20)			
28										27.40	Mudstone and Siltstone - Drillers Description		124.23
29										(1.70)			
30										29.10	Coal - Drillers Description		122.53
31										(0.90)			121.63
32										30.00	Mudstone - Drillers Description		
33										(4.10)			
34										34.10	Coal - Drillers Description		117.53
35										(0.90)			116.63
36										35.00	Mudstone and Siltstone - Drillers Description		
37										(5.00)			
38													
39													
40										40.00	Terminated at 40.0mbgl		111.63
41													
42													
43													
44													
45													
46													
47													
48													
49													
Hole Progress / Water Obs				Casing		Groundwater					Flush		
Date / Time	H. Depth	C. Depth	Water	Depth	Diam.	Struck	Rose To	Behaviour			Depth	Type	Returns
05/07/2022 17:00	40.00	23.50	5.80			34.00	15.80	Fast groundwater inflow at 34.0mbgl					
Plant: Commachio 600 Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl.													
 Pias Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk						Operator: QGL	Logged By: P Darby	Sheet No. 2 Of 2	m Per Page 25	All measurements in metres unless otherwise stated			

Contract : Hoover Candy Factory Client : Merthyr Tydfil County Borough Council								Borehole No. RBH108 CP				
Dates : 4/7/22 - 4/7/22				Job Number : Q0838				Ground Level : 151.62 m A.O.D. Level to Ordnance Datum				
Location :				Engineer : Redstart				Coordinates: 305734.20 E 204292.11 N Co-ordinates to National Grid				
m B.G.L.	Samples		In situ Test Results		Strata					Water		
	Depth	Type No. Blows	Depth	Test Results	Depth (Thickness)	Description			Legend	Red. Level A.O.D.		
	0.20 - 0.30	B1			(0.20)	Reinforced concrete. Rebar at 0.15m.				(0.20)		
	0.50 - 0.60	B B2			0.20	Loose black to reddish brown gravelly fine to coarse SAND. Gravel is angular to subangular fine to coarse of clinker, slag and brick. (MADE GROUND)				151.42		
	1.00 - 1.20	B3			(1.30)					(1.30)		
	1.50	SPT1	1.50	SPT (S) 5 (1-2-1-2-1-1)	1.50	Soft greyish brown sandy gravelly CLAY with a low cobble content of subrounded sandstone. Gravel is subangular to subrounded fine to coarse of sandstone. (ALLUVIUM)				150.12		
	1.50 - 2.00	B4			(1.50)					(1.50)		
	2.50 - 3.00	B B5										
	3.00	SPT2	3.00	SPT (S) 48 (3-5-8-12-12-16)	3.00	Dense to very dense brown sandy subrounded to rounded fine to coarse GRAVEL of sandstone with a high cobble content of subrounded sandstone. (RIVER TERRACE DEPOSITS)				148.62		
	3.00 - 3.50	B6			(1.20)					(1.20)		
	4.00			SPT (C) 50/70mm (25/40mm-50/70mm-)	4.20	Terminated at 4.2mbgl upon refusal				147.42		
	4.10			SPT (C) 50/20mm (25/10mm-50/20mm-)								
	4.20			SPT (C) 50/20mm (25/10mm-50/20mm-)								
Hole Progress / Water Obs				Casing		Groundwater				Chiselling		
Date / Time	H. Depth	C. Depth	Water	Depth	Cas. Dia.	Struck	Rose To	Behaviour		Sealed		
04/07/2022 08:00	0.00			4.00	200.00							
04/07/2022 17:00	4.20	4.00										
06/07/2022 08:00	4.00											
Equipment / plant used: Pilcon 1500												
Remarks: 1.) PAS survey undertaken prior to breaking ground. Hand pit dug to 1.20m, 2.) Refusal at 4.20m, 3.) Borehole terminated and moved to BH108A.												
4.) No Groundwater Encountered						Operator:	Logged By:	Sheet No.	m Per Page	All measurements in metres unless otherwise stated		
Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk						JW & AB	T.Godrick	1 Of 1	10	AGS		

Equipment / plant used: Pilcon 1500

Equipment / plant used: Pileon 1500
Remarks: 1.) PAS survey undertaken prior to breaking ground. Hand pit dug to 1.20m, 2.) Refusal at 4.20m, 3.) Borehole terminated and moved to BH108A.

4. No Groundwater Encountered



Swansea
Tel: 01554744880
email: enquiries@quantumoptoelectronics.co.uk

Operator:
JW & AB

Logged By.

Sheet N
1 Of 1

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measurements in metres unless otherwise stated



Equipment / plant used: Pilcon 1500

Equipment / plant used: Pileon 1500
Remarks: 1.) PAS survey undertaken prior to breaking ground. Hand pit dug to 1.20m,
2.) Refusal at 4.10m,
3.) No Groundwater Encountered



Plas Newydd
Swansea
Tel: 01554744880
email: enquiries@quantummechatronic.co.uk

Operator:

Logged By:

Sheet No
1 Of 1

m P
Page

All measures

 AGS

Contract : Hoover Candy Factory
Client : Merthyr Tydfil County Borough Council

Location : 6/7/22 - 7/7/22

Job Number : Q0838

Engineer : Redstart

Borehole No. : RBH108AR

Orientation & Indination: N/A

Orientation: N/A

Indination: N/A

B.G.L	Run Details			Fracture Details			Samples			In situ Tests			Strata			Discontinuities					
	Core Run	TCR %	SCR %	R.D %	Min	Avg	Max	F1	Depth	Type No. Holes	Test Results	Depth (Thickness)	Description	Legend	Red. Level A.O.D.	Depth (Thickness)	Fracture Set	Dip	Direction	Discontinuity Description	
1					0.20-0.30	B1							Progressed using Cable Percussive Drilling Techniques								
2					0.30-0.50	B2															
3					1.00-1.20	B3															
4					1.50-1.80	B4							SPT (S) 6 (1-2-4-2-1-2)								
5					2.50-3.00	B5															
6					3.00-3.50	B6							SPT (S) 45 (4-4-4-1-1-2-1-5)								
7					3.50-4.00	B7							SPT (C) 50/70mm (4-4-4-1-1-2-1-5) (25/25mm-30/40mm-)								
8																					
9																					
10																					
11																					
12																					
13																					
14																					

Remarks: P+S survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl. GL - 4.0 Cable Percussive, 4.0 - 26.5mbgl ODEX / Rotary Open Hole, 26.5 - 36.5mbgl Rotary Cored

Date / Time H. Depth C. Depth Water Depth Diam. Struck Rose To Behaviour Sealed Depth Type Returns Colour

04/07/2022 08:00 0.00 4.00 4.00 5.00 3.80 8.00

04/07/2022 17:00 4.10 0.00 0.00

06/07/2022 08:00

Operator: QGL Logged By: P Darby Logged Date: Rig: Commachio 600

Sheet No. 1 Of 3

m Per Page 15

All measurements in metres unless stated

Contract : Hoover Candy Factory
Client : Merthyr Tydfil County Borough Council

Dates : 6/7/22 - 7/7/22
 Location :

Job Number : Q0838
 Engineer : Redstart

Orientation & Indination: N/A
 Orientation: N/A
 Coordinates: 305734.20 E
 204232.11 N
 Co-ordinates to National Grid

Borehole No. : RBH108AR
 Core Run : B.G.L
 TCR % :
 SCR % :
 ROD % :
 Min :
 Avg :
 Max :
 FI :
 Depth :
 Type No. :
 Holes :
 Test Results :
 Depth (Thickness) :
 Legend :
 Red. Level A.O.D. :
 Depth (Thickness) :
 Dip :
 Direction :
 Fracture Set :
 Water :
 Install Backfill :
 Inclination: N/A

Run Details		Fracture Details		Samples		In situ Tests		Strata		Discontinuities			
Core Run	B.G.L	TCR %	SCR %	ROD %	Min	Avg	Max	FI	Depth	Type No. Holes	Test Results		
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
26.50 - 28.00													
27	100	8	0										
28	28.00 - 28.50												
29	87	21	21	10	58	200	6						
30.50 - 31.00	93	63	0	10	60	140	22						
Hole Progress		Water Obs		Casing		Groundwater		Flush		Remarks			
Date / Time	H. Depth	C. Depth	Water	Depth	Diam.	Struck	Rose To	Behaviour	Sealed	Depth	Type	Returns	Colour
06/07/2022 17:00	26.50	26.50		26.50	115.00								
07/07/2022 08:00	26.50	26.50											

Operator: QGL	Logged By: P Darby	Logged Date:	Equipment Used: Rig: Commachio 600
File Name: ROTARY A3, Version 2.11.000, 22/05/15 Output By: Phil Darby, Library File: C:\USERS\PHIL DARBY\ONEDRIVE - QUANTUM GEOTECHNIC LTD\QUANTUM 4.GLB.			
File Name: Newold, Surveyor: T4, 01554724880, email: enquire@quantumgeotechnic.co.uk			
Sheet No. 2 Of 3	Page 15	Page 15	All measurements in metres unless otherwise stated

Contract : Hoover Candy Factory
Client : Merthyr Tydfil County Borough Council

Dates : 6/7/22 - 7/7/22
 Location : 

Job Number : Q0838
 Engineer : Redstart

Borehole No. : RBH108AR
 Orientation & Indination: Orientation: N/A
 Inclination: N/A
 Coordinates: 305734.20 E
 204232.11 N
 Co-ordinates to National Grid

Run Details	Fracture Details			Samples			In situ Tests			Strata			Discontinuities							
Core Run	TCR %	SCR %	R&D %	Min	Avg	Max	F1	Depth	Type No. Holes	Test Results	Depth (Thickness)	Legend	Red. Level A.O.D.	Depth (Thickness)	Fracture Set	Direction	Dip	Discontinuity Description	Install Backfill	Water
31	93	63	0	10	60	140	22	30.55	C											
32	96	93	41	15	100	260	14	32.14-32.20	C5											
33	96	86	0	5	53	90	26	33.05-33.14	C6											
34	99	63	13	40	105	190	16	34.53-34.73	C7											
35	100	78	32	70	111	170	8	35.64-35.80	C8											
36	36.5							36.35-36.50	C9											
37																				
38																				
39																				
40																				
41																				
42																				
43																				
44																				
Hole Progress / Water Obs	Casing			Groundwater			Flush													
Date / Time	H. Depth	C. Depth	Water	Depth	Diam.	Struck	Rose To	Behaviour	Sealed	Depth	Type	Returns	Colour	Operator:	Logged By:	Logged Date:	Equipment Used:			
07/07/2022 17:00	36.50	26.50												QGL	P Darby		Rig: Commachio 600			
																		Sheet No. 3 Of 3		
																		m Per Page 15		
																		All measurements in metres unless otherwise stated		

Contract : Hoover Candy Factory

Client : Merthyr Tydfil County Borough Council

Borehole No.

RBH108A R

Dates : 6/7/22 - 7/7/22

Job Number : Q0838

Ground Level : 151.62 m A.O.D.
Level to Ordnance Datum

Location :

Engineer : Redstart

Coordinates: 305734.20 E
204292.11 N
Co-ordinates to National Grid



Contract : Hoover Candy Factory

Client : Merthyr Tydfil County Borough Council

Borehole No.

RBH108A R

Dates : 6/7/22 - 7/7/22

Job Number : Q0838

Ground Level : 151.62 m A.O.D.
Level to Ordnance Datum

Location :

Engineer : Redstart

Coordinates: 305734.20 E

204292.11 N

Co-ordinates to National Grid



Contract : Hoover Candy Factory Client : Merthyr Tydfil County Borough Council												Borehole No. RBH109			
Dates : 29/6/22 - 30/6/22						Job Number : Q0838				Ground Level : 156.39 m A.O.D. Level to Ordnance Datum					
Location :						Engineer : Redstart				Coordinates: 305679.58 E 204398.93 N Co-ordinates to National Grid					
m B.G.L.	Run Details				Fractures		Samples		Strata				Water	Install/ Backfill	
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	Fl	Depth	Type No. Blows	Depth (Thickness)	Description	Legend	Red. Level A.O.D.			
0									TOPSOIL - Light brown SILT with many rootlets MADE GROUND - Pinkish brown gravelly SAND. Gravel is fine to coarse angular slag and brick. Colliery Spoil - Drillers Description		156.09				
1											155.19				
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
Hole Progress / Water Obs					Casing		Groundwater				Flush				
Date / Time	H. Depth	C. Depth	Water		Depth	Diam.	Struck	Rose To	Behaviour		Sealed	Depth	Type	Returns	
29/06/2022 08:00	0.00						10.00	8.80	Medium groundwater inflow.						
Plant: Commachio 600 Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl															
		Plas Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk				Operator: QGL		Logged By: G Blades		Sheet No. 1 Of 3	m Per Page 20	All measurements in metres unless otherwise stated			

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Contract : Hoover Candy Factory Client : Merthyr Tydfil County Borough Council													Borehole No. RBH109		
Dates : 29/6/22 - 30/6/22							Job Number : Q0838 Engineer : Redstart							Ground Level : 156.39 m A.O.D. Level to Ordnance Datum	
Location :							Coordinates: 305679.58 E 204398.93 N Co-ordinates to National Grid								
m B.G.L.	Run Details				Fractures		Samples		Strata					Water	
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	FI	Depth	Type No. Blows	Depth (Thickness)	Description			Legend	Red. Level A.O.D.	
40									(6.90)	Mudstone - Drillers Description					
41															
42															
43															
44									43.30	Coal - Drillers Description			113.09		
45									(1.10)						
46															
47															
48															
49															
50															
51															
52															
53															
54															
55															
56															
57															
58															
59															
Hole Progress / Water Obs					Casing		Groundwater					Flush			
Date / Time	H. Depth	C. Depth	Water		Depth	Diam.	Struck	Rose To	Behaviour		Sealed	Depth	Type	Returns	
30/06/2022 17:00	45.00	28.00	9.00												
Plant: Commachio 600 Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl															
 Quantum Geotech Plas Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk					Operator: QGL		Logged By: G Blades		Sheet No. 3 Of 3	m Per Page 20	All measurements in metres unless otherwise stated	 AGS			

Form Name: ROTARY. Version 2.11.000, 22/05/15 Output By: Phil Darby. Library File: C:\USERS\PHIL DARBY\ONEDRIVE - QUANTUM GEOTECHNIC LTD\QUANTUM 4.GLB.

Contract : Hoover Candy Factory Client : Merthyr Tydfil County Borough Council											Borehole No. RBH110					
Dates : 27/6/22 - 28/6/22						Job Number : Q0838					Ground Level : 157.22 m A.O.D. Level to Ordnance Datum					
Location :						Engineer : Redstart					Coordinates: 305757.35 E 204474.84 N Co-ordinates to National Grid					
m B.G.L.	Run Details			Fractures		Samples		Strata								
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	FI	Depth	Type No.	Blows	Depth (Thickness)	Description	Legend	Red. Level A.O.D.			
0											Asphalt		157.12			
1							0.50	ES1		(0.10)	MADE GROUND - silty slightly sandy GRAVEL. Gravel is fine to coarse angular slag, mudstone and brick.					
2							1.00	ES2		0.10 (1.10)	Colliery Spoil - Drillers Description		156.02			
3										(4.20)						
4																
5																
6										5.40	Clay Backfill - Drillers Description		151.82			
7										(1.10)						
8										6.50	Sand and Gravel - Drillers Description		150.72			
9										(3.10)						
10										9.60	Weathered Mudstone - Drillers Description		147.62			
11										(0.40)	Mudstone and Siltstone Bands - Drillers Description		147.22			
12										10.00						
13																
14																
15																
16																
17																
18																
19																
Hole Progress / Water Obs						Casing		Groundwater					Flush			
Date / Time	H. Depth	C. Depth	Water	Depth	Diam.	Struck	Rose To	Behaviour			Sealed	Depth	Type	Returns		
27/06/2022 08:00	0.00			10.00	115.00	8.50	7.00	Medium groundwater inflow.				0.00 - 30.00	Mist	100		
Plant: Commachio 600																
Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl.																
 Plas Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk						Operator: QGL	Logged By: P Darby	Sheet No. 1 Of 2	m Per Page 20	All measurements in metres unless otherwise stated		AGS				

Contract : Hoover Candy Factory Client : Merthyr Tydfil County Borough Council												Borehole No. RBH110			
Dates : 27/6/22 - 28/6/22				Job Number : Q0838				Ground Level : 157.22 m A.O.D. Level to Ordnance Datum							
Location :				Engineer : Redstart				Coordinates: 305757.35 E 204474.84 N Co-ordinates to National Grid							
m B.G.L.	Run Details				Fractures		Samples		Strata						
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	Fl	Depth	Type No. Blows	Depth (Thickness)	Description			Legend	Red. Level A.O.D.	Water
20									Mudstone and Siltstone Bands - Drillers Description						
21									21.20 Coal - Drillers Description			136.02			
22									(1.80)						
23									23.00 Mudstone and Siltstone Bands - Drillers Description			134.22			
24															
25									(4.30)						
26															
27									27.30 Coal - Drillers Description			129.92			
28									(0.70)						
29									28.00 Mudstone - Drillers Description			129.22			
30									(2.00)						
31									30.00 Terminated at 30.0mbgl			127.22			
32															
33															
34															
35															
36															
37															
38															
39															
Hole Progress / Water Obs				Casing			Groundwater				Flush				
Date / Time	H. Depth	C. Depth	Water	Depth	Diam.	Struck	Rose To	Behaviour			Sealed	Depth	Type	Returns	
27/06/2022 17:00	30.00	10.00	14.10			23.00	14.10	Fast groundwater inflow.							
28/06/2022 08:00	30.00	10.00	14.10												
Plant: Commachio 600 Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl.															
				Plas Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk				Operator:	Logged By:	Sheet No.	m Per Page	All measurements in metres unless otherwise stated			
				QGL				P Darby	2 Of 2	20	20				
															

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Contract : Hoover Candy Factory Client : Merthyr Tydfil County Borough Council													Borehole No. RBH111		
Dates : 30/6/22 - 1/7/22							Job Number : Q0838							Ground Level : 157.28 m A.O.D. Level to Ordnance Datum	
Location :							Engineer : Redstart							Coordinates: 305654.79 E 204446.02 N Co-ordinates to National Grid	
m B.G.L.	Run Details				Fractures		Samples		Strata					Water	
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	Fl	Depth	Type No. Blows	Depth (Thickness)	Description			Legend		Red. Level A.O.D.
0						0.20	ES1	(0.30)	TOPSOIL - Brown Silt with rootlets				156.98		
1						0.50	ES2	0.30	MADE GROUD - Pinkish brown very sandy Gravel.				156.08		
2						1.00	ES3	(0.90)	Gravel is fine to coarse angular slag and brick						
3								1.20	Colliery Spoil - Drillers Description						
4								(3.30)							
5								4.50	Very Soft / Void. (No arisings)				152.78		
6								(2.50)							
7								7.00	Dense Gravel and Boulders - Drillers Description				150.28		
8								(3.00)							
9								8.94	ESEW1						
10								10.00	Wet Sand and Gravel - Drillers Description				147.28		
11								(14.00)							
12								24.00	Siltstone Boulders - Drillers Description				133.28		
Hole Progress / Water Obs					Casing		Groundwater					Flush			
Date / Time	H. Depth	C. Depth	Water		Depth	Diam.	Struck	Rose To	Behaviour			Sealed	Depth	Type	Returns
30/06/2022 08:00	0.00						10.00	8.20	Medium groundwater inflow at 10.0mbgl				0.00 - 4.50	Mist	100
01/07/2022 08:00	20.50	20.50					22.00	9.20	Fast groundwater inflow.				4.50 - 7.00	Mist	0
													7.00 - 39.10	Mist	100
Plant: Commachio 600 Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl.															
 Quantum Geotech		Plas Newydd Swansea Tel: 01544744880 email: enquiries@quantumgeotechnic.co.uk					Operator: QGL		Logged By: P Darby		Sheet No. 1 Of 2	m Per Page 25	All measurements in metres unless otherwise stated		 AGS

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Contract : Hoover Candy Factory										Borehole No. RBH112 CP				
Client : Merthyr Tydfil County Borough Council														
Dates : 27/6/22 - 29/6/22					Job Number : Q0838					Ground Level : 163.20 m A.O.D. Level to Ordnance Datum				
Location :					Engineer : Redstart					Coordinates: 305660.77 E 204594.79 N Co-ordinates to National Grid				
m B.G.L.	Samples		In situ Test Results			Strata					Legend	Red. Level A.O.D.		
0	Depth	Type No.	Blows	Depth	Test Results	Depth (Thickness)	Description					Water		
0.10 - 0.55	B1						Scrub over dense black to dark grey slightly clayey gravelly fine to coarse SAND. Gravel is angular to subangular fine to coarse of brick, glass and slag. (MADE GROUND)							
0.20	ES1						at 0.2mbgl PID = 0ppm							
0.50							at 0.5mbgl PID = 0ppm							
0.60 - 1.05	ES2						at 1.0mbgl PID = 0ppm							
1.00	B2													
1.20 - 1.65	ES3			1.20	SPT (C) 18 (3-4-3-5-5-5)	(2.70)								
2.50	B													
2.70 - 3.15	B3			2.70										
3.90 - 4.15	ES4				SPT (C) 8 (2-2-2-2-2-2)	2.70	at 2.5mbgl PID = 0ppm							
4.00	B4													
4.20 - 4.65	ES5			2.70										
5.30 - 5.65	B5													
5.50	ES6													
5.70 - 6.15	B			4.20	SPT (C) 7 (2-1-2-2-1-2)	(1.20)	Loose black silty gravelly fine to coarse SAND. Gravel is angular to subangular fine to coarse of brick, coal and slag. (MADE GROUND)							
6	B6													
5.30 - 5.65	ES7													
5.50	B7													
5.70 - 6.15	ES8			5.70	SPT (C) 7 (3-3-2-2-1-2)	(3.90)	Loose black gravelly fine to coarse SAND. Gravel is angular to subangular of fine coal. (MADE GROUND - COAL DUST)							
6	B8													
7														
7.00	ES9				SPT (C) 16 (4-4-5-3-3-5)	(5.40)	Dense grey to dark grey clayey sandy angular to subangular fine to coarse GRAVEL of mudstone. (MADE GROUND - COLLIERY SPOIL)							
7.20 - 7.65	B9			7.20										
8														
8.50	ES10						at 7.0mbgl PID = 0ppm							
8.70 - 9.15	B10			8.70	SPT (C) 17 (5-4-4-4-5-4)	(4.50)								
9														
9.90 - 10.15	B						at 8.5mbgl PID = 0ppm							
	Hole Progress / Water Obs				Casing		Groundwater					Chiselling		
Date / Time	H. Depth	C. Depth	Water	Depth	Cas. Dia.	Struck	Rose To	Behaviour			Sealed	From	To	Hours
27/06/2022 08:00	0.00											1.70	1.90	0:30

Equipment / plant used: Dando 2000

Equipment / plant used: Dando 2000
Remarks: 1.) PAS survey undertaken prior to breaking ground. Hand pit dug to 1.20m,
2.) Rotary follow on from 13.00m.
3.) No Groundwater Encountered



Plas Newydd
Swansea
Tel: 01554744880
email: enquiries@quantummechatronic.co.uk

Operator:

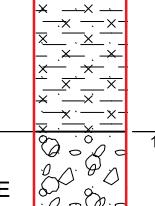
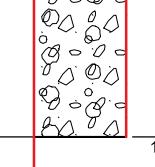
Logged By.

Sheet No. 1 Of 2

m Per
Page

All measurements in metres unless otherwise stated



Contract : Hoover Candy Factory Client : Merthyr Tydfil County Borough Council								Borehole No. RBH112 CP					
Dates : 27/6/22 - 29/6/22 Location :				Job Number : Q0838 Engineer : Redstart				Ground Level : 163.20 m A.O.D. Level to Ordnance Datum					
								Coordinates: 305660.77 E 204594.79 N Co-ordinates to National Grid					
m B.G.L.	Samples		In situ Test Results		Strata				Red. Level A.O.D.	Water			
	Depth	Type No. Blows	Depth	Test Results	Depth (Thickness)	Description							
10	10.00 10.20 - 10.65	B11 ES9 SPT1 B12	10.20	SPT (S) 18 (1-1-2-2-6-8)	9.90 (1.40)	Soft greyish brown slightly sandy silty CLAY. (ALLUVIUM) at 10.0mbgl PID = 0ppm				153.30 (1.40)			
11	11.70 - 12.15	B13	11.70	SPT (C) 48 (6-16-9-11-11-17)	11.30 (1.70)	Very dense greyish brown sandy subangular to subrounded fine to coarse GRAVEL of mixed lithologies with a medium cobble content of subrounded sandstone. (RIVER TERRACE DEPOSITS)				151.90 (1.70)			
12	14.50 - 14.60	C			13.00	Terminated at 13.0mbgl upon refusal				150.20			
13													
14													
15													
16													
17													
18													
19													
Hole Progress / Water Obs				Casing		Groundwater				Chiselling			
Date / Time	H. Depth	C. Depth	Water	Depth	Cas. Dia.	Struck	Rose To	Behaviour		Sealed	From	To	Hours
27/06/2022 17:00	11.70	9.20		12.40	200.00						11.30	11.50	0:30
28/06/2022 08:00	11.70	9.20	10.80								12.80	13.00	1:00
28/06/2022 17:00	13.00	12.40	10.70										
Equipment / plant used: Dando 2000													
Remarks: 1.) PAS survey undertaken prior to breaking ground. Hand pit dug to 1.20m, 2.) Rotary follow on from 13.00m. 3.) No Groundwater Encountered													
Quantum Geotech		Plas Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk				Operator: NF & MW		Logged By: T.Goodrick		Sheet No. 2 Of 2	m Per Page 10	All measurements in metres unless otherwise stated	
													

Equipment / plant used: Dando 2000

Equipment / plant used: Dando 2000
Remarks: 1.) PAS survey undertaken prior to breaking ground. Hand pit dug to 1.20m,
2.) Rotary follow on from 13.00m.
3.) No Groundwater Encountered



Plas Newydd
Swansea
Tel: 01554744880
email: enquiries@quantumgeotechnic.co.uk

Operator:

Logged By.

Sheet No
2 Of 2

m Per
Page

All measurements in metres unless otherwise stated

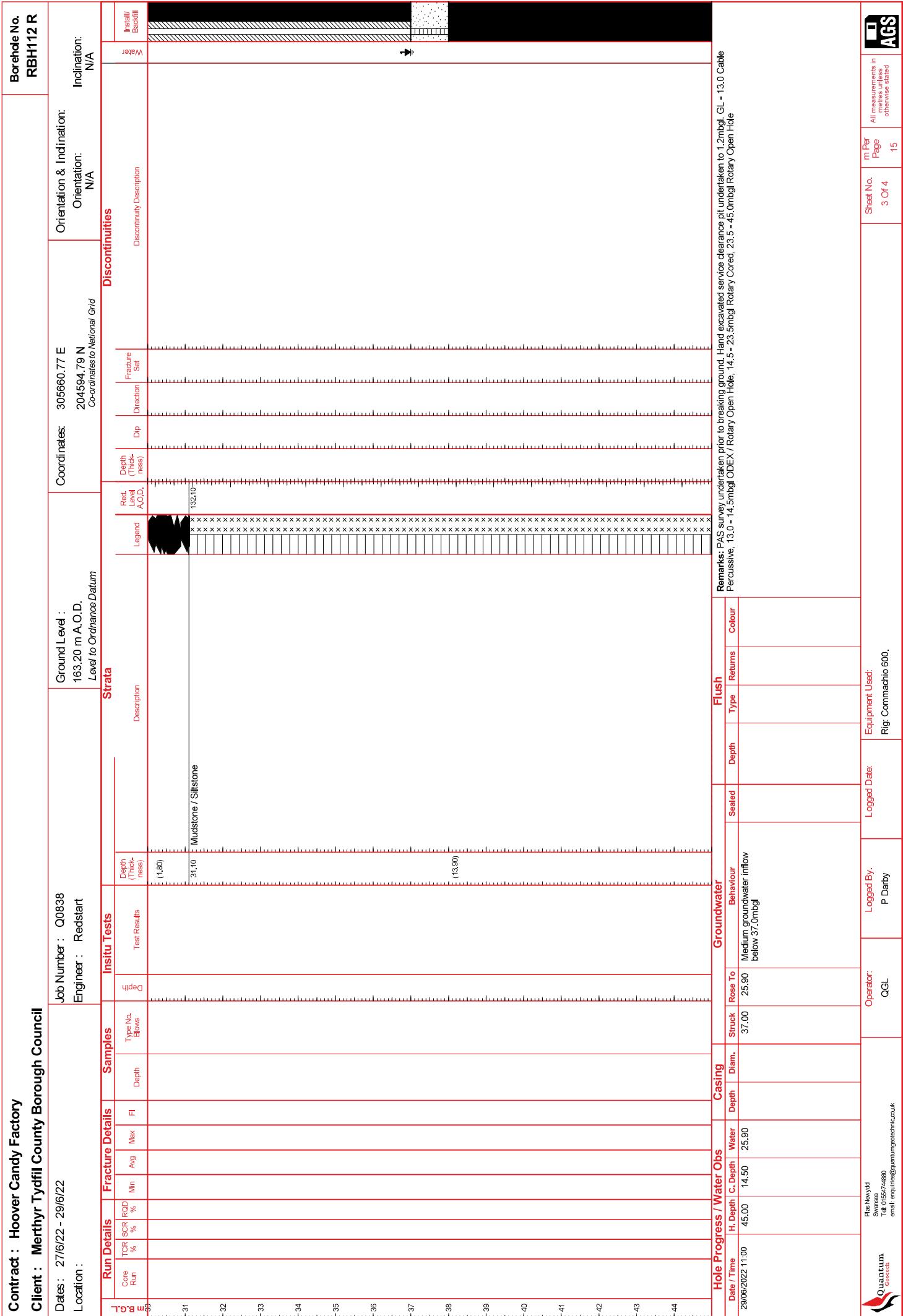


Contract : Hoover Candy Factory
Client : Merthyr Tydfil County Borough Council

Dates : 27/6/22 - 29/6/22
 Location :

Job Number : Q0838
 Engineer : Redstart

Borehole No. RBH112 R
Orientation & Indination: N/A
Coordinates: 305660.77 E
 204594.79 N
Co-ordinates to National Grid



Contract : Hoover Candy Factory
Client : Merthyr Tydfil County Borough Council

Dates : 27/6/22 - 29/6/22
 Location :

Job Number : Q0838
 Engineer : Redstart

Borehole No. **RBH112 R**
 Orientation & Indination: Orientation: N/A
 Inclination: N/A
 Coordinates: 305660.77 E
 204534.79 N
 Co-ordinates to National Grid

Run Details		Fracture Details		Samples		In situ Tests		Strata		Discontinuities					
Core Run	TCR %	SCR %	R&D %	Min	Avg	Max	F1	Depth	Type No.	Bore	Test Results	Depth (Thickness)	Fracture Set	Direction	Install/ Backfill
46															
47															
48															
49															
50															
51															
52															
53															
54															
55															
56															
57															
58															
59															
Hole Progress / Water Obs		Casing		Groundwater		Flush		Equipment Used:				All measurements in metres unless stated			
Date / Time	H. Depth	C. Depth	Water Depth	Diam.	Struck	Rose To	Behaviour	Sealed	Depth	Type	Returns	Colour	Sheet No.	m Per Page	Page 15
													4 Of 4		

Quantum Geotech
 Hes Newydd
 Swansea
 Tel: 01554 724880
 email: enquiries@quantumgeotechnic.co.uk

Operator: QGL
 Logged By: P Darby
 Logged Date: Rig: Commachio 600.

AGS

Contract : Hoover Candy Factory

Client : Merthyr Tydfil County Borough Council

Borehole No.

RBH112 R

Dates : 27/6/22 - 29/6/22

Job Number : Q0838

Ground Level : 163.20 m A.O.D.
Level to Ordnance Datum

Location :

Engineer : Redstart

Coordinates: 305660.77 E

204594.79 N

Co-ordinates to National Grid



Contract : Hoover Candy Factory

Client : Merthyr Tydfil County Borough Council

Borehole No.

RBH112 R

Dates : 27/6/22 - 29/6/22

Job Number : Q0838

Ground Level : 163.20 m A.O.D.
Level to Ordnance Datum

Location :

Engineer : Redstart

Coordinates: 305660.77 E

204594.79 N

Co-ordinates to National Grid



Contract : Hoover Candy Factory Client : Merthyr Tydfil County Borough Council									Borehole No. RBH113A CP			
Dates : 5/7/22 - 5/7/22			Job Number : Q0838				Ground Level : 157.10 m A.O.D. Level to Ordnance Datum					
Location :			Engineer : Redstart				Coordinates: 305533.01 E 204519.79 N Co-ordinates to National Grid					
m B.G.L.	Samples		Insitu Test Results		Strata							
	Depth	Type No. Blows	Depth	Test Results	Depth (Thick- ness)	Description			Red. Level A.O.D.			
0	0.20 - 0.30	B1			(0.10)	Asphalt			(0.10)			
	0.50 - 0.60	B2			0.10	MADE GROUND - Reddish brown sandy GRAVEL. Gravel is fine to coarse angular brick and slag.			157.00			
	1.00 - 1.20	B B3			(0.30)	MADE GROUND - Black silty slightly sandy GRAVEL. Gravel is fine to coarse angular coal, clinker and mudstone.			(0.30)			
	1.50 - 2.00	B4	1.50	SPT (S) 6 (1-1-1-2-2-1)	0.40 (1.10)	(1.10)			156.70			
	2.50 - 3.00	B B5			1.50	MADE GROUND - Grey very clayey GRAVEL. Gravel is fine to coarse angular mudstone. (COLLIERY SPOIL)			(1.10)			
	3.00 - 3.50	B6	3.00	SPT (S) 6 (2-2-2-1-1-2)	(2.50)				155.60			
	4.00 - 4.50	B7			4.00				(2.50)			
	4.50 - 5.00	B8	4.50	SPT (S) 18 (5-5-6-4-4-4)	(1.50)	MADE GROUND - Dark grey slightly silty sandy GRAVEL with medium cobble content. Gravel is fine to coarse angular slag, sandstone and mudstone. Cobbles are sub-angular slag.			153.10			
	5.50 - 6.00	B B9			5.50				(1.50)			
	6.00			SPT (S) 65 (2-2-3-5-17-40)	(1.00)	Soft brown gravelly CLAY. Gravel is fine to coarse sub-rounded angular sandstone.			151.60			
					6.50	Terminated upon refusal at 6.5mbgl			(1.00)			
									150.60			
Hole Progress / Water Obs				Casing		Groundwater			Chiselling			
Date / Time	H. Depth	C. Depth	Water	Depth	Cas. Dia.	Struck	Rose To	Behaviour	Sealed	From	To	Hours
				6.50	200.00							
Equipment / plant used: Pilcon 150 Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl. No groundwater encountered.												
	Plas Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk				Operator: Wessex Drilling	Logged By: P Darby	Sheet No. 1 Of 1	m Per Page 10	All measurements in metres unless otherwise stated			

Contract : Hoover Candy Factory Client : Merthyr Tydfil County Borough Council											Borehole No. RBH113A R				
Dates : 1/7/22 - 5/7/22						Job Number : Q0838					Ground Level : 157.10 m A.O.D. Level to Ordnance Datum				
Location :						Engineer : Redstart					Coordinates: 305533.01 E 204519.79 N Co-ordinates to National Grid				
m B.G.L.	Run Details			Fractures		Samples		Strata							
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	FI	Depth	Type No. Blows	Depth (Thickness)	Description	Legend	Red. Level A.O.D.			
0										Progressed using Cable Percussive Drilling Techniques					
1															
2															
3															
4															
5															
6															
7										6.50 Gravel and Boulders - Drillers Description	150.60	1			
8										(1.80)		2			
9										8.30 Sand and Gravel - Drillers Description	148.80	3			
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															
Hole Progress / Water Obs				Casing			Groundwater				Flush				
Date / Time		H. Depth	C. Depth	Water	Depth	Diam.	Struck	Rose To	Behaviour		Sealed	Depth	Type	Returns	
01/07/2022 08:00		0.00			6.00	200.00	9.00	7.30	Medium groundwater inflow at 9.0mbgl			0.00 - 47.00	Mist	100	
01/07/2022 17:00		6.50	6.00			25.00		7.90	Medium groundwater inflow at 25.0mbgl						
04/07/2022 08:00		6.00													
Plant: Commachio 600															
Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl. GL - 6.5 Cable Percussive, 6.5 - 47.0mbgl ODEX / Rotary Open Hole															
Pias Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk							Operator: QGL		Logged By: P Darby		Sheet No. 1 Of 2	m Per Page 25	All measurements in metres unless otherwise stated		
															

Contract : Hoover Candy Factory Client : Merthyr Tydfil County Borough Council												Borehole No. RBH113A R	
Dates : 1/7/22 - 5/7/22						Job Number : Q0838						Ground Level : 157.10 m A.O.D. Level to Ordnance Datum	
Location :						Engineer : Redstart						Coordinates: 305533.01 E 204519.79 N Co-ordinates to National Grid	
m B.G.L.	Run Details			Fractures		Samples		Strata				Water	
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	Fl	Depth	Type No. Blows	Depth (Thickness)	Description	Legend		Red. Level A.O.D.
25									Sand and Gravel - Drillers Description				
26									Siltstone Boulders - Drillers Description			130.90	
27									(1.60)				
28									Mudstone - Drillers Description			129.30	
29									(2.30)				
30									30.10 Coal - Drillers Description			127.00	
31									(1.10)				
32									31.20 Mudstone - Drillers Description			125.90	
33									(0.80)				
34									32.00 Coal - Drillers Description			125.10	
35									(1.00)				
36									33.00 Mudstone - Drillers Description			124.10	
37									(0.40)				
38									Coal - Drillers Description			123.70	
39									33.40 Mudstone - Drillers Description			123.00	
40									(0.70)				
41									Coal - Drillers Description			122.70	
42									(0.30)				
43									34.10 Mudstone - Drillers Description			121.20	
44									(1.50)				
45									34.40				
46									(8.70)				
47									35.90				
48													
49													
Hole Progress / Water Obs				Casing			Groundwater				Flush		
Date / Time	H. Depth	C. Depth	Water	Depth	Diam.	Struck	Rose To	Behaviour		Sealed	Depth	Type	Returns
04/07/2022 16:00	47.00	28.00	7.90	28.00	115.00								
05/07/2022 08:00	47.00	28.00	8.00										
Plant: Commachio 600 Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl. GL - 6.5 Cable Percussive, 6.5 - 47.0mbgl ODEX / Rotary Open Hole													
 Quantum Geotech Plas Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk				Operator: QGL		Logged By: P Darby		Sheet No. 2 Of 2	m Per Page 25	All measurements in metres unless otherwise stated			 AGS

Form Name: ROTARY. Version 2.11.000, 22/05/15 Output By: Phil Darby. Library File: C:\USERS\PHIL DARBY\ONEDRIVE - QUANTUM GEOTECHNIC LTD\QUANTUM 4.GLB.

Contract : Hoover Candy Factory Client : Merthyr Tydfil County Borough Council									Borehole No. RBH114 CP			
Dates : 5/7/22 - 6/7/22				Job Number : Q0838				Ground Level : 161.28 m A.O.D. Level to Ordnance Datum				
Location :				Engineer : Redstart				Coordinates: 305559.13 E 204604.39 N Co-ordinates to National Grid				
Samples Depth		Type No. Blows	Insitu Test Results Depth		Strata Depth (Thickness)				Legend Red. Level A.O.D.			
0 0.20 - 0.50 0.20 0.50 - 1.00 0.50		B1 ES1 B2 ES2	Depth		Description				Water			
1 1.00 - 1.20 1.00		B B3 ES3	1.50		SPT (S) 11 (7-6-4-3-2-2)				(0.20) 161.08 (0.40) 160.68			
2 2.00 - 2.50 2.00		B4 ES4	1.50		(4.10)				(4.10)			
3 3.00		B B5	3.00		SPT (S) 5 (2-1-1-1-2-1)							
4 4.00		ES6	3.00									
5 4.50 4.50 - 5.00		SPT3 B6	4.50		SPT (S) 7 (1-1-1-2-2-2)				156.58			
6 5.00		ES7	4.50		4.70							
7 5.50 - 6.00		B7	5.00		Dense grey to dark grey sandy angular to subangular fine to coarse GRAVEL of mudstone. (COLLIERY SPOIL)							
8 6.00 6.00 - 6.50 6.00		SPT4 B8 ES8	6.00		SPT (S) 8 (2-2-2-2-2-2)				(2.80)			
9 7.00 - 7.50 7.00		B9 ES9	6.00		(2.80)							
10 7.50		SPT5	7.50		SPT (S) 50/70mm (8-50/70mm--)				7.50			
11 8.00 - 8.50 8.00		B B10 ES10	7.50		Very dense black sandy subangular to subrounded fine to coarse GRAVEL of sandstone with a medium cobble content of subrounded sandstone. (RIVER TERRACE DEPOSITS)				153.78			
12 8.50			8.00		SPT (C) 50/70mm (8-9-50/70mm--)				(1.30)			
13 8.80			8.80		SPT (C) 50/40mm (20-50/40mm--)				8.80			
Hole Progress / Water Obs					Casing			Groundwater				
Date / Time		H. Depth	C. Depth	Water	Depth	Cas. Dia.	Struck	Rose To	Behaviour			
05/07/2022 08:00		0.00			7.50	200.00						
05/07/2022 17:00		4.50	3.00									
06/07/2022 08:00		4.50	3.00									
06/07/2022 17:00		8.80	7.50									
Equipment / plant used: Pilcon 1500 Remarks: 1.) PAS survey undertaken prior to breaking ground. Hand pit dug to 1.20m. 2.) No Groundwater Encountered									Chiselling			
		Plas Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk			Operator: JW & AB		Logged By: T.Goodrick		Sheet No.	m Per Page		
									1 Of 1	10		
All measurements in metres unless otherwise stated												

Contract : Hoover Candy Factory											Borehole No.	
Client : Merthyr Tydfil County Borough Council											RBH114 R	
Dates : 7/7/22 - 8/7/22						Job Number : Q0838					Ground Level : 161.28 m A.O.D. Level to Ordnance Datum	
Location :						Engineer : Redstart					Coordinates: 305559.13 E 204604.39 N Co-ordinates to National Grid	
m B.G.L.	Run Details			Fractures		In-situ Tests		Samples		Strata		
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	FI	Depth	Test Results		Depth	Type No.	Blows
0												
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
Hole Progress / Water Obs						Casing		Groundwater			Flush	
Date / Time		H. Depth	C. Depth	Water		Depth	Diam.	Struck	Rose To	Behaviour		Depth
05/07/2022 08:00		0.00				7.50	200.00	13.00	11.80	Medium groundwater inflow at 13.0mbgl		0.00 - 39.00
05/07/2022 17:00		4.50	3.00			23.50	115.00					Mist
06/07/2022 08:00		4.50	3.00									100
06/07/2022 17:00		8.80	7.50									

Plant: Commachio 600

Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl. GL - 8.8mbgl Cable Percussive Drilling, 8.8 - 39.0mbgl ODEX / Open Hole Drilling

Contract : Hoover Candy Factory Client : Merthyr Tydfil County Borough Council													Borehole No. RBH114 R			
Dates : 7/7/22 - 8/7/22				Job Number : Q0838							Ground Level : 161.28 m A.O.D. Level to Ordnance Datum					
Location :				Engineer : Redstart							Coordinates: 305559.13 E 204604.39 N Co-ordinates to National Grid					
m B.G.L.	Run Details				Fractures		Insitu Tests		Samples		Strata				Water	Install/ Backfill
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	Fl	Depth	Test Results	Depth	Type No. Blows	Depth (Thickness)	Description	Legend	Red. Level A.O.D.		
25																
26											Mudstone and Siltstone - Driller's Description	x x x x x x x x x x x x x x x x				
27											(8.40)					
28																
29																
30																
31											31.20 Coal - Driller's Description		130.08			
32											(1.70)					
33											32.90 Mudstone - Driller's Description		128.38			
34											(3.10)					
35																
36											36.00 Siltstone - Driller's Description	x x x x x x x x	125.28			
37											(3.00)					
38																
39											39.00 Terminated at 39.0mbgl		122.28			
40																
41																
42																
43																
44																
45																
46																
47																
48																
49																
Hole Progress / Water Obs					Casing		Groundwater				Flush					
Date / Time	H. Depth	C. Depth	Water		Depth	Diam.	Struck	Rose To	Behaviour		Sealed	Depth	Type	Returns		
							30.00	13.60	Fast groundwater inflow at 30.0mbgl							
Plant: Commachio 600 Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl. GL - 8.8mbgl Cable Percussive Drilling, 8.8 - 39.0mbgl ODEX / Open Hole Drilling																
		Plas Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk				Operator: QGL		Logged By: P Darby		Sheet No. 2 Of 2	m Per Page 25	All measurements in metres unless otherwise stated				

Form Name: ROTARY. Version 2.11.000, 22/05/15 Output By: Phil Darby. Library File: C:\USERS\PHIL DARBY\ONEDRIVE - QUANTUM GEOTECHNIC LTD\QUANTUM 4.GLB.

Contract : Hoover Candy Factory Client : Merthyr Tydfil County Borough Council												Borehole No. IBH102			
Dates : 11/7/22 - 11/7/22						Job Number : Q0838				Ground Level : 151.61 m A.O.D. Level to Ordnance Datum					
Location :						Engineer : Redstart				Coordinates: 305698.56 E 204297.88 N Co-ordinates to National Grid					
m B.G.L.	Run Details				Fractures		Samples		Strata				Water	Install/ Backfill	
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	Fl	Depth	Type No. Blows	Depth (Thickness)	Description					Legend
0						0.30	ES1	(0.20)	Concrete				151.41		
1						0.50	ES2	0.20	Colliery Spoil - Drillers Description						
2						1.00	ES3	at 0.3mbgl PID = 0ppm							
3						1.20 - 2.70	ES4	(2.90)	at 0.5mbgl PID = 0ppm						
4									at 1.0mbgl PID = 0ppm						
5									at 1.2mbgl PID = 0ppm						
6									at 2.7mbgl PID = 0ppm						
7									Gravel and Boulders - Drillers Description				148.51		
8														1	
9									at 4.2mbgl PID = 0ppm					2	
10									Sand and Gravel - Drillers Description				146.51		
11									at 5.7mbgl PID = 0ppm						
12									at 7.2mbgl PID = 0ppm						
13									at 8.7mbgl PID = 0ppm						
14									at 10.2mbgl PID = 0ppm						
15									at 11.7mbgl PID = 0ppm						
16									at 13.2mbgl PID = 0ppm						
17									at 14.7mbgl PID = 0ppm						
18									at 17.7mbgl PID = 0ppm						
19															
Hole Progress / Water Obs					Casing		Groundwater				Flush				
Date / Time	H. Depth	C. Depth	Water		Depth	Diam.	Struck	Rose To	Behaviour		Sealed	Depth	Type	Returns	
							5.00 14.00	3.90 8.60	Medium groundwater inflow at 5.0mbgl Fast groundwater inflow at 14.0mbgl			0.00 - 30.00	Mist	100	
Plant: Commachio 600 Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl.															
 Quantum Geotech Plas Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk				Operator: QGL			Logged By: P Darby		Sheet No. 1 Of 2	m Per Page 20	All measurements in metres unless otherwise stated				

Form Name: ROTARY. Version 2.11.000, 22/05/15 Output By: Phil Darby. Library File: C:\USERS\PHIL DARBY\ONEDRIVE - QUANTUM GEOTECHNIC LTD\QUANTUM 4.GLB.

Contract : Hoover Candy Factory											Borehole No. IBH102				
Client : Merthyr Tydfil County Borough Council															
Dates : 11/7/22 - 11/7/22						Job Number : Q0838					Ground Level : 151.61 m A.O.D. Level to Ordnance Datum				
Location :						Engineer : Redstart					Coordinates: 305698.56 E 204297.88 N Co-ordinates to National Grid				
m B.G.L.	Run Details			Fractures		Samples		Strata					Water		
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	FI	Depth	Type No. Blows	Depth (Thickness)	Description				Legend	Red. Level A.O.D.
20									Sand and Gravel - Drillers Description						
21															
22															
23															
24															
25															
26									26.10 Mudstone - Drillers Description			125.51			
27									(1.30)						
28									27.40 Coal - Drillers Description			124.21			
29									(1.20)						
30									28.60 Mudstone - Drillers Description			123.01			
31									(1.40)						
32									30.00 Terminated at 30.0mbgl			121.61			
33															
34															
35															
36															
37															
38															
39															
Hole Progress / Water Obs				Casing		Groundwater					Flush				
Date / Time	H. Depth	C. Depth	Water	Depth	Diam.	Struck	Rose To	Behaviour			Depth	Type	Returns		
				27.00	115.00										
Plant: Commachio 600															
Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl.															
 Pias Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk				Operator: QGL		Logged By: P Darby		Sheet No. 2 Of 2	m Per Page 20	All measurements in metres unless otherwise stated					

Plant: Commachio 600

Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl.

Contract : Hoover Candy Factory											Borehole No. IBH103			
Client : Merthyr Tydfil County Borough Council														
Dates : 14/7/22 - 15/7/22						Job Number : Q0838					Ground Level : 151.73 m A.O.D. Level to Ordnance Datum			
Location :						Engineer : Redstart					Coordinates: 305632.05 E 204236.96 N Co-ordinates to National Grid			
m B.G.L.	Run Details			Fractures		Samples		Strata						Water
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	Fl	Depth	Type No. Blows	Depth (Thickness)	Description			Legend	
0														
1														
2														
3														
4														
5														
6														
7														
8														
9														
Hole Progress / Water Obs					Casing		Groundwater					Flush		
Date / Time	H. Depth	C. Depth	Water		Depth	Diam.	Struck	Rose To	Behaviour			Depth	Type	Returns
							8.00					0.00 - 28.50	Mist	100
Plant: Commachio 450 Remarks: 1.) PAS survey undertaken prior to breaking ground. Hand pit dug to 1.00m, 2.) Rotary openhole from 5.00m.														
 Pias Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk							Operator: QGL	Logged By: G Blades	Sheet No. 1 Of 3	m Per Page 10	All measurements in metres unless otherwise stated			

Contract : Hoover Candy Factory												Borehole No. IBH103		
Client : Merthyr Tydfil County Borough Council														
Dates : 14/7/22 - 15/7/22						Job Number : Q0838						Ground Level : 151.73 m A.O.D. Level to Ordnance Datum		
Location :						Engineer : Redstart						Coordinates: 305632.05 E 204236.96 N Co-ordinates to National Grid		
m B.G.L.	Run Details			Fractures	Samples		Strata						Red. Level A.O.D.	Water
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	Fl	Depth	Type No.	Blows	Depth (Thickness)	Description			
10						10.00	ES9			Dense brown sandy subangular to subrounded fine to coarse GRAVEL of mixed lithologies with a medium cobble content. (RIVER TERRACE DEPOSITS) at 10.0mbgl PID = 0ppm				
11						11.50	ES10			at 11.0mbgl PID = 0ppm				
12						13.00	ES11			at 13.0mbgl PID = 0ppm				
13						14.50	ES12			at 14.5mbgl PID = 0ppm				
14						16.00	ES13			(20.70)				
15						16.00	ES13			at 16.0mbgl PID = 0ppm				
16						17.50	ES14			at 17.5mbgl PID = 0ppm				
17						19.00	ES15			at 19.0mbgl PID = 0ppm				
18														
19														
Hole Progress / Water Obs						Casing		Groundwater				Flush		
Date / Time	H. Depth	C. Depth	Water	Depth	Diam.	Struck	Rose To	Behaviour			Sealed	Depth	Type	Returns
						17.00								
Plant: Commachio 450														
Remarks: 1.) PAS survey undertaken prior to breaking ground. Hand pit dug to 1.00m, 2.) Rotary openhole from 5.00m.														
 Plas Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk						Operator: QGL	Logged By: G Blades	Sheet No. 2 Of 3	m Per Page 10	All measurements in metres unless otherwise stated				

Contract : Hoover Candy Factory											Borehole No. IBH103			
Client : Merthyr Tydfil County Borough Council														
Dates : 14/7/22 - 15/7/22						Job Number : Q0838					Ground Level : 151.73 m A.O.D. Level to Ordnance Datum			
Location :						Engineer : Redstart					Coordinates: 305632.05 E 204236.96 N Co-ordinates to National Grid			
m B.G.L.	Run Details			Fractures		Samples		Strata					Water	
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	Fl	Depth	Type No. Blows	Depth (Thickness)	Description				Legend
20														
21														
22														
23														
24														
25														
26														
27														
28														
29														
Hole Progress / Water Obs						Casing		Groundwater				Flush		
Date / Time	H. Depth	C. Depth	Water			Depth	Diam.	Struck	Rose To	Behaviour	Sealed	Depth	Type	Returns
						26.70	115.00	24.00						
Plant: Commachio 450														
Remarks: 1.) PAS survey undertaken prior to breaking ground. Hand pit dug to 1.00m, 2.) Rotary openhole from 5.00m.														
 Pias Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk								Operator: QGL	Logged By: G Blades	Sheet No. 3 Of 3	m Per Page 10	All measurements in metres unless otherwise stated		

Plant: Commachio 450

Plant: Commachio 450
Remarks: 1.) PAS survey undertaken prior to breaking ground. Hand pit dug to 1.00m, 2.) Rotary openhole from 5.00m.



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All measurements in metres unless otherwise stated



Contract : Hoover Candy Factory

Client : Merthyr Tydfil County Borough Council

Borehole No.

IBH103

Dates : 14/7/22 - 15/7/22

Job Number : Q0838

Ground Level : 151.73 m A.O.D.
Level to Ordnance Datum

Location :

Engineer : Redstart

Coordinates: 305632.05 E

204236.96 N

Co-ordinates to National Grid



Plant: Commachio MC600

Remarks: 1.) PAS survey undertaken prior to breaking ground. Hand pit dug to 1.20m, 2.) Rotary openhole from 5.00m.



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Plant: Commachip MC600

Plant: Comminco MC800
Remarks: 1.) PAS survey undertaken prior to breaking ground. Hand pit dug to 1.20m, 2.) Rotary openhole from 5.00m.



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Swansea
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All measurements in metres unless otherwise stated



Contract : Hoover Candy Factory											Borehole No.		
Client : Merthyr Tydfil County Borough Council											IBH105		
Dates : 8/7/22 - 9/7/22						Job Number : Q0838					Ground Level : 151.80 m A.O.D. Level to Ordnance Datum		
Location :						Engineer : Redstart					Coordinates: 305831.49 E 204088.05 N Co-ordinates to National Grid		
m B.G.L.	Run Details			Fractures		Samples		Strata					Water
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	FI	Depth	Type No.	Blows	Depth (Thickness)	Description	Legend	
0							0.20 - 0.50	B1	(0.25)	Concrete		151.55	
1							0.30	ES1	0.25	MADE GROUND - Purplish brown and purple sandy			
2							0.50 - 0.80	B		GRAVEL with medium cobble content. Gravel is fine to			
3							0.50	B2		coarse sub-angular slag. Cobbles are sub-angular slag.			
4							0.80 - 1.00	ES2		at 1.2mbgl PID = 0ppm			
5							1.00 - 4.80	ES3					
6							1.00	B1					
7							1.20 - 1.40	ES4					
8							2.70 - 3.00	ES5	(4.55)	at 2.7mbgl PID = 0ppm			
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
Hole Progress / Water Obs				Casing		Groundwater					Flush		
Date / Time	H. Depth	C. Depth	Water	Depth	Diam.	Struck	Rose To	Behaviour			Depth	Type	Returns
						8.00					0.00 - 32.10	Mist	100
						14.00							
Plant: Commachio 600 Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl. Dynamic Samples 1.2 - 5.15mbgl (refusal). ODEX / Rotary openhole from 5.15mbgl													
 Quantum Geotech Pias Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk						Operator:	QGL	Logged By:	P Darby	Sheet No.	m Per Page	All measurements in metres unless otherwise stated	AGS
										1 Of 2	20		

Plant: Commachio 600

Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl. Dynamic Samples 1.2 - 5.15mbgl (refusal). ODEX / Rotary openhole from 5.15mbgl

Contract : Hoover Candy Factory											Borehole No.				
Client : Merthyr Tydfil County Borough Council											IBH105				
Dates : 8/7/22 - 9/7/22						Job Number : Q0838					Ground Level : 151.80 m A.O.D. Level to Ordnance Datum				
Location :						Engineer : Redstart					Coordinates: 305831.49 E 204088.05 N Co-ordinates to National Grid				
m B.G.L.	Run Details			Fractures		Samples		Strata					Water		
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	FI	Depth	Type No. Blows	Depth (Thickness)	Description				Legend	Red. Level A.O.D.
20									Sand and Gravel - Drillers Description						
21									at 20.7mbgl PID = 0ppm						
22									at 22.2mbgl PID = 0ppm						
23									at 23.7mbgl PID = 0ppm						
24									at 25.2mbgl PID = 0ppm						
25									at 26.7mbgl PID = 0ppm						
26															
27															
28								28.00	Sandstone - Drillers Description			123.80			
29								(1.20)							
30								29.20	Coal - Drillers Description			122.60			
31								(0.90)							
32								30.10	Mudstone - Drillers Description			121.70			
33								(1.10)							
34								31.20	Terminated at 31.2mbgl			120.60			
35															
36															
37															
38															
39															
Hole Progress / Water Obs				Casing		Groundwater					Flush				
Date / Time	H. Depth	C. Depth	Water	Depth	Diam.	Struck	Rose To	Behaviour			Depth	Type	Returns		
				28.50	115.00										
Plant: Commachio 600															
Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl. Dynamic Samples 1.2 - 5.15mbgl (refusal). ODEX / Rotary openhole from 5.15mbgl															
 Pias Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk						Operator: QGL	Logged By: P Darby	Sheet No. 2 Of 2	m Per Page 20	All measurements in metres unless otherwise stated					

Plant: Commachio 600

Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl. Dynamic Samples 1.2 - 5.15mbgl (refusal). ODEX / Rotary openhole from 5.15mbgl



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Measurements in metres unless otherwise stated



Contract : Hoover Candy Factory Client : Merthyr Tydfil County Borough Council													Borehole No. IBH106	
Dates : 12/7/22 - 13/7/22							Job Number : Q0838 Engineer : Redstart							Ground Level : 151.80 m A.O.D. Level to Ordnance Datum
Location :							Coordinates: 305799.99 E 204064.30 N Co-ordinates to National Grid							
m B.G.L.	Run Details			Fractures		Samples		Strata					Red. Level A.O.D.	Water
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	Fl	Depth	Type No. Blows	Depth (Thickness)	Description				
0						0.30	ES1	(0.20)	Concrete.				151.60	
						0.50	ES2	0.20	Loose black slightly sandy angular to subangular fine to coarse GRAVEL of slag. (MADE GROUND)					
						1.00	ES3	(1.75)	at 0.3mbgl PID = 0ppm at 0.5mbgl PID = 0ppm at 1.0mbgl PID = 0ppm					
1						2.50	ES4	1.95 (0.75)	Loose light brown to black sandy angular to subangular fine to coarse GRAVEL of slag. (MADE GROUND)				149.85	
						4.00	ES5	2.70 (0.40)	at 2.5mbgl PID = 0ppm loose reddish brown sandy angular to subangular fine to coarse GRAVEL of slag. (MADE GROUND)				149.10	
2						5.50	ES6	3.10	Loose light brown to black and reddish brown sandy angular to subangular fine to coarse GRAVEL of slag. (MADE GROUND)				148.70	
3						6.86	EW1	(2.40)	at 4.0mbgl PID = 0ppm					
4						6.90	EW							
5						6.98	EW2							
6						7.00	ES7							
7									5.50 Soft greyish brown to dark brown sandy SILT. (ALLUVIUM)				146.30	
									at 5.5mbgl PID = 0ppm				146.10	
8									5.70 Soft brown sandy gravelly SILT. Gravel is subangular to rounded fine to coarse of mixed lithologies. (ALLUVIUM)				145.80	
									6.00 DENSE GRAVEL. (RIVER TERRACE DEPOSITS) Logged from openhole chippings. at 7.0mbgl PID = 0ppm					
9									at 8.5mbgl PID = 0ppm					
									9.50 GRAVEL. (RIVER TERRACE DEPOSITS) Logged from openhole chippings.				142.30	
Hole Progress / Water Obs				Casing			Groundwater					Flush		
Date / Time	H. Depth	C. Depth	Water	Depth	Diam.	Struck	Rose To	Behaviour			Sealed	Depth	Type	Returns
						7.00						0.00 - 33.00	Mist	100
Plant: Commachio MC 600 Remarks: 1.) PAS survey undertaken prior to breaking ground. Hand pit dug to 1.20m, 2.) Refusal at 5.90m, 3.) Rotary openhole follow on.														
 Quantum Geotech				Plas Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk				Operator:	Logged By:	Sheet No.	m Per Page	All measurements in metres unless otherwise stated		
				GP & BR				T.Goodrick	1 Of 4	10				

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Contract : Hoover Candy Factory												Borehole No. IBH106				
Client : Merthyr Tydfil County Borough Council																
Dates : 12/7/22 - 13/7/22						Job Number : Q0838						Ground Level : 151.80 m A.O.D. Level to Ordnance Datum				
Location :						Engineer : Redstart						Coordinates: 305799.99 E 204064.30 N Co-ordinates to National Grid				
m B.G.L.	Run Details			Fractures		Samples		Strata						Water		
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	Fl	Depth	Type No. Blows	Depth (Thickness)	Description			Legend		Red. Level A.O.D.	
10						10.00	ES9		GRAVEL. (RIVER TERRACE DEPOSITS) Logged from openhole chippings. at 10.0mbgl PID = 0ppm							
11						11.50	ES10		at 11.5mbgl PID = 0ppm							
12						13.00	ES11		at 13.0mbgl PID = 0ppm							
13								(8.00)								
14						14.50	ES12		at 14.5mbgl PID = 0ppm							
15						16.00	ES13		at 16.0mbgl PID = 0ppm							
16						17.50	ES14	17.50	at 17.5mbgl PID = 0ppm			134.30				
17								(0.90)	SAND & GRAVEL. (RIVER TERRACE DEPOSITS) Logged from openhole chippings.							
18								18.40	GRAVEL. (RIVER TERRACE DEPOSITS) Logged from openhole chippings. at 19.0mbgl PID = 0ppm			133.40				
19						19.00	ES15									
Hole Progress / Water Obs						Casing		Groundwater				Flush				
Date / Time	H. Depth	C. Depth	Water	Depth	Diam.	Struck	Rose To	Behaviour			Sealed	Depth	Type	Returns		
							15.00									
Plant: Commachio MC 600																
Remarks: 1.) PAS survey undertaken prior to breaking ground. Hand pit dug to 1.20m, 2.) Refusal at 5.90m, 3.) Rotary openhole follow on.																
 Plas Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk						Operator: GP & BR	Logged By: T.Goodrick	Sheet No. 2 Of 4	m Per Page 10	All measurements in metres unless otherwise stated		AGS				

Contract : Hoover Candy Factory												Borehole No. IBH106				
Client : Merthyr Tydfil County Borough Council																
Dates : 12/7/22 - 13/7/22						Job Number : Q0838						Ground Level :	151.80 m A.O.D. Level to Ordnance Datum			
Location :						Engineer : Redstart						Coordinates:	305799.99 E 204064.30 N Co-ordinates to National Grid			
m B.G.L.	Run Details			Fractures		Samples		Strata								
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	FI	Depth	Type No.	Blows	Depth (Thickness)	Description					
20							20.50	ES16			GRAVEL. (RIVER TERRACE DEPOSITS) Logged from openhole chippings. at 20.5mbgl PID = 0ppm					
21							22.00	ES17			at 22.0mbgl PID = 0ppm					
22							23.50	ES18			at 23.5mbgl PID = 0ppm					
23										(11.60)						
24							25.00	ES19			at 25.0mbgl PID = 0ppm					
25																
26																
27																
28																
29																
Hole Progress / Water Obs						Casing		Groundwater						Flush		
Date / Time		H. Depth	C. Depth	Water		Depth	Diam.	Struck	Rose To	Behaviour		Sealed	Depth	Type	Returns	
								29.00								
Plant: Commachio MC 600																
Remarks: 1.) PAS survey undertaken prior to breaking ground. Hand pit dug to 1.20m, 2.) Refusal at 5.90m, 3.) Rotary openhole follow on.																
 Quantum Geotech		Pias Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk						Operator: GP & BR	Logged By: T.Goodrick	Sheet No. 3 Of 4	m Per Page 10	All measurements in metres unless otherwise stated				

Plant: Commachio MG 600

Plant: Comminach MC 600
Remarks: 1.) PAS survey undertaken prior to breaking ground. Hand pit dug to 1.20m, 2.) Refusal at 5.90m, 3.) Rotary openhole follow on.



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All measurements in metres unless otherwise stated



Contract : Hoover Candy Factory

Client : Merthyr Tydfil County Borough Council

Borehole No.

IBH106

Dates : 12/7/22 - 13/7/22

Job Number : Q0838

Ground Level : 151.80 m A.O.D.
Level to Ordnance Datum

Location :

Engineer : Redstart

Coordinates: 305799.99 E

204064.30 N

Co-ordinates to National Grid



Contract : Hoover Candy Factory											Borehole No.			
Client : Merthyr Tydfil County Borough Council											IBH107			
Dates : 11/7/22 - 12/7/22						Job Number : Q0838					Ground Level : 151.79 m A.O.D. Level to Ordnance Datum			
Location :						Engineer : Redstart					Coordinates: 305812.12 E 204073.67 N Co-ordinates to National Grid			
m B.G.L.	Run Details			Fractures		Samples		Strata					Water	
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	FI	Depth	Type No.	Blows	Depth (Thickness)	Description	Legend		Red. Level A.O.D.
0							0.30	ES1		(0.30)	Concrete		151.49	
1							0.50	ES2		0.30	at 0.3mbgl PID = 0ppm			
2							1.00	ES3			MADE GROUND - Orange and black sandy GRAVEL with low cobble content. Gravel is fine to coarse sub-angular to angular slag and brick. Cobbles are angular slag.			
3							1.20 - 1.40	B			at 0.5mbgl PID = 0ppm			
4							1.20 - 4.20	ES			at 1.0mbgl PID = 0ppm			
5							1.20 - 1.40	B1			at 1.2mbgl PID = 0ppm			
6							2.70 - 2.90	ES		(4.10)	at 2.7mbgl PID = 0ppm			
7								ES5						
8							4.20 - 4.40	ES			at 4.2mbgl PID = 0ppm			
9							4.80 - 5.00	ES6		4.40			147.39	
10							4.80 - 6.15	ES		(0.40)	MADE GROUND - Black GRAVEL with low cobble content. Gravel is fine to coarse angular Slag. Cobbles are angular Slag.		146.99	
11							4.80 - 5.00	B2		4.80	at 4.8mbgl PID = 0ppm			
12							6.15 - 6.20	ES		(1.35)	at 4.8mbgl PID = 0ppm			
13							6.20 - 7.20	ES8			MADE GROUND - Soft to firm dark greyish brown slightly gravelly CLAY. Gravel is fine to coarse angular to sub-angular mudstone and occasional clinker.		145.64	
14							6.89	ES9			at 6.15mbgl PID = 0ppm		145.59	
15							6.94	EW1						
16							7.20 - 8.70	EW		(2.80)				
17								ES10						
18							8.70 - 10.20	ES11		9.00	Reddish brown gravelly CLAY. Gravel is fine to coarse rounded sandstone.			
19											at 6.2mbgl PID = 0ppm			
20							10.20 - 11.70	ES12			Dense Gravel - Drillers Description		142.79	
21											at 7.2mbgl PID = 0ppm			
22											at 8.7mbgl PID = 0ppm			
23							11.70 - 13.20	ES13			Gravel - Drillers Description			
24											at 10.2mbgl PID = 0ppm			
25							13.20 - 14.70	ES14		(8.20)				
26											at 11.7mbgl PID = 0ppm			
27							14.70 - 16.20	ES15						
28											at 13.2mbgl PID = 0ppm			
29							16.20 - 17.70	ES16						
30											at 14.7mbgl PID = 0ppm			
31							17.70 - 19.20	ES17						
32											at 16.2mbgl PID = 0ppm			
33							19.20 - 20.70	ES18						
34											17.20 Sand - Drillers Description		134.59	
35											at 17.7mbgl PID = 0ppm			
36											18.50 Gravel - Drillers Description		133.29	
37											at 19.2mbgl PID = 0ppm			
Hole Progress / Water Obs						Casing		Groundwater					Flush	
Date / Time	H. Depth	C. Depth	Water	Depth	Diam.	Struck	Rose To	Behaviour			Sealed	Depth	Type	Returns
						7.50	15.00					0.00 - 32.00	Mist	100

Plant: Commachio 600

Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl. Dynamic Samples 1.2 - 6.5mbgl (refusal). ODEX / Rotary openhole from 6.5mbgl

Contract : Hoover Candy Factory Client : Merthyr Tydfil County Borough Council												Borehole No. IBH107			
Dates : 11/7/22 - 12/7/22						Job Number : Q0838				Ground Level : 151.79 m A.O.D. Level to Ordnance Datum					
Location :						Engineer : Redstart				Coordinates: 305812.12 E 204073.67 N Co-ordinates to National Grid					
m B.G.L.	Run Details				Fractures		Samples		Strata						
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	Fl	Depth	Type No. Blows	Depth (Thickness)	Description			Legend	Red. Level A.O.D.	Water
20									Gravel - Drillers Description						
21									at 20.7mbgl PID = 0ppm						
22									at 22.2mbgl PID = 0ppm						
23									at 23.7mbgl PID = 0ppm						
24									at 25.2mbgl PID = 0ppm						
25									Sand & Gravel - Drillers Description				126.79		
26									at 26.7mbgl PID = 0ppm						
27									at 28.7mbgl PID = 0ppm						
28									Siltstone - Drillers Description				123.09		
29															
30															
31															
32									Terminated at 32.0mbgl				119.79		
33															
34															
35															
36															
37															
38															
39															
Hole Progress / Water Obs					Casing			Groundwater				Flush			
Date / Time	H. Depth	C. Depth	Water		Depth	Diam.	Struck	Rose To	Behaviour		Sealed	Depth	Type	Returns	
					28.20	115.00	22.00								
Plant: Commachio 600 Remarks: PAS survey undertaken prior to breaking ground. Hand excavated service clearance pit undertaken to 1.2mbgl. Dynamic Samples 1.2 - 6.5mbgl (refusal). ODEX / Rotary openhole from 6.5mbgl															
 Plas Newydd Swansea Tel: 01554744880 email: enquiries@quantumgeotechnic.co.uk				Operator: QGL Logged By: P Darby Sheet No. 2 Of 2 m Per Page 20			All measurements in metres unless otherwise stated								
Form Name: ROTARY. Version 2.11.000, 22/05/15 Output By: Phil Darby. Library File: C:\USERS\PHIL DARBY\ONEDRIVE - QUANTUM GEOTECHNIC LTD\QUANTUM 4.GLB.															



Contract : Hoover Candy Factory

Client : Merthyr Tydfil County Borough Council

Borehole No.

IBH107

Dates : 11/7/22 - 12/7/22

Job Number : Q0838

Ground Level : 151.79 m A.O.D.
Level to Ordnance Datum

Location :

Engineer : Redstart

Coordinates: 305812.12 E

204073.67 N

Co-ordinates to National Grid

