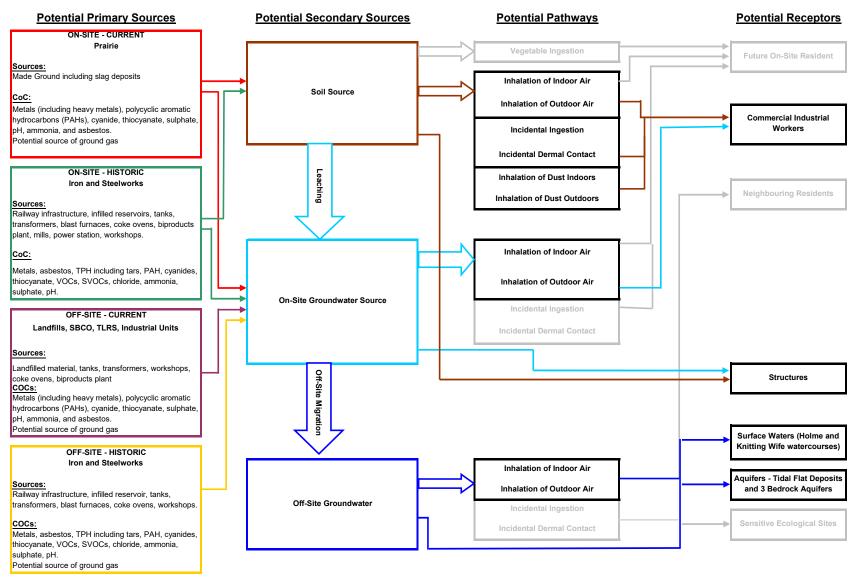
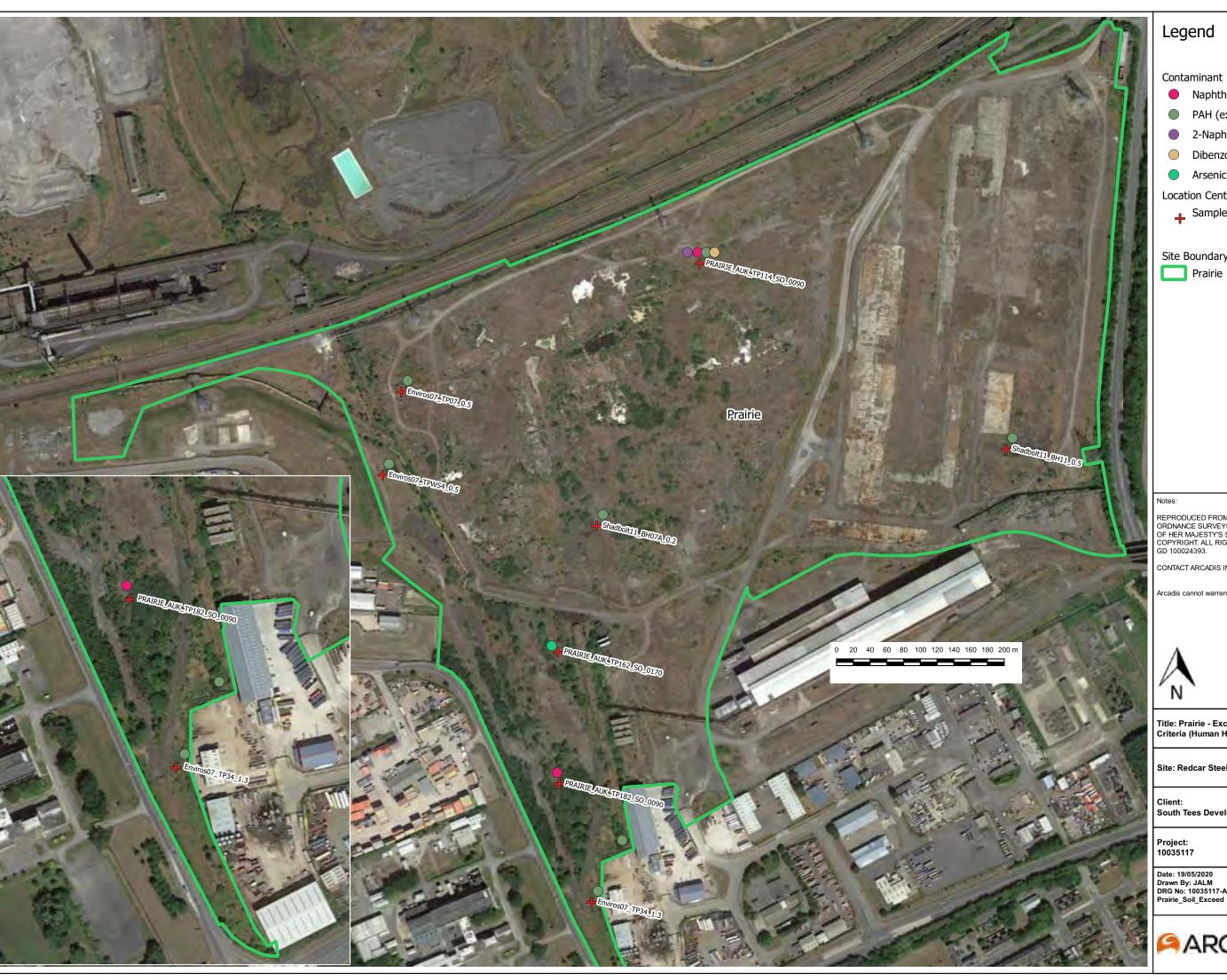


Figure 14
Outline Conceptual Site Model - Commercial Industrial End Use



Key: Pollutant linkage not considered to present a significant level of risk





Contaminant

- Naphthalene
- PAH (ex. Naphthalene)
- 2-Naphthalene
- Dibenzofuran
- Arsenic

Location Centre Point

→ Sample ID and Depth

Site Boundary

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CONTACT ARCADIS IN CASE OF ANY QUERIES.

Arcadis cannot warrent the accuracy of 3rd Party data



Title: Prairie - Exceedences of Soil Screening Criteria (Human Health)

Site: Redcar Steelworks - Prairie

Client: South Tees Developement Corporation

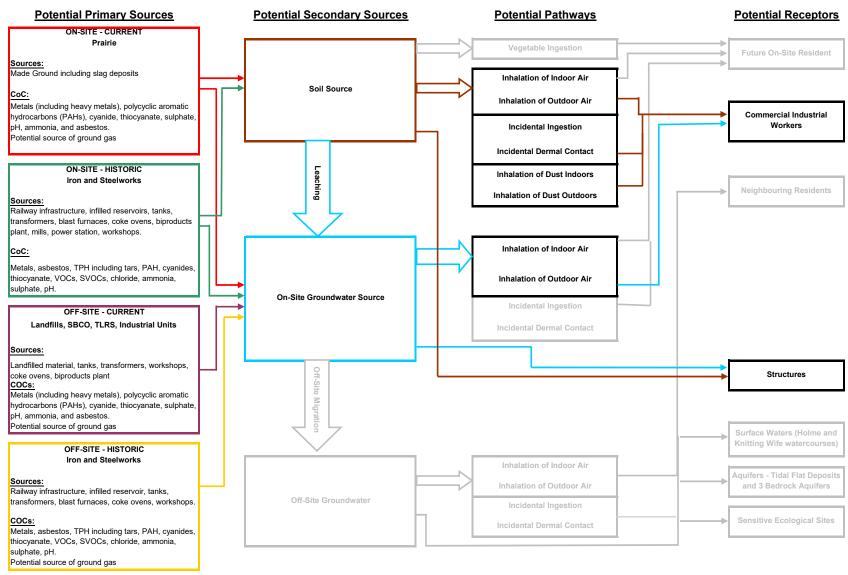
Figure 15

Date: 19/05/2020 Drawn By: JALM DRG No: 10035117-AUK-XX-XX-DR-ZZ-0078-01-Prairie_Soil_Exceed





Figure 16
Outline Conceptual Site Model - Commercial Industrial End Use



Key: Pollutant linkage not considered to present a significant level of risk



Grangetown Prairie Area; Former Steelworks, Redcar. Environmental Site Assessment – 10035117

APPENDIX B

Study Limitations

IMPORTANT: This section should be read before reliance is placed on any of the information, opinions, advice, recommendations or conclusions contained in this report.

- This report has been prepared by Arcadis UK Ltd (Arcadis), with all reasonable skill, care and diligence within the terms of the Appointment and with the resources and manpower agreed with STDC (the 'Client'). Arcadis does not accept responsibility for any matters outside the agreed scope.
- 2. This report has been prepared for the sole benefit of the Client unless agreed otherwise in writing.
- 3. Unless stated otherwise, no consultations with authorities or funders or other interested third parties have been carried out. Arcadis are unable to give categorical assurance that the findings will be accepted by these third parties as such bodies may have unpublished, more stringent objectives. Further work may be required by these parties.
- 4. All work carried out in preparing this report has used, and is based on, Arcadis' professional knowledge and understanding of current relevant legislation. Changes in legislation or regulatory guidance may cause the opinion or advice contained in this report to become inappropriate or incorrect. In giving opinions and advice, pending changes in legislation, of which Arcadis is aware, have been considered. Following delivery of the report, Arcadis have no obligation to advise the Client or any other party of such changes or their repercussions.
- This report is only valid when used in its entirety. Any information or advice included in the report should not be relied upon until considered in the context of the whole report.
- Whilst this report and the opinions made are correct to the best of Arcadis' belief, Arcadis cannot guarantee the accuracy or completeness of any information provided by third parties.

- This report has been prepared based on the information reasonably available during the project programme. All information relevant to the scope may not have been received.
- 8. This report refers, within the limitations stated, to the condition of the Site at the time of the inspections. No warranty is given as to the possibility of changes in the condition of the Site since the time of the investigation.
- The content of this report represents the professional opinion of experienced environmental consultants. Arcadis does not provide specialist legal or other professional advice. The advice of other professionals may be required.
- 10. Where intrusive investigation techniques have been employed they have been designed to provide a reasonable level of assurance on the conditions. Given the discrete nature of sampling, no investigation technique is capable of identifying all conditions present in all areas. In some cases the investigation is further limited by site operations, underground obstructions and above ground structures. Unless otherwise stated, areas beyond the boundary of the site have not been investigated.
- 11. If below ground intrusive investigations have been conducted as part of the scope, service tracing for safe location of exploratory holes has been carried out. The location of underground services shown on any drawing in this report has been determined by visual observations and electromagnetic techniques. No guarantee can be given that all services have been identified. Additional services, structures or other below ground obstructions, not indicated on the drawing, may be present on Site.
- 12. Unless otherwise stated the report provides no comment on the nature of building materials,

Grangetown Prairie Area; Former Steelworks, Redcar. Environmental Site Assessment – 10035117

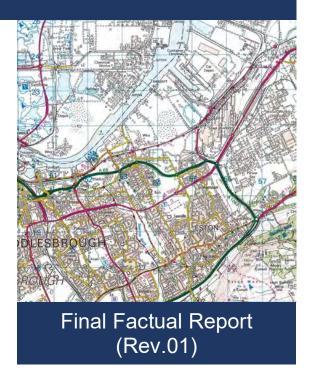
operational integrity of the facility or on any regulatory compliance issue

Grangetown Prairie Area; Former Steelworks, Redcar. Environmental Site Assessment – 10035117

APPENDIX C

AEG Factual Report 4251 - Prairie Site Ground Investigation Works (Final Report r01)

PRAIRIE SITE **GROUND INVESTIGATION WORKS**





Contract Number: 4251 Client: South Tees Development Corporation Consulting Engineer: Arcadis

Date: November 2020

Head Office (Registered Office) Unit 25 Stella Gill Industrial Estate Pelton Fell Chester-le-Street Co. Durham DH2 2RG **2** 0191 3874700

0191 3874710

Regional Office Unit 20 Business Development Centre Eanam Wharf Blackburn BB1 5BL

> **2** 01254 503 200 **1** 01254 662 590



REPORT CONTROL SHEET

Contract Details

Contract Title	Prairie Site Ground Investigation Works	
Contract Number	4251	
Location	Redcar Steelworks, TS6 7BJ	
National Grid Reference	NZ 544 209	

Report Details

Report Status	Final (Rev.01)		
Report Type	Factual		
Volume Number	1	of	1
Copy Number	PDF	of	PDF
Report Recipient	Jonathan Miles	Arcadis	

Client/Consultant Engineer Details

rcadis Whitehall Riverside eeds S1 4BN
1

Signed & Approved On Behalf of Allied Exploration & Geotechnics Limited

Reports Engineer	Approved:	Date:
Laura Clarke BSc (Hons).	Lelle	10/11/2020
Technical Manager	Approved:	Date:
Kerry Wade BSc (Hons), MSc, FGS, MCMI	Khade	10/11/2020
Managing Director	Approved:	Date:
Nick Vater BSc (Hons), MSc, CGeol, EurGeol, FGS.	SWat	10/11/2020

Head Office (Registered Office):	Unit 25, Steha Git Industrial Estata, Planto Fert, Chappy-Na-Street, Co. Derham, DH2 2RG	Tail 01913874T00 Fax 01813874T10
	Unit 70. Bysinesy Development Centre: Epison Whart, Blackburn, 881 581.	Tel 01254503000 Fax: 01254902590

PRAIRIE SITE GROUND INVESTIGATION WORKS

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Status: Final

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<i>IN-SITU</i> TE	ESTING ENCLOSURES:	
	Test Report Certificate	0
	Standard Penetration Test Results	1
	Hand Shear Vane Test Results	2
	Photo-Ionisation Detector Test Results	3
	In-situ Water Quality Parameter Test Results	4
	Hydraulic Conductivity: Slug Test Results	5
LABORAT	ORY ENCLOSURES:	
	Laboratory Report Certificate	0
	Sample Description Sheets	1
	Moisture Content/Plasticity Index and Moisture Content	2
	Determination of Particle Density	3
	Particle Size Distribution Sieving and Sedimentation	4
	Determination of Calorific Value, Organic Matter Content, Sulphate and pH (Tested Externally)	5
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Appendix I

Specialist Chemical Testing (Tested Externally)

1. INTRODUCTION

The site work was commissioned in order to augment previous ground investigation work, and to determine

the ground and groundwater conditions on site prior to the proposed remediation works.

Allied Exploration & Geotechnics Limited (AEG) were contracted by the South Tees Development

Corporation with Arcadis acting in the capacity of Consulting Engineer to perform a ground investigation at

this site in order to provide information on the subsurface ground and groundwater conditions as well as to

obtain samples for geotechnical and specialist chemical testing.

1.1 Scope of Works

The investigation works consisted of the following main elements:

Ten cable percussive boreholes, four of which were advanced using rotary coring techniques.

One hundred and twenty two machine excavated inspection pits.

Associated sampling.

In-situ Standard Penetration, Hand Shear Vane, Photo-Ionisation Detector, In-situ Water Quality

Parameter and Hydraulic Conductivity (Slug) Testing.

Surface water sampling.

Continuous groundwater/tidal monitoring.

Installation of gas/groundwater monitoring instrumentation.

Post site works gas/groundwater monitoring and groundwater sampling.

Site work was carried out between the 1st April and 5th May 2020 with subsequent post site work monitoring,

laboratory testing and reporting thereafter. A factual report only was requested.

The comments and opinions expressed in this report are based on the ground conditions encountered during

the site work and on the results of tests carried out in the field and in the laboratory. There may, however, be

special conditions prevailing on the site which have not been disclosed by this investigation and which have

not been taken into account by this report.

2. THE SITE

2.1 Location

The National Grid Reference of the approximate centre of the site is NZ 544 209. This can be found on

Ordnance Survey 1:50,000 Sheet Number 93 (Middlesbrough, Darlington & Hartlepool). Part of this sheet is

reproduced as Figure 1, the Site Location Plan.

The site is located approximately 5.00km East North East of Middlesbrough city centre, and 3.00km South of

Teesport Docks.

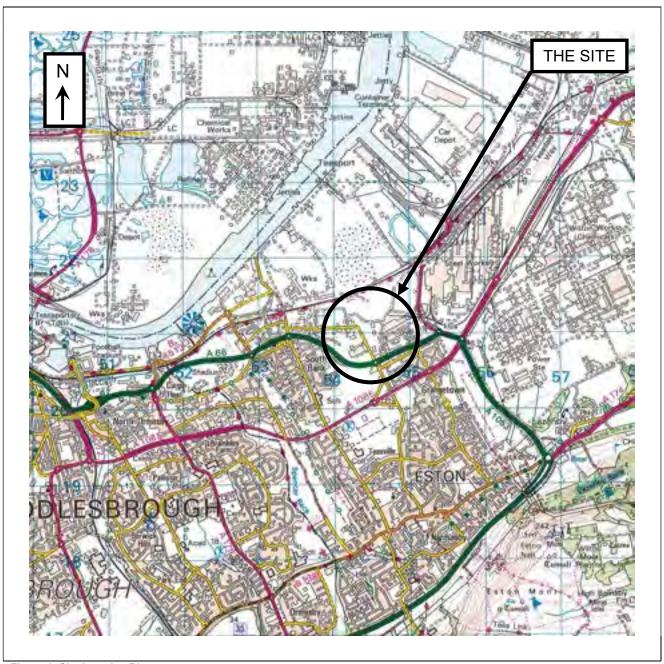


Figure 1: Site Location Plan

Reproduced from the Ordnance Survey 1:50,000 scale Landranger map by permission of Ordnance Survey on behalf of The Controller of Her Majesty's Stationery Office, Crown Copyright. All rights reserved. Licence number AL 100002282.



2.2 Site Description and Topography

The site is located off the A66 dual carriageway, and is bordered to the west by Eston Road and general industrial land uses on the outskirts of Middlesbrough. To the east, the site is bordered by Tees Dock Road, immediately beyond which is a British Steel Steelmaking Plant. To the south, there is an industrial estate, beyond which is the A66 and Grangetown, part of Middlesbrough's urban sprawl. The site is bounded to the north by the Darlington to Saltburn railway line, to the north of which lies more abandoned industrial land to the south of the River Tees.

The Prairie site can be accessed from Eston Road via the A66. The site previously comprised various heavy industrial uses and incorporated the former Cleveland South Steelworks, Coke Ovens and By-products plant. The infrastructure associated with these activities have all now been cleared to ground level, however significant foundations, infrastructure and base slabs are still in-situ; there areas that are anticipated to hold higher levels of contamination.

3. SITE OPERATIONS

3.1 General

All exploratory hole work, associated sampling, *in-situ* testing and logging was carried out in accordance with techniques outlined in Table 1, as appropriate; at positions as near as practicable to those supplied by the Consulting Engineer. These are shown on the Exploratory Hole Location Plan, Field Data Enclosure 1.

Reference Code Number	Title
BS 1377:1990	Methods of Test for Soils for Civil Engineering Purposes (where not in contravention or superseded by Eurocode references)
BS 5930:2015	Code of Practice for Ground Investigation (where not in contravention or superseded by Eurocode references)
BS EN ISO 14689-1:2003	Identification and Classification of Rock
BS EN ISO 14688-1:2002 & 14688-2:2004	Identification and Classification of Soil
BS 10175:2011+A2:2017	Investigation of Potentially Contaminated Sites
BS EN ISO 22476-3: 2005	Geotechnical investigation and testing - Field testing - Part 3 Standard Penetration Testing

Table 1: British Standard Reference Code Number

The depths of all exploratory holes, descriptions of the material encountered, details of any groundwater encountered, samples taken and *in-situ* testing carried out together with any other relevant information can be found on the Borehole and Trial Pit Records, Field Data Enclosures 2 and 3 respectively. A key to all symbols and abbreviations used throughout the report is included in the Key Sheets.

The primary purpose of ground investigation exploratory holes is to probe the stratified sequences of soil and/or rock. From the results of these probings no conclusion should be drawn concerning the presence of, size, lithological nature, and numbers per unit volume of ground cobbles and boulders in soil types such as glacial till (boulder clay). With respect to rotary coring, driller's records and observations of the recovered core



Status: Final

are used to determine any zones of no recovery (core loss). These zones are based on the interpretation of

the logging engineer and are therefore subjective. Refer to the Key Sheets for further information.

3.2 Health & Safety Considerations: Services

Before the commencement of any exploratory hole a search for underground services was conducted as

prescribed in HSE publication 'Avoiding Underground Services (HSG47)' and in accordance with in-house

internal safety procedure AEG-14.

Service plans were provided by the Client and were consulted prior to using a service locating device (such

as a Cable Avoidance Tool or C.A.T.) to scan a working area around the proposed exploratory hole location.

Where no services were indicated a 'Permit-to-Work' form was issued by the investigation supervisor and,

with the exception of trial pits/trenches, the position was commenced with a hand excavated inspection pit.

The inspection pit was also scanned during the excavation procedure. It should be noted that the digging of

an inspection pit only confirms or guards against the possible presence of underground public utility services

within the excavated pit. Where no services were indicated by the scanning procedure or inspection pit the

exploratory hole was commenced in accordance with the Contract Specification.

Services were encountered in many of the trial pits. Details of any services uncovered/located during this

investigation are given in the relevant Trial Pit Records. If required, the position was relocated in agreement

with the Consulting Engineer, otherwise the position was continued with care.

3.3 Exploratory Holes: Boreholes

Ten boreholes were sunk using a Dando 2000 drilling rig, utilising cable percussive (shell and clay cutter)

techniques, to depths of between 6.80m (PRAIRIE_AUK_BH109) and 18.40m BGL (PRAIRIE_AUK_BH101).

Four boreholes were further advanced using either a Boart Longyear DB540 or a Comacchio GEO 305,

utilising rotary coring methods, to depths of between 11.80m (PRAIRIE AUK BH109) and 20.80m BGL

(PRAIRIE AUK BH110).

Rotary coring employed a 'P' (121mm OD) barrel in combination with P.C.D. drill bit together with water

flushing medium. This coring assembly was used to recover 92mm lined cylindrical specimens of rock core.

The Borehole Records and a summery table of any relevant remarks are presented as Field Data Enclosure

2.

3.4 Exploratory Holes: Mechanically Excavated Trial Pits

One hundred and twenty two trial pits were mechanically excavated using a 360 tracked excavator to depths

of between 0.10m (PRAIRIE_AUK_TP146A) and 5.20m BGL (PRAIRIE_AUK_TP199). The Trial Pit Records

and a summery table of any relevant remarks are presented as Field Data Enclosure 3.

全

3.5 Samples

Representative samples of soil, water and rock were obtained from the exploratory holes and were taken to

the laboratory for selected geotechnical and specialist chemical testing. Three surface water samples and

one soil sample was taken from locations across the site. These are shown on the Exploratory Hole Location

Plan, Field Data Enclosure 1.

Environmental samples were taken in accordance with the contract specification during the investigation

using an approved selection of container types in order to suit the encountered material properties and

designated laboratory analytical parameters. Full chain of custody procedures were in place post sampling

and during the transportation stage to the nominated specialist chemical laboratory. Environmental samples

were administered appropriately following the best practice guidance provided in the contract specification.

3.6 Groundwater

The comments on groundwater conditions are based on the observations made at the time of investigation.

It should be noted that groundwater levels may vary due to seasonal and other effects. Furthermore, water

was added during advancement of the boreholes in order to facilitate drilling operations. As a consequence

there is a possibility that this could have masked the discrete ingress of natural groundwater into the

boreholes, which subsequently may have been sealed as a result of progressing the casing.

Groundwater was encountered in the exploratory holes during the site works operation. Where groundwater

observations were made details are given on the relevant Exploratory Hole Record and in greater detail

(collectively in tabulated format) as Field Data Enclosure 4: Groundwater Observations Made at the Time of

Site Works. Standing groundwater levels were recorded many exploratory holes at the beginning and/or end

of each drilling shift. The water level is indicated on the applicable Exploratory Hole Record as part of the

boring progress information.

3.7 **Instrumentation & Monitoring**

All ten boreholes (PRAIRIE AUK BH101 to PRAIRIE AUK BH110 inclusive) were installed with monitoring

instrumentation in accordance with the requirements of the Consulting Engineer. Details of the installations

are shown in the Borehole Summary Table within Field Data Enclosure 2.

Instruments were monitored for gas and groundwater on three occasions; one week after the completion of

the site works, and two fortnightly thereafter in accordance with the Contract Specification. A record of the

readings is presented as Field Data Enclosure 5 (Groundwater Monitoring Results) and Field Data Enclosure

6 (Gas Monitoring Results).

Continuous monitoring was undertaken was undertaking using a mini diver instrument. The instrument was

installed into PRAIRIE_AUK_BH101, PRAIRIE_AUK_BH103 and PRAIRIE_AUK_BH108 on 7th May 2020 in

order to assess groundwater fluctuations over the period of a complete tidal cycle. The tidal cycle readings

are presented as Field Data Enclosure 7.

Status: Final

3.8 Operative Observations: Potential Contamination

For the purposes of determining the condition of the site, with regard to human health and environmental

issues, reference should specifically be made to any specialist chemical testing undertaken as part of the

investigation scheme, as well as any supporting desk study and risk assessment documentation. The

information given herein collates the observations made by the operatives involved in the investigation only

and comments that have been indicated on the engineering records.

Where there was potential evidence of contamination, principally as a consequence of olfactory and visual

identification, information is provided in the relevant Borehole and Trial Pit Records.

It should be stressed that the information provided herein is subjective, as it is based on the perceptions of

individuals and not specialists routinely involved in the chemical determination of contaminated residues,

liquors, vapours or solid contaminants.

3.9 Surveying

The investigation positions were surveyed after completion of site works using a Leica Smartrover (Model

ATX 1230+ GNSS) GPS based instrument which provides corrected Ordnance Survey co-ordinates in real

time to an accuracy of within ± 30mm vertical and ± 30mm horizontal. These positions have been

subsequently plotted in AutoCAD® software and are shown on the Exploratory Hole Location Plan, Field Data

Enclosure 1.

4. **IN-SITU TESTING**

4.1 General

In-situ testing as specified by the Consulting Engineer was carried out in selected boreholes in accordance

with techniques outlined in the relevant British Standard and/or AEG Quality Procedure. The results are

presented in the In-situ Testing Enclosures with a number of the test results summarised at the relevant

depth on the Borehole Records.

4.2 Standard Penetration Test Results

Standard Penetration Testing (SPT) was carried out in the boreholes in accordance with techniques outlined

in BS EN ISO 22476-3: 2005 in order to determine the relative density and consistency of the strata

encountered. The 'N' value (number of blows per 300mm penetration) or the penetration per blow was

recorded for each test. Uncorrected 'N' values or penetration per blow data are provided on the applicable

Borehole Records. (Refer to page 6 of the key sheets for further details).

More detailed information concerning the standard penetration testing is given in *In-situ* Testing Enclosure 1

which includes the following;

Initial exploratory hole conditions prior to the test procedure.

Contract Title: Prairie Site Ground Investigation Works Contract Number: 4251

Status: Final

- Calibration and energy ratio (E_m) information for the SPT hammer device used to carry out the test.
- A breakdown of blows for each 75mm penetration interval.
- Rod length (C_R) and energy (C_E) correction ratios.
- Uncorrected 'N' value.
- Corrected 'N₆₀' value that applies the rod (C_R) and energy (C_E) corrections indicated.
- Pertinent remarks corresponding to the test procedure.

In addition to the above, a graph has been prepared for each exploratory hole which plots the uncorrected and corrected 'N' value results against depth. Calibration certificates for the SPT apparatus used during the testing procedure are also presented for reference within this *In-situ* Testing Enclosure.

4.3 Hand Shear Vane

Hand shear vane testing using calibrated Edeco Pilcon Hand Vane equipment was carried out in selected trial pits in accordance to the ground conditions encountered. The results are presented in detail within *In-situ* Testing Enclosure 2 with the average peak and residual shear strength values provided on the applicable Trial Pit Record.

4.4 Photo Ionisation Detector (PID)

Photo-ionisation detector (PID) screening for semi-volatile and volatile organic compounds was conducted on selected environmental samples taken during the investigation using a MiniRAE 2000. The results for the sample based PID tests are recorded in tabular format as *In-situ* Testing Enclosure 3 and, where applicable, on the Borehole and Trial Pit Records.

4.5 Water Quality Parameter Testing

Groundwater sampling was undertaken from all but one (BH102) of the installations during the second round of post site works monitoring in accordance with techniques outlined in the relevant British Standard and/or AEG Quality Procedure. Water Quality Parameters were recorded for the purged water prior to sampling. The parameters tested were pH, temperature, electrical conductivity, redox potential, total dissolved solids and dissolved oxygen. The results are presented in tabular format as *In-situ* Testing Enclosure 4.

4.6 Hydraulic Conductivity: Slug Tests

Hydraulic conductivity testing was carried out in four selected monitoring standpipes PRAIRIE_AUK_BH101, PRAIRIE_AUK_BH103, PRAIRIE_AUK_BH108 and PRAIRIE_AUK_BH110 using the Displacement (Slug) Test Method. A mini-diver was installed in the standpipes prior to inserting the slug in order to continuously log the groundwater level during the test. A mechanical slug was then used to perform variable head (rising and falling) permeability tests within the instrumentation. The Hydraulic Conductivity (Slug Tests) results are presented in graphical format showing the rising and falling conditions as *In-situ* Testing Enclosure 5.



5. LABORATORY TESTING

5.1 General

Laboratory testing as scheduled by the Consulting Engineer was carried out on selected samples in accordance with techniques outlined in BS 1377:1990, AEG Laboratory Quality Procedures or other appropriate standard as quoted.

5.2 Geotechnical Testing

The results are presented in the Laboratory Enclosures with an outline list of the procedures undertaken given in Table 2.

Test	Procedure
Moisture Content	BS 1377 Part 2 1990 (BS EN ISO 17892-1:2014)
Plasticity Index and Moisture Content	BS 1377 Part 2 1990 (BS EN ISO 17892-1:2014)
Determination of Particle Density	BS 1377 Part 2 1990
Particle Size Distribution Sieving	BS 1377 Part 2 1990
Particle Size Distribution Sedimentation	BS 1377 Part 2 1990
Determination of Calorific Value, Organic Matter Content, Sulphate and pH (Tested externally)	See External Laboratory Certificates
Determination of Dry Density/Moisture Content Relationship	BS 1377 Part 4 1990
Determination of California Bearing Ratio	BS 1377 Part 4 1990
Determination of One Dimensional Consolidation Properties	BS 1377 Part 5 1990
Shear Strength by Hand Vane	BS 1377 Part 7 1990
Undrained Shear Strength in Triaxial Cell without Pore Water Pressure Measurement	BS 1377 Part 7 1990
Determination of Point Load Index	ISRM 1985
Determination of Unconfined Compressive Strength (Tested externally)	ISRM 1985
Slag Analysis (Tested externally)	

Table 2: Geotechnical Testing

5.3 Specialist Chemical Testing

Selected samples have been submitted for chemical analysis as specified the Consulting Engineer, conducted under a subcontract arrangement with Derwentside Environmental Testing Services (DETS). The results of this testing are presented as Appendix I.

5.4 Laboratory Identified Asbestos

Status: Final

Selected samples were analysed for asbestos content as specified by the Consulting Engineer. A number of tested samples were found to contain asbestos the details of which are presented in within the specialist chemical testing results report (see Appendix I for further details).



Key Sheets







INTRODUCTION

The following explanatory notes define the terminologies, abbreviations and symbols pertaining to each individual column or section of the Exploratory Hole records. 'Exploratory Hole' is used as a general term in this report to comprise borehole, drillhole, and trial pit. All exploratory hole records have been produced using 'gINT®', which is an integrated software environment for the storage and manipulation of subsurface data.

The primary purpose of ground investigation exploratory holes is to probe the stratified sequences of soil and/or rock. From the results of these probings no conclusion should be drawn concerning the presence of, size, lithological nature, and numbers per unit volume of ground cobbles and boulders in soil types such as glacial till (boulder clay). With respect to rotary coring, driller's records and observations of the recovered core are used to determine any zones of no recovery (core loss). These zones are based on the interpretation of the logging engineer and are therefore potentially subjective. In addition, where relevant, every effort is made to highlight material/zones that may relate to suspected old workings. However, it should be noted that this is not straightforward (especially without detailed information regarding anticipated subsurface conditions) and therefore no guarantee can be made with regards to the accuracy of the interpretation of the recovered core.

INFORMATION COMMON TO ALL EXPLORATORY HOLE RECORDS

Status Box

The status box in the top right hand corner of each exploratory hole record gives the status of each individual record i.e. PRELIM1, PRELIM2, PRELIM3 FINAL etc. The date shown relates to the last instance the data was revised. This information is for AEG Quality Assurance only.

Exploratory Hole No

The identity number used throughout the report.

Project

The ground investigation project name. Occasionally the project name may be shortened or abbreviated due to string length restraints imposed by the gINT® computer programme.

Client

Client's name responsible for funding the ground investigation project. The Client's name may be shortened or abbreviated due to string length restraints imposed by the gINT® computer programme.

Location

The exploratory hole position given as either national grid co-ordinates, local grid if specified, or a reference name normally pertaining to the area of investigation.

Method (Equipment)

Represents the drilling, excavation or boring method(s) or equipment used.

Ground Level (m(AOD))

The precise ground level in metres above Ordnance Datum at the exploratory hole location from which the reduced level for each stratigraphic boundary is calculated.

Date

The date relating to the start of the exploratory hole excavation.

Sheet

The sheet number and total number of sheets for the particular record.

Checked By

Printed signature of the person who has carried out the technical quality check on the log.

Logged By

The name of the engineer who has carried out the logging of the exploratory hole.

Contract No.

The Allied Exploration & Geotechnics Limited reference number for the project.





INFORMATION RELEVANT TO BOREHOLE AND WINDOW/WINDOWLESS SAMPLE HOLE RECORDS

Sample & Tests Columns

Depth The depth over which a sample or test is taken is shown in depth column of the exploratory hole record in a "from...to"

format

Type No Indicates the type of sample/test and number given by the driller.

Test Result Result of the test given in the applicable units.

Water Column

Water Strike Level of groundwater strike within an exploratory hole. The symbol 🔻 denotes a water strike and is suffixed with a

number, which indicates the strike order. The corresponding unfilled symbol is the depth the strike rose to.

Seepage Groundwater seepage within an exploratory hole is denoted by the symbol.

Strata Columns

Reduced Level

The corresponding reduced level of each soil or rock boundary in metres Ordnance Datum.

Legend

A graphical representation of the materials encountered using BS 5930:1999 Amendment No.2 (Aug 2010) recommended

symbols for soil and rock.

Depth (Thickness)

The depth below ground level of each soil or rock boundary in metres and the thickness of each individual stratigraphic unit

(given in brackets).

Description

Engineering description of each individual soil or rock type follows recommendations outlined in Section 6 of BS 5930:1999 Amendment No.2 (Aug 2010) with the following implementation:

- The amendment of section 6 incorporates the guidance indicated in BS EN ISO 14688-1:2002, BS EN ISO 14688-2:2004 and BS EN ISO 14689-1:2003 European Standard with particular emphasis on current UK practice.
- Supplementary laboratory or in-situ assessed measurements of undrained strength are provided where applicable information is available in parenthesis in accordance with clause 41.3.2 BS 5930:1999 Amendment No.2 (Aug 2010) after the field strength determined consistency. The description based measurement table indicating the quantitative undrained strength classification divisions is provided in Key Sheets Table 1.

Term based on measurement	Undrained strength classification definition cu, in kPa (from BS EN ISO 14688-2:2004, 5.3, Table 5)
Extremely low	<10
Very low	10-20
Low	20-40
Medium	40-75
High	75-150
Very High	150-300
Extremely High	300-600

KEY SHEETS TABLE 1

Cobble and boulder content is expressed in accordance with the terms provided in EN ISO 14688-2: 2004 where visually identified in trial pit excavations, or inferred/recovered during the drilling operations. The assessment of frequency and spatial occurrence of coarse and very coarse rock material should not be considered as precise, but only an indicator or estimate of the potential conditions. It should be noted that the recovery of coarse or very coarse particles in boreholes is dependent on the limitations imposed by the casing diameter. The terminology used is outlined in Key Sheets Table 2.





Fraction	Percent by Mass	Term
	<5	Low boulder content
Boulders	5 to 20	Medium boulder content
	>20	High boulder content
	<10	Low cobble content
Cobbles	10 to 20	Medium cobble content
	>20	High cobble content

KEY SHEETS TABLE 2

Rock Strength based on assessed field or measured unconfined compressive strength follows the classification scheme given in clause 44.2.1 BS5930:1999 Amendment No.2 (Aug 2010) as outlined in Key Sheets Table 3.

Term for use in field or based on measurement	Definition for field use	Definition on basis of Unconfined Compressive Strength measurement (MPa)	Old Classification of rock strength: Terminology (Strength Range MPa)	Old Classification of rock strength: Determination Method
Extremely weak	Can be indented by thumbnail. Gravel sized lumps crush between finger and thumb.	0.6-1.0	Very Weak (<1.25)	Lumps can be crushed between fingers
Very weak	Crumbles under firm blows with point of geological hammer. Can be peeled by a pocket knife.	1-5	Weak (1.25 – 5)	Lumps can be broken with heavy hand pressure
Weak	Can be peeled by a pocket knife with difficulty. Shallow indentations made by firm blow with the point of geological hammer.	5-25	Moderately Weak (5-12.50)	This slab can be broken with heavy pressure
Medium Strong	Cannot be scraped with pocket knife. Can be fractured with a single firm blow of geological hammer.	25-50	Moderately Strong (12.50-50)	Rock can be broken in the hand with a hammer
Strong	Requires more than one blow of geological hammer to fracture.	50-100	Strong (50-100)	Rock can be broken on a flat surface using a hammer
Very Strong	Requires many blows of geological hammer to fracture.	100-250	Very Strong (100-200)	Rock chipped by blows with a hammer
Extremely strong	Can only be chipped with geological hammer.	>250	Extremely Strong (>200)	Rock rings when hit with a hammer
Based on BS EN ISO 14689-1:2003 4.2.7, Table 5			BS5930: 1999 (Superseded	

KEY SHEETS TABLE 3

Where 'rock weathering classification' can be applied it is 'Approach 4' which will be used. If any other approach is used the factual text of the report will provide details of the applicable specific approach. (Ref.: Figure 19, p143, BS 5930:1999 Amendment No.2 (Aug 2010)). An outline of the 'Approach 4' rock weathering classification scheme is provided as Key Sheets Table 4.

APPRO	APPROACH 4 CLASSIFICATION INCORPORATING MATERIAL AND MASS FEATURES								
Class	lass Classifier Typical characteristics								
Α	Unweathered	Original strength, colour, fracture spacing							
В	Partially weathered	Slightly reduced strength, slightly closer fracture spacing, weathering penetrating in from fractures, brown oxidation							
С	Distinctly weathered	Further weathered, much closer fracture spacing grey reduction							
D	Destructured	Greatly weakened, mottled, ordered lithorelics in matrix becoming weakened and disordered, bedding disturbed.							
E	Residual or reworked	Matrix with occasional altered random or 'apparent' lithorelics, bedding destroyed. Classed as reworked when foreign inclusions are present as a result of transportation.							

KEY SHEETS TABLE 4





Instrument/Backfill Column

A graphical representation of backfill material or instrumentation detail using graphic legends. Its placement in the column is relative to depth in metres and corresponds to the exploratory hole in scale.

Boring Progress and Water Observations Columns

This section provides information on each day's production as a daily log.

Date Date of shift.

Depth Depth of hole at the start of the shift.

Casing Casing's depth at the start of the shift.

Casing Dia Casing's diameter at the start of the shift.

Water Depth Water level within the borehole at the start and end of shift.

Chiselling Columns

Indicates where hard strata occurred in the borehole and breaking out was carried out to advance the borehole.

From The depth commenced.

To The depth finished.

Hours The time spent for breaking out.

Water Added Columns

Indicates the depth range where water was added to the borehole to facilitate boring or to prevent stress relief disturbance "blowing/boiling" in granular

soils.

From Depth in metres from where water was added.

To Depth in metres to where water was added.

General Remarks

Any remarks believed to be relevant to the exploratory hole.

INFORMATION RELEVANT TO PIT/TRENCH RECORDS

The pit/trench records follow the same format as the borehole and window/windowless sample hole records for the Samples & Tests, Water and Strata columns. However, in addition to these there are the following:

Plan

A schematic plan view of the pit showing its excavated dimensions together with its orientation, given as a compass bearing to magnetic north.

Groundwater

Notes on water bearing horizons.

Stability

The engineer's comments outlining the stability of the sides during pit excavation.

General Remarks

The engineer's comments of any other information relevant to construction of the pit.

Additional Information

An indication if a sketch and/or photographs accompany the record.





Underground Services

Depth service was encountered.

Orientation Orientation given as a compass bearing to magnetic north.

Type Type of service encountered.

Diameter Diameter of service encountered.

Condition Condition the service encountered was noticed in.

INFORMATION RELEVANT TO DRILLHOLE RECORDS AND ROTARY CONTINUATION

Run Details Columns

Depth Each drill run is highlighted by a horizontal line with the top and bottom depths shown in metres. Core diameter (C Dia) is

presented also within each run.

TCR (SCR) RQD Information provided on the total core recovery, solid core recovery and rock quality designation. Refer to Abbreviations for

further details.

Fracture Index Information given relating to the fracture index of the rock.

Strata Columns

As the strata columns for borehole and window/windowless sample hole records except for description which is as follows:

Discontinuities Detail Information on core discontinuities, localised variations in weathering, lithology, strength and structure follows

 $recommendations \ outlined \ in \ Section \ 6 \ BS \ 5930:1999 \ Amendment \ No.2 \ (Aug \ 2010): Clause \ 44.$

Main Engineering description of each individual soil or rock type follows recommendations outlined in Section 6 of BS 5930:1999

Amendment No.2 (Aug 2010).

Instrument/Backfill Column

A graphical representation of backfill material or instrumentation detail using graphic legends. Its placement in the column is relative to depth in metres and corresponds to the exploratory hole in scale.

Drilling Progress and Water Observations Columns

Date Date of shift.

Depth Depth of hole at the start of the shift.

Casing Casing's depth at the start of the shift.

Water Strike Depth at which water was encountered.

Water Standing Depth at which water in the hole levelled off.

Water Remarks Any remarks believed to be relevant to the water e.g. Artesian.

Standard Penetration Test

Depth The depth commenced.

Type of standard penetration test (SPT).

Result of SPT.

Flush

From The depth commenced.

To The depth finished.

Type Details of the type of flush used. A = Air, F = Foam, W = Water and Pol = Polymer.

Returns An indication of the percentage of the returned flush material.

General Remarks

Any remarks believed to be relevant to the exploratory hole.





SAMPLES

B Bulk disturbed sample.

ES Environmental soil sample.

EW Environmental water sample.

G Gas sample.

J Small disturbed sample.

LB Large bulk disturbed sample.

P Piston sample.

P* An attempted but failed undisturbed piston sample.

U Undisturbed sample.

U* An attempted but failed general purpose undisturbed sample.

U_(ss) Sample has been subsampled

ES_(U) Brackets following a sample denotes a subsample. The sample information within the brackets is the origin of the

subsample.

W Water sample.

IN-SITU TESTS

CBR California Bearing Ratio mould sample or test.

HSV In-situ hand shear vane.

HSV* An attempted but failed in-situ hand shear vane.

HSV result of e.g 80(20)kPa Denotes average HSV peak result followed by average HSV residual result (in brackets).

HP Hand penetrometer test.

K (F) Falling head permeability test.

K (R) Rising head permeability test.

K (C) Constant head permeability test.

K (P) Packer permeability test.

PT Pressuremeter test.

PID Photo ionisation detector test.
FID Flame ionisation detector test.

S Standard Penetration Test (SPT) using the split barrel sampler (shoe). The corresponding uncorrected 'N' value is

given in the test result column with more detailed information provided in the In-Situ Testing Enclosures where

applicable. Testing has been conducted in accordance with BS EN ISO 22476-3: 2005.

C Denotes SPT test using a solid cone in preference to the split barrel sampler (usually in coarse granular soil) with all

other reporting requirements as outlined above for the split barrel sampler.

S/C result of e.g. 1/2.94 Denotes where full penetration has not been achieved during the SPT test. In such cases the penetration (mm) per

blow is recorded in the test result column e.g. 1/2.94 is 2.94mm of penetration per single blow.

SV In-situ down-the-hole shear vane test. The remoulded shear strength is given in brackets.

ROCK QUALITY AND CORE RECOVERY

TCR Total Core Recovery - the length of the recovered core expressed as a percentage of the length of core run.

SCR Solid Core Recovery - the sum length of all core pieces that are recovered with at least one full diameter, expressed

as a percentage of the length of core run.

RQD Rock Quality Designation - The sum length of all core pieces that are 100mm or longer (measured along the centre

of the core), expressed as a percentage of the length of core run.

FI Fracture Index - The number of fractures per 1000mm length of solid core.

NI Non-intact - The material recovered in a non-intact state.

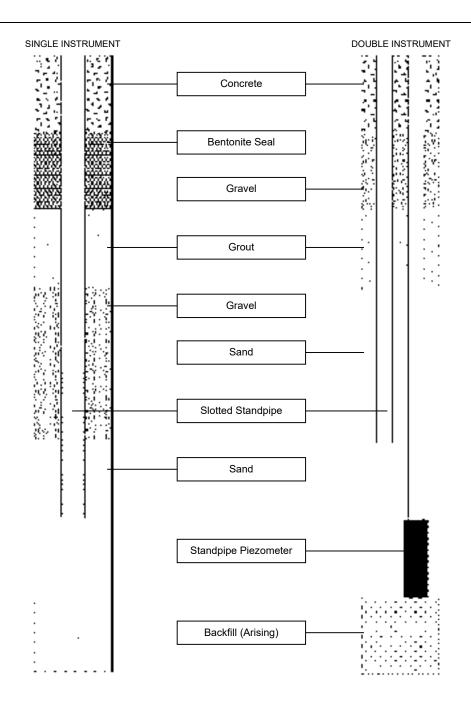
NR No recovery from the core run. These zones are based on the interpretation of the logging engineer and are

therefore potentially subjective.





Symbols and Abbreviations: Explanation of Instrumentation Legends Used





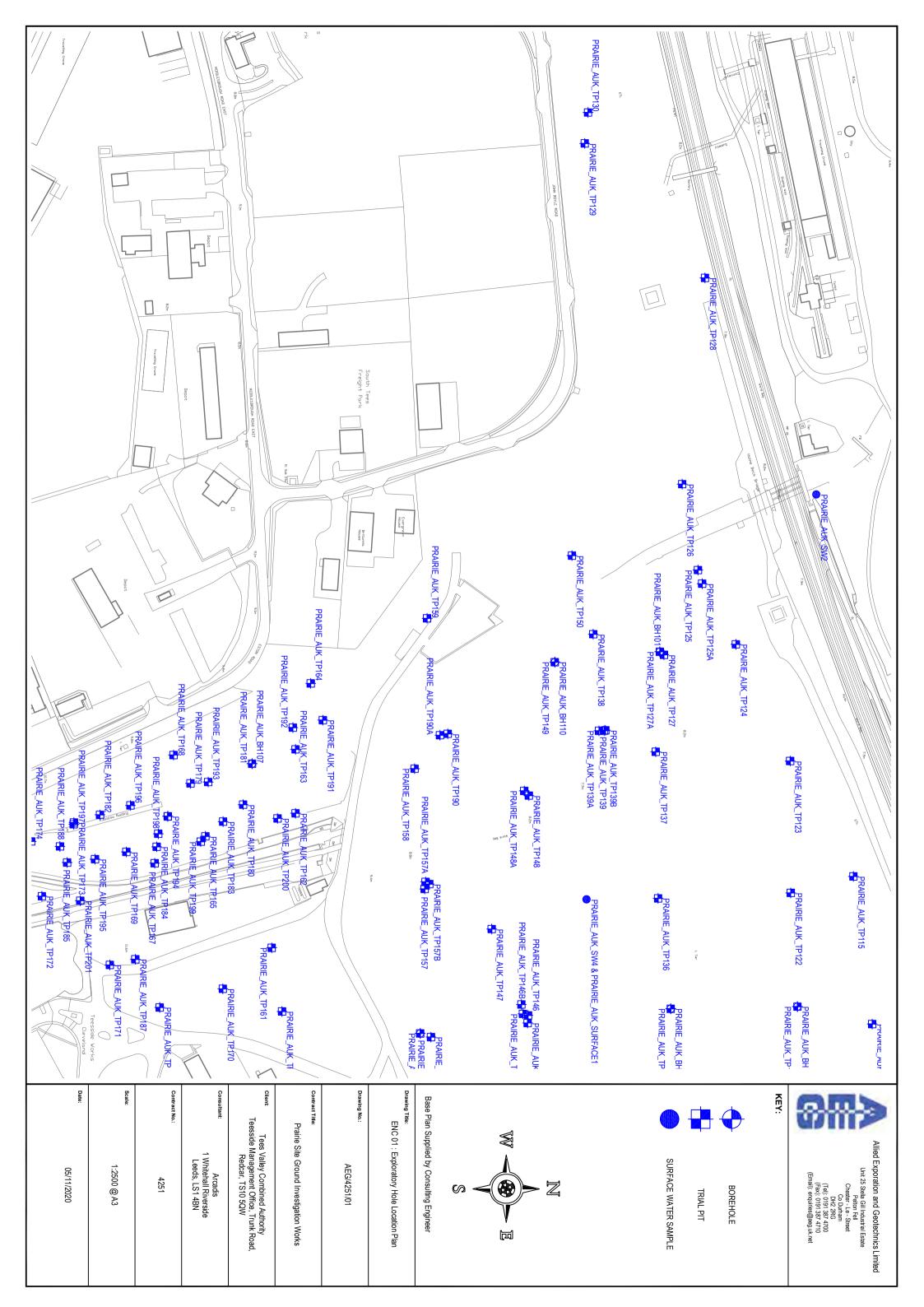


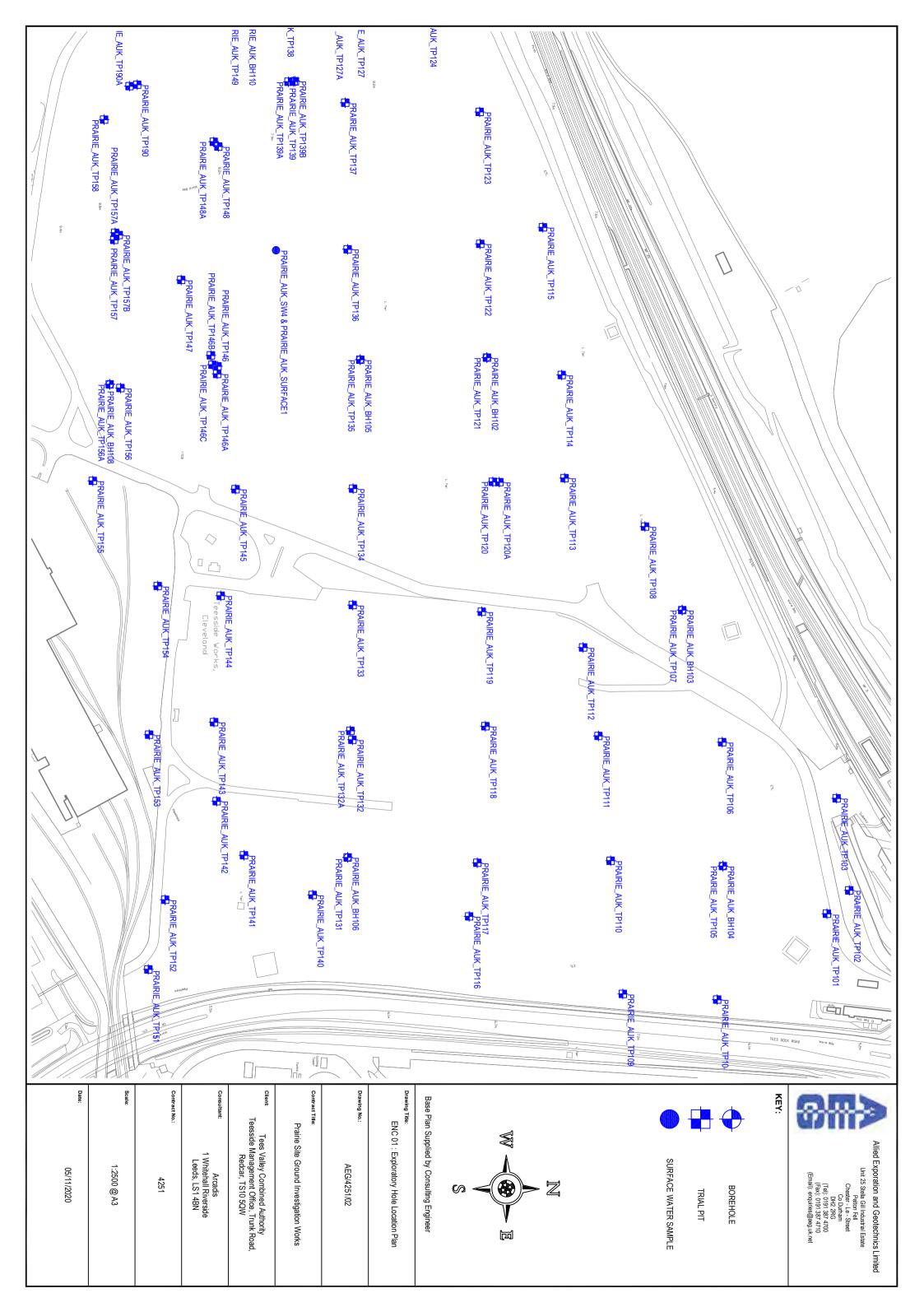
Symbols and Abbreviations: Explanation of Legends Used

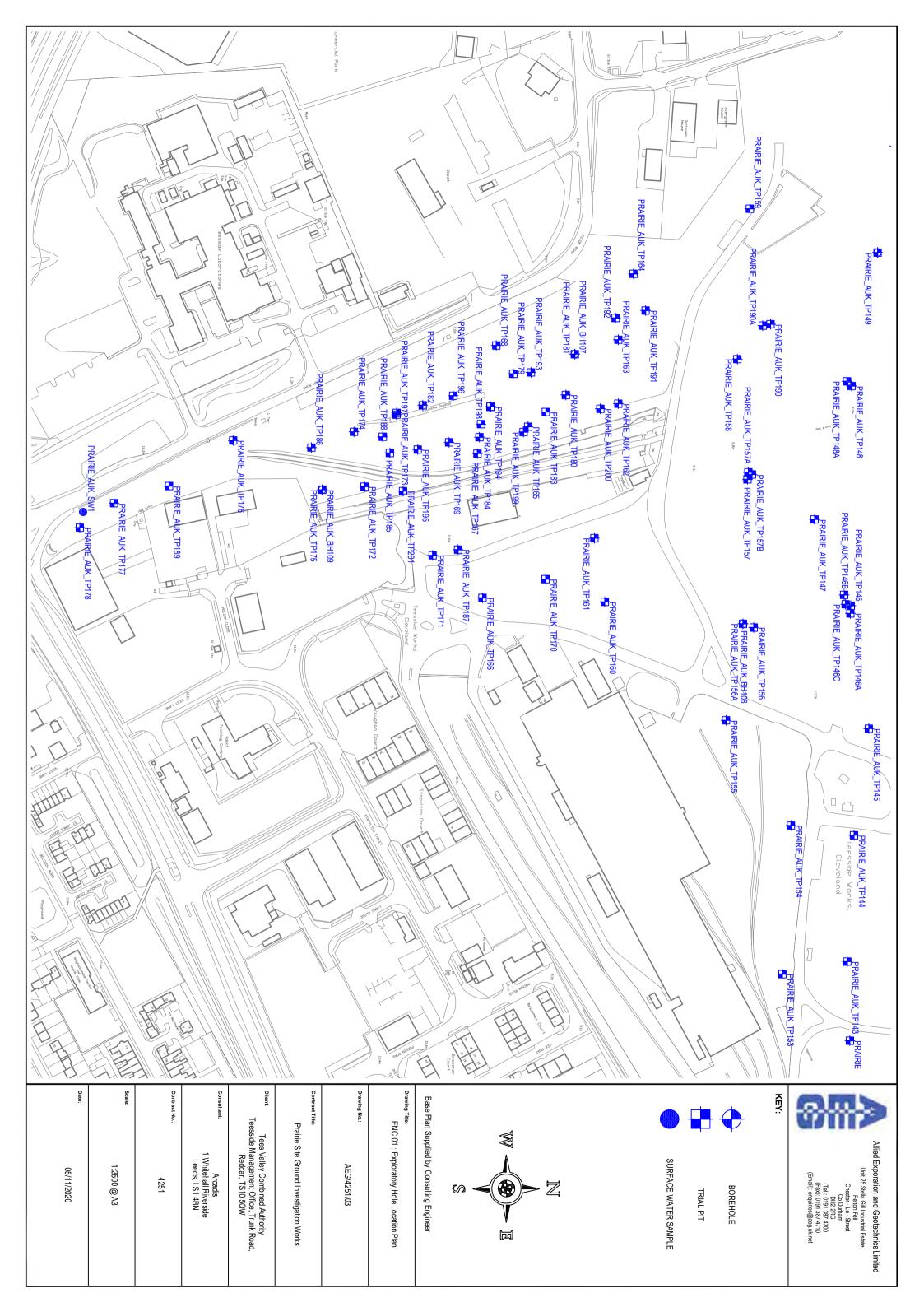
				Ro	cks			
Soils	s	Sedim	entary	Metan	norphic	Igneous		
	Made Ground		Chalk		Coarse Grained		Coarse Grained	
	Cobbles and Boulders		Limestone	:	Medium Grained		Medium Grained	
101010 1010101 1010101	Gravel	700030 77.000 0000 1003 713354 8888	Conglomerate		Fine Grained		Fine Grained	
	Sand	8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Breccia					
	Silt		Sandstone					
	Clay		Siltstone					
	Peat	:	Mudstone					
	Topsoil		Shale					
Note: Composite s signified by combin			Coal					
	Silty Sand		Pyroclastic (Volcanic Ash)					
			Gypsum					

Exploratory Hole Location Plan









Borehole Records



Borehole Summary Table

Exploratory Hole Number	Drilling Method	Completion Depth (m BGL)	Depth of installation (m BGL)	Diameter/Type of instrumentation	Instrumentation Response zone (m BGL)	Remarks
PRAIRIE_A	СР	18.40	10.00	19mm diameter standpipe piezometer	4.00-10.00	Advanced through - PRAIRIE AUK TP127A.
UK_BH101	OI .	10.40	16.50	50mm diameter slotted standpipe 14.50-16.50		Advanced to required depth.
PRAIRIE_A UK_BH102	СР	8.00	7.20	50mm diameter slotted standpipe	2.00-7.20	Advanced through PRAIRIE_AUK_TP121. Advanced to required depth.
PRAIRIE_A UK_BH103	СР	13.80	8.50	50mm diameter slotted standpipe	3.00-8.50	Advanced through PRAIRIE_AUK_TP107. Advanced to required depth.
PRAIRIE_A UK_BH104	CP+RC	18.50	18.50	50mm diameter slotted standpipe	14.50-18.50	Advanced through PRAIRIE_AUK_TP105. Continued by rotary coring from 13.50m BGL. Advanced to required depth.
PRAIRIE_A UK_BH105	СР	12.00	11.00	50mm diameter slotted standpipe	8.00-11.00	Advanced through PRAIRIE_AUK_TP135. Advanced to required depth.
PRAIRIE_A UK_BH106	СР	10.80	10.00	50mm diameter slotted standpipe	4.00-10.00	Advanced through PRAIRIE_AUK_TP131. Advanced to required depth.
PRAIRIE_A UK_BH107	СР	9.50	9.50	50mm diameter slotted standpipe	4.00-8.00	Advanced through PRAIRIE_AUK_TP181. Advanced to required depth.
PRAIRIE A	CD DC	44.00	6.00	19mm diameter standpipe piezometer	3.00-6.00	Advanced through PRAIRIE_AUK_TP156A.
UK_BH108	CP+RC	14.00	14.00	50mm diameter slotted standpipe	10.00-14.00	Continued by rotary coring from 9.50m BGL. Advanced to required depth.
PRAIRIE_A UK_BH109	CP+RC	11.80	11.80	50mm diameter slotted standpipe	7.80-11.80	Advanced adjacent to PRAIRIE_AUK_TP175. Continued by rotary coring from 6.80m BGL. Advanced to required depth.
PRAIRIE_A UK_BH110	CP+RC	20.80	20.80 the applicable Borel	50mm diameter slotted standpipe	16.80-20.80	Advanced through PRAIRIE_AUK_TP149. Continued by rotary coring from 15.80m BGL. Advanced to required depth.

CP = Cable Percussion, RC = Rotary Coring



Head Office: Regional Office Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2R

Tel: 0191 387 4700 Fax: 0191 387 4710

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BOREHOLE RECORD

Status:- FINAL

Project:	Prairie Site Ground Inve	estigation Wo	rks		Exploratory Hole No.
Client:	South Tees Development Corporation	Location:	E:454312.599 N:521393.25	54	PRAIRIE_AUK_BH101
Method (Ed	quipment): Cable Percussion (Dando 2000)		Ground Level (m): 8.644	Start Date: 27/04/2020	Sheet: 1 of 3

SAMPL	ES & TI	ESTS					STRATA	Instrument/ Backfill		
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description			
				8.24		(0.40) 0.40	MADE GROUND (Brown grey sand and gravel. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded and includes slag, concrete, macadam and roadstone. Slag content is 0-25%. Slag is vesicular grey green white). MADE GROUND (Red brown sandy gravel with medium cobble content and fragments of metal. Gravel is fine to coarse subangular and includes red brick, concrete, slag and refractory brick. Slag content is 0-25%. Slag is vesicular grey green white).	2888888888888888888888888888888888888		
			Ť	5.64		(1.90 - - - - - - - - - - - - - - - - - - -	Firm yellow brown mottled grey sandy CLAY. (Possible Made Ground).			
3.00 3.00-3.45 3.00 3.45	ES1 U2 PID J3	(45) 0.2ppm	=		× × × × × × × × × × × × × × × × × × ×		Soft to firm thinly laminated brown slightly sandy slightly gravelly silty CLAY with fine yellow brown sand on the laminae. at c.3.00m BGL low strength. Clay is of intermediate plasticity.			
4.00-4.45 4.00-4.45 4.50	B5 SJ4 J6	N13			X X X X X X X X X X X X X X X X X X X	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	at c.4.00m BGL slightly sandy silty clay.			
5.00-5.45	U7 J8	(60)			× × × × × × × × × × × × × × × × × × ×	7 	at c.5.00m BGL low strength. Clay is of intermediate plasticity.			
6.00-6.45 6.00-6.45 7.50	B10 SJ9	N17			X	(7.60)				
7.50	JII				<u>x x</u> x x x					

Boring Progress and Water Observations				tions	Chis	elling	Water Added	General	
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	Remarks	
27/04/2020	0.00	0.00	200					(1) Description derived from (2) Advanced through trial PRAIRIE_AUK_TP127A. D 0.00-3.00m BGL derived fn PRAIRIE_AUK_TP127A. (3) Water strikes at 3.00 ar rose to 2.58 and 12.36m B (4) Double installation: 1No standpipe piezometer and slotted standpipe installed I between 14.50-16.50m BG	pit escriptions between om Id 14.80m - water level GL (20mins) respectively. 19mm diameter 1No. 50mm diameter between 4.00-10.00m and
All dimensions in metres For expla			nation of symbo	ols and	Checked by:	Logged by:	Contract No.		

All dimensions in metres
Scale 1:50

For explanation of symbols and abbreviations see Key Sheets

Checked by:
K. W

Logged by:
K. Russell-Clamp

4251

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BOREHOLE RECORD

Status:-**FINAL**

Project:	Prairie Site Ground Inve	estigation Wo	rks		Exploratory Hole No.
Client:	South Tees Development Corporation	Location:	E:454312.599 N:521393.25	54	PRAIRIE_AUK_BH101
Method	(Equipment): Cable Percussion (Dando 2000)		Ground Level (m): 8.644	Start Date: 27/04/2020	Sheet: 2 of 3

SAMP	LES & T	ESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	Instrument/ Backfill	
8.00-8.45 8.45	U12 J13	(65)			Xo X	- - - - - - - - - - - - - - - - - - -	Soft to firm thinly laminated brown slightly sandy slightly gravelly silty CLAY with fine yellow brown sand on the laminae. <i>(continued)</i> at c.8.00m BGL medium strength.		
9.00	J14				*				
9.50-9.95 9.50-9.95	B16 SJ15	N18			** - * - * - * - * - * - * - * - * - *				
10.50	J17			-1.96		10.60	Firm to stiff red brown slightly sandy gravelly CLAY. Gravel is fine to coarse subangular and includes sandstone, mudstone, siltstone and coal.		
11.00-11.45	U18	(100)			<u> </u>	(1.70)	at c.11.00m BGL high strength. Clay is of low plasticity.		
11.45	J19								
12.00	J20		<u>2</u> <u>∑</u>	-3.66		12.30	Stiff to very stiff brown slightly sandy slightly gravelly CLAY.		
12.50-12.95 12.50-12.95	B22 SJ21	100/285mm				-	Gravel is fine to coarse subangular to subrounded and includes sandstone, mudstone and siltstone. at c.12.50m BGL with cobbles noted.		
13.50	J23					(2.50) -			
14.00-14.45 14.00-14.45	B25 SJ24	100/285mm	2	-6.16		- - - - - - - - - - - - - - - - - - -			
15.00	J26		\ <u>₹</u>	-0.10		-	Firm to stiff dark brown very sandy slightly gravelly CLAY. Gravel is fine to coarse subangular and includes sandstone, mudstone and siltstone.	000	
15.50-15.95 15.50-15.95	B28 SJ27	100/245mm				(1.40) - - - -		000	

Boring Progress and Water Observations			Chise	elling	Water Added	General			
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	Remarks	
27/04/2020 28/04/2020	10.50 10.50	10.03 10.03	200 200	Dry 9.82				(1) Description derived fron (2) Advanced through trial PRAIRIE_AUK_TP127A. D 0.00-3.00m BGL derived fn PRAIRIE_AUK_TP127A. (3) Water strikes at 3.00 ar rose to 2.58 and 12.36m B (4) Double installation: 1No standpipe piezometer and slotted standpipe installed I between 14.50-16.50m BG	pit escriptions between om Id 14.80m - water level GL (20mins) respectively. 19mm diameter 1No. 50mm diameter between 4.00-10.00m and
							Chacked by:	Loggod by:	Contract No

All dimensions in metres For explana Scale 1:50 abbreviation	tion of symbols and ns see Key Sheets Checked by:	Logged by: K. Russell-Clamp	Contract No. 4251
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Cable Percussion (Dando 2000)

Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Tel: 0191 387 4700 Fax: 0191 387 4710 Init 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL Tel: 01772 735 300 Fax: 01772 735 999

Start Date: 27/04/2020

3 of 3

Project:

Client:

Method (Equipment):

Status:-**BOREHOLE RECORD FINAL** Prairie Site Ground Investigation Works Exploratory Hole No. Location: PRAIRIE_AUK_BH101 South Tees Development Corporation E:454312.599 N:521393.254

Ground Level (m): 8.644

								_
SAMPI	ES & T	ESTS					STRATA	ent/ ≡
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	Instrument/ Backfill
16.50	J29			-7.56	0	16.20 - - - -	Stiff to very stiff dark brown slightly sandy gravelly CLAY. Gravel is fine to coarse subangular to subrounded and includes sandstone, mudstone and siltstone. (Driller notes sand interbeds).	
17.00-17.45 17.00-17.45	B31 SJ30	N55		0.00		(1.50) - - - - - - - - - - - - - - - - - - -		
18.00 18.00 18.00	J32 B34 SJ33	100/25mm		-9.06 -9.76		17.70 - - (0.70) - 18.40	Weak red brown MUDSTONE with gypsum interbeds.	
18.40	SJ35	100/20mm					Complete at 18.40m BGL.	

Boring	g Progres	s and Wat	er Observa	tions	Chise	lling	Water Added	General	
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To Duration (hh:mm)		From - To	Remarks	
28/04/2020 29/04/2020 29/04/2020	17.50 17.50 18.40	16.80 16.80 18.20	200 200 200	12.06 10.47 11.02	16.20 - 17.00 17.70 - 18.00	3:30 1:00		(1) Description derived from drillers daily report. (2) Advanced through trial pit PRAIRIE_AUK_TP127A. Descriptions between 0.00-3.00m BGL derived from PRAIRIE_AUK_TP127A. (3) Water strikes at 3.00 and 14.80m - water level rose to 2.58 and 12.36m BGL (20mins) respectively. (4) Double installation: 1No. 19mm diameter standpipe piezometer and 1No. 50mm diameter slotted standpipe installed between 4.00-10.00m and between 14.50-16.50m BGL respectively.	

All dimensions in metres Scale 1:50	For explanation of symbols and abbreviations see Key Sheets	Checked by:	Logged by: K. Russell-Clamp	Contract No. 4251
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	BOR	Status:-	NAL	
Project:	Prairie Site Ground Inve		Explorato	ory Hole No.
Client:	South Tees Development Corporation	6	PRAIRIE_	AUK_BH102
Method (Eq	uipment): Cable Percussion (Dando 2000)	Sheet:	of 1	

	,							_
SAMPL	ES & TE	ESTS					STRATA	ent/
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	Instrument/ Backfill
						(0.90)	MADE GROUND (Brown slightly gravelly sand. Sand is fine to coarse. Gravel is fine to coarse subangular and includes brick and slag).	A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
6.00-7.00	B1			7.31		(7.10)	MADE GROUND (Blue grey sandy gravel. Gravel is fine to coarse subangular to subrounded and includes slag. Slag content is 75-100%. Slag is vesicular. Slight hydrocarbon odour noted).	
7.00-8.00	B2						at c.7.00-8.00m BGL driller notes 'large crushed metal'.	

Complete at 8.00m BGL.

Borin	g Progres	s and Wat	er Observa	tions	Chis	elling	Water Added	General		
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To Duration (hh:mm)		From - To	Rem	arks	
09/04/2020 09/04/2020 14/04/2020 14/04/2020	0.00 6.00 6.00 8.00	0.00 6.00 6.00 7.20	200 200 200 200 200	1.00 1.06 0.96	6.00 - 8.00	6:00		(1) Description derived from (2) Advanced through trial Descriptions between 0.00-PRAIRIE_AUK_TP121. (3) 50mm diameter slotted 7.20m BGL. (4) Borehole collapsed bac	oit PRAIRIE_AUK_TP121. 4.50m BGL derived from standpipe installed to	
						1	<u> </u>	T		

Checked by: Logged by: K. Russell-Clamp Contract No. 4251 All dimensions in metres Scale 1:50 For explanation of symbols and abbreviations see Key Sheets

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Tel: 0191 387 4700 Fax: 0191 387 4710

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BOREHOLE RECORD

FINAL

Status:-

Project:	Prairie Site Ground Inve	Exploratory Hole No.		
Client:	South Tees Development Corporation	PRAIRIE_AUK_BH103		
Method (Eq	uipment): Cable Percussion (Dando 2000)	Ground Level (m): 7.683	Start Date: 07/04/2020	Sheet: 1 of 2

CAMDI					STRATA			
SAMPI	_ES & T		_ 				STRATA	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	Instru Ba
				7.58		((1.50)	MADE GROUND (Brown sandy gravelly topsoil. Sand is fine to coarse. Gravel is fine to coarse subangular and includes concrete, red brick and roadstone). MADE GROUND (Firm yellow brown mottled grey sandy slightly gravelly clay with medium cobble content and fragments of wood and metal. Gravel is fine to coarse subangular to subrounded and includes red brick and sandstone. Cobbles are subangular and include red brick).	
				5.58		(0.50)	MADE GROUND (Black gravelly sand with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse subangular and includes ash, macadam, coke and slag. Slag content is 25-50%. Slag is iron rich in places (rust). Cobbles are subangular and include fused coke).	
2.50 2.50-2.95	ES1 U2	(30)		4.88		(0.70) - 2.80	Firm to stiff grey brown slightly sandy CLAY. at c.2.50m BGL medium strength.	
2.50 2.95	J3	<0.1ppm		4.00	× × × × × × × × × × × × × × × × × × ×	2.80	Firm laminated grey dark brown sandy silty CLAY with occasional sand lenses. Sand is fine to medium. at c.2.95m BGL medium strength.	
3.50 3.50-3.95 3.50-3.95	J4 B6 SJ5	N20			× × × × × × × × × × × × × × × × × × ×			
4.50 4.50-4.95	J7 U8	(25)			× × × × × × × × × × × × × × × × × × ×	- - - - - - - - - - - - - - - - - - -	at c.4.50m BGL medium strength.	
5.50 5.50-5.95 5.50-5.95	J10 B12 SJ11	N21			X X X X X X X X X X X X X X X X X X X	(5.50)		
6.50	J13				X X X X X X X X X X X X X X X X X X X			
7.00-7.45 7.00-7.50	U14 B16	(25)			× × × ·	<u> </u>	at c.7.00m BGL medium strength.	0 0 0
7.45	J15				X X X X X X X X X X X X X X X X X X X] - - - - - - -		

Borin	g Progres	s and Wat	er Observa	itions	Chise	elling	Water Added	Gen	neral	
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	Remarks		
08/04/2020	0.00	0.00	200					(1) Description derived fror (2) Advanced through trial Descriptions between 0.00-PRAIRIE_AUK_TP107. (3) 50mm diameter slotted between 3.00-8.50m BGL.	pit PRAIRIE_AUK_TP107. -2.50m BGL derived from	
All din	nensions ii Scale 1:5				nation of symbo		Checked by:	Logged by: J. Myall	Contract No. 4251	

Cable Percussion (Dando 2000)

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Project:

Client:

Method (Equipment):

Status:-**BOREHOLE RECORD FINAL** Prairie Site Ground Investigation Works Exploratory Hole No. Location: PRAIRIE_AUK_BH103 South Tees Development Corporation E:454800.537 N:521660.804 Ground Level (m): S 7.683 Start Date: 07/04/2020

SAMPI	LES & T	ESTS					STRATA	īt/
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	Instrument/ Backfill
8.00	J17			-0.62	× ×	8.30		0000
8.50-8.95 8.50-8.95	B19 SJ18	N37		0.02			Firm to stiff brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to medium subrounded and includes sandstone, mudstone and limestone. at c.8.50m BGL clay is of low plasticity.	
9.50	J20					(2.40)		
10.00-10.45	U21	(75)			<u></u>	- - -	at c.10.00m BGL high strength.	
10.45	J22			-3.02		10.70		-
11.00	J23				-	- - - - - - -	Stiff to very stiff grey brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subrounded and includes sandstone, mudstone and limestone.	
11.50-11.95 11.50-11.95	B25 SJ24	N80				(2.00)		
12.50	J26			-5.02		12.70		
13.00-13.45 13.00	B28 SJ27	100/200mm				- - - (1.10)	Extremely weak thinly laminated red sandy MUDSTONE residual. at c.13.00m BGL clay fines are low plasticity.	
13.50 13.50	J29 SJ30	100/130mm		-6.12		13.80		
						- - - - - - - - - - - - - - - - - - -	Complete at 13.80m BGL.	

Boring	Boring Progress and Water Observations Chiselling						Water Added	Ger	eral
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	Rem	arks
08/04/2020 09/04/2020 09/04/2020	11.00 11.00 13.80	10.80 10.80 10.80	200 200 200	Dry Dry Dry	13.20 - 13.50	1:00		(1) Description derived fror (2) Advanced through trial Descriptions between 0.00 PRAIRIE_AUK_TP107. (3) 50mm diameter slotted between 3.00-8.50m BGL.	pit PRAIRIE_AUK_TP107. -2.50m BGL derived from
A 11 11								Loggod by:	Contract No.

All dimensions in metres	For explanation of symbols and abbreviations see Key Sheets	Checked by:	Logged by:	Contract No.
Scale 1:50		K, W	J. Myall	4251

Status:-

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		BOREHOLE RECORD	
Project:		Prairie Site Ground Investigation Works	

	BOR	FINAL			
Project:	Prairie Site Ground Inve	stigation Wo	rks		Exploratory Hole No.
Client:	South Tees Development Corporation	Location:	E:455006.172 N:521693.4	93	PRAIRIE_AUK_BH104
Method (Eq	quipment): Percussion/Rotary (Dando 2000/Boart Longyear DB5	40)	Ground Level (m): 8.696	Start Date: 03/04/2020	Sheet: 1 of 2

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SAMP	LES & T	ESTS			1		STRATA	ent/
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	Instrument/ Backfill
				8.65		0.05/	MADE GROUND (Brown sandy topsoil. Sand is fine to coarse).	<i>P</i> ₄
					\bowtie	(0.55)	MADE GROUND (Strong grey concrete).	
				8.10	\bowtie	0.60		x
						(0.90)	MADE GROUND (Grey brown sandy gravel with medium cobble content. Gravel is fine to coarse subangular to subrounded and includes slag and concrete. Slag content is 50-75%. Slag is vesicular green grey. Cobbles are subangular and include slag).	
				7.20		1.50		
						(2.70)	MADE GROUND (Firm brown slightly sandy slightly gravelly clay with low cobble content. Gravel is fine to coarse subangular and includes sandstone, mudstone, slag and red brick. Cobbles are subangular and include red brick and slag. Slag content is 0-25%. Slag is vesicular grey green white).	
				4.50		4.20	MADE GROUND (Firm grey brown slightly sandy slightly gravelly	****
				4.30		4.40 - - - (1.10)	clay with some partially decomposed plant remains. Gravel is fine to coarse subangular and include slag and red brick. Slag content is 0-25%. Slag is vesicular grey green white. Organic odour noted). (1) Stiff red brown slightly sandy slightly gravelly CLAY.	
				3.20	<u> </u>	5.50		
5.50 5.50-5.95 5.50 5.95	ES1 U2 PID J3	(100) 0.2ppm			0	-	Stiff brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subrounded and includes sandstone, mudstone, coal and limestone. at c.5.50m BGL high strength. at c.5.95m BGL clay is of high plasticity.	
0.50	J4					ļ		
7.00-7.45 7.00-7.45	B6 SJ5	N32						

Borin	ng Progres	s and Wat	er Observa	itions	Chiselling Water Added		Gen	eral	
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	Rem	arks
03/04/2020	0.00	0.00	200					(1) Description derived fron (2) Advanced through trial I Descriptions between 0.00- PRAIRIE_AUK_TP105. (3) 50mm diameter slotted between 14.50-18.50m BG	bit PRAIRIE_AUK_TP105. 5.50m BGL derived from standpipe installed
All din	nensions ii Scale 1:5				nation of symbo		Checked by:	Logged by: J. Myall	Contract No. 4251

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SAMP	LES & T	ESTS					STRATA	=ut/
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	Instrument/ Backfill
8.00 8.50-8.95	J7 U8	(100)			<u> </u>	(5.40) 	Stiff brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subrounded and includes sandstone, mudstone, coal and limestone. <i>(continued)</i> at c.8.50m BGL high strength.	
8.95	J9				 	- - - - - - -		
9.50	J10					- - - - -		
10.00-10.45 10.00-10.45	B12 SJ11	N36		-2.20		- - - - - - - - - - - - - - - - - - -		
11.00 11.00-11.50	J13 B14			2.20		-	Extremely weak thinly laminated sandy red brown MUDSTONE residual. at c.11.00m BGL clay fines are of low plasticity.	
11.50	U*15	(100)				- - - - -		
12.00-12.45 12.00-12.45	B17 SJ16	100/270mm				(2.60) - - - - - - -		
13.00-13.45	SJ18	100/225mm		-4.81		13.50		
							Boring complete at 13.50m BGL - continued by rotary drilling.	

Date Depth Casing (mm) Casing Dia (mm) Water Standing From - To (mm) 03/04/2020 13.00 12.30 200 Dry 11.70 - 12. 06/04/2020 13.00 12.30 200 Dry 06/04/2020 13.50 12.80 200 Dry	(nn:mm)	From - To	(1) Description derived from (2) Advanced through trial Descriptions between 0.05 PRAIRIE AUK TP105.	pit PRAIRIE AUK TP105.
06/04/2020 13.00 12.30 200 Dry	.00 0:00		(2) Advanced through trial place Descriptions between 0.00-	pit PRAIRIE AUK TP105.
			(3) 50mm diameter slotted between 14.50-18.50m BG	

All dimensions in metres Scale 1:50	For explanation of symbols and abbreviations see Key Sheets	Checked by:	Logged by: J. Myall	Contract No. 4251

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DRILLHOLE RECORD

Status:- FINAL

Project: Prairie Site Ground Inve	Prairie Site Ground Investigation Works											
Client: South Tees Development Corporation	th Tees Development Corporation Location: E:455006.172 N:521693.493											
Method (Equipment): Percussion/Rotary (Dando 2000/Boart Longyear DB5		Ground Level (m): 8.696	Start Date: 03/04/2020	Sheet: 1 of 3								

RUN	DETA	AILS					STRATA		int/
Depth	TCR	ture	ter	Reduced	Langua	Depth	Descr	ription	Instrument/ Backfill
(Core Ø)	(SCR) RQD	Fracture	Water	Level	Legend	(Thickness)	Discontinuity Detail	Main	lust B
13.50	100 (50) 50	NI		-4.81		13.50	13.50-13.90m non-intact.	Extremely weak thinly and thickly laminated sandy red brown MUDSTONE distinctly weathered to residual.	
(mm26)		7				-	13.90-14.50m subhorizontal (5-30 degrees) medium spaced undulating rough open clean and infilled (sand and gravel) discontinuities.		
(92mm)	100 (45) 15	NI				-(2.00) - - - - -	14.50-15.15m non-intact.		
15.50	0.7	8		-6.80		- - - 15.50	15.15-15.50m subhorizontal (5-30 degrees) medium spaced undulating rough moderately open clean discontinuities.		
(mm26)	67 (O) o	NI				-	15.50-17.00m non-intact.	Extremely weak thinly and thickly laminated sandy red brown MUDSTONE residual. (Recovered as firm red brown slightly sandy gravelly clay. Sand is fine to coarse. Gravel is fine to medium angular and includes mudstone). at c.15.50m clay fines are of low plasticity.	
17.00	0	NR				(3.00)	17.00-17.50m no recovery.		000
(mm ()	(0)					-			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Drilling	Drilling Progress and Water Observations					tration Test		Flush		General		
Date	Depth	Casing	Water Standing	Depth	Туре	Result	From - To	Туре	Returns (%)	Remarks		
07/04/2020	13.50	12.80	Dry				13.50 - 14.50 14.50 - 15.50 15.50 - 17.00 17.00 - 17.50 17.50 - 18.50	Water 100 (1) Description derived from drillers da (2) Advanced through trial pit PRAIRIE_AUK_TP105. Descriptions b 0.00-5.50m BGL derived from Water 100 PRAIRIE_AUK_TP105.		al pit Descriptions between I from ed standpipe installed		
All dimensions in metres Scale 1:25						tion of syn	nbols and y Sheets	/	ked by:	Logged by: J. Myall	Contract No. 4251	

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Status:-DRILLHOLE RECORD **FINAL**

Project:	Prairie Site Ground Inve	Exploratory Hole No.			
Client:	South Tees Development Corporation	Location:	E:455006.172 N:521693.49	PRAIRIE_AUK_BH104	
Method (Equipment): Percussion/Rotary (Dando 2000/Boart Longyear DB5		Ground Level (m): 8.696	Start Date: 03/04/2020	Sheet: 2 of 3

RUN	RUN DETAILS STRATA			nt/					
Depth	TCR	ture	ter	Reduced		Depth		ription	Instrument/ Backfill
(Core Ø)	TCR (SCR) RQD	Fracture Index	Water	Level	Legend	(Thickness)	Discontinuity Detail	Main	Inst
(92mm)	100 (0) 0	NI		-9.80		- - - - - - - 18.50	17.50-18.50m non-intact.	at c.17.50m clay fines are of low plasticity. Extremely weak thinly and thickly laminated sandy red brown MUDSTONE residual. (Recovered as firm red brown slightly sandy gravelly clay. Sand is fine to coarse. Gravel is fine to medium angular and includes mudstone). (continued)	
				-9.00		10.30		Complete at 18.50m BGL.	

Drilling	Drilling Progress and Water Observations					tration Test	Flush			General		
Date	Depth	Casing	Water Standing	Depth	Туре	Result	From - To	Туре	Returns (%)	Remarks		
07/04/2020	18.50	13.50	7.23							(1) Description derived fi (2) Advanced through tri PRAIRIE_AUK_TP105. 0.00-5.50m BGL derived PRAIRIE_AUK_TP105. (3) 50mm diameter slott between 14.50-18.50m f	al pit Descriptions between I from ed standpipe installed	
All din	All dimensions in metres					tion of syn	nbols and	<i>k</i>	ked by:	Logged by: J. Mvall	Contract No. 4251	

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DRILLHOLE RECORD

Status:-**FINAL**

Project:	Prairie Site Ground Inve	Prairie Site Ground Investigation Works										
Client:	South Tees Development Corporation	PRAIRIE_AUK_BH104										
Method (Ed	_{quipment):} Percussion/Rotary (Dando 2000/Boart Longyear DB5		Ground Level (m): 8.696	Start Date: 03/04/2020	Sheet: 3 of 3							

Figure PRAIRIE_AUK_BH104.1 13.50-15.50m BGL



Figure PRAIRIE_AUK_BH104.2 15.50-18.50m BGL



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Project: Prairie Site Ground Investigation Works Client: South Tees Development Corporation E:454599.377 N:521402.034 Method (Equipment): Ground Level (m): Start Date: 16/04/2020 1 of 2

Guste Foroussion (Burido 2000)												
SAMPL	ES & TI	ESTS						STRAT	-A			ent/
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)			Descrip	tion		Instrume
3.00 3.00 3.00 3.00 3.45 4.00-4.45 4.00-4.45	Type No ES1 U2 PID J3 B5 SJ4	Test Result (80) <0.1ppm	.i.	7.16 6.66	Legend Legend X X X X X X X X X X X X X X X X X X		MADE C with mer Sand is subroun are suba is 0-25% MADE C and frag fine to c concrete and slag white). Firm ligh	GROUND (Brow GROUND (Black dium cobble cor fine to coarse. (ded and include angular and incl 6. Slag is vesicu GROUND (Black ments of wood, oarse subangul.	Descrip In sandy top k brown slig ntent and fr Gravel is fir es red brick lude red bri ular grey gre k sandy gra paper, tile, ar to subroi Cobbles ai s 0-25%. S slightly san	psoil). phtly clayey very agments of white to coarse son, concrete and concrete white). vel with high and glass and mounded and in resubangula lag is vesiculary. dy CLAY.	d slag. Cobbles ete. Slag content cobble content etal. Gravel is cludes brick, r and include coa	
5.00-5.45 5.45	U6 J7	(80)			—x — > 	- - - -	at c.5.50)m BGL medi	ium strengtl	h.		
6.00 6.50-6.95	J8 SJ9	N19		1.56	X X X X X X X X X X X X X X X X X X X	6.70		5m BGL clay i	is of interm	ediate plastic	ity.	
6.50-6.95 7.50	B10 J11			1.00			Firm to s Gravel is	stiff red brown s s fine to coarse ne, coal and lime	subrounde			

Borin	g Progres	s and Wat	er Observa	itions	Chise	elling	Water Added	General		
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	Remarks		
16/04/2020	0.00	0.00	200		(1) Description derived fror (2) Advanced through trial Descriptions between 0.00 PRAIRIE_AUK_TP135. (3) 50mm diameter slotted between 8.00-11.00m BBC (4) Water strikes at 3.00m level rose to 2.88m and 4.5 mins).		pit PRAIRIE_AUK_TP1353.00m BGL derived from standpipe installed . and 8.60m BGL - water			
All din					nation of symbo		Checked by:	Logged by: J. Myall	Contract No. 4251	

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		BOREHOLE RECORD	
Project:		Prairie Site Ground Investigation Works	

Status:-**FINAL**

Exploratory Hole No. Client: Location: PRAIRIE_AUK_BH105 South Tees Development Corporation E:454599.377 N:521402.034 Ground Level (m): 8.257 Start Date: 16/04/2020 Method (Equipment): Cable Percussion (Dando 2000) 2 of 2

SAMP	LES & T	ESTS			1		STRATA	ent/
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	Instrument/ Backfill
8.00-8.45	U12	(90)	•			- - - -	Firm to stiff red brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subrounded and includes sandstone, mudstone, coal and limestone. (continued)	0000
8.45	J13		<u></u>	-0.34	0 0 0	8.60	Very dense grey brown slightly clayey very sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse subangular to	0000
9.00 9.00-9.50	J14 B15				0-0-0	} 	subrounded and includes sandstone, mudstone and limestone.	0 0 0
9.50 9.50-9.95	SJ16 B17	100/185mm				(2.40)		0000
					0 5 0	- - - - - - - - -		
10.50	J18			-2.74	0 0 0	11.00		
11.00 11.00-11.20 11.20	SJ19 B20 SJ21	100/70mm 100/55mm				- - - (1.00)	Extremely weak dark red MUDSTONE residual with some gypsum interbeds. (Recovered as gravelly sand).	
				-3.74		12.00		
						-	Complete at 12.00m BGL.	
						- - -		
						_ - -		
						- - -		
						- - - -		
						- - - -		
						- - - -		
						- - - -		

Borin	g Progres	s and Wat	er Observa	tions	Chiselling Water Added		Water Added	General	
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To Duration (hh:mm)		From - To	Remarks	
16/04/2020 17/04/2020 17/04/2020 20/04/2020 20/04/2020	11.00 11.00 11.40 11.40 12.00	10.80 10.80 11.00 11.00 11.80	200 200 200 200 200 200	5.09 7.36 7.89 7.82 7.92	11.00 - 11.20	1:00		(1) Description derived from drillers daily report. (2) Advanced through trial pit PRAIRIE_AUK_TP135. Descriptions between 0.00-3.00m BGL derived from PRAIRIE_AUK_TP135. (3) 50mm diameter slotted standpipe installed between 8.00-11.00m BGL. (4) Water strikes at 3.00m and 8.60m BGL - water level rose to 2.88m and 4.32m BGL respectively (20 mins).	

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All dimensions in metres Scale 1:50	For explanation of symbols and abbreviations see Key Sheets	Checked by:	Logged by: J. Myall	Contract No. 4251

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Status:-**BOREHOLE RECORD FINAL**

Project:	Prairie Site Ground Inve	Exploratory Hole No.		
Client:	South Tees Development Corporation	PRAIRIE_AUK_BH106		
Method (Eq	uipment): Cable Percussion (Dando 2000)	Ground Level (m): 8.711	Start Date: 06/04/2020	Sheet: 1 of 2

SAMPLES & TESTS							STRATA	
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	Instrument/ Backfill
				8.21		(0.50) (0.50)	MADE GROUND (Grass over brown sandy gravelly topsoil. Gravel is fine to coarse subangular and includes brick, slag and concrete).	
				0.2.		(2.00)	MADE GROUND (Black grey sandy gravel with medium cobble content. Gravel is fine to coarse subangular to subrounded and includes slag, red brick and ash. Slag content is 75-100%. Slag is vesicular grey green white. Cobbles are subangular and include brick and cemented slag).	
				6.21		2.50		
						(1.00)	MADE GROUND (Firm grey mottled orange brown slightly sandy clay). (Possibly Natural Ground).	
				5.21		3.50		
				4.21		- - -(1.00) - - - - - - 4.50	Firm indistinctly laminated grey mottled orange brown slightly sandy CLAY.	
					0	- - - (1.00) - -	(1) Firm to stiff red brown slightly sandy gravelly CLAY.	
5.50 5.50-5.95 5.50 5.95	ES1 U2 PID J3	(100) <0.1ppm		3.21		5.50	Firm to stiff grey brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subrounded and includes sandstone, limestone, mudstone and coal.	
6.50	J4					}- - - - - -		
7.00-7.45 7.00-7.45	SJ5 B6	N27				(3.40) - - - - - - - -		

Borin	g Progres	s and Wat	er Observa	itions	Chis	elling	Water Added	General	
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	Rem	arks
06/04/2020	0.00	0.00	200					(1) Description derived fror (2) Advanced through trial Descriptions between 0.00- PRAIRIE_AUK_TP131. (3) 50mm diameter slotted 4.00-10.00m BGL.	pit PRAIRIE_AUK_TP131. -4.50m BGL derived from
All din	nensions ii Scale 1:5				nation of symbo tions see Key S		Checked by: \mathcal{K},\mathcal{W}	Logged by: J. Myall	Contract No. 4251

Head Office: Regional Office Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG

Tel: 0191 387 4700 Fax: 0191 387 4710

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BOREHOLE RECORD

Status:- FINAL

Project:	Exploratory Hole No.							
Client:	South Tees Development Corporation	South Tees Development Corporation Location: E:454999.256 N:521391.908						
Method (Eq	uipment): Cable Percussion (Dando 2000)	•	Ground Level (m): 8.711	Start Date: 06/04/2020	Sheet: 2 of 2			

SAMP	LES & T	ESTS			ı		STRATA	ent/
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	Instrument/ Backfill
8.00 8.50-8.95	J7 U8	(100)		-0.19		8.90	Firm to stiff grey brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subrounded and includes sandstone, limestone, mudstone and coal. <i>(continued)</i> at c.8.50m BGL very high strength.	
8.95	J9			0.10		-	Extremely weak thinly to thickly laminated dark grey slightly sandy MUDSTONE residual.	
9.50	J10					(1.90)	at c.9.50m BGL clay fines are of low plasticity.	0000
10.00-10.45 10.00-10.45	B12 SJ11	N52				- - - - - - - -		
10.50 10.50	J13	100/40mm		-2.09		10.80	at c.10.50-10.80m BGL blue light grey in colour.	

Boring Progress and Water Observations					Chiselling Water Add		Water Added	General	
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To Duration (hh:mm)		From - To	Rem	arks
06/04/2020	10.80	10.30	200	Dry	10.20 - 10.50	1:00		(1) Description derived fror (2) Advanced through trial Descriptions between 0.00 PRAIRIE AUK_TP131. (3) 50mm diameter slotted 4.00-10.00m BGL.	pit PRAIRIE_AUK_TP131. -4.50m BGL derived from
All dimensions in metres For expla					nation of symbo	ale and	Checked by:	Logged by:	Contract No.

All dimensions in metres Scale 1:50

For explanation of symbols and abbreviations see Key Sheets

Checked by: Logged by: Contract No. 4251

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BOREHOLE RECORD

Status:-**FINAL**

Project:		Exploratory Hole No.			
Client:	South Tees Development Corporation	Location:	E:454402.534 N:521065.53	35	PRAIRIE_AUK_BH107
Method (Eq	uipment): Cable Percussion (Dando 2000)		Ground Level (m): 10.158	Start Date: 24/04/2020	Sheet: 1 of 2

SAMP	LES & TI	ESTS					STRATA	£_
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	Instrument/ Backfill
				9.36		0.10 (0.70) 0.80 (0.90) 1.70	MADE GROUND (Brown clayey sand with many rootlets. Sand is fine to coarse and includes ash). MADE GROUND (Brown very sandy gravel. Sand is fine to coarse and includes ash. Gravel is fine to coarse subangular and includes red brick, concrete, ash, clinker and slag. Slag content is 0-25%). MADE GROUND (Grey cobbles and boulders. Cobbles are subangular and includes slag. Boulders are subangular and includes slag. Slag content is 100%. Slag is vesicular green grey). Firm becoming stiff brown red grey CLAY with occasional sand lenses and interlaminated silt and clay laminae.	
3.00 3.00-3.45 3.00 3.45	ES1 U2 PID J3	(60) 0.1ppm		7.16		3.00	Firm to stiff fissured brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium subangular and includes sandstone. at c.3.00m BGL low strength. Clay is of intermediate plasticity.	
4.00-4.45 4.00-4.45 4.50	B5 SJ4 J6	N17				-		
5.00-5.45	U7	(65)				- (4.10) - -	at c.5.00m BGL medium strength.	
5.45	J8					- - - - -		000000000000000000000000000000000000000
6.00	J9				0	- 		
6.50-6.95 6.50-6.95	SJ10 B11	N17		3.06		7.10	Firm to stiff and become distable and the fields	
7.50 7.50-8.00	J12 B13					- - - - - (1.60)	Firm to stiff red brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular and includes sandstone, mudstone and siltstone. at c.7.50m BGL clay is of low plasticity.	

Borin	g Progres	s and Wat	er Observa	itions	Chise	elling	Water Added	General Remarks	
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To		
24/04/2020	0.00	0.00	200		(minin)			(1) Description derived from drillers daily report. (2) Advanced through trial pit PRAIRIE_AUK_TP- Descriptions between 0.00-3.00m BGL derived fro PRAIRIE_AUK_TP181. (3) 50mm diameter slotted standpipe installed to 4.00-8.00m BGL.	
				nation of symbo itions see Key S		Checked by:	Logged by: K. Russell-Clamp	Contract No. 4251	

Method (Equipment):

Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Tel: 0191 387 4700 Fax: 0191 387 4710 Init 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL Tel: 01772 735 300 Fax: 01772 735 999

G	BOR	EHOLE I	RECORD		Status:- FINAL
Project:	Prairie Site Ground Inve		Exploratory Hole No.		
Client:	South Tees Development Corporation	Location:	E:454402.534 N:521065.53	5	PRAIRIE_AUK_BH107
Method (Equ	uipment): Cable Percussion (Dando 2000)		Ground Level (m): 10.158	Start Date: 24/04/2020	Sheet: 2 of 2

SAMF	LES & T	ESTS					STRATA		= t/
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Descript	tion	Instrument/ Backfill
8.00-8.45 8.45	U14 J15	(100)				-	Firm to stiff red brown slightly sand Gravel is fine to coarse subangular mudstone and siltstone. (continued)	y slightly gravelly CLAY. and includes sandstone,)	
0.40	313			1.46	_ <u>`</u>	8.70	Very weak red brown MUDSTONE	with hands of white avenum	
9.00-9.45 9.00-9.45	SJ16 B17	100/40mm				(0.80)	very weak red brown MODS FONE	with bands of write gypsum.	
				0.66		9.50			
						-	Complete at 9.50m BGL.		
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Borin	Boring Progress and Water Observations					elling	Water Added	General		
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	Remarks		
24/04/2020	9.50	8.80	200	Dry	8.70 - 9.00	1:00		(1) Description derived fror (2) Advanced through trial Descriptions between 0.00-PRAIRIE_AUK_TP181. (3) 50mm diameter slotted 4.00-8.00m BGL.	pit PRAIRIE_AUK_TP181. -3.00m BGL derived from	
All dimensions in metres For expla				nation of symbo	la and	Checked by:	Logged by:	Contract No.		

For explanation of symbols and abbreviations see Key Sheets All dimensions in metres Scale 1:50 Logged by: K. Russell-Clamp K.W 4251

Head Office: Regional Office Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL

Tel: 0191 387 4700 Fax: 0191 387 4710

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BOREHOLE RECORD

Project: Prairie Site Ground Investigation Works

Client: South Tees Development Corporation

E:454619.192 N:521200.662

Method (Equipment): Ground Level (m): Start Date: 15/04/2020 1 of 2

0.41450	SAMPLES & TESTS			STRATA					
SAMPL	LES & II	ESIS					STRATA	nent/ cfill	
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	Instrument/ Backfill	
				8.26		- (0.60) - 0.60	MADE GROUND (Black gravelly sand. Sand is fine to coarse. Gravel is fine to coarse subangular and includes ash, macadam, concrete).	88888888888888888888888888888888888888	
				8.06		0.80	MADE GROUND (Strong dark grey fine grained concrete or slag).		
						-	Firm orange brown mottled grey slightly sandy CLAY.		
						- - - -			
				6.36		2.50			
2.50 2.50-2.95 2.50	ES1 U2 PID	(75) <0.1ppm			× ·× ·> × ·× ·> × ·× ·>	- - -	Firm laminated red dark brown slightly sandy silty CLAY with silt dustings on the laminae. Sand is fine to medium.		
2.95	J3				×_ ×_ × × ×	- - -	at c.2.50m BGL high strength. Clay is of intermediate plasticity. at c.2.95m BGL clay is of high plasticity.		
3.50-3.95 3.50-3.95	SJ4 B5	N13			X · X · X · X · X · X · X · X · X · X ·	[(2.30)			
4.00	J6				*X *	- - - -			
4.50-4.95	U7	(90)		4.06	× -× -> × -× ->	4.80	at c.4.50m BGL medium to high strength.		
4.95 5.00	19 18				X - X - X - X - X - X - X - X - X - X -	- - - (1.00)	Firm laminated red dark brown sandy slightly gravelly silty CLAY. Sand is fine to medium. Gravel is fine to medium subrounded and includes sandstone, mudstone and limestone. at c.5.00m BGL clay is of low plasticity.		
5.50-5.95 5.50-5.95	B11 SJ10	N49		3.06		5.80			
						-	Stiff to very stiff dark brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular and includes sandstone, mudstone and limestone.		
6.50	J12				- o	- - (1.90)	at c.6.50m BGL clay is of low plasticity.		
7.00-7.45 7.00-7.45	SJ13 B14	N76			<u> </u>	-			
				1.16	<u> </u>	7.70			
						-			

Borin	g Progres	s and Wat	er Observa	itions	Chiselling		Water Added	General		
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	Remarks		
15/04/2020	0.00	0.00	200					(1) Description derived from drillers daily report. (2) Advanced through trial pit PRAIRIE_AUK_TP156A. Descriptions between 0.004-50m BGI derived from PRAIRIE_AUK_TP156A. (3) 1No. 19mm diameter standpipe piezometer a 1No. 50mm diameter slotted standpipe installed t 6.00m and 10.00-14.00m BGL respectively.		
				nation of symbols and tions see Key Sheets		Checked by:	Logged by: J. Myall	Contract No. 4251		

Status:-

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EE G		BOREHOLE RECORD	
Project:		Prairie Site Ground Investigation Works	

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Project:	Prairie Site Ground Inve		Exploratory Hole No.		
Client:	South Tees Development Corporation	Location:	E:454619.192 N:521200.66	62	PRAIRIE_AUK_BH108
Method (E	Equipment): Percussion/Rotary (Dando 2000/Comacchio Geo 30	15)	Ground Level (m): 8.863	Start Date: 15/04/2020	Sheet: 2 of 2

SAMP	LES & T	ESTS	-		ı		STRATA	nent/
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	Instrument/ Backfill
8.50-8.95 8.50-8.95	J15 SJ16 B17	100/55mm				(1.80)	Extremely weak thinly laminated grey MUDSTONE destructured with many interlaminations of extremely weak gypsum. (Recovered as clayey slightly sandy gravel). (continued) at c.8.00m BGL clay fines are of low plasticity.	
9.00 9.00-9.45	SJ18 B19	100/40mm				 - - -		
				-0.64		9.50	Boring complete at 9.50m BGL - continued by rotary drilling.	***** M
						- - -		
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Borir	Boring Progress and Water Observations				Chis	elling	Water Added	Gen	eral
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	Rem	arks
15/04/2020	9.50	8.80	200	Dry	8.70 - 9.00	1:00		(1) Description derived fron (2) Advanced through trial I PRAIRIE_AUK_TP156A. 0.00-4.50m BGL derived fr PRAIRIE_AUK_TP156A. (3) 1No. 19mm diameter st 1No. 50mm diameter slotte 6.00m and 10.00-14.00m E	oit escriptions between om andpipe piezometer and d standpipe installed to
All din	mensions i	n metres		For expla	nation of symbo	ols and	Checked by:	Logged by:	Contract No.

For explanation of symbols and abbreviations see Key Sheets K,WJ. Myall 4251 Scale 1:50

Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01772 735 909

Status:-

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Project:

DRILLHOLE RECORD FINAL Prairie Site Ground Investigation Works Exploratory Hole No. Location:

Client: PRAIRIE_AUK_BH108 South Tees Development Corporation E:454619.192 N:521200.662 Start Date: 15/04/2020 Method (Equipment):
Percussion/Rotary (Dando 2000/Comacchio Geo 305) Ground Level (m): 8.863 Sheet: 1 of 3

									1
RUN	DETA	AILS					STRATA		t
Depth	TCR	Fracture	ter	Reduced		Depth	Desci	ription	Instrument/ Backfill
(Core Ø)	(SCR) RQD	Frac	Water	Level	Legend	(Thickness)	Discontinuity Detail	Main	lnst H
9.50	0	NR		-0.64		9.50	9.50-11.00m no recovery.	(1) Red MUDSTONE.	*****
	(0) 0					1		(Driller describes as 'very weak' and	
(92mm)						Ī		broken down).	
6						1			
10.00									
	0 (0)					Γ			1º0 0
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(92mm)						(1.50)			0
5)									
10.50									000
	0 (0)								000
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(92mm)									0 0
<u> </u>									
11.00				-2.14		11.00			100
	80 (35) 18	NI				1	11.00-11.45m non-intact.	Extremely weak red brown MUDSTONE residual.	
	18					(0.45)		(Recovered as sandy clay).	
						(0.10)		, , , , , , , , , , , , , , , , , , , ,	°0 =0
_				-2.59		11.45			\^ ~ □
(92mm)		12				-	11.45-11.80m horizontal to subhorizontal (0-10	Medium strong to strong red brown	
6						}	degrees) closely to very closely spaced undulating rough stained (brown) discontinuities.	MUDSTONE partially weathered to unweathered with many interbeds of	000
						}		gypsum.	
		NR				-	11.80-12.00m no recovery.	671	0
						}			
12.00	100	12				}-	12.00-12.30m horizontal to subhorizontal (0-10		0 0
	(55) 44					-	degrees) closely to very closely spaced undulating rough stained (brown) discontinuities.		
						-	roagii sainoa (brown) alsoonanaacs.		
		NI				ł	12.30-12.86m non-intact.		000
E (E						ł			007
(92mm)						(2.15)			0
						†			
						†			0 0
		40				Ī			000
13.00		12				Ī	12.86-13.60m horizontal to subhorizontal (0-10 degrees) closely to very closely spaced undulating		000
	52					Γ	rough stained (brown) discontinuities.		0
	(52) 52					Ī			
						Ī			0
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									10 AB.

Drilling	Progress and	l Water Obser	vations	Standard Penetration Test			Flush			General	
Date	Depth	Casing	Water Standing	Depth	Туре	Result	From - To	Туре	Returns (%)	Rer	marks
04/05/2020	9.50	9.00	Dry				9.50 - 10.00 10.00 - 10.50 10.50 - 11.00 11.00 - 12.00 12.00 - 13.00 13.00 - 14.00	W W W W W	50 50 50 50 50 100	(1) Description derived f (2) Advanced through tr PRAIRIE_AUK_TP156A 0.00-4.50m BGL derived PRAIRIE_AUK_TP156A (3) 1No. 19mm diamete and 1No. 50mm diamete installed to 6.00m and 1 respectively.	Descriptions between d from r standpipe piezometer er slotted standpipe
All dimensions in metres Scale 1:25			For explanation of symbols abbreviations see Key					Logged by: J. Myall	Contract No. 4251		

Location:

A	Head Office: Regional Office:	Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL	Tel: 0191 387 4700 Fax: 0191 Tel: 01772 735 300 Fax: 01772
		DRILLHOLE RECORD	
Project:		Prairie Site Ground Investigation Works	

South Tees Development Corporation

Method (Equipment):
Percussion/Rotary (Dando 2000/Comacchio Geo 305)

Client:

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'or	ks		Explorator	y Hole No.
Е	:454619.192 N:521200.66	2	PRAIRIE_A	UK_BH108
	Ground Level (m): 8.863	Start Date: 15/04/2020	Sheet: 2 c	f 3

Status:-

RUN	DETA	ILS					STRATA		_ rt_
Depth	TCR (SCR) RQD	Fracture	ter	Reduced Level		Depth	Desc	ription	Instrument/ Backfill
Depth & (Core Ø)	RQD	Frac	Water	Level	Legend	Depth (Thickness)	Discontinuity Detail	Main	Inst B
(92mm)		. In		-4.74		13.60			
6)		NR				-	13.60-14.00m no recovery.	(1) Red MARL/SANDSTONE with gypsum.	
						(0.40)		371	000
				-5.14		14.00			
								Complete at 14.00m BGL.	
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Drilling	Progress and	d Water Obser	vations	Standard Penetration Test			Flush			General	
Date	Depth	Casing	Water Standing	Depth	Туре	Result	From - To	Туре	Returns (%)	Rer	narks
04/05/2020	14.00	11.00	10.86							(1) Description derived fi (2) Advanced through tri PRAIRIE_AUK_TP156A 0.00-4.50m BGL derivec PRAIRIE_AUK_TP156A (3) 1No. 19mm diamete and 1No. 50mm diamete installed to 6.00m and 10 respectively.	Descriptions between I from . standpipe piezometer er slotted standpipe
All din	nensions ii Scale 1:2			For ea	xplana eviatio	tion of syr	nbols and y Sheets	Chec	ked by:	Logged by: J. Myall	Contract No. 4251

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DRILLHOLE RECORD

Status:-**FINAL**

Proje	ect: Prairie Site Ground Inve	Prairie Site Ground Investigation Works							
Clien	t: South Tees Development Corporation	Location:	::454619.192 N:521200.66	2	PRAIRIE_AUK_BH108				
Meth	od (Equipment): Percussion/Rotary (Dando 2000/Comacchio Geo 30		Ground Level (m): 8.863	Start Date: 15/04/2020	Sheet: 3 of 3				

Figure PRAIRIE_AUK_BH108.1 9.00-13.00m BGL



Figure PRAIRIE_AUK_BH108.2 13.00-14.00m BGL



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BOREHOLE RECORD

Status:-**FINAL**

Project:	Prairie Site Ground Inve	stigation Wo	rks		Exploratory Hole No.
Client:	South Tees Development Corporation	Location:	E:454511.473 N:520862.59	00	PRAIRIE_AUK_BH109
Method (Ed	quipment): Percussion/Rotary (Dando 2000/Boart Longyear DB5		Ground Level (m): 12.085	Start Date: 23/04/2020	Sheet: 1 of 1

SAMPI	LES & T	ESTS					STRATA	ant/
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	Instrument/ Backfill
0.30 0.50 0.50 0.50 0.50-1.00 1.00 1.20-1.65 1.65 1.70 1.70 2.00-2.45 2.00-2.45 2.50 2.50	J1 ES2 J3 PID B4 ES5 PID U6 J7 ES8 PID SJ9 B10 ES111 J12	2.9ppm 12.8ppm (75) 27.6ppm N15		10.89		(0.40) (0.80) - 1.20 - (1.10) - 2.30	MADE GROUND (Dark brown sandy topsoil with some rootlets). MADE GROUND (Firm to stiff orange brown mottled grey and black slightly sandy clay. Strong hydrocarbon odour noted). (Possibly Natural Ground). at c.0.50m BGL clay is of intermediate plasticity. Firm indistinctly laminated grey brown slightly sandy slightly gravelly CLAY. Gravel is firm to coarse subangular to subrounded and includes sandstone. Strong hydrocarbon odour noted. at c.1.20m BGL clay is of intermediate plasticity. at c.1.65m BGL clay is of intermediate plasticity. Firm thinly laminated brown slightly sandy CLAY with fine yellow brown sandy on the laminae.	
2.50 2.50 3.00-3.45	PID U13	10.8ppm (60)					at c.3.00m BGL medium strength.	
3.45 3.50 3.50	J14 ES15 PID	26.1ppm				(2.50)	at c.3.45m BGL clay is of intermediate plasticity.	
4.00-4.45 4.00-4.45 4.50	SJ16 B17 J18	N21		7.29				
5.00-5.45 5.45	U19	(90)		6.79	× × × × × × × × × × × × × × × × × × ×	(0.50) 5.30 (0.50)	(1) Firm to stiff laminated red brown silty CLAY. at c.5.00m BGL medium to high strength. Stiff red brown slightly sandy slightly gravelly CLAY. Gravel is	
5.50-5.80 6.00-6.45 6.00-6.45	J20 B21 SJ22 B23	100/110mm		6.29		5.80 - - - - - - - - - - (1.00)	fine to coarse subangular to subrounded and includes sandstone, mudstone and siltstone. Very weak dark blue grey MUDSTONE.	
6.50	SJ24	100/45mm		5.28		6.80	Boring complete at 6.80m BGL - continued by rotary drilling.	
						- - - -		

Borir	ng Progres	s and Wat	er Observa	itions	Chise	elling	Water Added	Gen	eral
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	Rem	arks
23/04/2020 23/04/2020	0.00 6.80	0.00 5.80	200 200	Dry	6.20 - 6.50	1:00		(1) Description derived from (2) Advanced adjacent to tr PRAIRIE_AUK_TP175. (3) 50mm diameter slotted between 7.80-11.80m BGL	ial pit standpipe installed
All din	mensions ii Scale 1:5			For expla	nation of symbo	ols and heets	Checked by:	Logged by: K. Russell-Clamp	Contract No. 4251

Head Office: Regional Office Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG

Tel: 0191 387 4700 Fax: 0191 387 4710

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DRILLHOLE RECORD

Status:- FINAL

Project:	Prairie Site Ground Inve	stigation Wo	rks		Exploratory Hole No.
Client:	South Tees Development Corporation	Location:	E:454511.473 N:520862.59	0	PRAIRIE_AUK_BH109
Method (E	quipment): Percussion/Rotary (Dando 2000/Boart Longyear DB5		Ground Level (m): 12.085	Start Date: 23/04/2020	Sheet: 1 of 3

RUN	DETA	AILS					STRATA		nt/
Depth	TCR	Fracture Index	ter	Reduced		Depth	Descr	iption	Instrument/ Backfill
& (Core Ø)	(SCR) RQD	Frac	Water	Level	Legend	(Thickness)	Discontinuity Detail	Main	list H
(140mm) (140mm)	0 (0) 0	NR		5.28		6.80 - - -	6.80-7.30m no recovery.	Weak locally very weak dark blue grey MUDSTONE distinctly weathered locally destructured.	
(140mm)	100 (10) 0	15				- - - -	7.30-7.55m non-intact. 7.30-8.70m horizontal to subhorizontal (0-10 degrees) closely to very closely spaced planar to undulating smooth locally stained (grey) discontinuities. 7.64-7.68m non-intact.		
7.80	100 (50) 10					(1.90)	7.95-8.22m 1No. vertical (85 degrees) undulating smooth stained (grey) discontinuity.		
(140mm)						- - - - -	8.22-8.35m non-intact. 8.35-8.42m 1No. subvertical (80 degrees) planar smooth stained (grey) discontinuity.		
8.80	73	7	_	3.39	× × × × × × × × × × × × × × ×	8.70	8.52-8.65m 2No. subvertical (80 degrees) extremely closely spaced planar smooth discontinuities. 8.70-8.90m 1No. vertical (85 degrees) planar locally undulating rough stained (grey) discontinuity.	Moderately weak to medium strong light grey SILTSTONE unweathered	
	(54) 34				X	- - -	8.70-9.90m horizontal to subhorizontal (G-10 degrees) medium locally closely spaced planar locally undulating rough locally smeared (clay) and stained (grey) discontinuities.	locally partially weathered.	
(140mm)					X X X X X X X X X X X X X X X X X X X	- - -	9.38-9.54m 1No. vertical (85 degrees) planar rough open stained (grey) discontinuity.		
10.30		NR				- - - (3.10)	9.83-9.90m 1No. subvertical (80 degrees) planar rough stained (red brown) discontinuity. 9.90-10.80m no recovery.		
10.80 (140mm)	0 (0) 0					-			

Drilling	g Progress and	l Water Observ	vations	Standa	ard Pene	tration Test		Flush		General	
Date	Depth	Casing	Water Standir		Туре	Result	From - To Type Returns (%)			Remarks	
30/04/2020	6.80	6.80	Dry				6.80 - 7.30 7.30 - 7.80 7.80 - 8.80 8.80 - 10.30 10.30 - 10.80 10.80 - 11.80	Water Water Water Water Water Water	80 80 80 80 80 80	(1) Description derived fr (2) Advanced adjacent to PRAIRIE_AUK_TP175. (3) 50mm diameter slotte between 7.80-11.80m B0	o trial pit ed standpipe installed
All dimensions in metres Scale 1:25						tion of syr ns see Ke	mbols and by Sheets		ked by: W	Logged by: K. Russell-Clamp	Contract No. 4251

Head Office: Regional Office Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG

Tel: 0191 387 4700 Fax: 0191 387 4710

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DRILLHOLE RECORD

Status:- FINAL

Project:					Prai	rie Site (Ground Inve	estigation V	Vorks		Explorator	y Hol	e No.
Client:	S	outh T	ees D	evelopn	nent Co	rporation	ı	Location:	E:454511.473 N:520862.5	90	PRAIRIE_A	UK_I	BH109
Method ('Rotaı	y (Dand	lo 2000/	Boart Lo	ngyear DB5	540)	Ground Level (m): 12.085	Start Date: 23/04/2020	Sheet: 2 c	of 3	
RUN	N DETA	AILS							STRATA				_ rt_
Depth	TCR	ture	Ē	Reduced		Depth			Description				rument/ ackfill

RUN	DETA	AILS					STRATA		£_
Depth	TCR (SCR) RQD	Fracture	Water	Reduced	1	Depth	Descr	iption	Instrument/ Backfill
& (Core Ø)	RQD	Frac	Wa	Level	Legend	(Thickness)	Discontinuity Detail	Main	1
(140mm)	100 (67) 57	7		0.29	X X X X X X X X X X X X X X X X X X X		10.80-10.85m non-intact. 10.80-11.80m horizontal to subhorizontal (0-10 degrees) medium locally closely spaced planar locally undulating rough locally smeared (clay) and stained (grey) discontinuities. 10.85-11.05m 1No. subvertical (80 degrees) planar locally undulating rough smooth stained (orange brown) discontinuity. 11.13-11.20m non-intact.	Moderately weak to medium strong light grey SILTSTONE unweathered locally partially weathered. (continued)	
				0.29	^ ^ ×	11.00		Complete at 11.80m BGL.	

Drilling	g Progress and	l Water Obser	vations	Standa	ard Pene	tration Test	Flush				General	neral
Date	Depth	Casing	Water Standing	Depth	Туре	Result	From - To Type Returns (%)				Remarks	
30/04/2020	11.80	6.80	9.37								(1) Description derived fr (2) Advanced adjacent to PRAIRIE_AUK_TP175. (3) 50mm diameter slotte between 7.80-11.80m B0	ed standpipe installed
All din			nbols and Checked by Sheets		- 1 / '	Logged by: K. Russell-Clamp	Contract No. 4251					

Scale 1:25

Print Date and Time: 06/11/2020 14:20:40

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DRILLHOLE RECORD

Status:-**FINAL**

Project:	Prairie Site Ground Inve	Exploratory Hole No.			
Client:	South Tees Development Corporation	Location:	E:454511.473 N:520862.59	0	PRAIRIE_AUK_BH109
	^{Equipment):} Percussion/Rotary (Dando 2000/Boart Longyear DB5		Ground Level (m): 12.085	Start Date: 23/04/2020	Sheet: 3 of 3

Figure PRAIRIE_AUK_BH109.1 6.80-8.80m BGL



Figure PRAIRIE_AUK_BH109.2 8.80-11.80m BGL



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¢.	BOR	EHOLE F	RECORD		FINAL
Project:	Prairie Site Ground Inve	stigation Wo	rks		Exploratory Hole No.
lient:	South Tees Development Corporation	Location:	E:454320.946 N:521308.85	56	PRAIRIE_AUK_BH110
lethod (E	quipment): Percussion/Rotary (Dando 2000/Comacchio Geo 30		Ground Level (m): 7.798	Start Date: 20/04/2020	Sheet: 1 of 2

			1	ī				1
SAMPI	LES & T	ESTS					STRATA	t
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	Instrument/ Backfill
						(1.50)	MADE GROUND (Black clayey very sandy gravel with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse subangular and includes slag, coal, coke, sinter and clinker. Cobbles are subangular and include concrete, slag and red brick. Slag content is 0-25%. Slag is vesicular grey green. Slight diesel odour noted).	\$\frac{1}{2}\$
				6.30		(1.50) 	Firm indistinctly laminated orange brown mottled grey slightly sandy CLAY.	
3.00 3.00-3.45 3.00 3.45	ES1 U2 PID J3	(35) <0.1ppm		4.00			Firm thinly laminated brown slightly sandy CLAY with fine yellow brown sand on the laminae. at c.3.00m BGL low strength. Clay is of intermediate plasticity.	
4.00 4.00-4.45	J4 B5					(2.00)	at c.4.00m BGL slightly sandy slighty gravelly clay.	
5.00-5.45	U6	(45)		2.80	<u> </u>	5.00	Soft to firm thinly laminated dark brown slightly sandy CLAY with fine yellow brown sand on the laminae.	
5.45	J7					 - - - -	at c.5.00m BGL medium strength. Clay is of intermediate plasticity.	
6.00	J8					(2.30)		
6.50-6.95 6.50-6.95	SJ9 B10	N13		0.50		- - - - - - - - - - - - - - - - - - -		
7.50	J11			2.30			Firm to stiff red brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular and includes sandstone, mudstone, siltstone and coal.	

Borin	g Progres	s and Wat	er Observa	itions	Chiselling Water Added		General			
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	Remarks		
20/04/2020 20/04/2020 21/04/2020	0.00 5.00 5.00	0.00 4.80 4.80	200 200 200	Dry 4.36				(1) Description derived from (2) Advanced through trial Descriptions between 0.09 PRAIRIE_AUK_TP149. (3) Water strike at 10.30m-BGL (20 mins). (4) 50mm diameter standpil 16.80-20.80m BGL.	oit PRAIRIE_AUK_TP149. 3.00m BGL derived from water level rose to 8.47m	
					nation of symbo		Checked by:	Logged by: K. Russell-Clamp	Contract No. 4251	

South Tees Development Corporation

Method (Equipment):
Percussion/Rotary (Dando 2000/Comacchio Geo 305)

Client:

Location:

E:454320.946 N:521308.856 Ground Level (m): S 7.798

Start Date: 20/04/2020

Sheet:

<u> </u>	Head Office: Regional Office:	Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL	Tel: 0191 387 4700 Fax: 0191 Tel: 01772 735 300 Fax: 0177
		BOREHOLE RECORD	
Project:		Prairie Site Ground Investigation Works	

FINAL
Exploratory Hole No.
PRAIRIE_AUK_BH110

2 of 2

SAMPLES & TESTS							STRATA	ent/
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	Instrument/ Backfill
8.00-8.45 8.45	U12	(75)	1 <u>1</u>			(2.00) - - - -	Firm to stiff red brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular and includes sandstone, mudstone, siltstone and coal. (continued) at c.8.00m BGL medium strength.	
9.00	J14			-1.50	 	- - - - - - 9.30		
9.50-9.95 9.50-9.95	SJ15 B16	N59			0	-	Stiff to very stiff (friable) red brown sandy slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded and includes sandstone, mudstone, siltstone and coal. at c.9.50m BGL clay is of low plasticity.	
10.50	J17		<u>‡</u>			(2.90)		
11.00-11.45	U18	(100)				- - -	at c.11.00m BGL extremely high strength.	
11.45	J19				0	- - - -		
12.00	J20			-4.40	· · · · ·	 - 12.20		
12.50-12.95 12.50-12.95	SJ21 B22	N98		-5.20		- - -(0.80) - - - 13.00	Stiff to very stiff dark red brown sandy gravelly CLAY. Gravel is fine to coarse subangular and includes sandstone, mudstone, and siltstone.	
13.50	J23			-3.20		- - - - - - - - - - - - - - - - - - -	Stiff (friable) dark red brown sandy slightly gravelly CLAY with cobbles noted. Gravel is fine to coarse subangular and includes sandstone, mudstone and siltstone. Cobbles are subangular and includes sandstone and mudstone. at c.13.50m BGL clay is of low plasticity.	
14.00-14.45 14.00	B25 SJ24	100/220mm		-6.60		- - - - - - 14.40	, , ,	
14.50	J26					- - - -	Very weak red brown MUDSTONE destructured with interbeds of gypsum.	
15.00-15.45 15.00	B28 SJ27	100/70mm				(1.40)		
15.50	SJ29	100/50mm		-8.00		15.80		
15.80-16.30	C30			0.00		- 15.50	Boring complete at 15.80m BGL - continued by rotary drilling.	

Borin	ng Progres	s and Wat	er Observa	ations	Chis	elling	eral			
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	Remarks		
21/04/2020 22/04/2020 22/04/2020	13.00 13.00 15.80	12.80 12.80 15.30	200 200 200	Dry 6.74 7.39	13.00 - 15.50	6:00		(1) Description derived fron (2) Advanced through trial poscriptions between 0.09 PRAIRIE_AUK_TP149. (3) Water strike at 10.30m BGL (20 mins). (4) 50mm diameter standpi 16.80-20.80m BGL.	oit PRAIRIE_AUK_TP149. 3.00m BGL derived from water level rose to 8.47m	
					anation of symbo		Checked by:	Logged by: K. Russell-Clamp	Contract No. 4251	

Head Office: Regional Office Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL

Tel: 0191 387 4700 Fax: 0191 387 4710

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Project: Prairie Site Ground Investigation Works Client: South Tees Development Corporation E:454320.946 N:521308.856 Method (Equipment): Ground Level (m): Start Date: 20/04/2020 1 of 3

Instrument/
Instrum Watum
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OSTONE/SANDSTONE.
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weak to strong red brown
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Drilling	Drilling Progress and Water Observations				ard Pene	tration Test		Flush		General	
Date	Depth	Casing	Water Standing	Depth	Туре	Result	From - To	Туре	Returns (%)	Remarks	
01/05/2020 01/05/2020 04/05/2020	15.80 19.30 19.30	15.80 15.80 15.80	14.28 12.37				15.80 - 16.30 16.30 - 16.80 16.80 - 17.80 17.80 - 19.30 19.30 - 20.80	W W W W	100 100 100 100 100	(1) Description derived f (2) Advanced through tr PRAIRIE_AUK_TP149. 0.00-3.00m BGL derive PRAIRIE_AUK_TP149. (3) Water strike at 10.30 8.47m BGL (20 mins). (4) 50mm diameter stan 16.80-20.80m BGL.	Descriptions between I from m - water level rose to

All dimensions in metres Scale 1:25

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Checked by: Logged by: K. Russell-Clamp 4251

Head Office: Regional Office Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2R0

Tel: 0191 387 4700 Fax: 0191 387 4710

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DRILLHOLE RECORD FINAL

				
Project: Prairie Site Ground Inve	stigation Wo	rks		Exploratory Hole No.
Client: South Tees Development Corporation	Location:	E:454320.946 N:521308.85	66	PRAIRIE_AUK_BH110
Method (Equipment): Percussion/Rotary (Dando 2000/Comacchio Geo 30		Ground Level (m): 7.798	Start Date: 20/04/2020	Sheet: 2 of 3

Depth (SCR) (SCR) (RQD) Depth (RQC) De	STRATA					
19.80-20.06m non-intact. 19.80-20.80m horizontal to subhorizontal (0-10 degrees) closely spaced undulating rough stained (red brown) discontinuities. Moderately w MUDSTONE degrees) undulating rough stained (red brown) discontinuity. 20.13-20.20m 1No. oblique (30 degrees) undulating rough open stained (red brown) discontinuity.		Instrument/ Backfill				
20.13-20.20m 1No. oblique (30 degrees) undulating rough open stained (red brown) discontinuity. 20.62-20.72m non-intact.	Main	lust B				
-13.00 20.80	eak to strong red brown partially weathered, tured, with many ypsum. <i>(continued)</i>					
		0000				
	0.80m BGL.	A HA				

Drilling	Progress and	d Water Observ	/ations	Standa	ard Pene	tration Test		Flush		General		
Date	Depth	Casing	Water Standing	Depth	Туре	Result	From - To	Туре	Returns (%)	Remarks		
04/05/2020	20.80	15.80	15.20							(1) Description derived f (2) Advanced through tr PRAIRIE_AUK_TP149. 0.00-3.00m BGL derived PRAIRIE_AUK_TP149. (3) Water strike at 10.30 8.47m BGL (20 mins). (4) 50mm diameter stan 16.80-20.80m BGL.	Descriptions between If from Im - water level rose to	
All dimensions in metres			For e	xplana	tion of syr	nbols and	Chec	ked by:	Logged by:	Contract No.		

All dimensions in metres Scale 1:25

For explanation of symbols and abbreviations see Key Sheets

Checked by:

Checked by:

K. Russell-Clamp

4251

Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01772 735 909



DRILLHOLE RECORD

Status:-**FINAL**

Project:	Prairie Site Ground Inve	Exploratory Hole No.			
Client:	South Tees Development Corporation	Location:	E:454320.946 N:521308.85	6	PRAIRIE_AUK_BH110
Method (Equipment): Percussion/Rotary (Dando 2000/Comacchio Geo 30		Ground Level (m): 7.798	Start Date: 20/04/2020	Sheet: 3 of 3

Figure PRAIRIE_AUK_BH110.1 15.80-19.30m BGL



Figure PRAIRIE_AUK_BH110.2 19.30-20.80m BGL



Trial Pit Records



Trial Pit Summary Table

Exploratory Hole Number	Excavation Method	Completion Depth (m BGL)	Remarks
PRAIRIE_AUK_TP101	Machine excavated	4.50	Advanced to required depth.
PRAIRIE_AUK_TP102	Machine excavated	4.30	Advanced to required depth
PRAIRIE_AUK_TP103	Machine excavated	1.70	Terminated due to close proximity to sewer.
PRAIRIE_AUK_TP104	Machine excavated	4.00	Advanced to required depth.
PRAIRIE_AUK_TP105	Machine excavated	4.40	Continued as PRAIRIE_AUK_BH104. Terminated due to slow progress.
PRAIRIE_AUK_TP106	Machine excavated	3.50	Advanced to required depth.
PRAIRIE_AUK_TP107	Machine excavated	3.00	Continued as PRAIRIE_AUK_BH103. Advanced to required depth.
PRAIRIE_AUK_TP108	Machine excavated	4.00	Terminated due to possible concrete.
PRAIRIE_AUK_TP109	Machine excavated	3.10	Advanced to required depth.
PRAIRIE_AUK_TP110	Machine excavated	4.50	Advanced to required depth.
PRAIRIE_AUK_TP111	Machine excavated	3.20	Advanced to required depth.
PRAIRIE_AUK_TP112	Machine excavated	3.40	Advanced to required depth.
PRAIRIE_AUK_TP113	Machine excavated	3.80	Terminated due to concrete plinth and groundwater ingress.
PRAIRIE_AUK_TP114	Machine excavated	2.00	Terminated due to water ingress and instability.
PRAIRIE_AUK_TP115	Machine excavated	3.10	Terminated due to water ingress.
PRAIRIE_AUK_TP116	Machine excavated	3.90	Advanced to required depth.
PRAIRIE_AUK_TP117	Machine excavated	3.30	Terminated due to instability.
PRAIRIE_AUK_TP118	Machine excavated	3.00	Advanced to required depth.
PRAIRIE_AUK_TP119	Machine excavated	3.20	Advanced to required depth.
PRAIRIE_AUK_TP120	Machine excavated	1.50	Terminated due to concrete obstruction.
PRAIRIE_AUK_TP120A	Machine excavated	2.90	Advanced to required depth.
PRAIRIE_AUK_TP121	Machine excavated	4.50	Continued as PRAIRIE_AUK_BH102. Advanced to required depth.
PRAIRIE_AUK_TP122	Machine excavated	1.20	Terminated due to fast water ingress.
PRAIRIE_AUK_TP123	Machine excavated	2.80	Terminated due to brick structure.
PRAIRIE_AUK_TP124	Machine excavated	3.00	Advanced to required depth.
PRAIRIE_AUK_TP125	Machine excavated	0.20	Terminated due to concrete obstruction.
PRAIRIE_AUK_TP125A	Machine excavated	1.20	Terminated due to concrete base.
PRAIRIE_AUK_TP126	Machine excavated	2.70	Terminated due to concrete base.
PRAIRIE_AUK_TP127	Machine excavated	1.70	Terminated due to concrete base.
PRAIRIE_AUK_TP127A	Machine excavated	3.00	Continued as PRAIRIE_AUK_BH101. Advanced to required depth.
PRAIRIE_AUK_TP128	Machine excavated	1.10	Terminated due to services.



Exploratory Hole Number	Excavation Method	Completion Depth (m BGL)	Remarks
PRAIRIE_AUK_TP129	Machine excavated	2.30	Advanced to required depth.
PRAIRIE_AUK_TP130	Machine excavated	2.40	Advanced to required depth.
PRAIRIE_AUK_TP131	Machine excavated	4.50	Continued as PRAIRIE_AUK_BH106. Advanced to required depth.
PRAIRIE_AUK_TP132	Machine excavated	2.30	Terminated due to concrete channel.
PRAIRIE_AUK_TP132A	Machine excavated	1.60	Terminated due to concrete structure and metal cables.
PRAIRIE_AUK_TP133	Machine excavated	2.00	Advanced to required depth.
PRAIRIE_AUK_TP134	Machine excavated	2.60	Advanced to required depth.
PRAIRIE_AUK_TP135	Machine excavated	3.00	Continued as PRAIRIE_AUK_BH105. Advanced to required depth.
PRAIRIE_AUK_TP136	Machine excavated	3.10	Advanced to required depth.
PRAIRIE_AUK_TP137	Machine excavated	2.90	Advanced to required depth.
PRAIRIE_AUK_TP138	Machine excavated	2.60	Terminated due to instability.
PRAIRIE_AUK_TP139	Machine excavated	1.20	Terminated due to concrete obstruction.
PRAIRIE_AUK_TP139A	Machine excavated	0.30	Terminated due to concrete obstruction.
PRAIRIE_AUK_TP139B	Machine excavated	4.00	Advanced to required depth.
PRAIRIE_AUK_TP140	Machine excavated	2.60	Advanced to required depth.
PRAIRIE_AUK_TP141	Machine excavated	3.00	Terminated due to concrete base.
PRAIRIE_AUK_TP142	Machine excavated	1.70	Terminated due to concrete base.
PRAIRIE_AUK_TP143	Machine excavated	1.80	Terminated due to water ingress.
PRAIRIE_AUK_TP144	Machine excavated	1.20	Terminated due to concrete base.
PRAIRIE_AUK_TP145	Machine excavated	3.50	Advanced to required depth.
PRAIRIE_AUK_TP146	Machine excavated	0.30	Terminated due to concrete base.
PRAIRIE_AUK_TP146A	Machine excavated	0.10	Terminated due to concrete base.
PRAIRIE_AUK_TP146B	Machine excavated	0.60	Terminated due to concrete base.
PRAIRIE_AUK_TP146C	Machine excavated	3.00	Advanced to required depth.
PRAIRIE_AUK_TP147	Machine excavated	1.80	Terminated due to concrete base.
PRAIRIE_AUK_TP148	Machine excavated	1.20	Terminated due to concrete base.
PRAIRIE_AUK_TP148A	Machine excavated	2.00	Terminated due to concrete/slag base.
PRAIRIE_AUK_TP149	Machine excavated	3.00	Continued as PRAIRIE_AUK_BH110. Advanced to required depth.
PRAIRIE_AUK_TP150	Machine excavated	2.20	Terminated due to service.
PRAIRIE_AUK_TP151	Machine excavated	4.20	Advanced to required depth.
PRAIRIE_AUK_TP152	Machine excavated	2.10	Advanced to required depth.
PRAIRIE_AUK_TP153	Machine excavated	2.40	Advanced to required depth.



Exploratory Hole Number	Excavation Method	Completion Depth (m BGL)	Remarks
PRAIRIE_AUK_TP154	Machine excavated	3.10	Advanced to required depth.
PRAIRIE_AUK_TP155	Machine excavated	2.20	Advanced to required depth.
PRAIRIE_AUK_TP156	Machine excavated	0.60	Terminated due to concrete base.
PRAIRIE_AUK_TP156A	Machine excavated	2.50	Continued as PRAIRIE_AUK_BH108. Advanced to required depth.
PRAIRIE_AUK_TP157	Machine excavated	1.10	Terminated due to concrete base.
PRAIRIE_AUK_TP157A	Machine excavated	1.30	Terminated due to concrete base.
PRAIRIE_AUK_TP157B	Machine excavated	3.50	Terminated due to concrete boulders.
PRAIRIE_AUK_TP158	Machine excavated	3.20	Advanced to required depth.
PRAIRIE_AUK_TP159	Machine excavated	2.50	Advanced to required depth.
PRAIRIE_AUK_TP160	Machine excavated	2.10	Terminated due to service.
PRAIRIE_AUK_TP161	Machine excavated	2.70	Advanced to required depth.
PRAIRIE_AUK_TP162	Machine excavated	4.00	Advanced to required depth.
PRAIRIE_AUK_TP163	Machine excavated	2.40	Advanced to required depth.
PRAIRIE_AUK_TP164	Machine excavated	3.80	Advanced to required depth.
PRAIRIE_AUK_TP165	Machine excavated	3.30	Terminated due to concrete base.
PRAIRIE_AUK_TP166	Machine excavated	1.50	Advanced to required depth.
PRAIRIE_AUK_TP167	Machine excavated	2.60	Terminated due to concrete base.
PRAIRIE_AUK_TP168	Machine excavated	2.10	Advanced to required depth.
PRAIRIE_AUK_TP169	Machine excavated	2.20	Terminated due to concrete base.
PRAIRIE_AUK_TP170	Machine excavated	1.80	Advanced to required depth.
PRAIRIE_AUK_TP171	Machine excavated	2.10	Advanced to required depth.
PRAIRIE_AUK_TP172	Machine excavated	2.10	Terminated due to instability and concrete obstruction.
PRAIRIE_AUK_TP173	Machine excavated	2.70	Advanced to required depth.
PRAIRIE_AUK_TP174	Machine excavated	2.60	Advanced to required depth.
PRAIRIE_AUK_TP175	Machine excavated	4.50	Continued as PRAIRIE_AUK_BH109. Advanced to required depth.
PRAIRIE_AUK_TP176	Machine excavated	2.00	Advanced to required depth.
PRAIRIE_AUK_TP177	Machine excavated	2.30	Terminated due to instability and proximity to services.
PRAIRIE_AUK_TP178	Machine excavated	4.50	Advanced to required depth.
PRAIRIE_AUK_TP179	Machine excavated	2.00	Advanced to required depth.
PRAIRIE_AUK_TP180	Machine excavated	0.40	Terminated due to concrete base.
PRAIRIE_AUK_TP181	Machine excavated	2.70	Advanced to required depth.
PRAIRIE_AUK_TP182	Machine excavated	2.70	Continued as PRAIRIE_AUK_BH107. Advanced to required depth.



Exploratory Hole Number	Excavation Method	Completion Depth (m BGL)	Remarks
PRAIRIE_AUK_TP183	Machine excavated	4.10	Terminated due to concrete slab.
PRAIRIE_AUK_TP184	Machine excavated	1.10	Terminated due to concrete obstruction.
PRAIRIE_AUK_TP185	Machine excavated	4.50	Advanced to required depth.
PRAIRIE_AUK_TP186	Machine excavated	1.80	Terminated due to concrete slab.
PRAIRIE_AUK_TP187	Machine excavated	1.80	Advanced to required depth.
PRAIRIE_AUK_TP188	Machine excavated	2.10	Terminated due to concrete obstruction.
PRAIRIE_AUK_TP189	Machine excavated	3.00	Advanced to required depth.
PRAIRIE_AUK_TP190	Machine excavated	1.00	Terminated due to possible service.
PRAIRIE_AUK_TP190A	Machine excavated	3.00	Advanced to required depth.
PRAIRIE_AUK_TP191	Machine excavated	2.10	Advanced to required depth.
PRAIRIE_AUK_TP192	Machine excavated	2.10	Advanced to required depth.
PRAIRIE_AUK_TP193	Machine excavated	1.00	Advanced to required depth.
PRAIRIE_AUK_TP193A	Machine excavated	4.60	Advanced to required depth.
PRAIRIE_AUK_TP194A	Machine excavated	2.20	Advanced to required depth.
PRAIRIE_AUK_TP194B	Machine excavated	2.80	Terminated due to concrete obstruction.
PRAIRIE_AUK_TP194C	Machine excavated	1.20	Terminated due to concrete obstruction.
PRAIRIE_AUK_TP194D	Machine excavated	1.70	Terminated due to concrete obstruction.
PRAIRIE_AUK_TP194E	Machine excavated	1.20	Terminated due to concrete obstruction.
PRAIRIE_AUK_TP195	Machine excavated	2.10	Terminated due to concrete obstruction.
PRAIRIE_AUK_TP196A	Machine excavated	2.00	Advanced to required depth.
PRAIRIE_AUK_TP196B	Machine excavated	2.90	Terminated due to concrete obstruction.
PRAIRIE_AUK_TP197	Machine excavated	2.80	Terminated due to concrete obstruction.
PRAIRIE_AUK_TP198	Machine excavated	2.60	Terminated due to concrete obstruction.
PRAIRIE_AUK_TP199	Machine excavated	5.20	Advanced to required depth.
PRAIRIE_AUK_TP200A	Machine excavated	2.80	Advanced to required depth.
PRAIRIE_AUK_TP200B	Machine excavated	3.50	Terminated due to concrete/brick base.
PRAIRIE_AUK_TP201	Machine excavated	4.40	Advanced to required depth.



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Status:-

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TRIAL PIT RECORD **FINAL** Project: Prairie Site Ground Investigation Works Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP101 South Tees Development Corporation E:455044.456 N:521777.057 Method (Equipment): Machine Excavated (360 Tracked Excavator) Start Date: Ground Level (m): 1 of 3

Machine Excavated (360 Tracked Excavator)								8.864	01/04/2020	Onect.	1 of 3
SAMPLES & TESTS								STRATA	<u> </u>		
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)			Description		
0.10 0.20	J1 B2			8.56		0.30	sub	DE GROUND (Black sand angular to subrounded ar DE GROUND (Black grav	nd includes roa	adstone ar	nd concrete).
0.60 0.90 1.00 1.00	J3 B4 PID ES5	<0.1ppm				X- X- X- X(1.50) X- X- X- X- X-	frag sub sub	ments of tile. Sand is fine angular and includes slag angular and include slag. icular grey green).	to coarse. Gr , red brick and	avel is fine d ash. Col	e to coarse obles are
1.80 1.80 1.80 2.10 2.20 2.50 2.80 3.00 3.50 4.00 4.40 4.40 4.40 4.50	HSV J6 B7 J8 PID ES9 J10 HSV B11 J12 B13 HSV J14 B15	68 (32)kPa <0.1ppm 53 (22)kPa 47 (18)kPa		7.06 6.86 6.56 4.56 4.36		2.30 2.30 (2.00) 	MAI sub- con Firm at c	DE GROUND (Firm grey DE GROUND) (Black sligh angular to angular and in tent is 50-75%. Slag is gray mottled brown sligh 2.50m BGL clay is of head of the slightly organic slightly partially decomposed proplete at 4.50m BGL.	ntly sandy grav cludes ash, ma ey green. Hydi ntly sandy CLA nigh plasticity.	rel. Gravel acadam, a rocarbon o Y.	is fine to coarse and slag. Slag odour noted). /
PLAN 3.00 Face A Orientation 260° BB BB					lwater	ATER seepage at 2.00m BGL.					
Face C					STABI Pit side		ole throughout excavation.				
ADDITIONAL INFORMATION						RAL I	REMARKS				
Sketch Diagram: No Sketch Taken			n/a								
Photographs: Yes See additional sheets.											

For explanation of symbols and abbreviations see Key Sheets

Checked by:

Logged by: K. Russell-Clamp

Contract No. 4251

All dimensions in metres

Scale 1:50

ALLIED EXPLORATION & GEOTECHNICS LIMITED Head Office: Regional Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Regional Office: Unit 29 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL Tel: 0191 387 4700 Fax: 0191 387 4701 Tel: 01772 735 300 Fax: 01772 735 999

TRIAL PIT RECORD **FINAL** Prairie Site Ground Investigation Works Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP101 South Tees Development Corporation E:455044.456 N:521777.057 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 01/04/2020 Ground Level (m): 8.864 2 of 3





Status:-

TRIAL PIT RECORD **FINAL** Project: Prairie Site Ground Investigation Works Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP101 South Tees Development Corporation E:455044.456 N:521777.057 Start Date: 01/04/2020 Method (Equipment): Machine Excavated (360 Tracked Excavator) Ground Level (m): 8.864 3 of 3







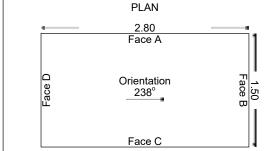
Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG
Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL

Tel: 0191 387 4700 Fax: 0191 387 4710
Tel: 01772 735 300 Fax: 01772 735 999

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Status:-TRIAL PIT RECORD **FINAL** Project: Prairie Site Ground Investigation Works Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP102 South Tees Development Corporation E:455025.690 N:521795.056 | Ground Level (m): 8 634 Method (Equipment): Start Date:

(=qu.p	Machine	Excavated (36	60 Trad	ked Exc	cavator)		8.634	21/04/2020	1 of 3
SAN	MPLES &	TESTS					STRATA		
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)		Description	
0.10 0.20	J1 B2			8.33		0.30	MADE GROUND (Grass over	. ,	with low cobble and
).50).50	J3 PID	<0.1ppm				t b	coulder content. Gravel is fin ish and slag. Slag content is Cobbles and boulders are ar	e to coarse sul 75-100%. Sla	bangular and includes g is vesicular green white
1.00 1.00 1.00	ES4 B5 PID	<0.1ppm		7.33		1.30	//ADE GROUND (Firm, loca	lly thinly lamina	ated orange red brown
1.50 1.50	J6 PID	0.1ppm				r V	nottled grey slightly sandy sl vood. Gravel is fine to coars ement and slag).	lightly gravelly o e subangular a	clay with fragments of
2.00 2.00 2.00	ES7 B8 PID	0.1ppm				- a	it c.1.50m BGL clay is of l	ow plasticity.	
2.50 2.50	J9 PID	0.2ppm					etween c. 2.50-3.50m BGL oted.	wet clay with	n rancid stale water odour
3.00 3.00 3.00	B10 ES11 PID	0.4ppm				- - - -			
3.50 3.50	J12 PID	0.7ppm							
4.00	B13			4.33		4.30	at c.4.00m BGL whole gla	ss bottle.	
						-	Complete at 4.30m BGL.		
						- - - -			
	PLAN #						DWATER dwater inflow observed.		
		Face A							



STABILITY Pit sides and base stable throughout excavation.

ADD	ITIONAL INFOR	MATION	GENERAL REMARK	 (S		
Sketch Diagram:	No	Sketch Taken				
Photographs:	Yes	See additional sheets.				
All dimensions in metros For evalenation			of aumbala and	Checked by	I oaged by:	Contract No

For explanation of symbols and abbreviations see Key Sheets K.W K. Russell-Clamp 4251 Scale 1:50

TRIAL PIT RECORD **FINAL** Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP102 South Tees Development Corporation E:455025.690 N:521795.056 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 21/04/2020 Ground Level (m): 8.634 2 of 3





Status:-

Ġ	TRI	FINAL			
Project:	Prairie Site Ground Inve	Exploratory Hole No.			
Client:	South Tees Development Corporation	Location:	E:455025.690 N:521795.05	66	PRAIRIE_AUK_TP102
Method (Ed	quipment): Machine Excavated (360 Tracked Excavator)		Ground Level (m): 8.634	Start Date: 21/04/2020	Sheet: 3 of 3



A		А	Head Office:	Jnit 25 Stel	la Gill Indust	rial Estate, Po	_	ter-le-St		387 4700 Fax: 0191 387 2 735 300 Fax: 01772 73	7 4710	
	TRIAL PIT RECORD										Status:- FINAL	
Project:			ī		Exploratory Hole No.							
Client:	So	outh Tee	es Development	Corpo	ration		Location	-	E:454951.742 N:521784.	855	PRAIRIE_AUK_TP103	
Method (e Excavated (36	0 Tracl	ked Exc	avator)	'		Ground Level (m): 7.692	Start Date: 21/04/2020	Sheet: 1 of 4	
	SAMPLES & TESTS S								STRATA			
Dep	pth	Type No	Test Result	Water	Reduced Level	Legend	Legend Depth (Thickness) Description					
				1		XXXXX		N 4 A	DE ODOLIND (Distriction		all and the first of the second	

	iviacnin	e Excavated (3	ou irac	kea Exc	avator)			7.692	21/04/2020	1 of 4			
SAM	IPLES &	TESTS					STRATA						
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)		D	Description				
0.50 0.50 0.80 1.00 1.50	J1 PID B2 ES3 PID J4 PID	<0.1ppm <0.1ppm <0.1ppm		5.99		(1.70)	medium bou subrounded coke. Slag c rust (iron) pa include cond	lder content. Grave and includes ash, content is 25-50%.	o,	subangular to e, slag, coal and ey green white with			
1.70	J5						Terminated a	at 1.70m BGL - due	to close proximity to	o sewer.			
		PLAN 3.10 Face A			1		INDWATER undwater inflov	v observed.					
Face D		Orientation		7 20 0	2.00								
Fac		Face C		a U		STABI Face C	LITY Cunstable throu	ghout excavation.					
					-								
	ADDI	TIONAL INFOR	MATIO	N		GENERAL REMARKS							
Sketch Diag	ram:	No S	Sketch Ta	aken									
Photograp	hs:	Yes		See add shee									
All dimensions in metres Scale 1:50 For explanation of abbreviations set					of symbo	ols and heets	Checked by:	Logged by: K. Russell-Clamp	Contract No. 4251				

TRIAL PIT RECORD **FINAL** Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP103 South Tees Development Corporation E:454951.742 N:521784.855 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 21/04/2020 2 of 4





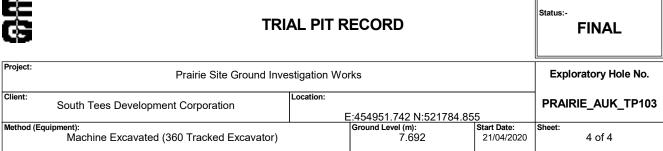
TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP103 South Tees Development Corporation E:454951.742 N:521784.855 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 21/04/2020 3 of 4

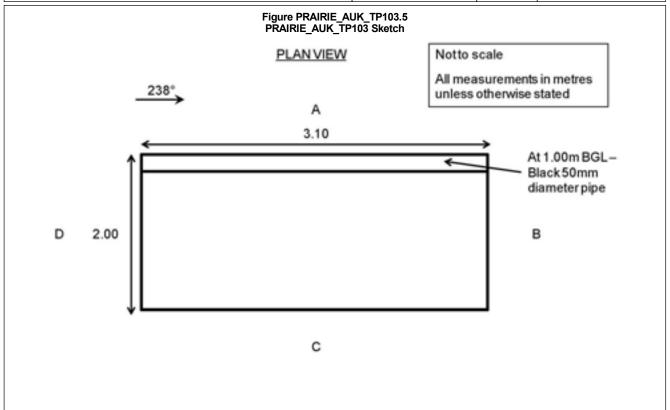






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Tel: 0191 387 4700 Fax: 0191 387 4710

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2			Regional Office:	Jnit 20 Bu	siness Develo	opment Centre	, Eanam Whai	narf, Blackburn, BB1 5BL Tel : 01772 735 300 Fax : 01772 735 999				
Ġ						TR	IAL P	PIT RECORD FINAL				
Project:				Prairie	Site Gr	ound Inv	estigatio	on Works Exploratory Hole No.				
Client:							Location	on:				
	S	outh Tee	s Development	Corpo	oration			E:455113.453 N:521688.905				
Method (Excavated (36	0 Trac	ked Exc	cavator)	·	Ground Level (m): 9.251 Start Date: 01/04/2020 1 of 3				
	SAM	PLES &	TESTS					STRATA				
Dep	oth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description				
0.00-4.0 0.00-4.0 0.20 0.30		B14 B15 J1 B2			8.85		(0.40) - 0.40 -	MADE GROUND (Grey brown sandy gravel with low cobble content. Gravel is fine to coarse subangular to subrounded and includes slag,				
1.00		J3 B4					- (1.20) - - -	concrete, dolomite, red brick and ash. Cobbles are subangular and include red brick and cemented slag. Slag content is 50-75%. Slag is vesicular grey and green, iron rich in places (rust)). from c.1.30m BGL high cobble content. Cobbles are subangular				
1.50 1.50 1.65 1.65 2.00		PID ES5 J6 B7 J8	<0.1ppm		7.65 7.55		1.60 1.70 - - - - - - (1.10)	and include red and yellow brick and concrete.				
3.00 3.00 3.50		HSV J10 B11	87 (22)kPa		6.45 5.55		2.80 - - - (0.90) - - - 3.70	Firm to stiff blue grey mottled brown slightly sandy CLAY.				
3.80 3.90 4.00		J12 HSV B13	86 (32)kPa		5.25	· · · ·	4.00	Firm to stiff indistinctly laminated red brown slightly sandy slightly				
			PLAN				CROL	HINDWATER				
	# 2.80							GROUNDWATER No groundwater inflow observed.				
	O Orientation 192° B Face C							BILITY des stable throughout excavation.				

ADD	ITIONAL INFOR	MATION	GENERAL REMARKS				
Sketch Diagram:	No S	Sketch Taken	(1) Samples B14 and	B15 taken within spo	oil by client.		
Photographs:	Yes	See additional sheets.					
All dimensions in metres For explanation of				Checked by:	Logged by: K. Russell-Clamp	Contract No. 4251	

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP104 South Tees Development Corporation E:455113.453 N:521688.905 Start Date: 01/04/2020 Method (Equipment): Machine Excavated (360 Tracked Excavator) 2 of 3





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TRIAL PIT RECORD **FINAL** Project: Prairie Site Ground Investigation Works Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP104 South Tees Development Corporation E:455113.453 N:521688.905 Start Date: 01/04/2020 Method (Equipment):
Machine Excavated (360 Tracked Excavator) 3 of 3





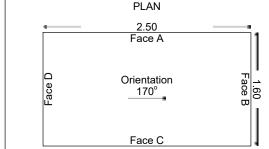
Head Office: Regional Office Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2R

Tel: 0191 387 4700 Fax: 0191 387 4710

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TRIAL PIT RECORD FINAL Project: Prairie Site Ground Investigation Works Client: South Tees Development Corporation E:455006.172 N:521693.493 Method (Equipment): Machine Excavated (360 Tracked Excavator) FINAL Exploratory Hole No. PRAIRIE_AUK_TP105 Ground Level (m): 8.696 01/04/2020 1 of 3

iviacilile Excavated (500 Tracked Excavator)								0.090	01/04/2020	1013
SA	MPLES &	TESTS						STRATA	-	-
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)			Description	
				8.65		0.05/	MAI	DE GROUND (Brown sa	ndy topsoil. Sai	nd is fine to coarse).
						(0.55)	MAI	DE GROUND (Strong gro	ey concrete).	· ,
				8.10	\bowtie	0.60				
								DE GROUND (Grey brow		
0.80	J1				\bowtie			tent. Gravel is fine to coa		r to subrounded and 50-75%. Slag is vesicular
1.00	B2					(0.90)		en grey. Cobbles are sub		
1.20 1.20	PID ES3	<0.1ppm		7.00	\bowtie	4		•		σ,
1.20	200			7.20		1.50	MAI	DF GROUND (Firm brow	n slightly sand	y slightly gravelly clay with
					\bowtie	<u> </u>	low	cobble content. Gravel is	s fine to coarse	subangular and includes
1.80	J4				\bowtie	<u> </u>		dstone, mudstone, slag a linclude red brick and sla		
2.00 2.00	HSV B5	60 (20)kPa			\bowtie	\$		icular grey green white).	ay. Slag conten	t is 0-25 %. Slay is
					\bowtie	}		.1.80m BGL clay is of	high plasticity.	
2.50	PID	<0.1ppm			\bowtie	}	at c	.2.00m BGL engineer	notes red brick	dust coating on clay.
2.50	ES11				\bowtie	(2.70)		ŭ		
2.80	ES6	04 (04)I-D-								
3.00 3.00	HSV B7	64 (24)kPa				\$				
					\bowtie	-				
					\bowtie	-	fron	n c.3.50m BGL becom	ing yellow brow	n gravelly.
3.80	J8				\bowtie	-				
3.60	10				\bowtie	-				
4.20	J9			4.50	XXXXX	4.20	NAAI	DE CROUND /Firm grov	brown alightly	sandy slightly gravelly clay
4.20	B10			4.30	\bowtie	4.40		n some partially decompo		
						F	∖ coa	rse subangular and inclu	ide slag and red	d brick. Slag content is
						F		5%. Slag is vesicular gre	<u> </u>	
						F	l eri	minated at 4.40m BGL - c	due to slow prog	iress.
						E				
						E				
						<u> </u>				
						ţ				
		PLAN	1	1	<u> </u>	GROU	IND\\\	/ATER		
						No groundwater inflow observed.				
± 2.50 = ±										



STABILITY
Pit sides stable throughout excavation.

	ADD	ITIONAL INFOR	RMATION	GENERAL REMARK	KS		
	Sketch Diagram:	No ·	Sketch Taken				
	Photographs:	Yes	See additional sheets.				
All dimensions in metres For explanation of			of symbols and	Checked by:	Logged by:	Contract No.	

mensions in metres
Scale 1:50

For explanation of symbols and abbreviations see Key Sheets

Checked by:
K. Russell-Clamp

Contract No.
4251

TRIAL PIT RECORD **FINAL** Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP105 South Tees Development Corporation E:455006.172 N:521693.493 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 01/04/2020 Ground Level (m): 8.696 2 of 3





TRIAL PIT RECORD **FINAL** Prairie Site Ground Investigation Works Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP105 South Tees Development Corporation E:455006.172 N:521693.493 Start Date: 01/04/2020 Method (Equipment): Machine Excavated (360 Tracked Excavator) Ground Level (m): 8.696 3 of 3







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Project:	Prairie Site Ground Inve	Exploratory Hole No.		
Client:	South Tees Development Corporation	Location: E:454906.605 N:521692.9	03	PRAIRIE_AUK_TP106
Method (Eq	uipment):	Ground Level (m):	Start Date:	Sheet:

Method (Equipm		e Excavated (3	60 Trac	ked Ex	cavator)		Gro	und Level (m): 7.889	Start Date: 23/04/2020	Sheet:	1 of 3
SAN	TESTS				STRATA						
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)			Description		
0.50 0.50	J1 PID	<0.1ppm				k	ooulder and pla concret and inc	GROUND (Brown cla content and fragmer stic. Gravel is fine to e, refractory brick, re ude red brick and co concrete. Slag conte	nts of metal, wi coarse subang d brick and sla ncrete. Boulde	re, wood gular and g. Cobble ers are su	, metal spanner includes es are subangula bangular and
1.00 1.00	ES3 PID	<0.1ppm									
1.50 1.50	J4 PID	<0.1ppm		6.09		1.80					
2.00 2.00	B5 HSV	70 (26)kPa				- F - - - -(1.00)	-irm an	d stiff yellow brown r	nottled grey sli	ghtly san	dy CLAY.
2.50 2.50	J6 PID	<0.1ppm		5.09		2.80		0m BGL clay is of	•		
3.00 3.00	B7 HSV	130 kPa			<u> </u>	(0.70) i	Stiff to v s fine to and silts	very stiff orange sligh o coarse subangular stone.	itly sandy slight and includes s	tly gravel andstone	ly CLAY. Gravel e, mudstone, coa
3.50 3.50	J8 PID	<0.1ppm		4.39		3.50 - a	at c.3.5 Comple	0m BGL clay is of te at 3.50m BGL.	intermediate pl	lasticity.	
		PLAN				GROUNI No groun		ER inflow observed.			
-		3.40 Face A			i 1						
Face D		Orientation		- 2 0 0	1.80	STABILI					
		Face C				Pit sides	and bas	se unstable between 0.	.00-1.80m BGL.		
		1 405 0			_ "						
ADDITIONAL INFORMATION					GENERA	AL REN	MARKS				
Sketch Diagram: No Sketch Taken											
Photographs: Yes See additional sheets.											
All dimensions in metres For explanation Scale 1:50 abbreviations				lanation riations s	of symbols see Key She	and eets	Checked by:	Logged K. Russell	d by: I-Clamp	Contract No. 4251	

TRIAL PIT RECORD **FINAL** Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP106 South Tees Development Corporation E:454906.605 N:521692.903 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 23/04/2020 2 of 3





ALLIED EXPLORATION & GEOTECHNICS LIMITED Head Office: Regional Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01772 735 300 Fax: 01772 735 999



Status:-**FINAL**

Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP106 South Tees Development Corporation E:454906.605 N:521692.903 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 23/04/2020 Ground Level (m): 7.889 3 of 3

Figure PRAIRIE_AUK_TP106.3 PRAIRIE_AUK_TP106 - Spoil



Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL

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Status:-TRIAL PIT RECORD **FINAL** Project: Prairie Site Ground Investigation Works Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP107 South Tees Development Corporation E:454800.537 N:521660.804 Ground Level (m): 7.683 Method (Equipment) Start Date: Machine Excavated (360 Tracked Excavator) 06/04/2020 1 of 3 **SAMPLES & TESTS STRATA** Water Reduced Depth Depth Legend Description MADE GROUND (Brown sandy gravelly topsoil. Sand is fine to 0.05 0.05 J1 B2 coarse. Gravel is fine to coarse subangular and includes concrete, red brick and roadstone). 0.50 MADE GROUND (Firm yellow brown mottled grey sandy slightly .13 gravelly clay with medium cobble content and fragments of wood and (1.50)PID 0.80 metal. Gravel is fine to coarse subangular to subrounded and <0.1ppm 0.80 1.00 1.00 ES11 HSV includes red brick and sandstone. Cobbles are subangular and 72 (34)kPa include red brick). at c.0.50m BGL ... clay is of intermediate plasticity. 6.08 MADE GROUND (Black gravelly sand with medium cobble content. 1.70 1.80 (0.50)Sand is fine to coarse. Gravel is fine to coarse subangular and PID ES6 <0.1ppm includes ash, macadam, coke and slag. Slag content is 25-50%. Slag 1.80 is iron rich in places (rust). Cobbles are subangular and include 2.00 B7 fused coke). 2.30 J8 Firm to stiff grey brown slightly sandy CLAY. (0.90) HSV 2.50 67 (34)kPa at c.2.30m BGL ... clay if of high plasticity. 2.50 B9 2.80 2.80 PID <0.1ppm 3.00 ES10 Complete at 3.00m BGL.

	PLAN	
	2.80	-
	Face A	1
Face D	Orientation 194° <u>∎</u>	Face B
	Face C	,

GROUNDWATER Water strike at 2.00m BGL.

STABILITY Pit sides slightly unstable between 1.60-2.10m BGL.

ADD	ITIONAL INFOR	MATION	GENERAL REMARK	KS		
Sketch Diagram:	No S	Sketch Taken				
Photographs:	Yes	See additional sheets.				
	All dimensions in metres Scale 1:50 Scale 1:50 All dimensions in metres Scale 1:50 Abbreviations se			Checked by:	Logged by: K. Russell-Clamp	Contract No. 4251

Print Date and Time: 06/11/2020 14:24:53

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP107 South Tees Development Corporation E:454800.537 N:521660.804 | Ground Level (m): 7.683 Start Date: 06/04/2020 Method (Equipment): Machine Excavated (360 Tracked Excavator) 2 of 3





ALLIED EXPLORATION & GEOTECHNICS LIMITED Head Office: Regional Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01772 735 300 Fax: 01772 735 999

South Tees Development Corporation

Method (Equipment):
Machine Excavated (360 Tracked Excavator)

Client:

Location:



Exploratory Hole No.

FINAL

Status:-

E:454800.537 N:521660.804
| Ground Level (m): 7.683 Start Date: 06/04/2020 Sheet:

PRAIRIE_AUK_TP107

3 of 3



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		Status:- FINAL						
Project:		Exploratory Hole No.						
Client:					ound Inve	Location		
Method (Equi		es Development	Corpo	oration			E:454733.443 N:521630.866 Ground Level (m): Start Date:	PRAIRIE_AUK_TP108 Sheet:
Metriou (Equi		ne Excavated (36	0 Trad	cked Exc	cavator)		7.991 Start Bate. 06/04/2020	1 of 3
Si	AMPLES 8	& TESTS					STRATA	
Depth	Type No	Test Result	Water	Reduced Level		Depth (Thickness)	Description	
0.30 0.50 0.80 0.90 1.00 1.80 1.90 2.00 2.80 2.90 3.00 3.00	J1 B2 J3 B4 PID ES5 J6 B7 PID ES8	<0.1ppm 1.7ppm 0.6ppm	1	7.39 6.79		(0.60)	MADE GROUND (Grey sandy gravel. Grav subangular and includes roadstone). MADE GROUND (Black grey slightly clayer cobble and boulder content and fragments coarse subangular and includes roadstone content is 50-75%. Slag is vesicular, grey (boulders are subangular and include slag a slag). MADE GROUND (Grey sandy gravel with fragments of metal, wood and glass. Sand fine to coarse subangular to subrounded a yellow brick, sinter, concrete, ash and coal Slag is vesicular, grey green white and iror Cobbles are subangular and include red birick. Slight hydrocarbon odour). from 2.00m BGL 50% cobbles and brick at c.3.00m BGL oily sheen noted. At c.4.00m BGL engineer notes possible Terminated at 4.00m BGL - due to possible	y sandy gravel with high of metal. Gravel is fine to e, slag and coal. Slag green. Cobbles and and partially cemented high cobble content and is fine to coarse. Gravel is nd includes slag, red and . Slag content is 50-75%. In rich in places (rust). rick and yellow refractory s.
		PLAN 3.00			=_		NDWATER strike at 2.30m BGL.	
		Face A						
Face D		Orientation		- ac	- 2.00 -	STABI Pit side	LITY s stable throughout excavation.	
Face C								
	ADD	TIONAL INFORM	ИАТІС	N		GENE	RAL REMARKS	
Sketch Diagram: No Sketch Taken								

Yes

Photographs:

All dimensions in metres Scale 1:50

See additional sheets.

For explanation of symbols and abbreviations see Key Sheets

Checked by:

Logged by: K. Russell-Clamp

Contract No. 4251

TRIAL PIT RECORD **FINAL** Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP108 South Tees Development Corporation E:454733.443 N:521630.866 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 06/04/2020 2 of 3





Status:-

¢	TRI	FINAL								
Projec	ct: Prairie Site Ground Inve	Prairie Site Ground Investigation Works								
Client	t: South Tees Development Corporation	Location:	E:454733.443 N:521630.86	6	PRAIRIE_AUK_TP108					
Metho	od (Equipment): Machine Excavated (360 Tracked Excavator)		Ground Level (m): 7.991	Start Date: 06/04/2020	Sheet: 3 of 3					





Location:

PRAIRIE_AUK_TP109

◮	Head Office: Regional Office:	Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL	Tel: 0191 387 4700 Fax: 0191 387 Tel: 01772 735 300 Fax: 01772 73	
Ë		TRIAL PIT RECORD		Status:- FINAL
Project:		Prairie Site Ground Investigation Works		Exploratory Hole No.

Client:

South Tees Development Corporation

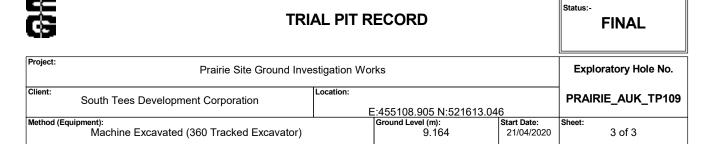
South Tees Development Corporation					E.455400	0 00E N.E04040 044	^	PRAIR	IE_AUK_IP109
Method (Equipment): Machine Excavated (3	ļ	Ground Le	3.905 N:521613.046 evel (m): 9.164	Start Date: 21/04/2020	Sheet:	1 of 3			
·	T Tac	T EU EX					21/04/2020		1013
SAMPLES & TESTS			STRATA						
Depth Type Test No Result	Water	Reduced Level	Legend	Depth (Thickness)			escription		
0.50 J1 0.50 PID <0.1ppm				- - - - - - - - (1.80)	Gravel is fin red brick, co vesicular gre	DUND (Grey brown e to coarse subang oncrete and ash. Sla ey green white. Cob d refractory bricks).	jular to subro ag content is obles are sub	ounded a 75-100%	nd includes slag, 6. Slag is
1.00 B2 1.00 ES3 1.00 PID 0.1ppm				-					
1.50 J4 1.50 PID 0.1ppm 1.70 B5		7.36		- 1.80	Firm to stiff	indistinctly laminate	ed orange br	own mott	led grey slightly
2.00 J6 2.00 HSV 82 (40)kPa 2.00 PID 82 (40)kPa <0.1ppm					sandy CLAY between c.1	′. .80-1.85m BGL բ	possible relic	ct topsoil	(plant material).
2.70 B7 3.00 J8		6.06		- - - - 3.10					
3.00 HSV 103 (40)kPa 3.00 PID <0.1ppm				-	Complete at	3.10m BGL.			
PLAN #			1		INDWATER undwater inflov	v observed.			
Orientation 189° Face C	- 9 0 0	2.10	STABI Pit side		oderately stable throu	ughout excava	ation.		
ADDITIONAL INFORMATION				GENE	RAL REMARI	√S			
Sketch Diagram: No Sketch Taken									
Photographs: Yes	See add								
All dimensions in metres Scale 1:50 For explanation of abbreviations see					ols and Sheets	Checked by:	Logged K. Russell	l by: -Clamp	Contract No. 4251

TRIAL PIT RECORD **FINAL** Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP109 South Tees Development Corporation E:455108.905 N:521613.046 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 21/04/2020 2 of 3





ALLIED EXPLORATION & GEOTECHNICS LIMITED Head Office: Regional Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01772 735 300 Fax: 01772 735 999





Status:-

FINAL

◮	Regional Office:	Unit 26 Stella Gill Industrial Estate, Petron Feli, Chester-le-Street, Co. Durnam, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL	Tel: 0191 387 4700 Fax: 01913 Tel: 01772 735 300 Fax: 01772
		TRIAL PIT RECORD	
Project:		Prairie Site Ground Investigation Works	

Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP110 South Tees Development Corporation Method (Equipment): Start Date:

	Machine	e Excavated (36	30 Trac	ked Exc	avator)		Groun	8.856	21/04/2020	Sneet:	1 of 3
SAM	TESTS										
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)		С	Description		
0.50 0.50 1.00 1.00 1.00	J1 PID B2 ES3 PID J4 PID	<0.1ppm <0.1ppm <0.1ppm				ζ2.10)	Gravel is concrete. with occa include content.	ROUND (Grey brown fine to coarse suban . Slag content is 50-7 asional rust (iron) part oncrete and cemente m BGL clayey/silty 50m BGL slightly s	gular and inc 5%. Slag is v ticles. Cobble d slag). very sandy g	ludes red esicular g s are sub	brick, slag and green grey white angular and
2.00	B5	211,661		6.76		2.10					
2.50 2.50 2.80 3.00 3.00 3.50 3.50 4.00 4.00 4.00 4.50 4.50	J6 PID ES7 B8 HSV PID J9 PID B10 ES11 HSV PID J12 PID	0.3ppm 59 (18)kPa 0.2ppm <0.1ppm 49 (12)kPa <0.1ppm 0.1ppm		4.36		(2.40)	MADE GROUND (Soft to firm orange brown mottled grey slight sandy slightly gravelly clay with fragments of pottery, metal an wood. Gravel is fine to coarse subangular and includes mudst coal, slag, coke and red bricks). at c.2.50m BGL clay is of high plasticity.				
		PLAN				GROU	GROUNDWATER				
Face D		3.10 Face A Orientation 188°		Tace B	1.90	STABIL	ITY	flow observed.	avation.		
		Face C			. 1						
ADDITIONAL INFORMATION					GENEF	RAL REMA	ARKS				
Sketch Diag	ıram:	No S	Sketch Ta	aken							
Photographs: Yes See additional sheets.											
All dimer	nsions in cale 1:50		-	For expl abbrevi	lanation iations s	of symbol ee Key Sh	s and neets	Checked by:	Logged K. Russell	d by: -Clamp	Contract No. 4251

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP110 South Tees Development Corporation E:455001.878 N:521603.274 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 21/04/2020 Ground Level (m): 8.856 2 of 3





ALLIED EXPLORATION & GEOTECHNICS LIMITED Head Office: Regional Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01772 735 300 Fax: 01772 735 999

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP110 South Tees Development Corporation E:455001.878 N:521603.274 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 21/04/2020 Ground Level (m): 8.856 3 of 3



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Ġ.	TRI	AL PIT R	ECORD		FINAL
Project:	Prairie Site Ground Inve	estigation Wo	rks		Exploratory Hole No.
Client:	South Tees Development Corporation	Location:	E:454901.611 N:521593.47	3	PRAIRIE_AUK_TP111
Method (Eq	uipment): Machine Excavated (360 Tracked Excavator)	•	Ground Level (m): 8.252	Start Date: 22/04/2020	Sheet: 1 of 3

	Machine	e Excavated (3	60 Trac	ked Exc	avator)			8.252	22/04/2020		1 of 3		
SAN	IPLES &	TESTS					<u>'</u>	STRATA		'			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description						
0.40 0.40 0.60	J1 PID B2	<0.1ppm		7.45		(0.80)	to coarse. Concludes recovericular grand	DUND (Grass over l Gravel is fine to coa d brick, concrete an ey green white). DUND (Black claye)	rse subangul d slag. Slag / sandy grave	lar to sub content is	orounded and s 0-25%. Slag is edium cobble		
1.00 1.00	J3 PID	0.1ppm				(1 20)	coarse. Gra includes as	fragments of wood vel is fine to coarse h, macadam, red bi ular and include red	e subangular rick, concrete	to subro	unded and nd slag. Cobbles		
1.50 1.50 1.60	ES4 PID B5	0.2ppm		6.25		2.00	content is 0	-25%. Slag is vesio	ular grey gre	en white)).		
2.00 2.00	J6 PID	<0.1ppm				-		orange brown mott 3GL clay if of inte			y CLAY.		
2.50 2.60	HSV B7	70 (30)kPa				(1.20)							
3.00 3.00 3.00	J8 HSV PID	101 (32)kPa <0.1ppm		5.05		3.20	Complete a	3.20m BGL.					
		PLAN					IDWATER	w observed.					
		2.50 Face A			1	9							
Orientation 188° 1.60 B					STABILITY Pit sides and base stable throughout excavation.								
L		Face C][
ADDITIONAL INFORMATION					GENERAL REMARKS								
Sketch Diagram: No Sketch Taken													
Photograp	ohs:	Yes		See add shee									
	nsions in scale 1:50		1	For expl	lanation iations s	of symbols ee Key Sh	s and eets	Checked by:	Logged K. Russell	l by: -Clamp	Contract No. 4251		

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP111 South Tees Development Corporation E:454901.611 N:521593.473 Start Date: 22/04/2020 Method (Equipment):

Machine Excavated (360 Tracked Excavator) 2 of 3





ALLIED EXPLORATION & GEOTECHNICS LIMITED Head Office: Regional Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01772 735 300 Fax: 01772 735 999

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP111 South Tees Development Corporation E:454901.611 N:521593.473 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 22/04/2020 3 of 3





Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01772 735 300 Fax: 01772 735 999

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Status:-TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP112 South Tees Development Corporation E:454830.544 N:521581.112

Method (Equipment):					Ground Le	vol (m)·	Start Date:	Sheet:		
Machine Exca	vated (360 Tra	cked Exc	avator)		Ground Le	8.900	22/04/2020	Sileet.	1 of 3	
SAMPLES & TEST	S				•	STRATA		•		
	Test tesult	Reduced Level	Legend	Depth (Thickness) Description						
0.70 B2 1.00 J3 1.00 PID <0 1.50 ES4 1.50 PID <0 1.70 B5 2.00 J6 2.00 PID 0.210 ES7 2.10 ES7 2.10 PID 0.230 B8 2.50 HSV 76 2.70 J9 2.70 PID <0 3.00 J10 3.00 PID <0 3.00 PID <0 3.00 J10 3.00 PID <0 3.00 PID <0 3.00 PID <0	0.1ppm 0.1ppm 0.1ppm 0.5ppm 9ppm (38)kPa 0.1ppm 0.1ppm (24)kPa	7.00 6.50 6.20		(0.80) (1.90) (1.10) (1	and fragment coarse subate refractory brivellow brick. white). MADE GRO of metal, naifine to coarse concrete, referenced we sicular green macadam. Here to coarse	UND (Brown sandy its of metal, plastic ngular and include icks. Cobbles are so Slag content is 0-2 UND (Black clayey las, plastic and cera e subangular to su fractory brick and sey green white). UND (Black gravel irse subangular to subang	, tin cans and sered brick, of subangular a 25%. Slag is visilty very samic. Sand is brounded ar lag. Slag consubrounded lour noted). y slightly sarwn slightly sarth plasticity.	d nails. Concrete, nd includivesicula indy gravis fine to condinctudintent is 0 individual individu	Gravel is fine to slag and de concrete and r grey green rel with fragments coarse. Gravel is es ash, red brick, 1-25%. Slag is to coarse. Gravel udes ash and r.	
F	PLAN 2.60 ace A		1		DWATER rike at 2.40m	BGL.				
Face —	entation 120° ace C	T acce	1.40 ———	STABILITY Pit sides and base stable throughout excavation.						
ADDITIONAL INFORMATION					AL REMARK	1 6				
ADDITIONAL INFORMATION Sketch Diagram: No Sketch Taken					AL KEIVIAK	.co				
Photographs:	Yes	See add shee								
All dimensions in metre Scale 1:50	s			of symbols ee Key She		Checked by:	Logged K. Russell	l by: -Clamp	Contract No. 4251	

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP112 South Tees Development Corporation E:454830.544 N:521581.112 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 22/04/2020 Ground Level (m): 8.900 2 of 3





ALLIED EXPLORATION & GEOTECHNICS LIMITED Head Office: Regional Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01772 735 300 Fax: 01772 735 999

TRIAL PIT RECORD



Client:

FINAL Project: Exploratory Hole No. Prairie Site Ground Investigation Works Location: PRAIRIE_AUK_TP112 South Tees Development Corporation E:454830.544 N:521581.112 Ground Level (m): S 8.900 Method (Equipment): Machine Excavated (360 Tracked Excavator) Start Date: 22/04/2020 Sheet: 3 of 3



Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL

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Status:-TRIAL PIT RECORD **FINAL** Project: Prairie Site Ground Investigation Works Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP113 South Tees Development Corporation E:454694.546 N:521566.242 | Ground Level (m): 8 160 Method (Equipment): Machine Excavated (360 Tracked Excavator) Start Date: 1 of /

Machine Excavated (360 Tracked Excavator)								8.160	06/04/2020	000	1 of 4
SAN	/IPLES &	TESTS					.	STRATA	l .		
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)		D	escription		
0.05 0.05 0.80	J1 B2			8.06		0.10	MADE GRO Fragments of is fine to coa concrete an	UND (Grass over UND (Dark brown of metal.Sand is fin arse subangular ar d slag. Slag conter red brick, concrete	gravelly sand te to coarse and include sand int is 0-25%.	d with low and includendstone,	des ash. Gravel ash, red brick,
0.00	33				\bowtie	-	and molude	red blick, colletete	and slag).		
1.10	B4				\bowtie	(2.20)					
1.30 1.30 1.80	PID ES5	<0.1ppm	<u></u>				boulders are fused slag. at c.1.50-2.3	n BGL high coble subangular and in 30m BGL Faces e to coarse subang	nclude concre B and C: Wh	ete, brick nite grey s	and partially sandy gravel.
				5.86	\bowtie	2.30	Olavel 13 IIII	c to coarse subart	guiai to subic	Juniaca a	na moiaacs siag
2.50	J7			5.80		(0.70)	clay). (Possibly Na	UND (Firm orange	J		slightly gravelly
2.80	B8			5.16	\bowtie	3.00	at c.2.50m E	BGL clay is of int n BGL Face A: s	ermediate pla	asticity.	/ledge
3.50	HSV	54 (20)kPa				(0.80)	Firm indistin	octly laminated oran	nge brown sa	ndy CLA	Y with some silty
3.50 3.80	J9 B10	01 (20)KI U		4.36		3.80		at 3.80m BGL - due			-
		PLAN				GROUN	NDWATER				
		3.20 Face A			1		trike at 1.70m	BGL.			
		Orientation		<u>ت</u> <u>م</u>	12						
Orientation 350° B 200 B					STABILITY Pit sides stable throughout excavation.						
		Face C			∐						
ADDITIONAL INFORMATION					GENER	RAL REMARI	KS				
Sketch Diagram: Sketch Taken											
Photograp	ohs:	Yes		See add shee							
	nsions in Scale 1:50			For exp	lanation iations s	of symbol ee Key Sh	s and neets	Checked by:	Logged K. Russell	l by: -Clamp	Contract No. 4251

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP113 South Tees Development Corporation E:454694.546 N:521566.242 | Ground Level (m): 8.160 Start Date: 06/04/2020 Method (Equipment): Machine Excavated (360 Tracked Excavator) 2 of 4





Project:

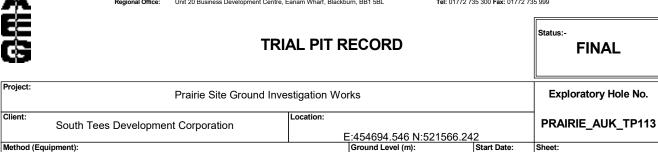
Client:

Sheet:

TRIAL PIT RECORD **FINAL** Exploratory Hole No. Prairie Site Ground Investigation Works Location: PRAIRIE_AUK_TP113 South Tees Development Corporation E:454694.546 N:521566.242 | Ground Level (m): 8.160









Client:

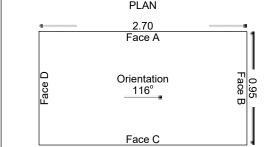
Method (Equipment):

Status:-

2	Head Office: Regional Office:	Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL	Tel: 0191 387 4700 Fax: Tel: 01772 735 300 Fax:
		TRIAL PIT RECORD	
Project:		Prairie Site Ground Investigation Works	

TRIA	FINAL			
Prairie Site Ground Inve	Exploratory Hole No.			
South Tees Development Corporation	Location:	::454611.674 N:521563.93	7	PRAIRIE_AUK_TP114
ipment): Machine Excavated (360 Tracked Excavator)		Ground Level (m): 7.756	Start Date: 07/04/2020	Sheet: 1 of 4

SAMI	PLES &	TESTS			STRATA		
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.10 0.10 0.30 0.40 0.50 0.50 0.90 1.30 1.40	J1 B2 J3 B4 ES5 PID ES6 PID J7 B8	7.2ppm 130.0ppm		5.76		2.00	MADE GROUND (Black clayey very sandy gravel with fragments glass, metal and tiles. Sand is fine to coarse. Gravel is fine to coarse subangular and includes red brick, refractory brick, ash and concrete). at c.0.90m BGL clay pipe running from Faces C to A, 300mm diameter. Black tar with hydrocarbon odour noted probably from within the pipe. Terminated at 2.00m BGL - due to water ingress and instability.
		PLAN				GROU	INDWATER



Groundwater seepage at 0.50m BGL. Water flowing out of the damaged pipe during

STABILITY Face A unstable from 1.20m BGL.

ADD	ITIONAL INFOR	MATION	GENERAL REMARK	(S		
Sketch Diagram:	Sketch Taken					
Photographs:	Yes	See additional sheets.				
All dimensions in metres For explanation of			of symbols and	Checked by:	Logged by:	Contract No.

For explanation of symbols and abbreviations see Key Sheets K.W K. Russell-Clamp 4251 Scale 1:50

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP114 South Tees Development Corporation E:454611.674 N:521563.937
| Ground Level (m): 7.756 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 07/04/2020 2 of 4





TRIAL PIT RECORD **FINAL** Project: Prairie Site Ground Investigation Works Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP114 South Tees Development Corporation E:454611.674 N:521563.937 Start Date: 07/04/2020 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Sheet: 3 of 4



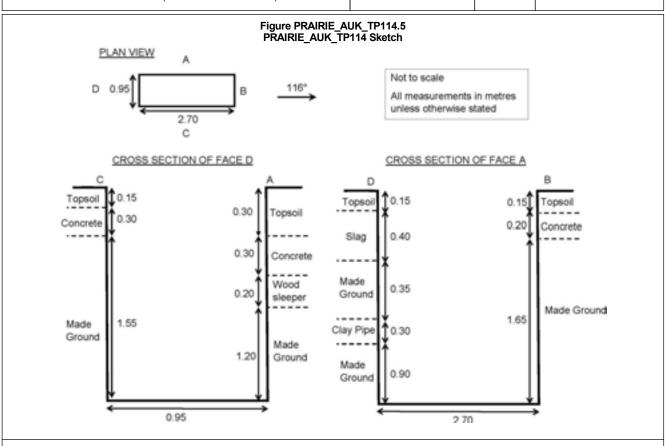


Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG
Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL

Tel: 0191 387 4700 Fax: 0191 387 4710
Tel: 01772 735 300 Fax: 01772 735 999



TRIAL PIT RECORD **FINAL** Project: Prairie Site Ground Investigation Works Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP114 South Tees Development Corporation E:454611.674 N:521563.937 Start Date: 07/04/2020 Method (Equipment): Machine Excavated (360 Tracked Excavator) Sheet: 4 of 4



Status:-

ALLIED EXPLORATION & GEOTECHNICS LIMITED

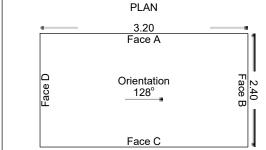
Head Office: Regional Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01772 735 300 Fax: 01772 735 999 TRIAL PIT RECORD Project: Prairie Site Ground Inv

South Tees Development Corporation

Machine Excavated (360 Tracked Excavator)

1/	AL PIT RECORD	FINAL	
е	stigation Works	Exploratory Hole No.	
	Location: E:454493.054 N:521548.8	34	PRAIRIE_AUK_TP115
	Ground Level (m): 7.843	Start Date: 08/04/2020	Sheet: 1 of 5

SAM	PLES &	TESTS					STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description			
0.30 0.30 0.50 0.80 1.40 1.70 1.90 1.90 2.00 2.40 2.70	J1 B2 W9 B3 J4 B5 PID ES6 HSV J7 B8	<0.1ppm 25 (8)kPa	<u></u>	6.64		(0.40) (0.80) (1.90) (1.90)	MADE GROUND (Yellow grey refractory bricks). from c.0.40m BGL Face D: concrete wall. MADE GROUND (Grey slightly clayey very sandy gravel. Gravel is fine to coarse subangular to subrounded and includes ash, red brick and slag. Slag content is 50-75%. Slag is vesicular grey green). between 1.20-3.10m BGL Face B: firm indistinctly laminated grey sandy silt/clay.			
		DI ANI					INDWATER			



Client:

Method (Equipment):

GROUNDWATER Water strike at 0.30m BGL.

STABILITY Side A unstable from c.0.40m BGL.

ADDITIONAL INFORMATION				
Sketch Diagram:	Sketch Taken			
Photographs:	Yes	See additional sheets.		

GENERAL REMARKS (1) Descriptions represent Face C. Refer to following sketches for further details.

For explanation of symbols and abbreviations see Key Sheets Checked by: Logged by: Contract No. All dimensions in metres K.W K. Russell-Clamp Scale 1:50 4251

Project:

Client:

TRIAL PIT RECORD **FINAL** Exploratory Hole No. Prairie Site Ground Investigation Works Location: PRAIRIE_AUK_TP115 South Tees Development Corporation E:454493.054 N:521548.834 Start Date: 08/04/2020 Method (Equipment): Machine Excavated (360 Tracked Excavator) 2 of 5





Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01972 735 390 Fax: 01772 735 399

TRIAL PIT RECORD **FINAL** Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP115 South Tees Development Corporation E:454493.054 N:521548.834 Start Date: 08/04/2020 Method (Equipment):

Machine Excavated (360 Tracked Excavator) 3 of 5





Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01772 735 999



Status:-TRIAL PIT RECORD **FINAL** Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP115 South Tees Development Corporation E:454493.054 N:521548.834 Start Date: 08/04/2020 Method (Equipment): Machine Excavated (360 Tracked Excavator) Ground Level (m): 7.843 Sheet: 4 of 5

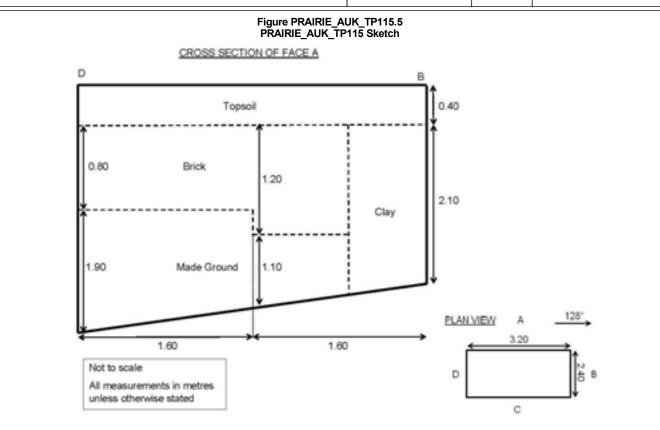


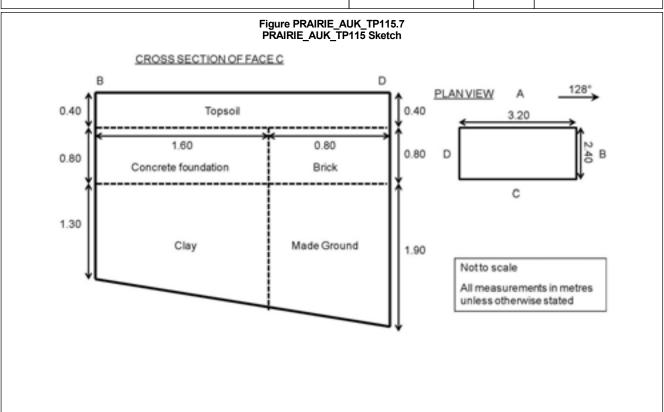
Figure PRAIRIE_AUK_TP115.6 PRAIRIE_AUK_TP115 Sketch CROSS SECTION OF FACE B 128 PLAN VIEW Α C 3.20 0.40 0.40 Topsoil D Concrete foundation 0.80 C 0.90 2.50 2.10 Clay 1,30 Notto scale All measurements in metres unless otherwise stated

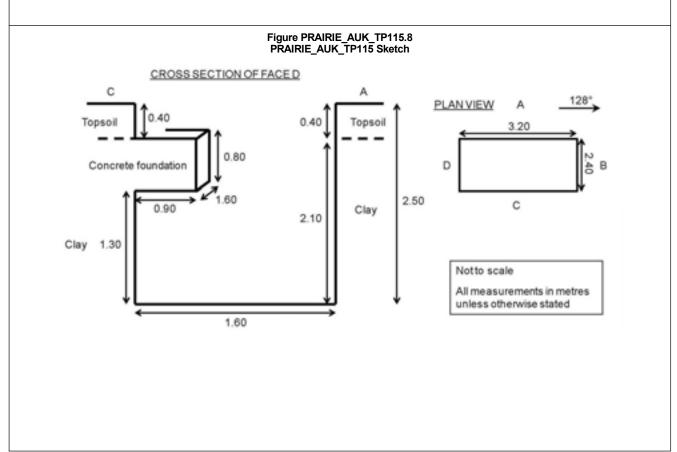
Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG
Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL

Tel: 0191 387 4700 Fax: 0191 387 4710
Tel: 01772 735 300 Fax: 01772 735 999



Status:-TRIAL PIT RECORD **FINAL** Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP115 South Tees Development Corporation E:454493.054 N:521548.834 Start Date: 08/04/2020 Ground Level (m): 7.843 Method (Equipment): Sheet: Machine Excavated (360 Tracked Excavator) 5 of 5





Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL

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Status:-TRIAL PIT RECORD **FINAL** Project: Prairie Site Ground Investigation Works **Exploratory Hole No.** Client: Location: PRAIRIE_AUK_TP116 South Tees Development Corporation E:455046.603 N:521489.508 Method (Equipment) Ground Level (m): 8.842 Start Date: Machine Excavated (360 Tracked Excavator) 23/04/2020 1 of 3 **SAMPLES & TESTS STRATA** Nater Reduced Depth Depth Legend Description MADE GROUND (Grey brown sandy gravel with medium cobble content. Gravel is fine to coarse subangular to subrounded and includes slag, concrete, red brick and refractory brick. Cobbles are subangular and include slag. Slag content is 50-75%. Slag is 0.50 0.50 PID 5.4ppm vesicular grey green white). (1.60)1.00 B2 1.30 1.30 7.1ppm J4 J5 1.50 MADE GROUND (Black brown slightly sandy clayey silt. Organic 1.60 odour noted). 1.60 PID 8.8ppm 1.70 В6 at c.1.60m BGL ... silt is of intermediate plasticity. J7 HSV 2.00 2.00 2.00 Firm to stiff orange brown mottled grey slightly sandy CLAY. 100 (68)kPa (1.10)at c.2.00m BGL ... clay is of high plasticity. PID <0.1ppm 2.50 В8 Stiff to very stiff orange slightly sandy slightly gravelly CLAY with coarse gravel sized pockets of orange sand. Gravel is fine to coarse subangular and includes sandstone, coal, mudstone and siltstone. 3.00 HSV 130 kPa 3.00 3.00 PID <0.1ppm (1.00) from c.3.00m BGL ... fissured with grey veins. Clay is of intermediate 3.50 plasticity. 3.90 3.90 J11 Complete at 3.90m BGL. **GROUNDWATER**

	PLAN	
	3.20	
	Face A	- 1
Face D	Orientation 	1.90 —— Face B
	Face C	Į.

No groundwater inflow observed.

STABILITY Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION			GENERAL REMARI	KS		
Sketch Diagram:	No Sketch Taken					
Photographs:	Yes	See additional sheets.				
All dimensions in metres For explanation of Scale 1:50 abbreviations see			Checked by:	Logged by: K. Russell-Clamp	Contract No. 4251	

abbreviations see Key Sheets

Print Date and Time: 06/11/2020 14:26:31

4251

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP116 South Tees Development Corporation E:455046.603 N:521489.508
| Ground Level (m): 8.842 | S Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 23/04/2020 2 of 3





Status:-

Œ	TRI	FINAL						
Project:	Prairie Site Ground Inve	Prairie Site Ground Investigation Works						
Client:	South Tees Development Corporation	Location:	E:455046.603 N:521489.50)8	PRAIRIE_AUK_TP116			
Method ((Equipment): Machine Excavated (360 Tracked Excavator)		Ground Level (m): 8.842	Start Date: 23/04/2020	Sheet: 3 of 3			



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¢	TRI	FINAL			
Project:	Prairie Site Ground Inve	Exploratory Hole No.			
Client:	South Tees Development Corporation	Location:	E:455003.534 N:521496.12	2	PRAIRIE_AUK_TP117
Method (Eq	uipment): Machino Excavated (360 Tracked Excavator)	•	Ground Level (m):	Start Date:	Sheet:

SAMPLES & TESTS Depth Type No Result PID 9.1ppm 0.50 PID 9.1ppm 1.00 B2 1.20 ES3 1.20 PID J4 SAMPLES & TESTS STRATA Depth (Thickness) Reduced Legend (Depth (Thickness)) Reduced Legend (Pid No) Reduced Legend (Depth (Thickness)) MADE GROUND (Black grey slightly clayey sandy gravel wit medium cobble content. Gravel is fine to coarse subangular subrounded and includes ash, concrete, slag, roadstone, ma and refractory brick. Cobbles are subangular and include ref brick, macadam, concrete and cemented slag. Slag content 75-100%. Slag is vesicular grey green. Sulphurous odour no 1.00 J4 1.50 J4	
MADE GROUND (Black grey slightly clayey sandy gravel wit medium cobble content. Gravel is fine to coarse subangular subrounded and includes ash, concrete, slag, roadstone, ma and refractory brick. Cobbles are subangular and include ref brick, macadam, concrete and cemented slag. Slag content 75-100%. Slag is vesicular grey green. Sulphurous odour no l.00 B2 1.20 ES3 1.20 PID 10.4ppm	
medium cobble content. Gravel is fine to coarse subangular subrounded and includes ash, concrete, slag, roadstone, ma and refractory brick. Cobbles are subangular and include ref brick, macadam, concrete and cemented slag. Slag content 75-100%. Slag is vesicular grey green. Sulphurous odour no land substitution in the subrounded and includes ash, concrete, slag, roadstone, ma and refractory brick. Cobbles are subangular and include ref brick, macadam, concrete and cemented slag. Slag content 75-100%. Slag is vesicular grey green. Sulphurous odour no land substitution in the subst	
1.20 ES3 1.20 PID 10.4ppm	to acadam fractory is
2.00 B5 2.00 PID 9.6ppm	
2.50 2.80 3.00 3.00 3.00 3.00 3.00 B9 11.1ppm B9 11.1ppm B9 11.1ppm 11.1ppm 5.35 1.30 Terminated at 3.30m BGL - due to instability.	y with
PLAN GROUNDWATER	
# 2.80 Groundwater seepage at 2.60m BGL.	
Orientation 343° STABILITY From 1.60m BGL all faces unstable (undermining).	
Face C	
ADDITIONAL INFORMATION GENERAL REMARKS	
Sketch Diagram: No Sketch Taken	
Photographs: Yes See additional sheets.	
	ract No. 251

Project:

Client:

TRIAL PIT RECORD **FINAL** Exploratory Hole No. Prairie Site Ground Investigation Works Location: PRAIRIE_AUK_TP117 South Tees Development Corporation E:455003.534 N:521496.122
| Ground Level (m): 8.653 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 23/04/2020 2 of 3





Status:-

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP117 South Tees Development Corporation E:455003.534 N:521496.122 | Ground Level (m): 8.653 | S Method (Equipment): Machine Excavated (360 Tracked Excavator) Start Date: 23/04/2020 Sheet: 3 of 3



Location:

E:454893.854 N:521502.578

Status:-

FINAL

Exploratory Hole No.

PRAIRIE_AUK_TP118

_			
	Head Office: Regional Office:	Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL	Tel: 0191 387 4700 Fax: 019 Tel: 01772 735 300 Fax: 017
Ġ		TRIAL PIT RECORD	
Project:		Prairie Site Ground Investigation Works	

South Tees Development Corporation

Client:

SAMPLES & TESTS STRATA	Method (Equipmen								Ground Level (m):	1302.37	Start Date:	Sheet:		
Depth Type No Test Result B Reduced Legend Thickness Description Reduced Legend Depth (Thickness) 8.48 0.10 MADE GROUND (Grass over topsoil). MADE GROUND (Brown clayey/silty very sandy gravel with low cobble content and fragments of metal. Sand is fine to coarse. G is fine to coarse subangular to subrounded and includes red bric concrete, ash, slag and refractory brick. Cobbles are subangular	ľ	Machin	e Excavated (36	0 Trac	ked Exc	cavator)			8.581		23/04/2020	1 of 3		
8.48 0.10 MADE GROUND (Grass over topsoil). MADE GROUND (Brown clayey/silty very sandy gravel with low cobble content and fragments of metal. Sand is fine to coarse. G is fine to coarse subangular to subrounded and includes red bric concrete, ash, slag and refractory brick. Cobbles are subangular	SAMF	PLES &	TESTS				STRATA							
MADE GROUND (Brown clayey/silty very sandy gravel with low cobble content and fragments of metal. Sand is fine to coarse. G is fine to coarse subangular to subrounded and includes red bric concrete, ash, slag and refractory brick. Cobbles are subangular	Depth	Type No		Water		Legend	Depth (Thickness)		Description					
0.50 J1 Cobble content and fragments of metal. Sand is fine to coarse. G is fine to coarse subangular to subrounded and includes red bric concrete, ash, slag and refractory brick. Cobbles are subangular					8.48		0.10 MADE GROUND (Grass over topsoil).							
1.00 B2 Slag is vesicular grey green white).	1.00	PID B2	0.2ppm				(1.30)	cob is fir con incl	ble content and fra ne to coarse subar crete, ash, slag an ude red and yellow	agments ngular to id refract v brick ar	of metal. Sar subrounded ory brick. Co ad concrete. S	nd is fine to coarse. Gravel and includes red brick, bbles are subangular and		
1.20 ES3 PID <0.1ppm 7.18 1.40 Firm black brown slightly sandy slightly gravelly CLAY/SILT. Grav			<0.1ppm	N	7.18		1.40	Eirn	hlack brown sligh	atly cand	y cliabtly aray	rolly CLAV/SILT Gravel is		
1.50 J4 1.60 B5 68 (42)kPa 1.60 PID <0.1ppm - 1.70 fine to coarse subangular and includes mudstone. Organic odou noted. (Possible Made Ground).	1.60 1.60	B5 HSV			6.88		1.70	fine note (Po:	to coarse subangued. ssible Made Grour	ular and indination	includes mud	dstone. Organic odour		
2.20 J6 2.20 PID <0.1ppm	2.20	PID B7					(1.30)	Firm	n orange brown mo	ottled gre	y slightly sar			
2.60 HSV 82 (40)kPa	2.60	HSV	82 (40)kPa			<u> </u>	-							
5.58 — - 3.00 Complete at 3.00m BGL.					5.58		- 3.00	Con	nplete at 3.00m BG	GL.				
PLAN GROUNDWATER Groundwater seepage at 1.40m BGL.						_				BGL.				
Face A						1								
Orientation 346° B STABILITY Pit sides and base stable throughout excavation.	Face		_346°		ה מ	50								
Face C	Face C													
ADDITIONAL INFORMATION GENERAL REMARKS		ADDI	TIONAL INFORM	ΛΑΤΙΟ	N		GENE	RAL I	REMARKS					
Sketch Diagram: No Sketch Taken														

Checked by:

Logged by: K. Russell-Clamp

Contract No.

4251

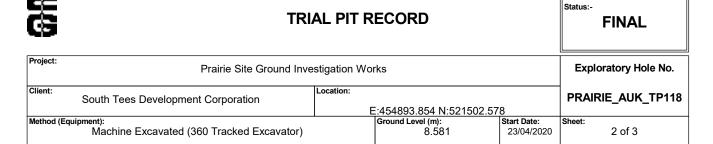
Yes

Photographs:

All dimensions in metres Scale 1:50

See additional sheets.

For explanation of symbols and abbreviations see Key Sheets









FINAL

Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP118 South Tees Development Corporation E:454893.854 N:521502.578 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 23/04/2020 3 of 3

Figure PRAIRIE_AUK_TP118.3 PRAIRIE_AUK_TP118 - Spoil

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¢	TRI	FINAL			
Project:	Prairie Site Ground Inve	Exploratory Hole No.			
Client:	South Tees Development Corporation	PRAIRIE_AUK_TP119			
Method (Ed	pulpment): Machine Excavated (360 Tracked Excavator)	•	Ground Level (m): 8.925	Start Date: 22/04/2020	Sheet: 1 of 3

Machine Excavated (36	70 1140	nou Enc	avalor			8.925	22/04/2020	1 of 3		
SAMPLES & TESTS				STRATA						
Depth Type Test No Result	Water	Reduced Level	Legend	Depth (Thickness)		De	escription			
0.50 J1 0.50 PID <0.1ppm 1.00 B2 1.00 PID <0.1ppm		8.83		0.10	MADE GROUND (Black macadam). MADE GROUND (Black slightly clayey/silty sandy gravel with low cobble content. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded and includes macadam, ash and slag. Cobbles are subangular and include slag. Slag content is 50-75%. Slag is vesicular grey green white).					
1.50 ES3 1.50 J4 1.50 PID <0.1ppm					from c.1.50n	n BGL gravelly s	and.			
2.00 B5 2.00 PID <0.1ppm	₹	6.73		2.20		GL slightly claye				
2.50 J6 2.50 ES7 2.50 HSV 47 (20)kPa 2.50 PID <0.1ppm		5.70		(1.00)	Firm orange brown mottled grey slightly sandy CLAY. at c.2.50m BGL clay is of high plasticity.					
3.00 HSV 65 (22)kPa		5.73		3.20	Complete at	3.20m BGL.				
PLAN				GROU	NDWATER					
2.50			=.	GROUNDWATER Water strike at 2.20m BGL						
Face C					STABILITY Pit sides and base stable throughout excavation.					
ADDITIONAL INFORMATION					RAL REMARK	(S				
Sketch Diagram: No S	Sketch Ta	aken								
Photographs: Yes		See add shee								
All dimensions in metres Scale 1:50 For explanation of symbols and Scale 1:50 Checked by: Logg K. Russ						Logged K. Russell-	by: Contract No.			

Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01972 735 390 Fax: 01772 735 399

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP119 South Tees Development Corporation E:454801.846 N:521499.669 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 22/04/2020 Ground Level (m): 8.925 2 of 3





TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP119 South Tees Development Corporation E:454801.846 N:521499.669 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 22/04/2020 Ground Level (m): 8.925 3 of 3





A	A	Head Office:	Unit 25 Ste	ella Gill Indus	trial Estate, P		ter-le-Str		S LIM 87 4700 Fax: 0191 387 735 300 Fax: 01772 73	4710		
					TR	RIAL PI	IT R	ECORD		Status:- FINAL		
Project:			Prairie	Site Gr	ound In	vestigatio	n Wo	rks		Exploratory Hole No.		
Client:	South Tees Development Corporation E:454697.497 N:521508.611								11	PRAIRIE_AUK_TP120		
Method (Equipn		e Excavated (36	0 Trac	ked Exc	cavator)	<u> </u>	-	Ground Level (m): 7.995	Start Date: 20/04/2020	Sheet: 1 of 3		
SAN	MPLES &	TESTS						STRATA	-			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)		[Description			
0.50 0.50 0.80 1.00	J1 PID B2 ES3	<0.1ppm				MADE GROUND (Black gravelly sand with low cobble content an fragments of metal. Sand is fine to coarse. Gravel is fine to coarse subangular and includes red brick, ash, concrete and slag. Cobbl are subangular and include concrete. Slag content is 0-25%. Slag vesicular grey green white).						

0.50	6.50	are subanguvesicular gre	and includes red bri illar and include con- ey green white). GGL concrete. at 1.50m BGL - due i	crete. Slag content	is 0-25%. Slag is		
PLAN		GROUNDWATER					
#		Groundwater seepage	e at 1.50m BGL.				
Pace A							
Orientation	<u>ප ජ</u>	STABILITY					
i ii	В	Pit sides and base sta	ble throughout excav	ration.			
Face C],						
ADDITIONAL INFOR	.MA FION	GENERAL REMARKS					
Sketch Diagram: No	Sketch Taken						
Photographs: Yes	See additional sheets.						
All dimensions in metres Scale 1:50	For explanation of abbreviations se	of symbols and ee Key Sheets	Checked by:	Logged by: K. Russell-Clamp	Contract No. 4251		

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP120 South Tees Development Corporation E:454697.497 N:521508.611 Method (Equipment): Machine Excavated (360 Tracked Excavator) Start Date: 20/04/2020 2 of 3





TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP120 South Tees Development Corporation E:454697.497 N:521508.611 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 20/04/2020 3 of 3



Location:

Status:-

FINAL

Exploratory Hole No.

	Head Office: Regional Office:	Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL	Tel: 0191 387 4700 Fax: 019 Tel: 01772 735 300 Fax: 017
Ğ		TRIAL PIT RECORD	
Project:		Prairie Site Ground Investigation Works	

Client:

Client:	South Tee	es Development	Corpo	oration		Location		::454697.765 N	J-501513 7	7Q	PRAIRIE_AUK_TP120A
Method (Equipr		e Excavated (36	0 Trac	cked Exc	cavator)			Ground Level (m): 7.87		Start Date: 20/04/2020	Sheet: 1 of 3
SAI	MPLES &	TESTS							STRATA		
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness))		Γ	Description	
0.50 0.50 0.80 1.00 1.00	J1 PID B2 ES3 PID	<0.1ppm <0.1ppm	<u>‡</u>	6.58			meta subi cont	al. Sand is fine	to coarse. Includes red Slag is vesi	Gravel is fine brick, concret cular grey gre	•
1.50 1.50 1.50 1.80	J4 HSV PID B5	62 (22)kPa <0.1ppm		5.88		- (0.70) - - 2.00		•			mottled grey slightly sandy
2.50 2.50 2.50 2.50	J6 HSV PID	74 (18)kPa <0.1ppm		4.98		- - (0.90) - - - 2.90	CLA	Y with fine yell			
Face D		PLAN 3.20 Face A Orientation 300°		- ace	1.50	GROL Water		ATER at 1.30m BGL			
		Face C		0		STAB Pit side		base stable thro	oughout exc	avation.	
Sketch Dia		TIONAL INFORI	MATIC			GENE	RAL F	REMARKS			
Photogra	phs:	Yes		See add		_					

For explanation of symbols and abbreviations see Key Sheets

Checked by:

Logged by: K. Russell-Clamp

Contract No. **4251**

All dimensions in metres Scale 1:50

Project:

Client:

TRIAL PIT RECORD **FINAL** Prairie Site Ground Investigation Works Exploratory Hole No. Location: PRAIRIE_AUK_TP120A South Tees Development Corporation E:454697.765 N:521513.778 Method (Equipment): Machine Excavated (360 Tracked Excavator) Start Date: 20/04/2020 2 of 3





TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP120A South Tees Development Corporation E:454697.765 N:521513.778 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 20/04/2020 Ground Level (m): 7.878



Status:-

◮	Head Office: Regional Office:	Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL	Tel: 0191 387 4700 Fax: 0191 Tel: 01772 735 300 Fax: 01772
		TRIAL PIT RECORD	
Project:		Prairie Site Ground Investigation Works	

South Tees Development Corporation

FINAL Exploratory Hole No. Location: PRAIRIE_AUK_TP121 E:454597.680 N:521503.836
| Ground Level (m): | Start Date:

Method (Equipment): Machine Excavated (360 Tracked Excavator)								Ground Level (m): 8.213	Start Date: 09/04/2020	Sheet: 1 of 3		
SAMPLES & TESTS				STRATA								
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description					
0.40	J1 B2		<u>‡</u>	7.31		į (coai	DE GROUND (Brown clay se. Gravel is fine to coars slag. Slag content is 0-25	se subangular	and includes red brick		
1.20 1.50 1.50 1.80	J3 PID ES4 B5	<0.1ppm	=				suba 75-1 from	DE GROUND (Blue grey sangular to subrounded an 00%. Slag is vesicular. Sac.1.20m BGL low coblinclude slag.	d includes sla	g. Slag content is bon odour noted).		
2.80	B7 J8					- (3.60) - - - - - -						
3.80 4.20	B9 J10											
4.50	B11			3.71		4.50	Com	nplete at 4.50m BGL.				
PLAN 2.80 Face A Orientation 070° 0 070°						GROUN Water str		ATER at 0.90m BGL.				
Face D		070°		ה ס	STABILITY Pit sides stable throughout excavation.							

œ Face C

Client:

Method (Equipment):

GENERAL REMARKS

ADDITIONAL INFORMATION No Sketch Taken Sketch Diagram: See additional sheets. Photographs:

Checked by: Logged by: K. Russell-Clamp Contract No. For explanation of symbols and abbreviations see Key Sheets All dimensions in metres 4251 Scale 1:50

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP121 South Tees Development Corporation E:454597.680 N:521503.836 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 09/04/2020 2 of 3

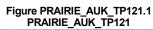




Figure PRAIRIE_AUK_TP121.2 PRAIRIE_AUK_TP121



TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP121 South Tees Development Corporation E:454597.680 N:521503.836 Method (Equipment): Machine Excavated (360 Tracked Excavator) Start Date: 09/04/2020 3 of 3



Status:-

FINAL

Exploratory Hole No.

◮	Head Office: Regional Office:	Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL	Tel: 0191 387 4700 Fax: 0191 38 Tel: 01772 735 300 Fax: 01772 7
G		TRIAL PIT RECORD	
Project:		Prairie Site Ground Investigation Works	

Client: South Tees Development Corporation							Location:					PRAIRIE_AUK_TP122		
Method (Equipment): Machine Excavated (360 Tracked Excavator)							E	Ground Level (m 7.8		Start Date: 08/04/2020	Sheet:	1 of 3		
SAMPLES & TESTS						STRATA								
Depth	Depth Type Test No Result		Water	Reduced Legend (Depth (Thickness)	Depth hickness) Description							
0.40 0.80 1.00 1.00	J1 B2 PID ES3	<0.1ppm	1	6.60		(1.20)	frag to c refra ves	DE GROUND ments of woo oarse subang actory brick, s icular grey gre	nd and metal, jular to subrou lag and conci een white. Sliç	ood sleep cludes rec ntent is 0- oon odour	25%. Slag is			
PLAN 2.50 Face A Orientation					GROU		/ATER at 0.30m BGL	(Heavy inflow)).					
Orientation 1.70 B Face C						STABILITY Pit sides stable throughout excavation.								
ADDITIONAL INFORMATION					GENE	RAL I	REMARKS							
Sketch Diagram: Sketch Taken														
Photographs: Yes			See additional sheets.											

For explanation of symbols and abbreviations see Key Sheets

Checked by:

Logged by: K. Russell-Clamp

Contract No. **4251**

All dimensions in metres Scale 1:50

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP122 South Tees Development Corporation E:454506.312 N:521498.464
| Ground Level (m): 7.802 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 08/04/2020 2 of 3





Figure PRAIRIE_AUK_TP122.2 PRAIRIE_AUK_TP122



Method (Equipment):

Machine Excavated (360 Tracked Excavator)

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Start Date: 08/04/2020

3 of 3



Client:

TRIAL PIT RECORD **FINAL** Prairie Site Ground Investigation Works Exploratory Hole No. Location: PRAIRIE_AUK_TP122 South Tees Development Corporation E:454506.312 N:521498.464

Ground Level (m): 7.802



Figure PRAIRIE_AUK_TP122.4 PRAIRIE_AUK_TP122 Sketch PLAN VIEW 198° At GL - Concrete foundation 1.20m BGL 1.70 Made Ground С 2.50 Notto scale All measurements in metres unless otherwise stated

Location:

Status:-

FINAL

Exploratory Hole No.

PRAIRIE_AUK_TP123

◮	Head Office: Regional Office:	Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL	Tel: 0191 387 4700 Fax: 019 Tel: 01772 735 300 Fax: 017
		TRIAL PIT RECORD	
Project:		Prairie Site Ground Investigation Works	

South Tees Development Corporation

Client:

							E	:454400.354 N:52149	7.995		
Method (Equipme		e Excavated (36	0 Trad	cked Exc	cavator)			Ground Level (m): 8.155	Start Date: 08/04/2020	Sheet:	1 of 3
SAM	PLES 8	TESTS						STRATA	A		
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)			Description		
0.30 0.50 0.60 0.60	J1 B2 PID ES3	<0.1ppm	<u></u>	5.36		MADE GROUND (Brown sandy gravel with high cobble content. Gravel is fine to coarse subangular and includes slag, concrete, macadam and red and yellow brick. Slag content is 0-25%. Slag is vesicular grey green white. Cobbles include bricks). MADE GROUND (Red and yellow refractory bricks). (Engineer notes bricks are stacked - possible structure). 7.2.80 Terminated at 2.80m BGL - due to brick structure.					
		PLAN				GROL	JNDW	/ATER			
		3.30			-			at 0.60m BGL.			
		Face A									
٥		Orientation		٦	 						
Face D		352°		ה מ	2.20 –	STAB Pit side	ILITY es stat	ole throughout excavation	n.		
	Face C										
	Face C										
ADDITIONAL INFORMATION					GENE	RAL I	REMARKS				
Sketch Diagi	Sketch Diagram: No Sketch Taken										
Photographs: Yes See additional sheets.											

For explanation of symbols and abbreviations see Key Sheets

Checked by:

Logged by: K. Russell-Clamp

Contract No.

4251

All dimensions in metres Scale 1:50

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP123 South Tees Development Corporation E:454400.354 N:521497.995 Ground Level (m): 8.155 Start Date: 08/04/2020 Method (Equipment): Machine Excavated (360 Tracked Excavator) 2 of 3







TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP123 South Tees Development Corporation E:454400.354 N:521497.995 Ground Level (m): 8.155 Method (Equipment): Machine Excavated (360 Tracked Excavator) Start Date: 08/04/2020 3 of 3



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#											
					TR	IAL PI	IT RE	ECORD			Status:- FINAL
Project:		P	rairie	Site Gr	ound Inv	estigatio	n Worl	(S			Exploratory Hole No.
Client:	41. T.					Location					PRAIRIE_AUK_TP124
		es Development (Jorpo	oration			<u>E</u> :	454306.625 N:52	1454.37	3	
Method (Equipme	ent): Machir	ne Excavated (360	Trac	ked Exc	cavator)			Ground Level (m): 8.269		Start Date: 08/04/2020	Sheet: 1 of 4
SAM	PLES 8	R TESTS						STR	ATA		
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)			D	escription	
1.00 1.50 1.50 1.50 2.00 2.20 2.50 2.50 2.50	J1 B2 J3 PID B4 ES5 J6 HSV PID B7 ES8	<0.1ppm 32 (20)kPa <0.1ppm		6.57 5.27		(1.30)	MAD fragr to co sand Firm CLA at c.2	arse subangular a stone). indistinctly lamina	y black of plastic, and inclusion inclusions ted orar	clayey very gr Sand is fine ides red brick	ravelly sand with to coarse. Gravel is fine k, concrete, ash and ottled grey slighty sandy
	_	PLAN 4.00 Face A			1	GROU No gro		ATER er inflow observed.			
G D		Orientation		Tace	0.70						
Offentation according to the first of the fi							LITY es stabl	e throughout excav	ation.		
ADDITIONAL INFORMATION							RAL R	EMARKS			
Sketch Diagram: Sketch Taken											
Photograpl	hs:	Yes		See add							

Checked by:

For explanation of symbols and abbreviations see Key Sheets

Logged by: K. Russell-Clamp

Contract No. 4251

All dimensions in metres Scale 1:50

TRIAL PIT RECORD **FINAL** Project: Prairie Site Ground Investigation Works Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP124 South Tees Development Corporation E:454306.625 N:521454.373 | Ground Level (m): 8.269 Method (Equipment): Machine Excavated (360 Tracked Excavator) Start Date: 08/04/2020 2 of 4





TRIAL PIT RECORD **FINAL** Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP124 South Tees Development Corporation E:454306.625 N:521454.373 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 08/04/2020 3 of 4

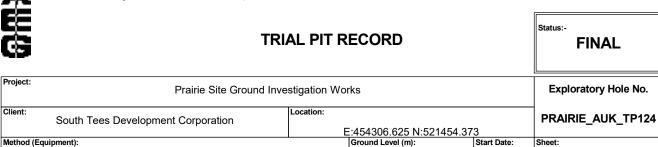


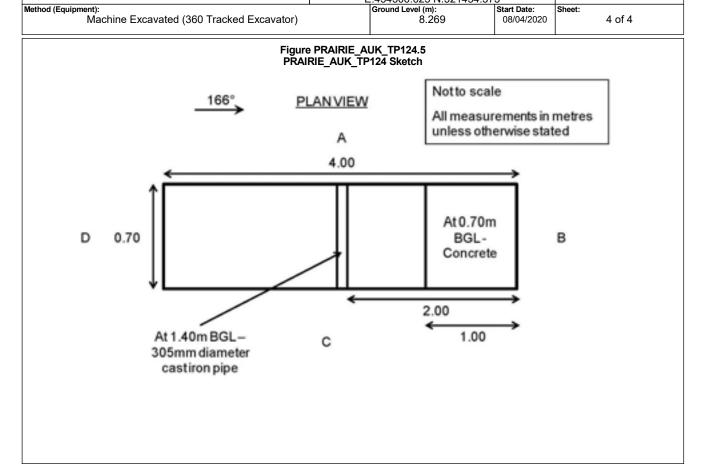


Figure PRAIRIE_AUK_TP124.4 PRAIRIE_AUK_TP124 - Spoil



Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01772 735 909





<u>^</u>		Regional Office:	Unit 20 Bu	siness Develo	opment Centre	, Eanam Whar	f, Blackburn, BB1 5BL	Tel: 01772 7	735 300 Fax: 01772 73	85 999		
					TR	IAL PI	T RECOR	RD		Status:-	FINAL	
Project:			Prairie	Site Gr	ound Inv	estigatio	n Works			Expl	oratory Hole No.	
Client:	outh Too	es Development				Location				PRAII	RIE_AUK_TP125	
Method (Equipme		es Development	Corpo	Diation			E:454246 Ground Le	5.923 N:521423.87	79 Start Date:	Sheet:	(IL_AOK_II 123	
motriou (Equipm	Machine	e Excavated (36	0 Trac	ked Exc	cavator)		Orbana Ec	8.473	09/04/2020	Oncot.	1 of 2	
SAM	IPLES &	TESTS						STRATA	`			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness) Description						
				8.27		0.20		UND (Strong grey at 0.20m BGL - du		obstruct	ion	
		DI AN				GRO I	NDWATER					
# D 00		PLAN 6.65 Face A Orientation			5.0	GROU No gro	NDWATER undwater inflow	v observed.				
Orientation 55.00 B						STABI Pit side		ble throughout exc	avation.			
ADDITIONAL INFORMATION							RAL REMARK					
Sketch Diagram: Sketch Taken						(1) NO	samples taken.					
Photograp	hs:	Yes		See add shee								
All dimer	nsions in cale 1:50	metres		For exp	lanation iations s	of symbo	ls and heets	Checked by:	Logged K. Russell	l by: -Clamp	Contract No. 4251	

Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL Tel: 01772 735 300 Fax: 01772 735 999

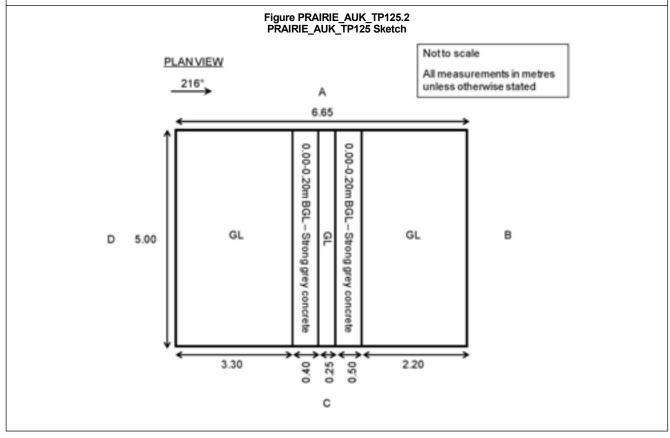
Status:-



Client:

TRIAL PIT RECORD **FINAL** Prairie Site Ground Investigation Works Exploratory Hole No. Location: PRAIRIE_AUK_TP125 South Tees Development Corporation E:454246.923 N:521423.879 Start Date: 09/04/2020 Method (Equipment): Machine Excavated (360 Tracked Excavator) Ground Level (m): 8.473 2 of 2





Æ	•	Head Office: Regional Office:	Unit 25 Ste Unit 20 Bus	ella Gill Indus siness Devel	strial Estate, Popment Centr	elton Fell, Ches e, Eanam Whar	ter-le-Stre f, Blackbi	eet, Co. Durham, DH2 2R um, BB1 5BL	CG Tel: 0191 3 Tel: 01772	87 4700 Fax: 0191 38 735 300 Fax: 01772 7	17 4710 35 999
					TR	RIAL PI	IT R	ECORD			Status:- FINAL
Project:			Prairie	Site Gr	ound Inv	vestigatio	n Wo	rks			Exploratory Hole No.
Client:	South Te	es Development	t Corpo	oration		Location		::454257.923 N	1.501/107 0	82	PRAIRIE_AUK_TP125
Method (Equip	ment): Machir	ne Excavated (36	60 Trac	ked Ex	cavator)			Ground Level (m): 8.61		Start Date: 09/04/2020	Sheet: 1 of 3
SA	MPLES 8	R TESTS						<u> </u>	STRATA		I.
Depth Type Test by Reduced Level Result Reduced Level					Legend	Depth (Thickness)			I	Description	
0.10 0.20	J1 B2			8.22		(0.40)	Gra	DE GROUND (I vel is fine to co cadam and ash	arse subar	velly sand. Sa ngular and inc	and is fine to coarse. cludes red brick, concrete,
						(0.80)	MAI			tructure infille	ed with with gravel
				7.42		1.20		.1.20m BGL	concrete b	ase	
		PLAN				GROL	NDW undw	'ATER ater inflow observ	ved.		
		2.90 Face A]						
Orientation 060° Face C					STABI Pit side	LITY es stat	ole throughout ex	xcavation.			
	۷٦٦١	TIONAL INFORI	ΜΔΤΙΩ	N		GENE	RAI I	REMARKS			
_							. VAL 1	ALIVIAI (IXO			
Sketch Dia	Sketch Diagram: No Sketch Taken										

ADD	ITIONAL INFORI	MATION	GENERAL REMARK	(S		
Sketch Diagram:	No S	Sketch Taken				
Photographs:	Yes	See additional sheets.				
All dimensions Scale 1:	 	For explanation of abbreviations se		Checked by:	Logged by: K. Russell-Clamp	Contract No. 4251

Client:

TRIAL PIT RECORD **FINAL** Prairie Site Ground Investigation Works Exploratory Hole No. Location: PRAIRIE_AUK_TP125A South Tees Development Corporation E:454257.923 N:521427.282 Start Date: 09/04/2020 Ground Level (m): 8.619







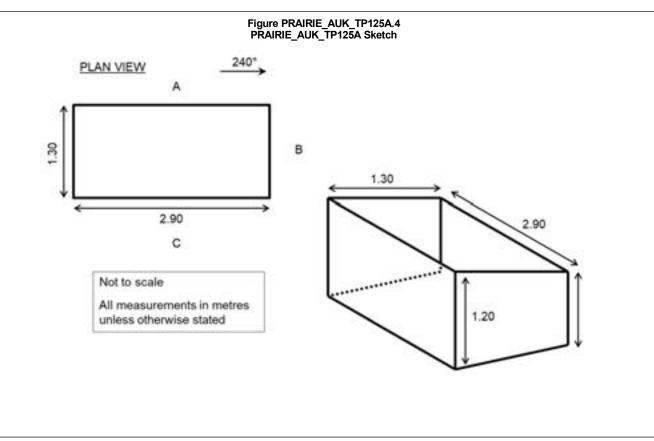
Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01972 735 390 Fax: 01772 735 399



Client:

TRIAL PIT RECORD **FINAL** Project: Prairie Site Ground Investigation Works Exploratory Hole No. Location: PRAIRIE_AUK_TP125A South Tees Development Corporation E:454257.923 N:521427.282 Start Date: 09/04/2020 Method (Equipment): Machine Excavated (360 Tracked Excavator) Ground Level (m): 8.619 3 of 3



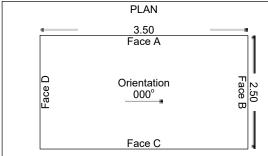


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Status:-TRIAL PIT RECORD **FINAL**

Project:	Prairie Site Ground Inve	Explorat	ory Hole No.			
Client:	South Tees Development Corporation	Location:	E:454177.949 N:521411.23	31	PRAIRIE_	AUK_TP126
Method (Equ	upment): Machine Excavated (360 Tracked Excavator)		Ground Level (m): 8 749	Start Date: 17/04/2020	Sheet:	of 3

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description				
0.20 0.40	J1 B2			8.25		(0.50)	0-25%). at c.0.50m BGL top of concrete obstruction. Possible walls of subsurface structure. MADE GROUND (Brown black red and yellow gravel, cobbles and boulders with fragments of metal. Gravel is fine to coarse angular to				
1.40	J3					(2.20)	subangular and includes slag and red and yellow brick. Slag content is 0-25%. Slag is vesicular grey green. Cobbles are angular and include 50-75% vesicular grey green slag. Boulders are angular and include 50-75% vesicular grey green slag).				
1.80	B4					c	between c.0.50-2.70m BGL concrete structure surrounds the north and east faces of pit.				
2.60 2.60	ES5 PID	0.2ppm		6.05		2.70	at c.2.70m BGL concrete obstruction - pit extended west. Terminated at 2.70m BGL - due to concrete obstruction.				



GROUNDWATER

Slight groundwater seepage (water perched on concrete base) at 2.70m BGL.

STABILITY
Pit sides and base unstable throughout excavation.

ADD	ITIONAL INFOR	MATION	GENERAL REMARKS				
Sketch Diagram:	Sk	xetch Taken	(1) Trial pit extended	west by 2.00m due to	concrete obstruction	i at 0.50m BGL.	
Photographs:	Yes	See additional sheets.					
All dimensions Scale 1:		For explanation of abbreviations se	of symbols and ee Key Sheets	Checked by:	Logged by: D. Portsmouth	Contract No. 4251	

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP126 South Tees Development Corporation E:454177.949 N:521411.231 Start Date: 17/04/2020 Method (Equipment):
Machine Excavated (360 Tracked Excavator) 2 of 3



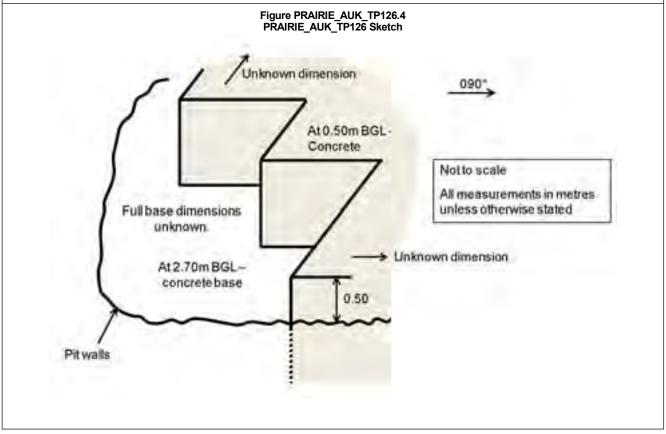


Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01772 735 390 Fax: 01772 735 399



TRIAL PIT RECORD **FINAL** Prairie Site Ground Investigation Works Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP126 South Tees Development Corporation E:454177.949 N:521411.231 Start Date: 17/04/2020 Method (Equipment): Machine Excavated (360 Tracked Excavator) 3 of 3





Status:-

◮	Head Office: Regional Office:	Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL	Tel: 0191 387 4700 Fax: 0191 Tel: 01772 735 300 Fax: 0177
		TRIAL PIT RECORD	
Project:		Prairie Site Ground Investigation Works	

South Tees Development Corporation

Client:

FINAL Exploratory Hole No. Location: PRAIRIE_AUK_TP127 E:454315.017 N:521396.533 Ground Level (m): 8.483 Start Date: 23/04/2020 Method (Equipment):
Machine Excavated (360 Tracked Excavator) 1 of 3

0.11151 50.0 55050			1	CTDATA							
SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description				
0.10 0.20 0.30 0.30 0.60	J1 B2 ES3 PID J4	<0.1ppm		7.58 7.38		(0.40) - 0.40 - (0.50) - 0.90 - 1.10	MADE GROUND (Brown grey sand and gravel. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded and includes slag, concrete, macadam and roadstone. Slag content is 0-25%. Slag is vesicular grey green white). MADE GROUND (Red brown sandy gravel with medium cobble content and fragments of metal. Gravel is fine to coarse subangular and includes slag, red brick and concrete. Cobbles are subangular and include concrete and red brick. Slag content is 0-25%. Slag is				
1.40 1.40 1.60	J5 PID B6	<0.1ppm	<u>‡</u>	6.78		(0.60)	wesicular grey green white). MADE GROUND (Strong grey green concrete or slag). MADE GROUND (Red brown sandy gravel with medium cobble content. Gravel is fine to coarse subangular to subrounded and includes red brick, concrete, slag and sandstone. Cobbles are subangular and include concrete, red brick and sandstone. Slag content is 0-25%. Slag is vesicular grey green white). at c.1.70m BGL concrete. Terminated at 1.70m BGL - due to concrete base.				
PLAN]		INDWATER strike at 1.70m BGL						
G D	Orientation		T ace	2.30							

	3.50		Water strike at 1.70m BGL
	Face A]	
Face	Orientation 310° <u></u> ■	2.30 — Face B	STABILITY Pit sides and base stable throughout excavation.
	Face C	1	

ADD	ITIONAL INFOR	MATION	GENERAL REMARK			
Sketch Diagram:	Sł	etch Taken	(1) Relocated to PRAI	RIE_AUK_IP12/A.		
Photographs:	Yes	See additional sheets.				
All dimensions in metres Scale 1:50 For explanation of abbreviations see			of symbols and ee Key Sheets	Checked by:	Logged by: K. Russell-Clamp	Contract No. 4251

Project:

Client:

Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG
Unit 29 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL
Tel: 01971 387 4700 Fax: 01971 387 4710
Tel: 01972 735 300 Fax: 01772 735 999

TRIAL PIT RECORD **FINAL** Prairie Site Ground Investigation Works Exploratory Hole No. Location: PRAIRIE_AUK_TP127 South Tees Development Corporation E:454315.017 N:521396.533 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 23/04/2020 2 of 3



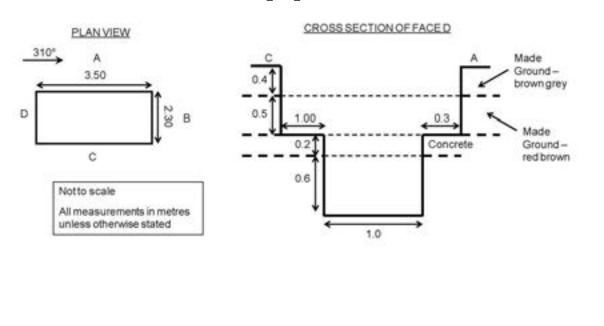


Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01972 735 390 Fax: 01772 735 399

TRIAL PIT RECORD **FINAL** Project: Prairie Site Ground Investigation Works Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP127 South Tees Development Corporation E:454315.017 N:521396.533 Start Date: 23/04/2020 Method (Equipment): Machine Excavated (360 Tracked Excavator) Ground Level (m): 8.483 3 of 3



Figure PRAIRIE_AUK_TP127.4 PRAIRIE_AUK_TP127 Sketch



ALLIED EXPLORATION & GEOTECHNICS LIMITED

Head Office: Regional Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01772 735 300 Fax: 01772 735 999 Status:-TRIAL PIT RECORD **FINAL** Project: Prairie Site Ground Investigation Works Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP127A South Tees Development Corporation E:454312.599 N:521393.254
| Ground Level (m): | Start Date: Method (Equipment):

Method (Equipment): Machine Excavated (360 Tracked Excavator)							Ground Level (m): 8.644	Start Date: 23/04/2020	Sheet:	1 of 3
SAMPLES & TESTS							STRATA	1	'	
Depth	Type No	Test Result	Water	Reduced Legend Depth (Thickness) Description						
				8.24		MADE GROUND (Brown grey sand and gravel. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded and includes slag, concrete, macadam and roadstone. Slag content is 0-25%. Slag is vesicular grey green white). MADE GROUND (Red brown sandy gravel with medium cobble content and fragments of metal. Gravel is fine to coarse subangula and includes red brick, concrete, slag and refractory brick. Slag content is 0-25%. Slag is vesicular grey green white). between c.0.90-3.00m BGL Face D: Strong grey concrete wall/foundation.				anded and ag content is fum cobble rse subangular brick. Slag
2.20 2.50 2.50 2.80 2.80	J1 B2 HSV ES3 PID	70 (34)kPa <0.1ppm		5.64		(Pc)	m yellow brown mottled gre ossible Made Ground).	y sandy CLA`	Y.	
							mplete at 3.00m BGL.			
	PLAN				GROUNDV No groundw	VATER ater inflow observed.				
Orientation Orientation 228° Face C					1.50 —	STABILITY Pit sides an	d base stable throughout exca	avation.		
ADDITIONAL INFORMATION Sketch Diagram: No Sketch Taken			GENERAL (1) Relocate	REMARKS d from PRAIRIE_AUK_TP12	7.					
Photogra	iphs:	Yes		See add						

For explanation of symbols and abbreviations see Key Sheets

Checked by:

Logged by: K. Russell-Clamp

Contract No.

4251

All dimensions in metres Scale 1:50

Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01972 735 390 Fax: 01772 735 399

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP127A South Tees Development Corporation E:454312.599 N:521393.254 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 23/04/2020 Ground Level (m): 8.644 2 of 3





Status:-

3 of 3



Project:

Client:

TRIAL PIT RECORD **FINAL** Prairie Site Ground Investigation Works Exploratory Hole No. Location: PRAIRIE_AUK_TP127A South Tees Development Corporation E:454312.599 N:521393.254 Start Date: 23/04/2020 Ground Level (m): 8.644

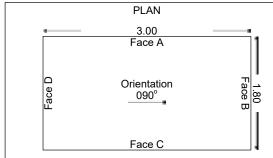


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TRIAL PIT RECORD	Status:-	FINAL	
	1		

Project: F	et: Prairie Site Ground Investigation Works									
Client: South Tees Development	Corpo	ation	Location:	E:454012.262 N:521429.53	PRAIRIE_AUK_TP128					
Method (Equipment): Machine Excavated (360) Track	ked Excavator)		Ground Level (m): 8.117	Start Date: 17/04/2020	Sheet: 1 of 3				
CAMDLES & TESTS	TECTO									

SAMPLES & TES			STRATA						
Depth Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description			
0.50 J1 0.80 B2 0.90 ES3 0.90 PID	0.9ppm		7.12 7.02		0.25	MADE GROUND (Brown sandy gravel with many rootlets. Sand is fine to coarse and includes predominantly ash. Gravel is fine to medium subangular and includes coke, sandstone, concrete and clinker). MADE GROUND (Brown black sandy gravel with occasional pockets/lenses of soft to firm brown clay. Sand is fine to coarse. Gravel is fine to coarse subangular and includes red and yellow brick, coke, ash, clinker and slag. Slag content is 0-25%). at 1.00m BGL pocket of grey fine to coarse angular gravel in west of pit. Gravel is fine to coarse angular and includes mudstone/shale with strong hydrocarbon/creosote odour. MADE GROUND (Firm brown mottled orange clay). between c.1.00-1.10m BGL 100mm diameter cast iron pipe running 90 degrees. Engineer notes pipe probably runs through trenched section of reworked ground. Terminated at 1.10m BGL - due to services.			



GROUNDWATER

Saturated strata (slight inflow) at 1.00m BGL. Engineer notes contaminated water seeping from contaminated mudstone pocket into clay.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION							
Sketch Diagram:	No Sketo	ch Taken					
Photographs:	Yes	See additional sheets.					

GENERAL REMARKS

Checked by: Logged by: D. Portsmouth Contract No. For explanation of symbols and abbreviations see Key Sheets All dimensions in metres 4251 Scale 1:50

Project:

Client:

TRIAL PIT RECORD **FINAL** Exploratory Hole No. Prairie Site Ground Investigation Works Location: PRAIRIE_AUK_TP128 South Tees Development Corporation E:454012.262 N:521429.533 Method (Equipment): Machine Excavated (360 Tracked Excavator) Start Date: 17/04/2020 2 of 3





TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP128 South Tees Development Corporation E:454012.262 N:521429.533 Ground Level (m): 8.117 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 17/04/2020 3 of 3





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Status:-TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP129 South Tees Development Corporation E:453904.211 N:521332.918 | Ground Level (m): | Start Date: Method (Equipment):

Method (Equipment): Machine Excavated (360 Tracked Excavator)							Ground Level	(m): 9.593	Start Date: 17/04/2020	Sheet:	1 of 3
SAMPLES & TESTS							•	STRATA	•		
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)		D	escription		
0.60 0.80 1.40 1.80 2.10 2.10	J1 B2 J3 B4 PID ES4A	<0.1ppm		9.39 9.14 8.59 8.29		MADE GROUND (Brown sandy gravel with many rootlets. Sand is fine to coarse and includes predominantly ash. Gravel is fine to medium subangular and includes coke, sandstone, concrete and clinker). MADE GROUND (Concrete. Engineer notes possible old foundation/footing to the bricks exposed adjacent). MADE GROUND (Grey brown sandy gravel with medium cobble content. Sand is fine to coarse and includes predominantly ash. Gravel is fine to coarse subangular and includes concrete, slag, red brick, ash and clinker. Slag content is 50-75%. Slag is vesicular grey green). Soft to firm and friable brown grey mottled black CLAY. Firm and friable brown very sandy interlaminated SILT and CLAY with silty sand lenses. Complete at 2.30m BGL.					
PLAN 3.50 Face A Orientation 090° Face C			STABILITY	ater inflow ob	throughout exca	avation.					
ADDITIONAL INFORMATION				GENERAL	REMARKS						
Sketch Diagram: No Sketch Taken			- SEIVEIVAE	I CLIVIPALINO							
Photographs: Yes See additional sheets.											

For explanation of symbols and abbreviations see Key Sheets

Checked by:

Logged by: D. Portsmouth

Contract No.

4251

All dimensions in metres

Scale 1:50

Client:

TRIAL PIT RECORD **FINAL** Exploratory Hole No. Prairie Site Ground Investigation Works Location: PRAIRIE_AUK_TP129 South Tees Development Corporation E:453904.211 N:521332.918 | Ground Level (m): 9.593 | S Start Date: 17/04/2020 Method (Equipment): Machine Excavated (360 Tracked Excavator) 2 of 3





Status:-TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP129 South Tees Development Corporation E:453904.211 N:521332.918
| Ground Level (m): 9.593 | S Start Date: 17/04/2020 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Sheet: 3 of 3



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Project:	Prairie Site Ground Inve	Exploratory Hole No.			
Client:	South Tees Development Corporation	Location:	E:453879.368 N:521335.54	19	PRAIRIE_AUK_TP130
Method (Eq	uipment): Machine Excavated (360 Tracked Excavator)		Ground Level (m):	Start Date: 17/04/2020	Sheet:

Machi	ine Excavated (360	Tracked E	excavator)	9.144	17/04/2020	1 of 3			
SAMPLES	& TESTS			STRATA					
Depth Type No	Depth Type Test 5 Reduced Level Legen		Legend	Depth (Thickness) Description					
0.20 J1 0.30 B2 0.80 J3 0.90 B4 1.00 ES4 1.00 J5 1.40 J5 1.80 B6	1.0ppm	8	14	MADE GROUND (Brown sandy gravel with many rootlets. Sand fine to coarse and includes predominantly ash. Gravel is fine to coarse subangular and includes predominantly ash Gravel is fine to coarse and includes predominantly ash Gravel is fine to coarse subangular and includes slag, concrete brick, ash and clinker. Cobbles are angular and include slag. S content is 50-75%. Slag is vesicular grey green). MADE GROUND (Brown black sandy gravel. Sand is fine to coarse subangular and includes predominantly ash. Gravel is fine to coarse subangular and includes predominantly ash. Gravel is fine to coarse subangular and includes predominantly ash. Gravel is fine to coarse subangular and includes predominantly ash. Gravel is fine to coarse subangular and includes predominantly ash. Gravel is fine to coarse subangular and includes predominantly ash. Gravel is fine to coarse subangular and includes predominantly ash. Gravel is fine to coarse subangular and includes predominantly ash. Gravel is fine to coarse subangular and includes predominantly ash. Gravel is fine to coarse subangular and includes predominantly ash. Gravel is fine to coarse subangular and includes predominantly ash. Gravel is fine to coarse subangular and includes predominantly ash. Gravel is fine to coarse subangular and includes predominantly ash. Gravel is fine to coarse subangular and includes predominantly ash. Gravel is fine to coarse and includes slag, content is 50-75%. Slag is vesicular grey green). **Content is 50-75%. Slag is vesicular grey green.** **Content is 50-					
PLAN 3.50 Face A Orientation 090° E Face C ADDITIONAL INFORMATION			STABILITY Pit sides an	ater inflow observed.	avation.				
Sketch Diagram: No Sketch Taken									
Photographs: Yes See additional sheets.									

For explanation of symbols and abbreviations see Key Sheets

Checked by:

Logged by: D. Portsmouth

Contract No. 4251

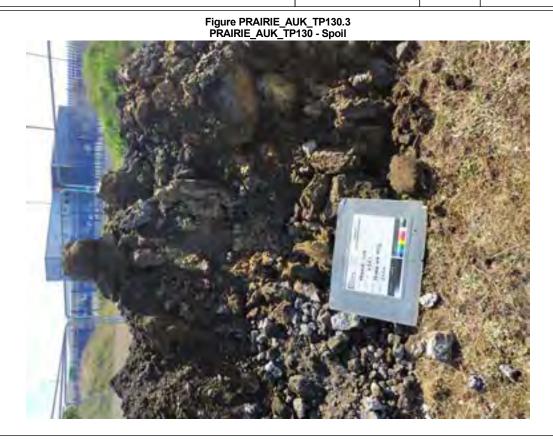
All dimensions in metres Scale 1:50

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP130 South Tees Development Corporation E:453879.368 N:521335.549 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 17/04/2020 2 of 3





TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP130 South Tees Development Corporation E:453879.368 N:521335.549 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 17/04/2020 3 of 3



Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL

Status:-

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TRIAL PIT RECORD **FINAL** Project: Prairie Site Ground Investigation Works Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP131 South Tees Development Corporation E:454999.256 N:521391.908 | Ground Level (m): 8.711 | S Start Date: 02/04/2020 Method (Equipment): Machine Excavated (360 Tracked Excavator) 1 of 3

Machine Excavate	CRCG EXC	avatorj	8.711 02/04/2020 1 of 3							
SAMPLES & TESTS					<u> </u>	STRATA				
Depth Type Test No Resu	Water	Reduced Level	Legend	Depth (Thickness)		De	escription			
0.20 J1 0.40 B2		8.21	ravelly topsoil. Gravel is slag and concrete).							
1.00 J3					MADE GROUND (Black grey sandy gravel with medium of content. Gravel is fine to coarse subangular to subrounder includes slag, red brick and ash. Slag content is 75-100% vesicular grey green white. Cobbles are subangular and if and cemented slag). from c.0.50-1.20m BGL partially cemented slag fill mater.					
1.50 B4				(2.00)			,	9		
1.80 ES5 1.80 PID <0.1pg 2.00 J6	m	6.21		2.50						
2.60 J7 2.80 HSV 45 (20) 2.80 B8	Pa	5.21		(1.00)	clay). (Possibly Na	UND (Firm grey mo tural Ground). GL clay is of hig	-	orown slightly sandy		
3.60 J9 3.80 HSV 3.80 B10 59 (34)	Pa	4.21		(4.00)	CLAY.	ctly laminated grey		ge brown slightly sandy sticity.		
				- - - - - - -	Complete at					
PLA	N				NDWATER undwater inflow	observed.				
# 2.9 ¹ Face			1							
Orientation Fa 1.60 B 1.60 B B				STABILITY Faces A and C unstable from 1.20m BGL.						
Face C					A and C unstab	ile from 1.20m BGL.				
ADDITIONAL INFORMATION Sketch Diagram: No Sketch Taken				GENE	RAL REMARK	72				
Photographs: Yes See additional sheets.										
All dimensions in metres For explanation Scale 1:50 abbreviations				of symbo	ls and heets	Checked by:	Logged k	oy: Contract No.		

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP131 South Tees Development Corporation E:454999.256 N:521391.908
| Ground Level (m): 8.711 | S Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 02/04/2020 2 of 3









Start Date: 02/04/2020

3 of 3

Status:-TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP131 South Tees Development Corporation E:454999.256 N:521391.908
| Ground Level (m): 8.711 | S



Status:-

FINAL

◮	Head Office: Regional Office:	Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL	Tel: 0191 387 4700 Fax: 0191 Tel: 01772 735 300 Fax: 0177
		TRIAL PIT RECORD	
Project:		Prairie Site Ground Investigation Works	

Project:	Project: Prairie Site Ground Investigation Works											
Client:	South Tees Development Corporation Location: E:454904.695 N:521395.723											
Method (Equipme		e Excavated (360) Tracl	ked Exc	avator)			Ground Level (m): 8.713	Start Date: 02/04/2020	Sheet: 1 of 4		
SAMPLES & TESTS								STRATA				
Depth	epth Type Test Reduced Level Legen					Depth (Thickness)		Description				

SA		STRATA					
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
Depth 0.05 0.50 1.00 1.30 1.30 2.00	J1 J2 B3 PID ES4 J5 B6		ıi Water		Legend	Depth (Thickness) 0.05/ 0.15/ (2.15) 2.30	MADE GROUND (Grass over brown sandy topsoil). MADE GROUND (Weak grey concrete). MADE GROUND (Grey sandy gravel with medium cobble content and fragments of wood, metal, plastic and wire. Gravel is fine to coarse subangular to subrounded and includes brick, concrete, slag and ash. Slag content is 50-75%. Slag is vesicular green grey. Cobbles are subangular and include brick and slag). at c.0.90m BGL engineer notes girder on side C. at c.1.80m BGL concrete boulder with rebar, 80mmx80mmx50mm. at c.2.30m BGL concrete channel. Terminated at 2.30m BGL - due to concrete channel.
PLAN 3.90							NDWATER strike at 1.90m BGL.

	PLAN	
•	3.90	
	Face A	1
Face D	Orientation 240° ∎	2.80 —— Face B
	Face C	

Fac	Face C	STABILITY Face A unstable throughout excavation.
ADD	ITIONAL INFORMATION	GENERAL REMARKS
Sketch Diagram:	Sketch Taken	

Sketch Diagram:	SI	xetch Taken			
Photographs:	Yes	See additional sheets.			
			 Charled by:	Loggod by:	Contract No

Contract No. **4251** For explanation of symbols and abbreviations see Key Sheets Logged by: K. Russell-Clamp All dimensions in metres Scale 1:50 Checked by:

Client:

TRIAL PIT RECORD **FINAL** Exploratory Hole No. Prairie Site Ground Investigation Works Location: PRAIRIE_AUK_TP132 South Tees Development Corporation E:454904.695 N:521395.723 Method (Equipment): Machine Excavated (360 Tracked Excavator) Start Date: 02/04/2020 2 of 4





TRIAL PIT RECORD **FINAL** Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP132 South Tees Development Corporation E:454904.695 N:521395.723 Method (Equipment): Machine Excavated (360 Tracked Excavator) Start Date: 02/04/2020 3 of 4

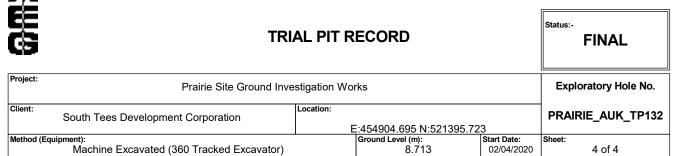


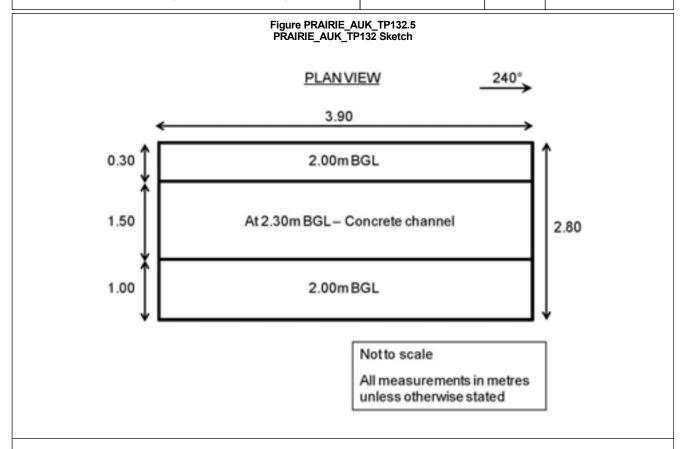


Figure PRAIRIE_AUK_TP132.4 PRAIRIE_AUK_TP132 - Reinstatement



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Ġ				TR	IAL PI	T RECORD	Status:- FINAL
Project:	P	rairie	Site Gr	ound Inv	estigatior/	Works	Exploratory Hole No.
Client: South Te	es Development (Corpo	ration		Location:		PRAIRIE_AUK_TP132
Method (Equipment): Machin	e Excavated (360) Trac	ked Exc	cavator)		E:454897.504 N:521394.100 Ground Level (m):	Sheet: 1 of 4
SAMPLES 8	TESTS					STRATA	
Depth Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	ſ
			7.04 6.94		(1.35) 	MADE GROUND (Grass over brown sat MADE GROUND (Weak grey concrete) MADE GROUND (Grey sandy gravel wi and fragments of metal and wire. Grave to subrounded and includes brick, concreontent is 50-75%. Slag is vesicular gresubangular and include red brick, concret c.0.50m BGL corroded metal cable at c.0.90m BGL corroded metal cable MADE GROUND (Firm brown mottled by Gravelly clay. Gravel is fine to coarse sufferminated at 1.60m BGL - due to concretables.	h medium cobble content is fine to coarse subangular ete, slag and ash. Slag en grey. Cobbles are ete and slag). ack slightly sandy slightly pangular and includes coal).

	PLAN	
	4.80	
	Face A	- 1
Face D	Orientation	Face B
	Face C	

GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides stable throughout excavation.

ADD	ITIONAL INFOR	MATION	GENERAL REMARKS					
Sketch Diagram:	ch Diagram: Sketch Taken		(1) No samples taken (2) Concrete structure		ch/photos for further	information		
Photographs:	Yes	See additional sheets.						
All dimensions in metres Scale 1:50 For explanation of abbreviations see			Checked by:	Logged by: K. Russell-Clamp	Contract No. 4251			

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TRIAL PIT RECORD **FINAL** Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP132A South Tees Development Corporation E:454897.504 N:521394.100 Start Date: 02/04/2020 Method (Equipment):
Machine Excavated (360 Tracked Excavator) 2 of 4





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TRIAL PIT RECORD **FINAL** Prairie Site Ground Investigation Works Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP132A South Tees Development Corporation E:454897.504 N:521394.100 Start Date: 02/04/2020 Method (Equipment):
Machine Excavated (360 Tracked Excavator) 3 of 4



Figure PRAIRIE_AUK_TP132A.4 PRAIRIE_AUK_TP132A - Spoil

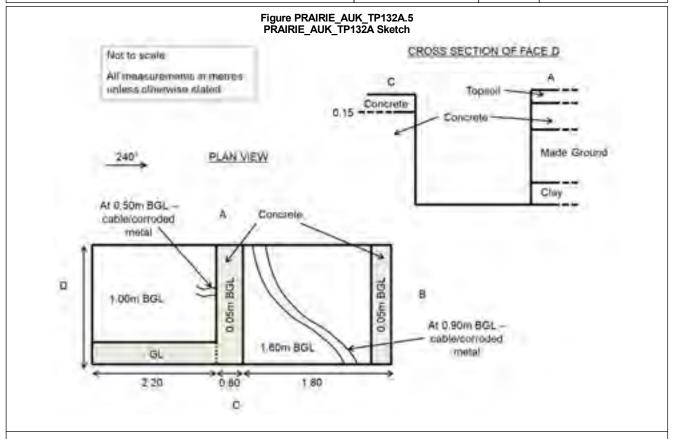


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Status:-



TRIAL PIT RECORD **FINAL** Project: Prairie Site Ground Investigation Works Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP132A South Tees Development Corporation E:454897.504 N:521394.100 Start Date: 02/04/2020 Method (Equipment): Machine Excavated (360 Tracked Excavator) Ground Level (m): 8.542 4 of 4



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		Т	TRIAL PIT I	RECORD		Status:- FINAL
Project:		Prairie Site Ground	Investigation W	orks		Exploratory Hole No.
Client: Sol	uth Tees Developme	nt Corporation	Location:	E:454796.469 N:5	21395.958	PRAIRIE_AUK_TP133
Method (Equipmen		360 Tracked Excavato	or)	Ground Level (m): 8.893	Start Date: 22/04/2020	Sheet: 1 of 3

Method (Equipn		e Excavated (360) Trac	ked Exc	cavator)			Ground Level (8	(m): 3.893	Start Date: 22/04/2020	Sheet:	1 of 3
SAM	//PLES &	TESTS						STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)			С	Description		
0.20 0.20 0.50 0.50 0.70 0.90 0.90 1.00 1.50 1.50 2.00	J1 PID ES2 PID B3 J4 PID B5 HSV PID B7	<0.1ppm <0.1ppm <0.1ppm 41 (22)kPa 71 (18)kPa <0.1ppm		8.79 8.09 7.69 6.89		(0.70) (0.70) (0.40) 1.20 (0.80)	MAI meta inclu brick at c. Soft CLA Sligh	DE GROUN al. Sand is f ides red bri- c. Slag cont 0.10m BGL to firm dark Y. Gravel is nt organic o	ine to coarse. (ck, concrete, a ent is 0-25%. S 4 No. subar k brown mottled gradum mottled	clayey grave Gravel is fine sh, slag, mad Slag is vesicu ngular concre d grey slightly subangular	to coarse cadam an ilar grey g ete boulde sandy sl and includ	reen white). ers. ightly gravelly des mudstone.
Face D		PLAN 2.40 Face A Orientation 002° Face C		T dCC	1.70 ————————————————————————————————————	STABI	undwa	ter inflow ob	served.	avation.		
	ADDIT	TIONAL INFORM	IATIO	N		GENE	RAL F	REMARKS				
Sketch Dia	gram:	No Sk	cetch Ta	aken								
Photogra	ohs:	Yes		See add								

For explanation of symbols and abbreviations see Key Sheets

Checked by:

Logged by: K. Russell-Clamp

Contract No. **4251**

Print Date and Time: 06/11/2020 14:29:29

All dimensions in metres Scale 1:50

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TRIAL PIT RECORD **FINAL** Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP133 South Tees Development Corporation E:454796.469 N:521395.958 Method (Equipment): Machine Excavated (360 Tracked Excavator) Start Date: 22/04/2020 Ground Level (m): 8.893 2 of 3





ALLIED EXPLORATION & GEOTECHNICS LIMITED Head Office: Regional Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01772 735 300 Fax: 01772 735 999

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP133 South Tees Development Corporation E:454796.469 N:521395.958 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 22/04/2020 Ground Level (m): 8.893 3 of 3





Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL

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Status:-TRIAL PIT RECORD **FINAL** Project: Prairie Site Ground Investigation Works Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP134 South Tees Development Corporation E:454702.950 N:521396.264 Start Date: 20/04/2020 Method (Equipment): Machine Excavated (360 Tracked Excavator) Ground Level (m): 8.709 1 of 3

Maorii	ne Excavated (30	U IIac	Keu Lac	avaloi		0.709 20/04/2020 1 01 3		
SAMPLES	SAMPLES & TESTS					STRATA		
Depth Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description		
0.50 J1 0.50 PID 0.80 B2 1.00 ES3 1.00 PID 1.50 J4 1.50 PID 1.50 PID 1.80 B5 2.00 ES6 2.00 PID 2.50 J9 2.50 J9 2.50 PID	<0.1ppm		6.11	× × × × × × × × × × × × × × × × × × ×	(1.30)	MADE GROUND (Black brown clayey very sandy gravel with medium cobble and boulder content and fragments of wood and metal. Gravel is fine to coarse subangular to subrounded and includes red brick, concrete, ash and refractory bricks. Cobbles and boulders are subangular and include concrete and red and yellow brick). between 0.70-1.30m BGL concrete slab in west of pit. possibly an old floor. Firm to stiff thinly laminated orange brown mottled grey slightly sandy CLAY/SILT with fine yellow brown sand dusting on the laminae. at c.1.50m BGL clay/silt is of intermediate plasticity. Complete at 2.60m BGL.		
*	PLAN 3.00 Face A			1		INDWATER undwater inflow observed.		
Orientation Orientation Orientation Orientation Face C				1.30	STABILITY Pit sides and base stable throughout excavation.			
ADDITIONAL INFORMATION Sketch Diagram: No Sketch Taken					GENE	RAL REMARKS		
Photographs:	Yes		See add shee					
All dimensions in metres Scale 1:50 For explanation abbreviations				lanation iations s	of symbo	ols and Checked by: Logged by: Contract No. K. Russell-Clamp 4251		

ALLIED EXPLORATION & GEOTECHNICS LIMITED Head Office: Regional Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01772 735 300 Fax: 01772 735 999

Status:-

Ġ	TRI	FINAL			
Project:	Prairie Site Ground Inve	estigation Wo	rks		Exploratory Hole No.
Client:	South Tees Development Corporation	Location:	E:454702.950 N:521396.26	i4	PRAIRIE_AUK_TP134
Method (Equipment): Machine Excavated (360 Tracked Excavator)		Ground Level (m): 8.709	Start Date: 20/04/2020	Sheet: 2 of 3





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TRIAL PIT RECORD **FINAL** Prairie Site Ground Investigation Works Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP134 South Tees Development Corporation E:454702.950 N:521396.264 Start Date: 20/04/2020 Method (Equipment): Machine Excavated (360 Tracked Excavator) Ground Level (m): 8.709 3 of 3



Figure PRAIRIE_AUK_TP134.4 PRAIRIE_AUK_TP134 Sketch **PLANVIEW** 3.00 Between 0.70-1.30m BGL B Concrete 1.20 C Notto scale All measurements in metres unless otherwise stated

Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL

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Status:-TRIAL PIT RECORD **FINAL** Project: Prairie Site Ground Investigation Works Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP135 South Tees Development Corporation E:454599.377 N:521402.034 Method (Equipment) Ground Level (m): 8 257 Start Date: Machine Excavated (360 Tracked Excavator) 15/04/2020 1 of 3 **SAMPLES & TESTS STRATA** Water Reduced Depth Depth Legend Description MADE GROUND (Brown sandy topsoil). 0.05 J1 MADE GROUND (Black brown slightly clayey very sandy gravel with medium cobble content and fragments of wood and metal. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded and 0.50 .12 (1.00) includes red brick, concrete and slag. Cobbles are subangular and include red brick and concrete. Slag content is 0-25%. Slag is \blacksquare vesicular grey green white). 1.00 B3 MADE GROUND (Black sandy gravel with high cobble content and fragments of wood, paper, tile, glass and metal. Gravel is fine to coarse subangular to subrounded and includes brick, concrete, slag 1.20 1.30 J4 ES5 (0.50) 1.30 1.50 PID B6 <0.1ppm 6.66 and ash. Cobbles are subangular and include coal and slag. Slag content is 0-25%. Slag is vesicular grey green white). 1.80 HSV 70 (22)kPa Firm light orange brown sandy CLAY. (0.90)2.00 J7 at c.2.00m BGL clay is of intermediate plasticity. 2.30 B8 Firm to stiff grey brown slightly sandy CLAY. (0.50) 2.70 2.80 2.90 J9 HSV at c.2.70m BGL ... clay is of high plasticity. 70 (20)kPa 5.26 Complete at 3.00m BGL. **PLAN GROUNDWATER** Water strike at 1.10m BGL 2.70 Face A Face Face D Orientation 332° .80 **STABILITY** σ Pit sides and base stable throughout excavation. Face C

[ADD	ITIONAL INFOR	MATION	GENERAL REMARK	KS		
	Sketch Diagram: No Sketch Taken						
	Photographs: Yes See additional sheets.						
	All dimensions in metres Scale 1:50 For explanation of abbreviations see		of symbols and see Key Sheets	Checked by:	Logged by: K. Russell-Clamp	Contract No. 4251	

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TRIAL PIT RECORD **FINAL** Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP135 South Tees Development Corporation E:454599.377 N:521402.034 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 15/04/2020 2 of 3





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Status:-

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP135 South Tees Development Corporation E:454599.377 N:521402.034 Ground Level (m): 8.257 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 15/04/2020 Sheet: 3 of 3



Status:-

♣	Head Office: Regional Office:	Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL	Tel: 0191 387 4700 Fax: 01 Tel: 01772 735 300 Fax: 01
Ğ		TRIAL PIT RECORD	
Project:		Prairie Site Ground Investigation Works	

South Tees Development Corporation

Client:

FINAL Exploratory Hole No. Location: PRAIRIE_AUK_TP136 E:454510.702 N:521391.846
| Ground Level (m): | Start Date:

							E:454510.702 N:521391.8		
Method (Equipment): Machine Excavated (360 Tracked Excavator)							Ground Level (m): 7.689	Start Date: 15/04/2020	Sheet: 1 of 3
SAN	MPLES &	TESTS					STRATA	<u>'</u>	-
Depth Type Test No Result			Water	Reduced Level					
			1	7.64 7.44		0.05	MADE GROUND (Grass over		
0.40	J1		<u> </u>				MADE GROUND (Strong fine diameter)).	grey reinforc	ed concrete (10mm
0.60	B2					(0.60)	MADE GROUND (Grey grave	el. Gravel is fir	ne to coarse subangular t
0.80	ES3	40.4		6.84		- 0.85	subrounded and includes slag vesicular grey white. Sulphuro	g. Siag conter ous odour not	ed).
0.80 1.00	PID J4	<0.1ppm			\bowtie	<u> </u>	MADE GROUND (Soft to firm	friable and d	essicated burnt orange
1.00	ES5				\bowtie	- (1.25)	sandy clay/silt). from c.0.85m BGL brick str	ucture (depth	not confirmed due to
1.50 1.50	B6 HSV	40 (18)kPa				£,	water ingress). at c.1.00m BGL silt is of int	ermediate nla	sticity
1.00	1104	40 (10)KI a				-	at 6. 1.00m BGE siit is of int	omicalate pla	otiony.
2.00	J7			5.59		2.10	Firm to stiff grey brown slightl	v sandv CLAY	,
0.40	10					‡	· · · · · · · · · · · · · · · · · · ·	, cana, c_, .	
2.40 2.50	J8 B9	07 (40) D				(1.00)			
2.50	HSV	67 (16)kPa				‡			
2.90 2.90	ES10 PID	<0.1ppm		4.59		3.10	Complete at 3.10m BGL.		
						-	Complete at 6. Tom BGE.		
						- -			
						-			
						-			
						[
						- -			
						-			
						- -			
						-			
						-			
		PLAN			l	GROL	INDWATER		
		2.30					strike at 0.30m BGL.		
_		Face A			1				
Orientation									
16	254°					1			

PLAN		GROUNDWATER Water strike at 0.30m BGL.
2.30		Water Strike at 0.30111 bgL.
Face A Orientation	1.00 Face	
254° #	00 ———	STABILITY Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION GENERAL REMARKS No Sketch Taken Sketch Diagram: See additional sheets. Photographs: Contract No.

Checked by: Logged by: K. Russell-Clamp All dimensions in metres Scale 1:50 For explanation of symbols and abbreviations see Key Sheets 4251

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TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP136 South Tees Development Corporation E:454510.702 N:521391.846 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 15/04/2020 2 of 3





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TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP136 South Tees Development Corporation E:454510.702 N:521391.846 Method (Equipment): Machine Excavated (360 Tracked Excavator) Start Date: 15/04/2020 Sheet: 3 of 3



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Status:-TRIAL PIT RECORD **FINAL** Project: Prairie Site Ground Investigation Works Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP137 South Tees Development Corporation E:454392.936 N:521389.947 | Ground Level (m): | \$ Start Date: Method (Equipment): Sheet:

Method (Equip		e Excavated (36	0 Trac	ked Ex	cavator)		Ground Level (m): 7.844	Start Date: 15/04/2020	Sheet:	1 of 6			
SA	MPLES &	TESTS				STRATA							
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)		Ε	escription				
0.10 0.20 0.60 1.00 1.30 1.30 1.60 2.00 2.60	J1 B2 J3 B4 ES5 PID J6 B7 HSV	<0.1ppm 48 (18)kPa	<u>‡</u>	7.34 6.39		MADE GROUND (Grass over black sandy slightly gravelly topsoil with fragments of metal, metal pipes and plastic pipe. Gravel is fine to coarse subangular and includes concrete and brick). at c.0.10m BGL base of concrete drainage channel. MADE GROUND (Black brown clayey sandy gravel with high cobble and boulder content and fragments of metal, metal pipe and plastic pipe. Gravel is fine to coarse subangular to subrounded and include red brick, concrete and slag. Cobbles are subangular and includes brick and concrete. Slag content is 0-25%. Slag is vesicular grey green white). at c.0.50m BGL top of covered drainage channel. at c.0.80m BGL 250mm diameter clay pipe running 315 degrees. Firm thinly laminated grey brown sandy CLAY with fine yellow sand dusting on the laminae. at c.1.80m BGL 150mm diameter clay pipe running 315 degrees. at c.2.00m BGL clay is of intermediate plasticity. Complete at 2.90m BGL Complete at 2.90m BGL							
-		PLAN 8.80 Face A			1	GROUN Water st		ATER at 0.50m BGL					
Orientation 7				2.00									
e one internation and No. 2000 € 60					STABILITY Pit sides and base stable throughout excavation.								
	ADDIT	ΓΙΟΝΑL INFORI	MATIO	N				REMARKS ollowing sketch for further de	etails				
Sketch Dia	agram:	Sk	etch Tal	ken		(1)110101		sg skotom for futuror de					

ADD	ITIONAL INFOR	MATION	GENERAL REMARKS						
Sketch Diagram:	Sk	etch Taken	(1) Refer to following	sketch for further deta	ails.				
Photographs:	Yes	See additional sheets.							
All dimensions Scale 1:		For explanation of abbreviations se		Checked by:	Logged by: K. Russell-Clamp	Contract No. 4251			

Print Date and Time: 06/11/2020 14:29:54

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TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP137 South Tees Development Corporation E:454392.936 N:521389.947 Method (Equipment): Machine Excavated (360 Tracked Excavator) Start Date: 15/04/2020 2 of 6





Figure PRAIRIE_AUK_TP137.2 PRAIRIE_AUK_TP137



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Status:-

G	IRIA		FINAL		
Proj	ect: Prairie Site Ground Invest		Exploratory Hole No.		
Clie	nt: South Tees Development Corporation	ocation:	:454392.936 N:521389.94	7	PRAIRIE_AUK_TP137
Meth	hod (Equipment): Machine Excavated (360 Tracked Excavator)		Ground Level (m): 7.844	Sheet: 3 of 6	





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Status:-

Ġ	TRI	AL PIT R	ECORD	FINAL	
Project:	Prairie Site Ground Inve	estigation Wo	rks	Exploratory Hole No.	
Client:	South Tees Development Corporation	Location:	E:454392.936 N:521389.94	.7	PRAIRIE_AUK_TP137
Method (Equi	ipment): Machine Excavated (360 Tracked Excavator)	•	Ground Level (m): 7.844	Sheet: 4 of 6	

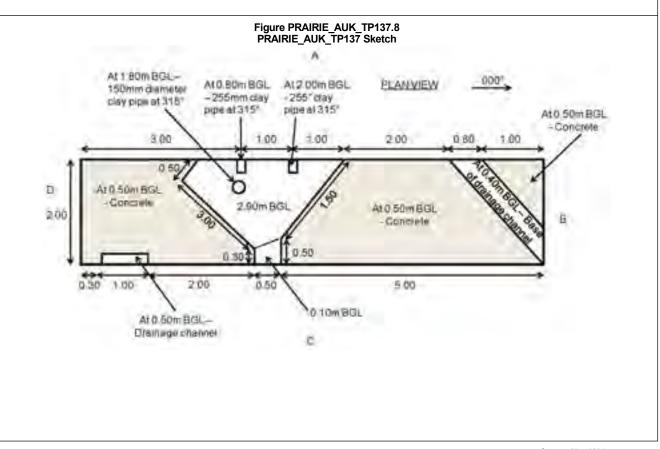




Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01772 735 390 Fax: 01772 735 399

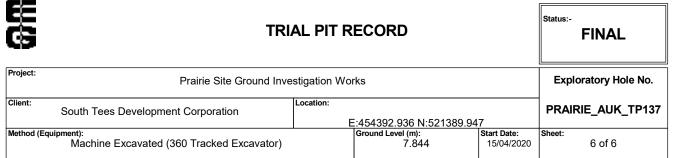
TRIAL PIT RECORD **FINAL** Project: Prairie Site Ground Investigation Works Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP137 South Tees Development Corporation E:454392.936 N:521389.947 Start Date: 15/04/2020 Method (Equipment): Machine Excavated (360 Tracked Excavator) Ground Level (m): 7.844 Sheet: 5 of 6

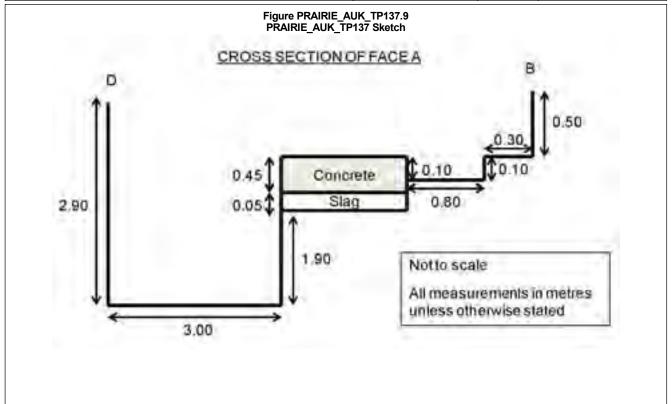




Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG
Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL

Tel: 0191 387 4700 Fax: 0191 387 4710
Tel: 01772 735 300 Fax: 01772 735 999





Location:

Status:-

FINAL

Exploratory Hole No.

PRAIRIE_AUK_TP138

Δ	Head Office: Regional Office:	Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-te-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL	Tel: 0191 387 4700 Fax: 0191 387 Tel: 01772 735 300 Fax: 01772 73
		TRIAL PIT RECORD	
Project:		Prairie Site Ground Investigation Works	

Client:

South Tees Development Corporation

South Tees Development Corporation						PRAIRIE_AUK_TP138						
Method (Equipment):						E:454298.480 N:521339.714 Ground Level (m): Start Date: Sheet:						
Machine Excavated (360 Tracked Excavator)									7.958	09/04/2020		1 of 3
SAMF	PLES &	TESTS						1	STRATA	<u>'</u>	-	
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Depth Department					
0.50 1.00 1.20 1.20 1.50 2.00	J1 B2 ES3 PID J4 B5	Result	M .	5.36		MADE GROUND (Brown clayey very sandy gravel with high cobble content and fragments of metal and plastic. Sand is fine to coarse. Gravel is fine to coarse subangular and includes red brick and concrete. Cobbles are subangular and include red brick and concrete). at c.0.50m BGL slab of concrete, possible old floor. at c.2.00m BGL slab of red bricks. at c.2.20m BGL slab of red bricks. at c.2.20m BGL slab of red bricks. at c.2.60m BGL slab of red bricks. Terminated at 2.60m BGL - due to instability.					fine to coarse. d brick and brick and	
		PLAN		•	•			/ATER ater inflow o	hserved			
		4.50 Face A			1	gio						
Orientation Orientation 170° B Orientation Geometric B Factor 170° B Orientation Factor 170° B Orientation				STABI Pit side	ILITY es and	l base unsta	able throughout e	excavation.				
Face C												
ADDITIONAL INFORMATION						GENE	RAL	REMARKS				
Sketch Diagram: No Sketch Taken												
Photographs: Yes See additional sheets.												

For explanation of symbols and abbreviations see Key Sheets

Checked by:

Logged by: K. Russell-Clamp

Contract No. **4251**

All dimensions in metres Scale 1:50

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TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP138 South Tees Development Corporation E:454298.480 N:521339.714 Start Date: 09/04/2020 Method (Equipment):

Machine Excavated (360 Tracked Excavator) 2 of 3









ALLIED EXPLORATION & GEOTECHNICS LIMITED Head Office: Regional Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01772 735 300 Fax: 01772 735 999

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP138 South Tees Development Corporation E:454298.480 N:521339.714 Method (Equipment): Machine Excavated (360 Tracked Excavator) Start Date: 09/04/2020 Ground Level (m): 7.958 Sheet: 3 of 3



ALLIED EXPLORATION & GEOTECHNICS LIMITED Head Office: Regional Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01772 735 300 Fax: 01772 735 999

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G	TRIA		FINAL		
Project:	Prairie Site Ground Inves		Exploratory Hole No.		
Client:	South Tees Development Corporation	22	PRAIRIE_AUK_TP139		
Method (E	quipment): Machine Excavated (360 Tracked Excavator)		Ground Level (m): 8.365	Start Date: 16/04/2020	Sheet: 1 of 3

IV.	viacnine	e Excavated (36)	U Irac	kea Exc	cavator)		8.305 16/04/2020 1 01 3						
SAMPLES & TESTS							STRATA						
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description						
0.50 0.80 1.10 1.10 1.10 1.10	J1 B2 J3 ES4 B5 PID	<0.1ppm		7.37		1.00	MOIN C.U.40III BGL Face A. Concrete.						
		PLAN			_		INDWATER undwater inflow observed.						
		3.00 Face A			1								
O Orientation 266°				- 2.40 Face B			STABILITY Pit sides and base stable throughout excavation.						
		Face C][
	ADDITIONAL INFORMATION						GENERAL REMARKS (1) Relocated to PRAIRIE_AUK_TP139A.						
Sketch Diagra	Sketch Diagram: Sketch Taken												

Checked by:

Logged by: K. Russell-Clamp

Contract No.

4251

Yes

Photographs:

All dimensions in metres Scale 1:50

See additional sheets.

For explanation of symbols and abbreviations see Key Sheets

Project:

Client:

Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01772 735 390 Fax: 01772 735 399

TRIAL PIT RECORD **FINAL** Exploratory Hole No. Prairie Site Ground Investigation Works Location: PRAIRIE_AUK_TP139 South Tees Development Corporation E:454375.942 N:521348.422 Start Date: 16/04/2020 Method (Equipment): Machine Excavated (360 Tracked Excavator) 2 of 3



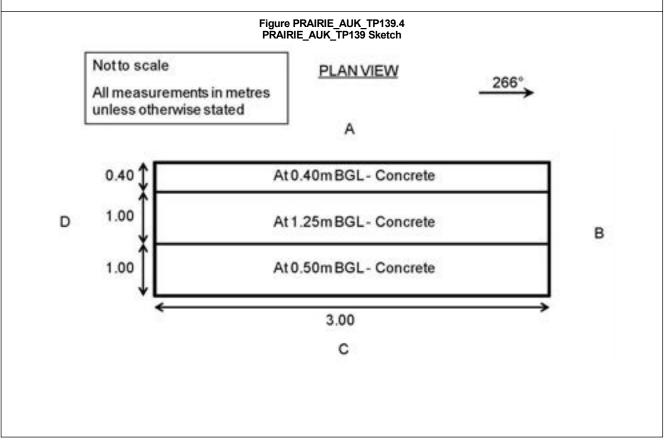


Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01772 735 390 Fax: 01772 735 399



TRIAL PIT RECORD **FINAL** Prairie Site Ground Investigation Works Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP139 South Tees Development Corporation E:454375.942 N:521348.422 Start Date: 16/04/2020 Method (Equipment): Machine Excavated (360 Tracked Excavator) Ground Level (m): 8.365 3 of 3





Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG

Tel: 0191 387 4700 Fax: 0191 387 4710

<u> </u>		Regional Office:	Unit 20 Busi	iness Develo	opment Centre	e, Eanam Whai	f, Blackburn, BB1 5BL	Tel: 0	11772 735 300 Fax: 01772 73	35 999		
			Status:- FINAL									
Project:	Project: Prairie Site Ground Investigation Works											
Client:						Location				Exploratory Hole No.		
		s Development	Corpo	ration				6.105 N:52134		PRAIRIE_AUK_TP139A		
Method (Equipm	nent): Machine	Excavated (36	0 Tracl	ked Exc	cavator)		Ground L	evel (m): 8.406	Start Date: 16/04/2020	Sheet: 1 of 3		
SAMPLES & TESTS								STRATA	4			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description					
				8.11		- 0.30	of metal and subangular content is 0 at c.0.30m E	DUND (Brown slightly clayey gravelly sand with fragment glass. Sand is fine to coarse. Gravel is fine to coarse to subrounded and includes concrete and slag. Slag .25%. Slag is vesicular grey green white). 3GL concrete, possibly an old floor. at 0.30m BGL - due to concrete obstruction.		Gravel is fine to coarse ncrete and slag. Slag en white).		
Sketch Diag	gram:	PLAN 2.50 Face A Orientation 269° Face C IONAL INFORM No Si	ketch Ta	N	litional	STAB Pit side	RAL REMAR	able throughout KS RAIRIE_AUK_TP1 IRIE_AUK_TP1				
	nsions in Scale 1:50		F	or exp	lanation iations s	of symbo	ols and Sheets	Checked I	by: Logged K. Russell	l by: Contract No. -Clamp 4251		

For explanation of symbols and abbreviations see Key Sheets

All dimensions in metres Scale 1:50

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TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP139A South Tees Development Corporation E:454376.105 N:521344.320 Start Date: 16/04/2020 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Ground Level (m): 8.406 2 of 3





ALLIED EXPLORATION & GEOTECHNICS LIMITED Head Office: Regional Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Tel: 0191 387 4700 Fax: 0191 387 4710 Tel: 01772 735 300 Fax: 01772 735 999

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP139A South Tees Development Corporation E:454376.105 N:521344.320 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 16/04/2020 Ground Level (m): 8.406 3 of 3





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Status:-TRIAL PIT RECORD **FINAL** Project: Prairie Site Ground Investigation Works Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP139B South Tees Development Corporation Method (Equipment): Machine Excavated (360 Tracked Excavator) Start Date:

metrioa (Equipi		e Excavated (36	0 Trac	ked Exc	cavator)			8.371		16/04/2020	Sileet.	1 of 3
SAI	MPLES &	TESTS			STRATA							
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)			D	escription		
0.10 0.20 0.30 0.30	J1 B2 ES3 PID	<0.1ppm	<u>‡</u>	7.87		(0.50) 0.50 (0.40) 0.90 - (0.80)	coblis fir and boulcond MAI MAI fine Cob	DE GROUND (Brown ble and boulder content to coarse. Grave includes concrete, ders are subangularete). DE GROUND (Strom DE GROUND (Greyn to coarse subangularete) are subangularete suba	ntent and el is fine , refracto ar and ir ong grey y brown ular and in	d fragments to coarse su ry brick and nclude red ar concrete). sandy grave includes red clude red bri	of wood a bangular red brick. Individual yellow I and cobbrick and ck and re	and metal. Sand to subrounded Cobbles and brick and bles. Gravel is refractory brick.
2.50	HSV	47 (16)kPa		6.67		1.70	Soft	veen c.1.20-2.20m to firm thinly lamin vn sand on the lam n c.2.00m BGL F	nated gre ninae.	y brown san	dy CLAY	-
3.00 3.10 3.30 3.30 3.50	J4 B5 ES6 PID HSV	<0.1ppm 77 (22)kPa				- J(2.30) - - - - - - - - - -		3.00m BGL clay		•	lasticity.	
				4.37		4.00	Con	nplete at 4.00m BGI	EL.			
						-						
-		PLAN 5.20 Face A			<u>.</u>	GROU Water s		ATER at 0.90m BGL.				
Face D		Orientation 268°		n C C C		STABII Pit side		base stable through	nout exca	vation.		
		Face C										
	ADDI	TIONAL INFORM	MATIO	N				REMARKS ons represent Face E	R Refert	to following ek	etches for	r further details
Sketch Dia	gram:	Ske	etch Tal	ken		(1) Des	onput	лю тергеоені Рас е І	D. 116161	o lollowing Sk	.CIG165 101	i iui ii ici uctalis.

Checked by:

Logged by: K. Russell-Clamp

Contract No.

4251

Print Date and Time: 06/11/2020 14:30:29

All dimensions in metres

Scale 1:50

Photographs:

See additional sheets.

For explanation of symbols and abbreviations see Key Sheets

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TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP139B South Tees Development Corporation E:454375.664 N:521349.513 Start Date: 16/04/2020 Method (Equipment): Machine Excavated (360 Tracked Excavator) 2 of 3

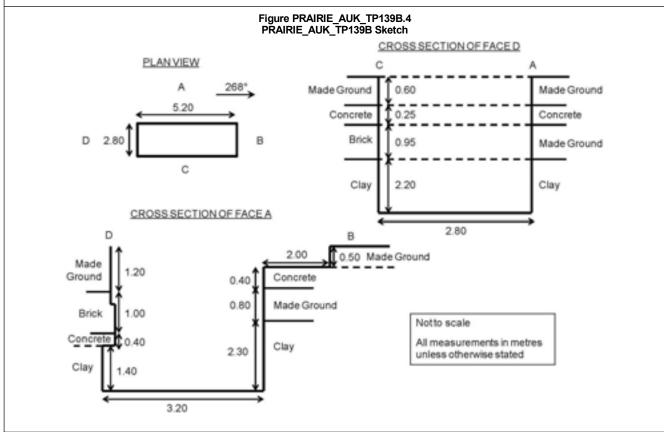




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Regional Office: Unit 25 Unit 25 Stella Gill State, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG
Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL
Tel: 01772 735 300 Fax: 01772 735 999

TRIAL PIT RECORD **FINAL** Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP139B South Tees Development Corporation E:454375.664 N:521349.513 Start Date: 16/04/2020 Method (Equipment): Machine Excavated (360 Tracked Excavator) Ground Level (m): 8.371 3 of 3





Head Office: Regional Office Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RI

Tel: 0191 387 4700 Fax: 0191 387 4710

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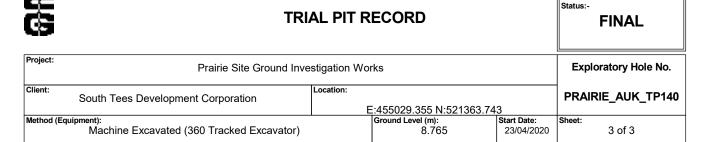
G	TRI		FINAL		
Project:	Prairie Site Ground Inve		Exploratory Hole No.		
Client:	South Tees Development Corporation	Location:	E:455029.355 N:521363.74	3	PRAIRIE_AUK_TP140
Method (Eq	quipment): Machine Excavated (360 Tracked Excavator)	•	Ground Level (m): 8.765	Start Date: 23/04/2020	Sheet: 1 of 3

Macn	ine Excavated (3	bu irac	кеа Ехс	avator)		8.765 23/04/2020 1 of 3					
SAMPLES	SAMPLES & TESTS					STRATA					
Depth Type No	e Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description					
0.50 J1 0.50 PID 0.80 B2 1.00 ES3 1.00 PID 1.40 J4 1.50 PID 1.60 B5	<0.1ppm		8.67 8.47 8.37 7.57		(1.40) 	MADE GROUND (Grey sandy gravel. Sand is fine to coarse. Gra is fine to coarse subangular and includes sandstone, concrete at red brick). MADE GROUND (Grey sandy gravel with medium cobble conter Sand is fine to coarse. Gravel is fine to coarse subangular and includes weak (lean) mix concrete and fused grey ash). MADE GROUND (Compacted grey blue ash. Recovered as sand gravel. Sand is fine to coarse and includes predominantly ash. Gravel is fine to coarse subangular and includes ash, weak concand possible fused ash). MADE GROUND (Grey brown black red clayey sandy gravel with high cobble content and fragments of metal. Sand is fine to coarse and includes predominantly ash. Gravel is fine to coarse subang and includes ash, clinker, coke, weak concrete and red and yellobrick. Cobbles are angular and include brick, concrete and vesic grey slag. Slag content is 25-50%). Firm (friable) brown silty CLAY with yellow silty fine to medium salenses. Engineer notes becoming interlaminated silt and clay with depth. Complete at 2.60m BGL.	nt. crete n se ular ww ular				
PLAN 3.50 Face A Orientation 090° Face C ADDITIONAL INFORMATION Sketch Diagram: No Sketch Taken Photographs: Yes See additional sheets.				itional	STABI Pit side	INDWATER undwater inflow observed. LITY es and base stable throughout excavation. RAL REMARKS					
All dimensions in metres Scale 1:50 For explanation of abbreviations see					of symbo ee Key S	ols and Checked by: Logged by: Contract Notets N.W D. Portsmouth 4251	No.				

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP140 South Tees Development Corporation E:455029.355 N:521363.743
| Ground Level (m): 8.765 | S Start Date: 23/04/2020 Method (Equipment):
Machine Excavated (360 Tracked Excavator) 2 of 3







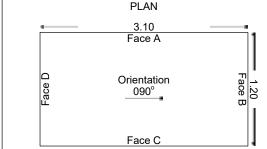


Status:-

♠	Head Office: Regional Office:	Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL	Tel: 0191 387 4700 Fax: 019 Tel: 01772 735 300 Fax: 017
		TRIAL PIT RECORD	
Project:		Prairie Site Ground Investigation Works	

G	TRI		FINAL		
Project:	Prairie Site Ground Inve	Exploratory Hole No.			
Client:	South Tees Development Corporation	Location:	E:454997.498 N:521308.6	10	PRAIRIE_AUK_TP141
Method (E	Equipment): Machine Excavated (360 Tracked Excavator)		Ground Level (m): 8.907	Start Date: 23/04/2020	Sheet: 1 of 3

SAMPLES & TESTS					7
					STRATA
Depth Type Test No Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.50 J1 0.8ppm 0.80 B2 1.00 PID 0.6ppm 1.50 J3 2.00 ES4 PID 1.6ppm		8.71 8.01 6.91		(1.10)	MADE GROUND (Grey sandy gravel. Sand is fine to coarse. Gravel is fine to coarse subangular and includes sandstone, concrete and red brick). MADE GROUND (Grey brown black red clayey sandy gravel with high cobble content and fragments on metal. Sand is fine to coarse and includes predominantly ash. Gravel is fine to coarse subangular and includes ash, clinker, coke, weak concrete and red and yellow brick. Cobbles are angular and include brick and concrete). MADE GROUND (Grey brown black red sandy gravel with high cobble content and fragments of metal. Sand is fine to coarse and includes predominantly ash. Gravel is fine to coarse subangular and includes ash, clinker, coke, weak concrete and red and yellow brick. Cobbles are angular and include brick and concrete). at c.0.90m BGL solid brick wall section. Pit extended west to avoid. MADE GROUND (Soft/loose black clayey silt with hydrocarbon/creosote/ammonia odour). (Engineer notes material is probably soot/chimney particles). at c.3.00m BGL concrete base. Terminated at 3.00m BGL - due to concrete base.
PLAN 				11	NDWATER undwater inflow observed.



STABILITY
Pit sides and base stable throughout excavation. NERAL REMARKS

ADDITIONAL INFORMATION						
Sketch Diagram:	No Sketo	ch Taken				
Photographs:	Yes	See additional sheets.				

Checked by: Logged by: D. Portsmouth Contract No. For explanation of symbols and abbreviations see Key Sheets All dimensions in metres 4251 Scale 1:50

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP141 South Tees Development Corporation E:454997.498 N:521308.610 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 23/04/2020 Ground Level (m): 8.907 2 of 3



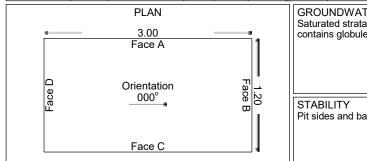


Status:-TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP141 South Tees Development Corporation E:454997.498 N:521308.610 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 23/04/2020 Ground Level (m): 8.907 Sheet: 3 of 3



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A						lton Fell, Chest , Eanam Wharl			7 4700 Fax: 0191 387 35 300 Fax: 01772 73	
					TR	IAL PI	TR	ECORD		Status:- FINAL
Project:			Prairie	Site Gr	ound Inv	estigatio	n Wo	rks		Exploratory Hole No.
Client:	South Tee	es Development	Corpo	ration		Location		E:454954.060 N:521286.60)4	PRAIRIE_AUK_TP142
Method (Equipm		e Excavated (36	0 Trac	ked Exc	cavator)	•		Ground Level (m): 8.896	Start Date: 23/04/2020	Sheet: 1 of 3
SAN	IPLES &	TESTS						STRATA		
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)		D	escription	
0.50 0.50 0.70 0.90 1.00 1.50 1.60	J1 PID B2 ES3 PID	0.8ppm 3.9ppm 3.0ppm		7.90 7.70 7.20		- 0.20 - (0.80) - 1.00 - 1.20 - (0.50) - 1.70	is fill slag MAI con pred ash are 25-4 MAI hyd (Engate	DE GROUND (Grey sandy ne to coarse subangular arg. Slag is vesicular grey). DE GROUND (Grey brown tent and fragments of meta dominantly ash. Gravel is fig., clinker, coke, weak concrangular and include brick, 50%. Slag is vesicular gree DE GROUND (Concrete bl. DE GROUND (Soft/loose brocarbon/creosote/ammoni gineer notes material is produced at 1.70m BGL - due	black sandy al. Sand is fin- ine to coarse ete and red as slag and con en grey). ocks (backfill black clayey s ia odour). bbably soot/clase.	gravel with high cobble e to coarse and includes subangular and includes and yellow brick. Cobbles crete. Slag content is ed)).



GROUNDWATER
Saturated strata between 1.00-1.20m BGL (Slight inflow). Engineer notes water contains globules of non aqueous phase liquid.

STABILITY
Pit sides and base stable throughout excavation.

ADD	ITIONAL INFORMA	TION	GENERAL REMARKS
Sketch Diagram:	No Sketch Taken3		
Photographs:	Yes See additional sheets.		

For explanation of symbols and abbreviations see Key Sheets Checked by: Logged by: D. Portsmouth Contract No. All dimensions in metres 4251 Scale 1:50

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TRIAL PIT RECORD **FINAL** Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP142 South Tees Development Corporation E:454954.060 N:521286.604 Method (Equipment): Machine Excavated (360 Tracked Excavator) Start Date: 23/04/2020 Ground Level (m): 8.896 2 of 3





TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP142 South Tees Development Corporation E:454954.060 N:521286.604 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 23/04/2020 Ground Level (m): 8.896 Sheet: 3 of 3



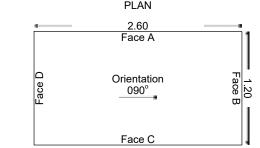
Head Office: Regional Office Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co, Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL

Tel: 0191 387 4700 Fax: 0191 387 4710

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Status:-TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP143 South Tees Development Corporation E:454890.560 N:521284.540 Ground Level (m): 8.721 Start Date: Method (Equipment): Machine Excavated (360 Tracked Excavator) 23/04/2020 1 of 3

,						
SAMPLES & TESTS						STRATA
Depth Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.30 J1 0.50 PID 0.60 B2 0.80 ES3 1.00 PID 1.30 J4 1.50 B5 1.60 ES6	<0.1ppm	→	7.72	X X X X X X X X X X X X X X X X X X X	(1.00)	MADE GROUND (Grey brown black red clayey sandy gravel with high cobble content and fragments of metal. Sand is fine to coarse and includes predominantly ash. Gravel is fine to coarse subangular and includes ash, clinker, weak concrete and red and yellow brick. Cobbles are angular and include brick, concrete and vesicular grey slag. Slag content is 25-50%). Firm (friable) brown silty CLAY.
PLAN				I		JNDWATER strike at 1.80m BGL (Heavy inflow) - Water level rose to 1.60m BGL.



Water strike at 1.80m BGL (Heavy inflow) - Water level rose to 1.60m BGL. Engineer notes unknown heavy water source discharging into pit. No known services in the area Arcadis instructed to backfill.

STABILITY

Pit sides and base stable throughout excavation.

	ADD	ITIONAL INFOR	MATION	GENERAL REMARK	KS		
	Sketch Diagram:	No :	Sketch Taken				
	Photographs:	Yes	See additional sheets.				
I	All dimonsions i	in motros	For explanation (of cymbols and	Checked by:	I oaged by:	Contract No

All dimensions in metres For explanation of symbols and Scale 1:50 For explanation of symbols and abbreviations see Key Sheets Checked by: Logged by: Contract No. D. Portsmouth 4251

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2 of 3

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP143 South Tees Development Corporation E:454890.560 N:521284.540 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 23/04/2020









Œ	TRI	FINAL			
Project:	Prairie Site Ground Inve	Exploratory Hole No.			
Client:	South Tees Development Corporation	Location:	E:454890.560 N:521284.54	0	PRAIRIE_AUK_TP143
Method (Ed	quipment): Machine Excavated (360 Tracked Excavator)		Ground Level (m): 8.721	Start Date: 23/04/2020	Sheet: 3 of 3



Status:-

FINAL

♠	Head Office: Regional Office:	Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL	Tel: 0191 387 4700 Fax: 0191 Tel: 01772 735 300 Fax: 0177
		TRIAL PIT RECORD	
Project:		Prairie Site Ground Investigation Works	

Project:	oject: Prairie Site Ground Investigation Works								Exploratory Hole No.		
Client: South Tees Development Corporation							: E:454790	0	PRAIF	RIE_AUK_TP144	
Method (Equipment): Machine Excavated (360 Tracked Excavator						E:454789.038 N:521289.908 Ground Level (m): Start Date: 24/04/2020 1 of 3					1 of 3
SAN	/IPLES 8	k TESTS					I	STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)		D	escription		
0.40 0.50 0.60 0.80 1.00	J1 PID B2 ES3 PID	0.8ppm 1.5ppm		7.60		- (1.20)	cobble conte includes pre includes ash Cobbles are content is 50 between c.0	UND (Grey brown ent and fragments dominantly ash. Gin, clinker, concrete, angular and includ 0-75%. Slag is vesion0-1.20m BGL GGL concrete bat 1.20m BGL - due	of metal. Sar ravel is fine t , slag and red de brick, con cular grey). Faces A and se.	nd is fine o coarse d and ye crete and C are co	to coarse and subangular and llow brick. d slag. Slag
		PLAN				GROUNDWATER Saturated strata (slight inflow) at 1.10m BGL. Slight sheen noted.					
Face A]						
O Orientation Fall 190 BB						STABILITY					
B								ble throughout exca	vation.		
Face C											
	ADDI [*]	TIONAL INFOR	MATIO	N		GENE	RAL REMARK	(S			
Sketch Dia	gram:	No	Sketch T	aken							
Photograp	ohs:	Yes		See add							
All dimensions in metres For explanation Scale 1:50 abbreviations s					of symbo	ols and heets	Checked by:	Logged D. Portsr	d by:	Contract No. 4251	

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TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP144 South Tees Development Corporation E:454789.038 N:521289.908 Method (Equipment): Machine Excavated (360 Tracked Excavator) Start Date: 24/04/2020 Ground Level (m): 8.803 2 of 3





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Status:-

G	TRI	FINAL			
Projec	et: Prairie Site Ground Inve	Exploratory Hole No.			
Client:	: South Tees Development Corporation	Location:	E:454789.038 N:521289.90	18	PRAIRIE_AUK_TP144
Method	od (Equipment): Machine Excavated (360 Tracked Excavator)		Ground Level (m): 8.803	Start Date: 24/04/2020	Sheet: 3 of 3



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Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL

Tel: 0191 387 4700 Fax: 0191 387 4710
Tel: 01772 735 300 Fax: 01772 735 999

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Status:-TRIAL PIT RECORD **FINAL** Project: Prairie Site Ground Investigation Works Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP145 South Tees Development Corporation E:454703.421 N:521301.805 Ground Level (m): 8.912 Method (Equipment) Start Date: Machine Excavated (360 Tracked Excavator) 14/04/2020 1 of 3 **SAMPLES & TESTS** STRATA Nater Reduced Depth Depth Legend Description MADE GROUND (Grass over brown sandy topsoil). 0.05 0.05 J1 MADE GROUND (Brown black clayey very sandy gravel with low cobble and boulder content and fragments of wood, metal and plastic. Gravel is fine to coarse subangular to subrounded and includes brick, concrete and slag. Cobbles and boulders are subangular and include concrete and brick. Slag content is 0-25%. (1.60) Slag is vesicular grey green white). B3 1.00 **₹** PID 1.60 0.2ppm at c.1.60m BGL ... slight hydrocarbon odour. ES4 1.60 Firm to stiff orange brown mottled grey slightly sandy CLAY. 1.90 2.00 J5 HSV at c.1.90m BGL ... clay is of high plasticity. (0.80) 77 (30)kPa 2.40 В6 Firm thinly laminated grey brown slightly sandy CLAY with light grey sand on lamination surfaces. Sand is fine. 2.90 3.00 J7 HSV (1.00) at c.2.90m BGL ... clay is of high plasticity. 64 (28)kPa 3.40 B8 Complete at 3.50m BGL.

	PLAN	
+	3.20	-
	Face A	1
Face D	Orientation 210° ■	2.00 —— Face B
	Face C	
1		

GROUNDWATER Groundwater seepage at 1.70m BGL.

ADDITIONAL INFORMATION Sketch Diagram: No Sketch Taken See additional Photographs: sheets.

STABILITY Pit sides stable throughout excavation.

GENERAL REMARKS

ALLIED EXPLORATION & GEOTECHNICS LIMITED Head Office: Regional Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Regional Office: Unit 29 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL Tel: 0191 387 4700 Fax: 0191 387 4701 Tel: 01772 735 300 Fax: 01772 735 999

TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP145 South Tees Development Corporation E:454703.421 N:521301.805 Method (Equipment): Machine Excavated (360 Tracked Excavator) Start Date: 14/04/2020 2 of 3





TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP145 South Tees Development Corporation E:454703.421 N:521301.805 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 14/04/2020 Sheet: 3 of 3



A	A	Head Office: Regional Office:	Unit 25 Ste	ella Gill Indus	trial Estate, P	_	ter-le-Str		S LIM	7 4710	
					TR	RIAL PI	TR	ECORD		Status:- FINAL	
Project:	t: Prairie Site Ground Investigation Works								Exploratory Hole No.		
Client:	South Tees Development Corporation Location: E:454604.642 N:521287.306								PRAIRIE_AUK_TP146		
Method (Equipr	thod (Equipment): Ground Level (m): Start Date:								Sheet: 1 of 2		
SAI	SAMPLES & TESTS				STRATA						
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)		Г			
				0.00	8.60 0.10 MADE GROUND (Brown sandy gravelly topsoil. Sand 8.40 0.30 coarse. Gravel is fine to coarse subangular and inclu						
				MADE GROUND (Strong grey concrete slab with rebar, por old floor).							
						- - - - - -	Ter	minated at 0.30m BGL - du	e to concrete	base.	

		Tellimated at 0.30m BGL - due to concrete base.				
PLAN 10.00 Face A Orientation		GROUNDWATER No groundwater inflow observed.				
Orientation 192° Face C	2.00 ——— Face B	STABILITY Pit sides stable throughout excavation.				
ADDITIONAL INFOR	MATION	GENERAL REMARKS				
Sketch Diagram: No	Sketch Taken	(1) No samples taken. (2) Relocated to PRAIRIE_AUK_TP146A.				
Photographs: Yes	See additional sheets.					
All dimensions in metres Scale 1:50	For explanation of abbreviations se	of symbols and Checked by: Logged by: Contract No. ee Key Sheets K. Russell-Clamp 4251				

Status:-TRIAL PIT RECORD **FINAL** Project: Exploratory Hole No. Prairie Site Ground Investigation Works Client: Location: PRAIRIE_AUK_TP146 South Tees Development Corporation E:454604.642 N:521287.306 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 14/04/2020 Ground Level (m): 8.695 2 of 2





					TR	IAL PI	TR	ECORD		Status:- FINAL
Project:	roject: Prairie Site Ground Investigation Works							Exploratory Hole No.		
Client:	Client: Location: South Tees Development Corporation						0.4	PRAIRIE_AUK_TP146A		
Method (Equipr	nent): Machine	Excavated (360	0 Trac	ked Exc	cavator)			E:454610.811 N:521287.0 Ground Level (m): 8.602	Start Date: 14/04/2020	Sheet: 1 of 2
SAI	MPLES & T	ESTS						STRATA		
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)			Description	
						0.10	coai at c.	DE GROUND (Brown san rse. Gravel is fine to coars .0.10m BGL strong gre minated at 0.10m BGL - do	se subangular v concrete sla	and includes concrete). b. possibly an old floor.
PLAN 3.00 Face A Orientation 192° B PLAN 3.00 Face B					STABI	undwa	ATER ater inflow observed.			

ĺ	ADDITIONAL INFORMATION									
	Sketch Diagram:	No Sketo	ch Taken	(1)						
	Photographs:	Yes	See additional sheets.							

- GENERAL REMARKS
 (1) No samples taken.
 (2) Relocated from PRAIRIE_AUK_TP146.
 (3) Relocated to PRAIRIE_AUK_TP146B.

Contract No. 4251 Checked by: Logged by: K. Russell-Clamp All dimensions in metres Scale 1:50 For explanation of symbols and abbreviations see Key Sheets

Status:-TRIAL PIT RECORD **FINAL** Project: Prairie Site Ground Investigation Works Exploratory Hole No. Client: Location: PRAIRIE_AUK_TP146A South Tees Development Corporation E:454610.811 N:521287.001 Method (Equipment):
Machine Excavated (360 Tracked Excavator) Start Date: 14/04/2020 Ground Level (m): 8.602 2 of 2





<u> </u>		Head Office: U Regional Office: U	Init 25 Ste Init 20 Bus	lla Gill Indust siness Develo	rial Estate, Pe ppment Centre	lton Fell, Ches , Eanam Wha	ter-le-Street, Co. Durham, DH2 2RG ff, Blackburn, BB1 5BL Tel : 01772 73	4700 Fax: 0191 387 5 300 Fax: 01772 73	7 4710 35 999	
Ġ					TR	IAL P	IT RECORD		Status:- FINAL	
Project:			Exploratory Hole No.							
Client:	South Te	es Development	Corpo	ration		Location	i:		PRAIRIE_AUK_TP146E	
Method (Equipn	nent):	ne Excavated (360			avator)		E:454603.479 N:521283.23 Ground Level (m): 8.643	2 Start Date: 14/04/2020	Sheet: 1 of 2	
SAM	MPLES 8	& TESTS					STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Do	escription		
				8.54 8.34 8.04		- 0.10 - 0.30 - 0.60	MADE GROUND (Black sandy Gravel is fine to coarse subang	gravel with r jular and inclu lar and inclu concrete sla	ludes red brick and ude red brick and b, possibly an old floor).	
# 		PLAN 4.20 Face A Orientation			1		JNDWATER pundwater inflow observed.			
Orientation 196° Face C						STABILITY Pit sides stable throughout excavation.				
ADDITIONAL INFORMATION Sketch Diagram: Sketch Taken						(1) No (2) Re	RAL REMARKS samples taken. located from PRAIRIE_AUK_TP146 located to PRAIRIE_AUK_TP146C.	6A.		
Photogra	phs:	Yes		See add						

Checked by:

For explanation of symbols and abbreviations see Key Sheets

Logged by: K. Russell-Clamp

Contract No. **4251**

All dimensions in metres Scale 1:50