ARCADIS Design & Consultancy for natural and built assets

GRANGETOWN PRAIRIE AREA, FORMER STEELWORKS, REDCAR

Phase II Environmental Site Assessment

South Tees Development Corporation

REPORT NO. 10035117-AUK-XX-XX-RP-ZZ-0062-01-Prairie_ESA

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Grangetown Prairie Area, Former Steelworks Redcar, Environmental Site Assessment

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DRAFT	June 2020	J Miles / R Barratt	
01	June 2020	J Miles / R Barratt	Added draft AEG data

This report dated June 2020 has been prepared for South Tees Site Company (the "Client") in accordance with the terms and conditions of appointment dated 14 September 2017(the "Appointment") between the Client and **Arcadis (UK) Limited** ("Arcadis") for the purposes specified in the Appointment. For avoidance of doubt, no other person(s) may use or rely upon this report or its contents, and Arcadis accepts no responsibility for any such use or reliance thereon by any other third party.

CONTENTS

1 INTRODUCTION 1
1.1 Project Background 1
1.2 Contract Details 1
1.3 Projects Aims and Objectives 1
1.4 Report Aims 1
1.5 Reliability / Limitations of Information 2

2 SITE CONCEPTUALISATION 3
2.1 Site Location 4
2.2 Site Description 4
2.3 Site History 5
2.4 Geology 8
2.5 Obstructions 13
2.6 Hydrogeology 13
2.7 Hydrology 16
2.8 Potential Areas of Concern 16

3 ENVIRONMENTAL SITE CONDITION ASSESSMENT 18
3.1 Introduction 18
3.2 Contamination Sources 18
3.2.1 On-Site 18
3.2.2 Off-Site 19
3.3 Contamination Sources Assessment 20
3.3.1 Non Aqueous Phase Liquid 20
3.3.2 Made Ground 22
3.3.3 Superficial Deposits 26
3.3.4 Groundwater 26
3.4 Pathways 27
3.4.1 Airborne Migration Pathways 27
3.4.2 Direct Contact Exposure Pathways 27
3.4.3 Aqueous Migration Pathways 27
3.5 Receptors 28
3.5.1 Human Health 28
3.5.2 Property (buildings, etc) 28

3.5.3 Controlled Water 28
3.5.4 Ecological 28
3.6 Obstructions 28
3.7 Slag Testing Data 28
3.8 Conceptual Site Model 29
4 GENERIC QUANTITATIVE RISK ASSESSMENT 31
4.1 Tiered Approach 31
4.2 Human Health Risks 31
4.2.1 Selection of Soil GAC 31
4.2.2 Soil Risk Assessment 32
4.2.2.1 Third Party Historical Data 33
4.2.3 Selection of Groundwater GAC 34
4.2.4 Groundwater Risk Assessment 34
4.2.5 Asbestos in Soil 34
4.2.6 Qualitative Risk Assessment for Substances in Soil without GACs 34
4.2.7 Qualitative Risk Assessment for Substances in Groundwater Without GAC 35
4.2.8 Discussion 36
4.3 Risks to Controlled Waters 37
4.3.1 Selection of GAC 37
4.3.2 Soil Leachate 38
4.3.3 Groundwater 43
4.3.4 Qualitative Risk Assessment for Substances in Leachate/Groundwater without WQS 46
4.3.5 Discussion 47
4.4 Built Receptors 47
5 UPDATED CONCEPTUAL SITE MODEL 48
6 CONCLUSIONS 50
6.1 Human Health Risk 50
6.2 Controlled Waters 50
6.3 Recommendations 50

APPENDICES

APPENDIX A

Figures

APPENDIX B

Study Limitations

APPENDIX C

Draft Trial Pit and Borehole Logs

APPENDIX D

Statistical Analysis

APPENDIX E

Draft Laboratory Certificates

APPENDIX F

GQRA – Summary of Soil Screen

APPENDIX G

GQRA – Summary of Soil Leachate Screen

APPENDIX H

GQRA – Summary of Groundwater Screen

1 Introduction

1.1 Project Background

The Grangetown Prairie (Prairie) Area (the site) is a land parcel situated at the Former Redcar Steelworks located within the Redcar, Lackenby, Grangetown and South Bank conurbations of the Borough of Redcar & Cleveland, within the industrial area generally known as 'South Tees'. The site location is shown on Figure 1 in Appendix A.

The South Tees Regeneration Masterplan has been developed detailing the industrial-led regeneration of the Former Redcar Steelworks into a world class employment-generating zone and economic growth enabler for the Tees Valley.

The Masterplan has identified the Prairie Area (also known as Cleveland South) as being located within the Southern Industrial Zone. The site is a priority development area and Arcadis understands this report is to be used within a detailed planning application scheduled for submission in June 2020.

1.2 Contract Details

Arcadis (UK) Limited (Arcadis) was appointed by South Tees Development Corporation (STDC) to oversee and manage a ground investigation undertaken by Allied Exploration and Geotechnics Limited (AEG) and to provide consultancy advice on the redevelopment of the site.

The work was carried out in accordance with the "*Prairie Site, Warrenby Site and the SLEMS Ground Investigations Provision of Consultancy Services* Agreement between Tees Valley Combined Authority and Arcadis.

The scope of works was defined by Arcadis, on behalf of STDC, as presented in:

- STDC-SS-0028 – GI Consultancy - Prairie, sent 17th May 2018; and,
- Email "Prairie – Geo-Environmental Consultancy Support" correspondence from Arcadis to STDC 9th August 2019

1.3 Projects Aims and Objectives

The overarching aim of the project is to deliver a sustainable ground remediation strategy for the contract site which is compliant with regulatory needs and has their approval in principle.

As technical consultant, our specific objectives are to:

- Manage and technically supervise the site works, undertaken by AEG, on behalf of STDC;
- Direct the site works to ensure compliance by the ground investigation contractors with existing site management protocols and procedures;
- Specify the requirements for laboratory analysis;
- Analyse the results of ground investigations;
- Prepare an interpretative technical report including an assessment of identified environmental risks associated with the site (*this document*),
- Consult with regulators to ensure compliance with all relevant regulatory requirements; and,
- Input into the development of a cost-effective, value-engineered remediation strategy for the site (reported under a different cover).

1.4 Report Aims

The aim of this environmental site assessment report is to use the available information to develop a conceptual site model (CSM) for the site and identify the significance of any source-pathway-receptor (SPR) linkages identified by the CSM for the contract area. Where significant, and potentially complete, pollutant linkages are identified, suitable risk management/remediation recommendations are to be made. As such, within this report Arcadis has provided an overview of the findings of the AEG site investigation and used the

information to prepare this interpretative technical report. The findings from this report are supporting the development of a cost-effective, value-engineered remediation strategy for the site.

1.5 Reliability / Limitations of Information

A complete list of Arcadis Study Limitations is presented in Appendix B.

It should be noted that ground conditions between exploratory holes may vary from those identified during this ground investigation; any design should take this into consideration. It should also be noted that groundwater levels may be subject to diurnal, tidal, seasonal, climatic variations and those recorded in this report are solely dependent on the time the ground investigation was carried out and the weather before and during the investigation.

2 Site Conceptualisation

No specific Phase I Environmental Site Assessment (ESA) exists for the site however the area is covered by the following document supplied by STDC:

- TS3 Grangetown Prairie – Phase 1 Geo-Environmental Desk Study, prepared by CH2M Hill for the Homes and Communities Agency, report ref. 678079_TS3_001 dated August 2017 and marked Final [CH2M2017].

In addition, STDC also supplied the following documents:

- Former Steelworks Land, South Tees Outline Remedial Strategy, Prepared for South Tees Development Corporation by Wood, Ref 41825-wood-XX-XX-RP-OC-0001_S0_P01 dated25th June 2019 [Wood 2019]
- Prairie Site, Off Clay lane – Ground Investigation Factual Report, Prepared for One North East by Shadbolt Environmental dated July 2011.
- Former Corus Cleveland Prairie Site: Land off Clay Lane – Ground Investigation Interpretative Report, prepared by MD2 for One North East, Ref MD2_113 dated 25th July 2011
- Phase II Geo-environmental Assessment at Corus Cleveland Prairie Teesside Site, prepared by Enviros Consulting Ltd. for Graphite Resources, Ref. GR1280001 dated March 2008
- Corus Cleveland Prairie Teesside Site Phase I Environmental Review, prepared by Enviros Consulting Ltd. for Graphite Resources, Ref. GR1280001 dated August 2007
- Soil and Groundwater Baseline Characterisation Study, Teesside Works, prepared by Enviros for Corus UK Ltd [Enviros 2004], Comprising:
  - Volume 1 – Factual Report, Ref. Rlp250604corusteessidefactual.Doc dated 25th June 2004 and marked Final;
  - Volume 2 – Interpretive Report Ref. Mwicorusdraftinterpretivemmdv#2.Doc dated 25th June 2004 and marked Final; and,
  - Volume 3 – Summary Report dated June 2004

This section incorporates a review of the above reports, publicly available records, and data collected as part of the site investigation works by AEG. At the time of issue AEG's final factual ground investigation report [AEG, in press] was not available for review. This report has been completed based on **draft data** and will be updated when the final ground investigation factual report is available.

The scope completed by AEG is summarised below:

- 110no. trial pits excavated by a 20 tonne 360 excavator, to a target depth of 4.5m or refusal, or until natural material was encountered;
- 10no. boreholes drilled by a Dando 2000 cable-percussive rig, with target depths of between 10m and 20m, or refusal on bedrock, 4no. of these boreholes were advanced 5m into the underlying bedrock. Boreholes were advanced through previously excavated trial pits;
- Soil sampling for in-field assessment and submission to Derwentside Environmental Testing Services (DETS), AEG in-house Geotechnical Laboratory and Thomas Research Services (TRS) laboratories for chemical and geotechnical testing;
- Installation of 12no. groundwater monitoring wells (including 2no. twin installations) with subsequent purge development;
- Groundwater sampling of all newly installed monitoring wells;
- Groundwater elevation survey of all newly installed monitoring wells.

2.1 Site Location

The Prairie Area is located in the south west of the former Redcar Steelworks, between the Darlington to Saltburn Railway, Tees Dock Road, Eston Road, and DTDC's SSI3A/ TLRS land holding. The site elevation generally ranges from approximately 5m to 15m above Ordnance Datum (AOD).

The centre of site is located at approximately National Grid Reference: 454675, 521389 and an indicative post code for the site is TS10 5QW.

A Site Location Plan is presented on Figure 1 within Appendix A.

2.2 Site Description

The site is approximately 54 hectares in size and irregular in shape. The bulk of the site is approximately trapezoidal in shape with the northern boundary being the longer edge. Additional narrow spurs are present from the south west and north east corners. The Darlington to Saltburn Railway is located along the northern boundary of the site and the SSI3A/TLRS landholding forms the bulk of the southern boundary.

With the exception of a small relic Oxygen Plant and a former Loco Repair Shop, the site has been demolished to slab level with concrete foundations, roadways and crushed aggregate including steelmaking wastes forming the bulk of the site surfacing, which is covered by scrub in places. The site is broadly level with the exception of isolated bunds and mounds (particularly associated with the former blast furnaces, where a large metal rich boulder is present and the coke ovens) and two prominent features, namely:

- A large embankment running north-south in the south west of the site which reaches a height of approximately 15m above the surrounding land. This embankment formerly carried railway tracks to blast furnaces. The remaining structures (Oxygen Plant and Loco Repair Shop) are sited at the base of the embankment; and,
- A depression running north south adjacent to the main western boundary where the topography dips down to an underpass beneath the railway.

Two surface water features are culverted beneath the site; Holme Beck in the west and the Knitting Wife Beck in the east. A number of utilities are present on site including the Redcar Steelworks Coke Oven Gas (COG) main which crosses the site above ground from south east to north west. The GOC main is currently in the process of being decommissioned but at the time of writing is still considered a top tier COMAH asset. Overhead pylons run along the northern and eastern edge of the site and a Northumbrian Water Sewer runs along the northern edge of the site.

The site setting and layout are shown on Figure 2 and in Appendix A.

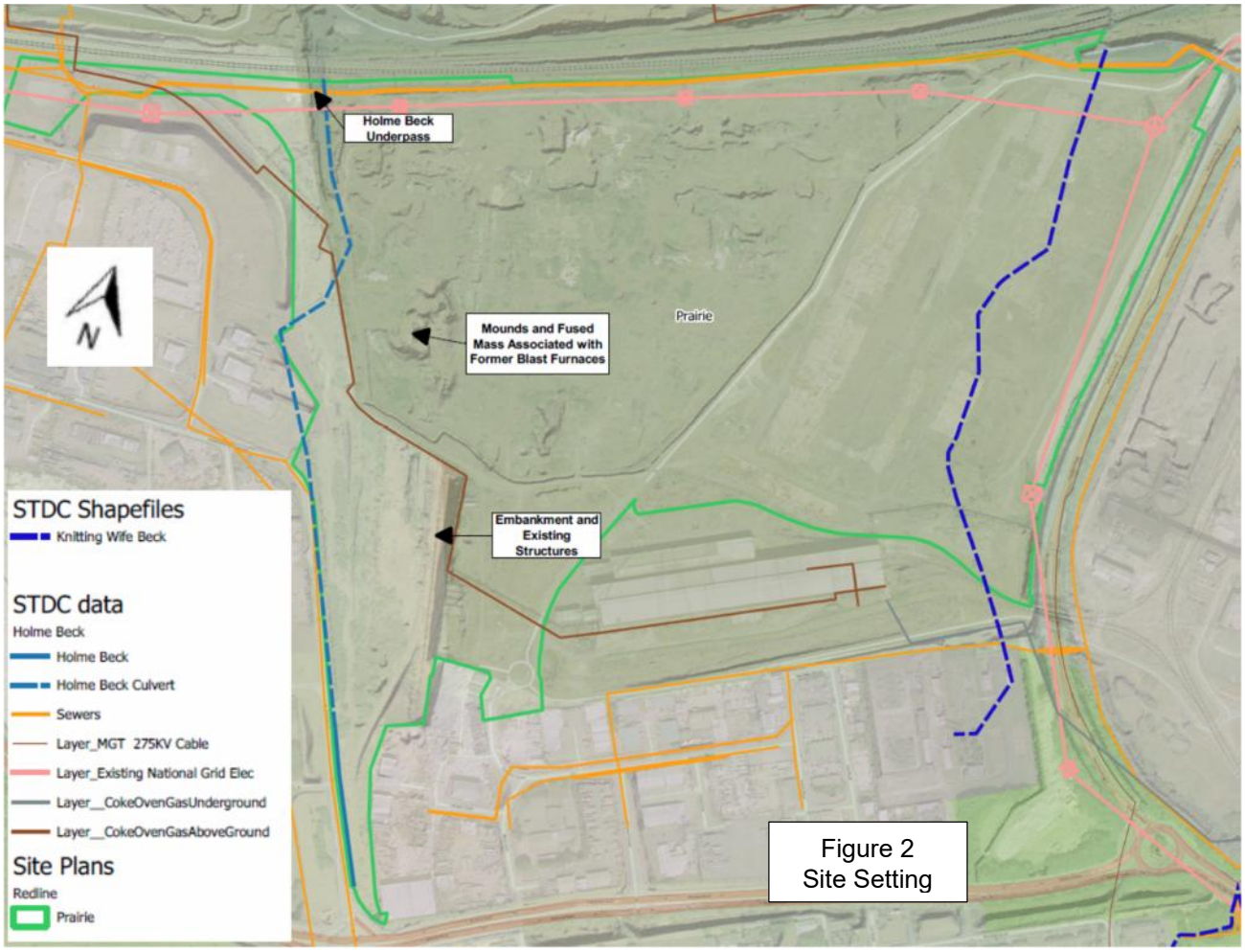


Figure 2
Site Setting

2.3 Site History

A full site history is given in Wood (2019) and CH2M (2017). In summary:

- In 1857 the site was predominantly agricultural land. Railways ran along the northern boundary of the site (in the location of the current Darlington to Saltburn line) and also down the western edge of the site within the current site boundary. A small iron works (Eston Iron Works) is shown in the north west of the site. The Tees Estuary was located to the north of the site beyond the railway.
- Mapping from 1893 shows the Cleveland Steel Works to occupy the western half of the site; the Cleveland Iron Works extends onto the far western areas of the site. Small water bodies are shown on the site. By 1913 the steelworks has expanded further into the eastern half of the site and the water bodies are no longer shown. Estuary reclamation is shown to the north of the site.

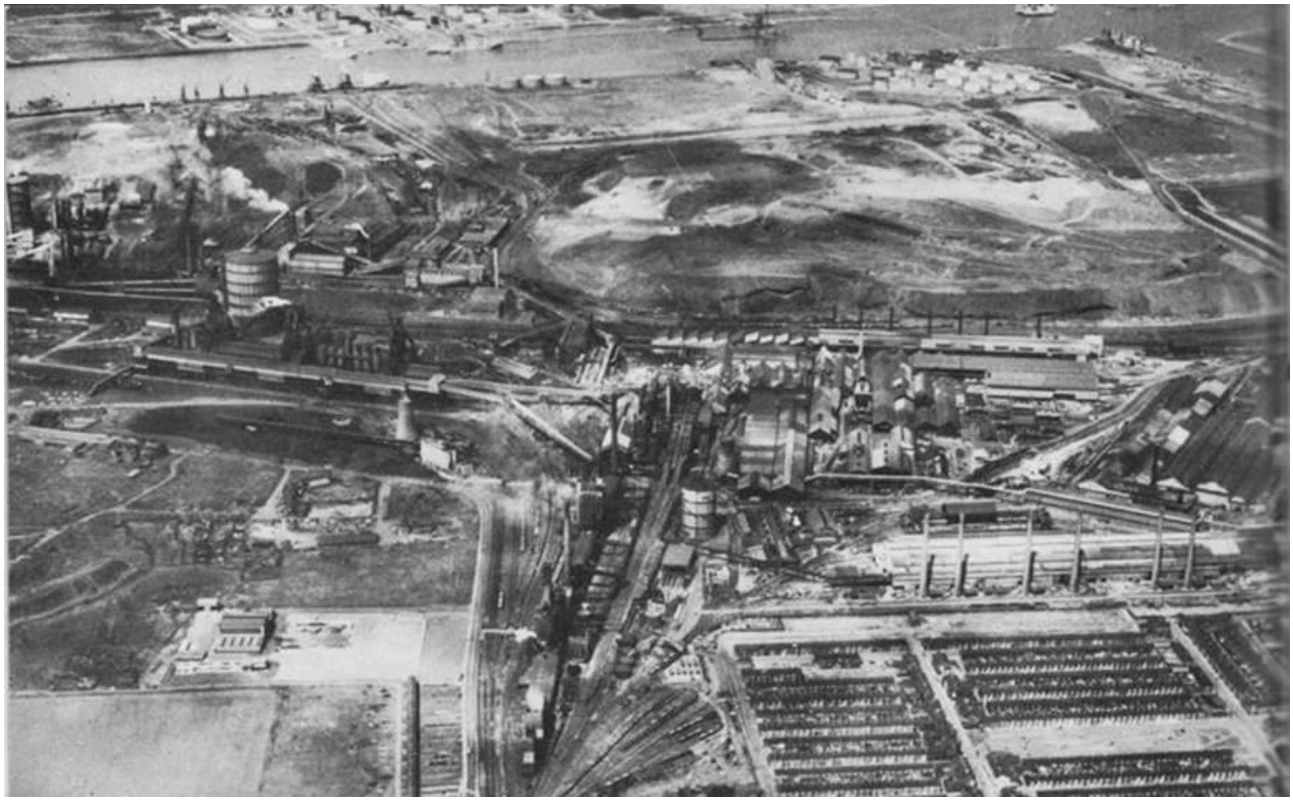


Plate 1 – Site circa 1924

- From 1924 further development has occurred on the eastern half of the site with additional large structures shown. A structure is shown to the south of the site in the location and with the approximate outline of the current TLRS (understood at this time to be the South Steel Plant). Plate 1 provided by STDC is understood to show the site in 1924.
- By 1952 the Cleveland Coke Ovens and biproducts plant have been constructed in the south west of the site. In the east of the site further expansion of structures has taken place, the largest of these is understood to have been known as the Colliery Arch Plant and Medium Section Mill (information provided by STDC, drawing 1x5971). The site layout at circa. 1960 is shown on drawing 1x5947 (Figure 3).

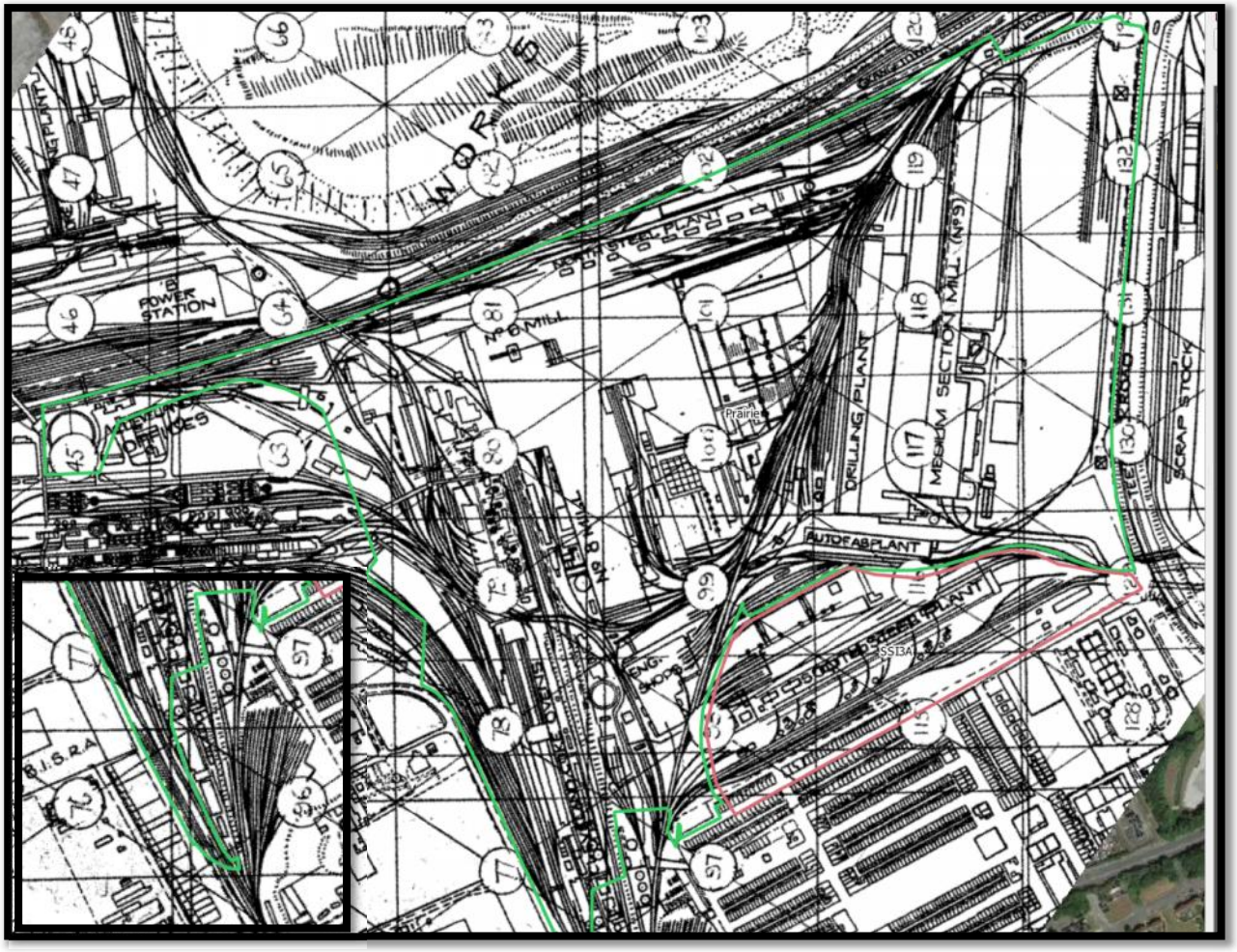


Figure 3 – Site layout circa 1960

- Mapping from the 1970's to the 1990's indicates progressive demolition of the majority of structures on the western half of the site. Based on information provided by STDC the bulk of the facilities on site became obsolete after the construction of the BOS and CONCAST plants in the 1970's. The Colliery Arch plant is shown on mapping until 2010 after which it no longer appears. The site was used as a steel stocking yard following structure demolition. Plate 2 provided by STDC shows the Colliery Arch Plant prior to demolition in 2010; the large structure in the mid ground is the former Power Station (now also demolished), with the South Bank Coke Ovens off site in the background.

Plate 2 – Site Circa 2010

2.4 Geology

Historical borehole logs from Enviros and others indicate a substantial thickness of Made Ground underlies much of the site. Review of the British Geological Survey (BGS) data also suggests the presence of Made Ground at the site (in the east and south); the BGS maps indicate the Made Ground is underlain by Glaciolacustrine Deposits predominantly comprising laminated clays and silt. These deposits are likely to be underlain by Glacial Till predominantly comprising slightly gravelly clay.

Bedrock beneath the southern 10% of the site is anticipated to comprise Redcar Mudstone Formation, part of the Lias Group. The northern 80% of the site is anticipated to be underlain by the Mercia Mudstone Group. The Penarth Group is indicated to be present between the two units running northeast to south west through the site. The geological sequence of units comprises:

- **Redcar Mudstone Formation** (up to 250m thick but only basal part of unit likely to be present beneath the site) comprising grey fossiliferous, fissile mudstones and siltstones with subordinate thin beds of shelly limestone in lower part and argillaceous limestone concretions throughout;
- **Penarth Group** (approximately 15m in thickness) comprising grey to black mudstones with subordinate limestones and sandstones;
- **Mercia Mudstone Group** (approximately 200m in thickness) comprising predominantly red mudstones and subordinate siltstones with thick halite-bearing units.

The desk study CH2M (2017) suggests that bedrock is dipping approximately 14 degrees to the north-northwest.

Exerts from the BGS mapping data are presented as Figure 4 and in Appendix A.

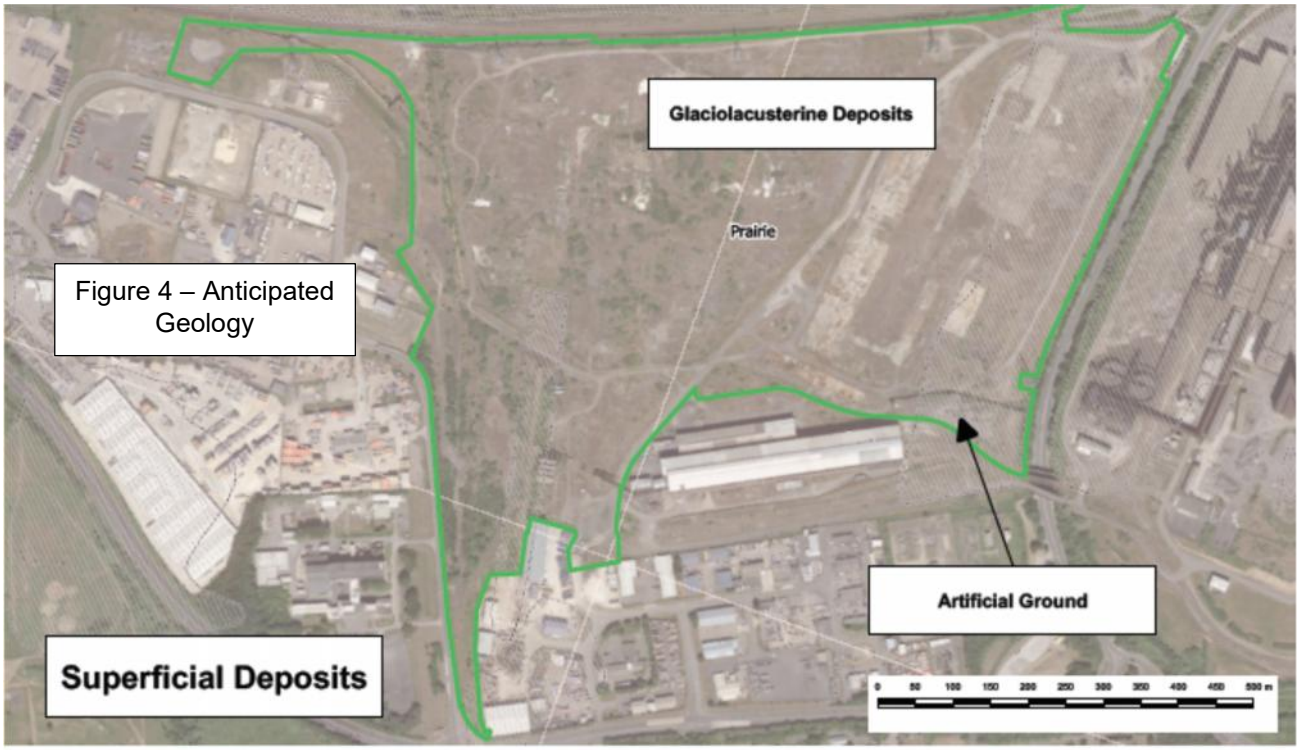


Figure 4 – Anticipated Geology

The following table provides an overview of the site-specific geology encountered during the investigation across the site. The full geology encountered is provided in **draft** on the AEG trial pit and borehole logs within Appendix C and will be presented in the AEG factual report when available, a **draft** borehole and trial pit location plan is provided with the logs.

Unit	Minimum Basal Depth (m bgl)	Maximum Basal Depth (m bgl)	Comment
Made Ground	0.60	5.00 (8.00)	Site surfacing comprised either soft standing of gravels, slag, brick paviour, concrete, or bituminous surfacing. The Made Ground encountered during the investigation predominantly comprised granular material with a fine-grained component and medium to high cobble/boulder content which included slag, brick, concrete and occasionally clinker, coke, coal and/or metal. Rare to frequent refractory materials were identified in a number of trial pits across the site. Based on visual assessment slag was found to be the dominant component of Made Ground in 24 of 122 trial pits. Frequent relic foundations and structures were identified particularly in the west of the site. In one location made ground was identified to a depth of 8m bgl (Prairie_BH102), however this was atypical of the surrounding area and it could not be confirmed if this represented true ground conditions or an obstruction being driven into the underlying superficial deposits.
Tidal Flat Deposits (Secondary A Aquifer)	0.4	4.5	Encountered in 41 trial pits and 1 boreholes. Generally comprised soft to firm sandy silty clays or sandy clayey silts with varying amounts of plant remains. Identified to be widely distributed across the site below the Made Ground. Were the full thickness of the Tidal Flat Deposits was proven this was found to be limited and generally less than 1.5m. Tidal Flat Deposits were not identified in 22 locations where natural deposits were proven. The majority of these were located in the west of the site.
Glaciolacustrine Deposits (non-Aquifer)	0.8	10.6	Although indicated as present on the geological maps of the area Glaciolacustrine Deposits were only recorded 29 of the trial pits and 8 boreholes. Where identified, the Glaciolacustrine Deposits were generally noted to be below Tidal Flat Deposits, although in five locations the Tidal Flat Deposits were absent. This finding is in line with the previous environmental investigation of the Cleveland Works conducted by Enviros. Where identified the deposits were generally described as a soft to firm brown laminated clay often with sand or silt partings along laminations.

Unit	Minimum Basal Depth (m bgl)	Maximum Basal Depth (m bgl)	Comment
Glacial Till (Lower) (non-Aquifer)	2.7	17.7	Glacial Till was identified in 5 trial pits below the Tidal Flat Deposits with no Glaciolacustrine Deposits present and in all 9 boreholes which reached rockhead. Glacial Till was described as a firm to stiff red brown slightly sandy slightly gravelly clay, with gravel composed of mixed lithologies, including sandstone, limestone and rare coal. Glacial till is distributed widely across the site overlying the bedrock. This finding is in line with the previous environmental investigation of the Cleveland Works conducted by Enviros. Large lenses of sand or very sandy clay were identified in Prairie_AUK_BH101 and Prairie_AUK_BH105.
Redcar Mudstone Formation (Secondary (Undifferentiated) Aquifer)	6.8	8.7	The surface of the Redcar Mudstone Formation was identified as a weak to medium strong locally weathered grey blue mudstone, consistent with the geological map for the site. Only identified as a thin unit in Prairie_AUK_BH109 and in Prairie_AUK_BH106.
Penarth Group (Secondary (Undifferentiated) Aquifer)	8.7	11.8	Recovered as a medium strong grey siltstone. Recorded in Prairie_AUK_BH109 underlying the Redcar Mudstone Formation.
Mercia Mudstone (Secondary B Aquifer)	7.7	20.8	An extremely weak to medium strong red brown mudstone partially weathered with numerous gypsum veins and inclusions. Recorded in three boreholes.

Trial pits were not advanced to natural deposits in all cases. Reasons for shallow termination included encountering groundwater, hard strata, or the pit stability.

Made Ground was encountered in all intrusive locations and proven to a maximum thickness of at least 5m (Prairie_AUK_TP199). The base of the Made Ground was not proven in 58 of the 122 trial pits therefore, greater thickness of material may exist across the site. The distribution of the thickness of Made Ground is presented as Figure 5 and in Appendix A.

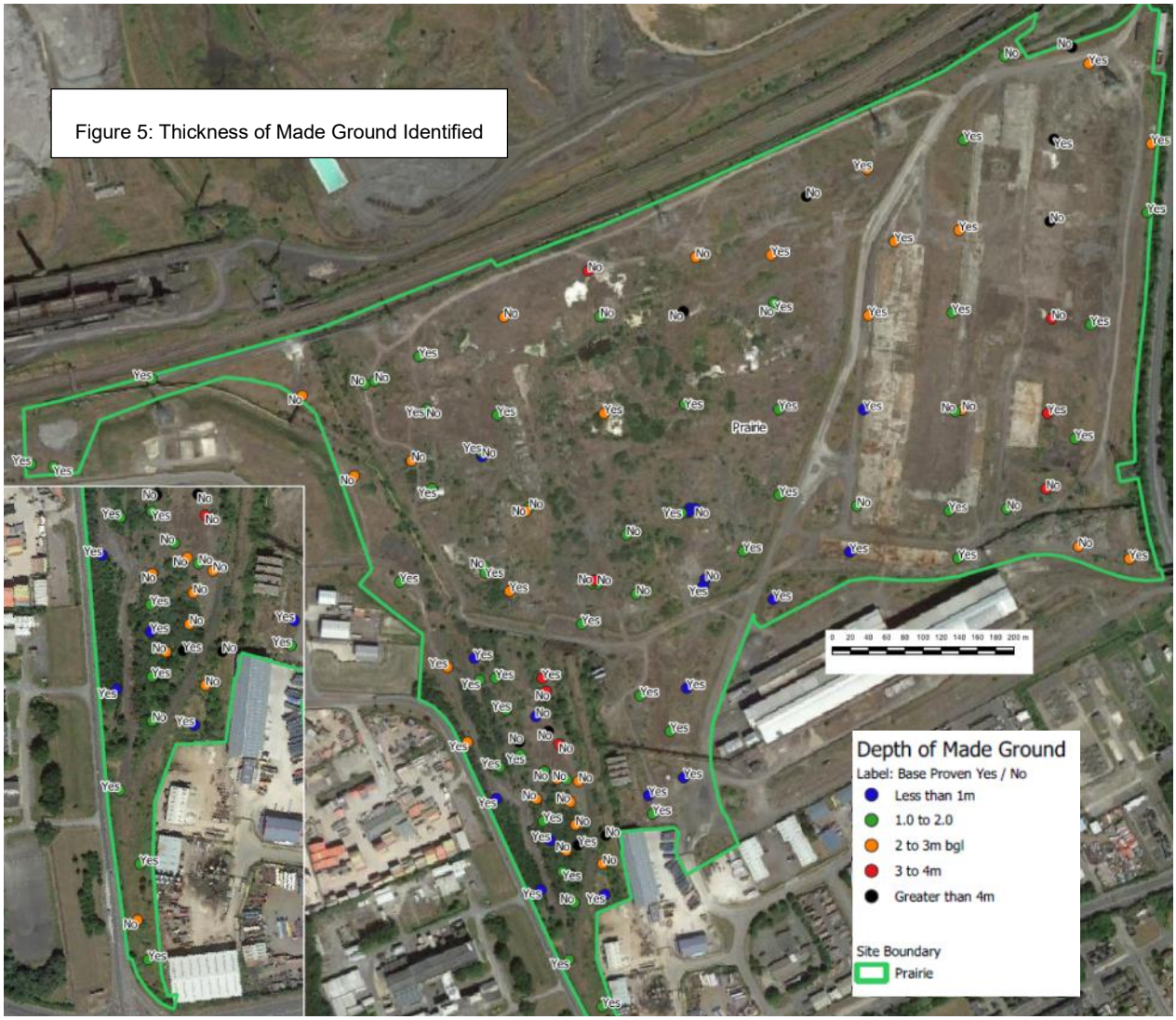


Figure 5: Thickness of Made Ground Identified

Three types of Made Ground were noted:

- **Slag-dominant material (>50% slag):** Generally ranging from gravel to cobble and occasional boulder size fragments. The slag material was generally vesicular and grey-green in colour. Discolouration of the slag surface was also noted with white crystallisation/discolouration often noted on the outer surface along with occasional iron rich areas. Slag dominant made ground was identified to comprise the primary made ground in 24 of the 122 trial pits.
- **Granular Made Ground:** Identified widely across the site of varying composition, most frequently a sandy gravel with varying cobble content, although occasionally also clayey. Gravel and cobbles include brick (including refractory), concrete and other demolition materials, slag was not the dominant constituent although often still present within the soil matrix.
- **Cohesive Made Ground:** Frequently identified below the granular Made Ground and comprising a sandy and or gravelly clay with demolition materials within the matrix.

Two different natural deposits were identified immediately underlying the Made Ground. Tidal Flat Deposits were identified in 41 locations, and Glaciolacustrine Deposits were identified in 22 locations. In 24 further locations Glaciolacustrine deposits were identified below the Tidal Flat Deposits. Glacial Till was identified below the Tidal Flat Deposits in five locations.

The Tidal Flat Deposits and Glaciolacustrine Deposits were underlain by between 0.5m (Prairie_AUK_BH109) and 7.1m (Prairie_AUK_BH101) of Glacial Till in all boreholes. Sand or gravel rich lenses were identified within

the Glacial Till in Prairie_AUK_BH101 (1.4m thick very sandy clay) and Prairie_AUK_BH105 (2.4m clayey very sandy gravel).

The upper surface of the Redcar Mudstone Formation was proven to underly the superficial deposits in two of the ten locations and was recovered as a blue grey weak to medium strong mudstone. In seven locations the Mercia Mudstone was identified (borehole Prairie_AUK_BH102 refused in Made Ground), recovered as a weak to medium strong red brown mudstone. The Penarth Group was identified in Prairie_AUK_BH109 as a siltstone underlying the Redcar Mudstone. The bedrock was noted to dip to the north west.

2.5 Obstructions

In addition to the boulders of slag, occasional fused slag and demolition rubble which presented issues with progression of a number of the exploratory holes, further buried obstructions were identified during the course of the investigation. Detail on the obstructions is presented on the trial pit logs and summarised on Figure 6 and in Appendix A.

It should be noted that further obstructions may be encountered in areas not investigated.

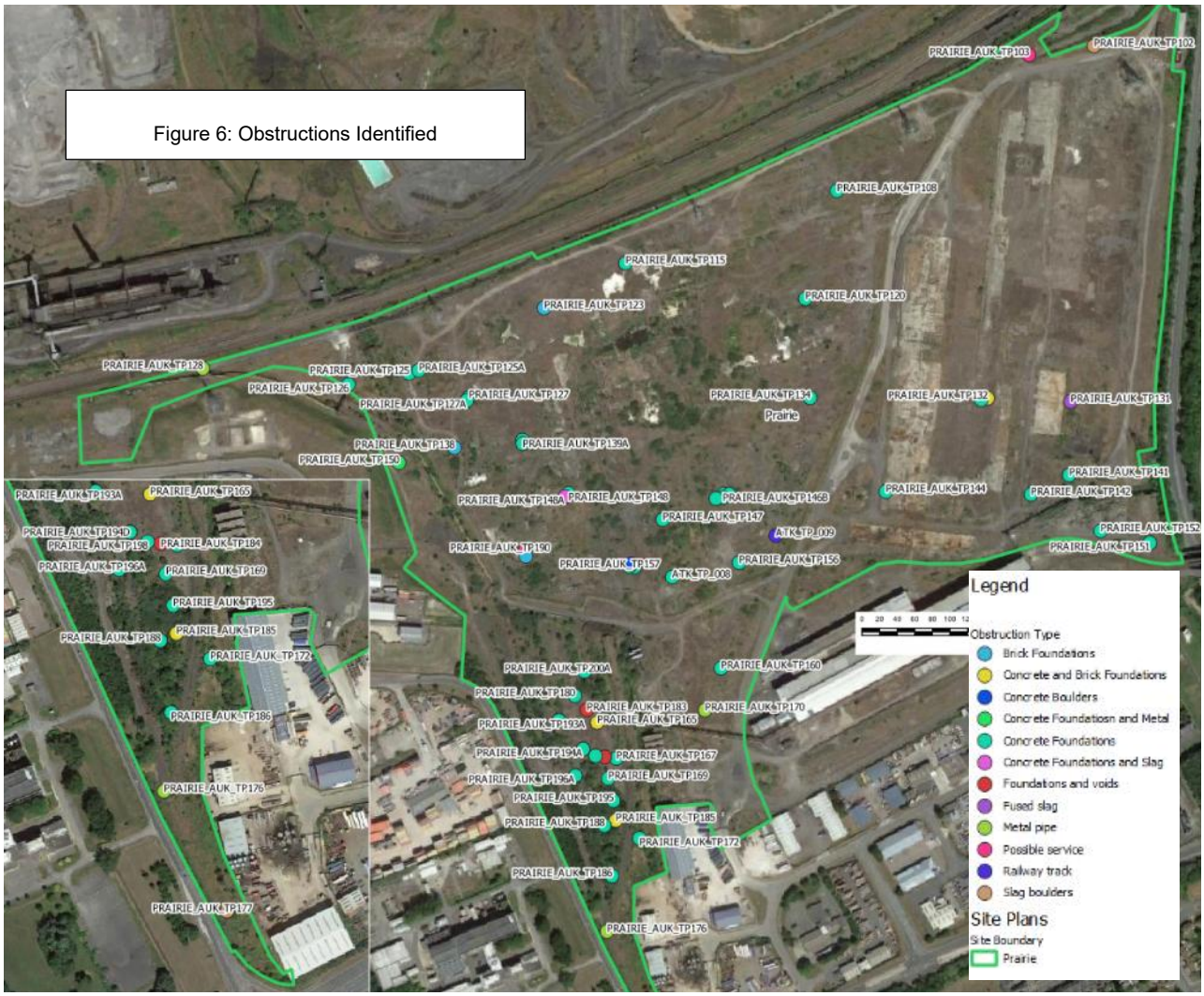


Figure 6: Obstructions Identified

2.6 Hydrogeology

Previous investigations have indicated that shallow groundwater is present and was encountered between 0.5m and 2.5m bgl (Enviros 2008, MD2 2011). The site is not located within a Groundwater Source Protection Zone.

Made Ground

Groundwater was encountered in 56 out of 112 trial pits at depths of between 0.3m and 3.5m bgl, and noted to be associated with the Made Ground with infiltration rates into the pits ranging between “low” to “heavy”. Groundwater is believed to be perched within the more granular horizons (and also within sub surface structures) and flow dictated by localised preferential pathways. It was noted that groundwater levels within the Made Ground showed considerable variation between adjacent trial pits indicating that groundwater is not continuous in Made Ground across the site. Detail on the groundwater observations noted within trial pits is presented on the trial pit logs and summarised on Figure 7 and in Appendix A.

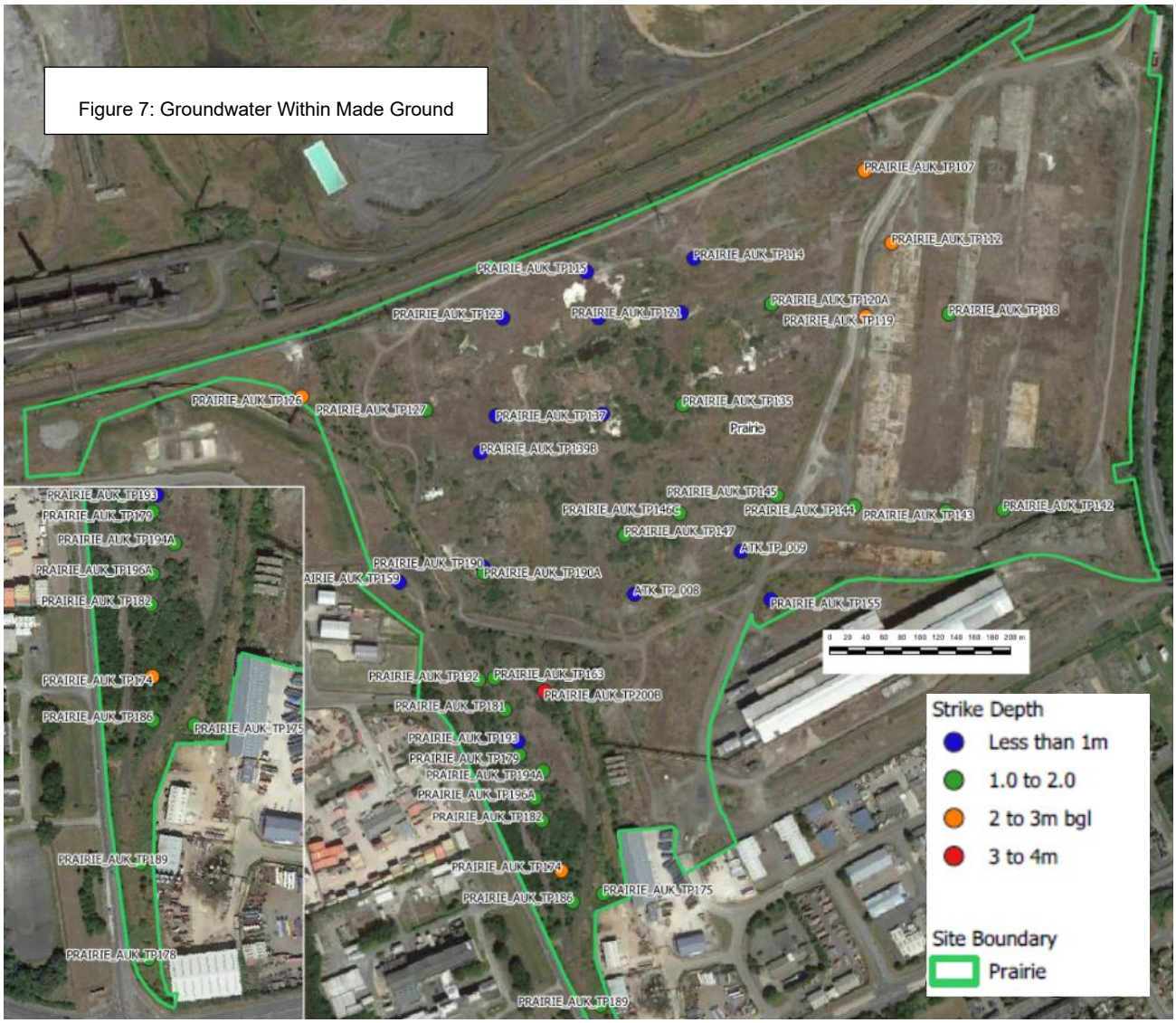


Figure 7: Groundwater Within Made Ground

Superficial Deposits

Groundwater levels recorded within the shallow superficial deposits during the site investigation are shown in the table below and on Figure 8 in Appendix A. The Tidal Flat Deposits were noted to be discontinuous across the site and where present, were of limited thickness, as such no wells were screened across this unit. It is therefore expected that although a Secondary (A) Aquifer is present regionally in the vicinity of the site the Tidal Flat Deposits are considered to be of limited resource value.

Borehole	Aquifer	Range in Depth to Groundwater (m bgl)	Range in Groundwater Elevation (m AOD)
Superficial Deposits			
Prairie_AUK_BH101S	GL	2.00	6.644
Prairie_AUK_BH101D	GT	3.00	5.644
Prairie_AUK_BH102	Made Ground	1.1	7.113
Prairie_AUK_BH103	GL	2.25	5.433
Prairie_AUK_BH105	GT	4.6	3.657
Prairie_AUK_BH106	GT	3.94	4.771
Prairie_AUK_BH107	GT	3.16	6.998
Prairie_AUK_BH108S	GL	2.2	6.663

Water was noted within the Glaciolacustrine and Glacial Till deposits although these geological units are classified as non-aquifers. Groundwater flow within the Glaciolacustrine Deposits is indicated to the north to northeast in line with the previous Enviros investigation. The flow is likely to be influenced by more granular horizons within the deposits such as those identified in Prairie_AUK_BH101D and Prairie_AUK_BH105.

In nested installation Prairie_AUK_BH101 (Glaciolacustrine Deposits over sand-rich Glacial Till) a downward head was noted between the two deposits.

Bedrock

Groundwater levels recorded within the bedrock deposits during the site investigation are shown in the table below and on Figure 8 in Appendix A. The resting groundwater levels in the monitoring wells screened across the Redcar Mudstone Formation, Penarth Group, and Mercia Mudstone are noted to be above the slotted section of the well pipe indicating the phreatic surface rests above the upper surface of the mudstone itself. It was noted that the resting groundwater elevations within the Mercia Mudstone are below those in the Glaciolacustrine Deposits (Prairie_AUK_BH208S/D) indicating a downward head.

Borehole	Aquifer	Range in Depth to Groundwater (m bgl)	Range in Groundwater Elevation (m AOD)
Prairie_AUK_BH104	Mercia Mudstone	6.4	2.296
Prairie_AUK_BH108D	Mercia Mudstone	5	3.863
Prairie_AUK_BH109	Redcar Mudstone Formation and Penarth Group	5.44	6.645
Prairie_AUK_BH110	Mercia Mudstone	4.00	3.798

The elevation data indicates that within the Redcar Mudstone Formation and Mercia Mudstone groundwater flow is to the north or north east. The two aquifers and the Penarth Group are believed to be in hydraulic continuity.

Summary

Water was noted to be variably present in Made Ground and as such, water is also expected to be present in the Tidal Flat Deposits although this has not been confirmed. The Tidal Flat Deposits are not present continuously across the site and as such, water within the deposits is not expected to represent a continuous body across the site. Although non-aquifers, the site data indicates the potential for horizontal and vertical migration of groundwater within more permeable horizons of the Glaciolacustrine Deposits and Glacial Till deposits. Aquifer permeability testing of the subsurface geology is proposed during the next round of monitoring to quantify this further. The underlying bedrock is considered the most sensitive aquifer system at the site.

It should be noted the inferred flow directions within the bedrock and Superficial Deposits are based on elevations from just a limited number of monitoring wells given the size of the site and may be influenced by local ground conditions. Two further elevation surveys are to be conducted to refine the assessment.

2.7 Hydrology

The closest surface water feature to the site is the Holme Beck which runs along the western edge of the site, the watercourse is culverted as it passes through the site as both an open and covered feature. The Knitting Wife Beck is culverted below ground down the eastern side of these site. Both features flow south to north, and ultimately discharge into the River Tees via the SLEMS. The locations of these features are shown on Figure 2, and in Appendix A.

2.8 Potential Areas of Concern

Given the site history and surroundings numerous potential areas of concern (PAOC) have been identified for the site. An exhaustive review is not considered proportionate. Therefore, based on a review of the documents listed in this section, historical mapping (including site plans), and the DEFRA Magic Website https://magic.defra.gov.uk/MagicMap.aspx accessed 19th May 2020 the following PAOC have been identified. These are considered to include the PAOC considered to be of highest concern both on and off the site. The PAOC are summarised on Figure 8 and in Appendix A.

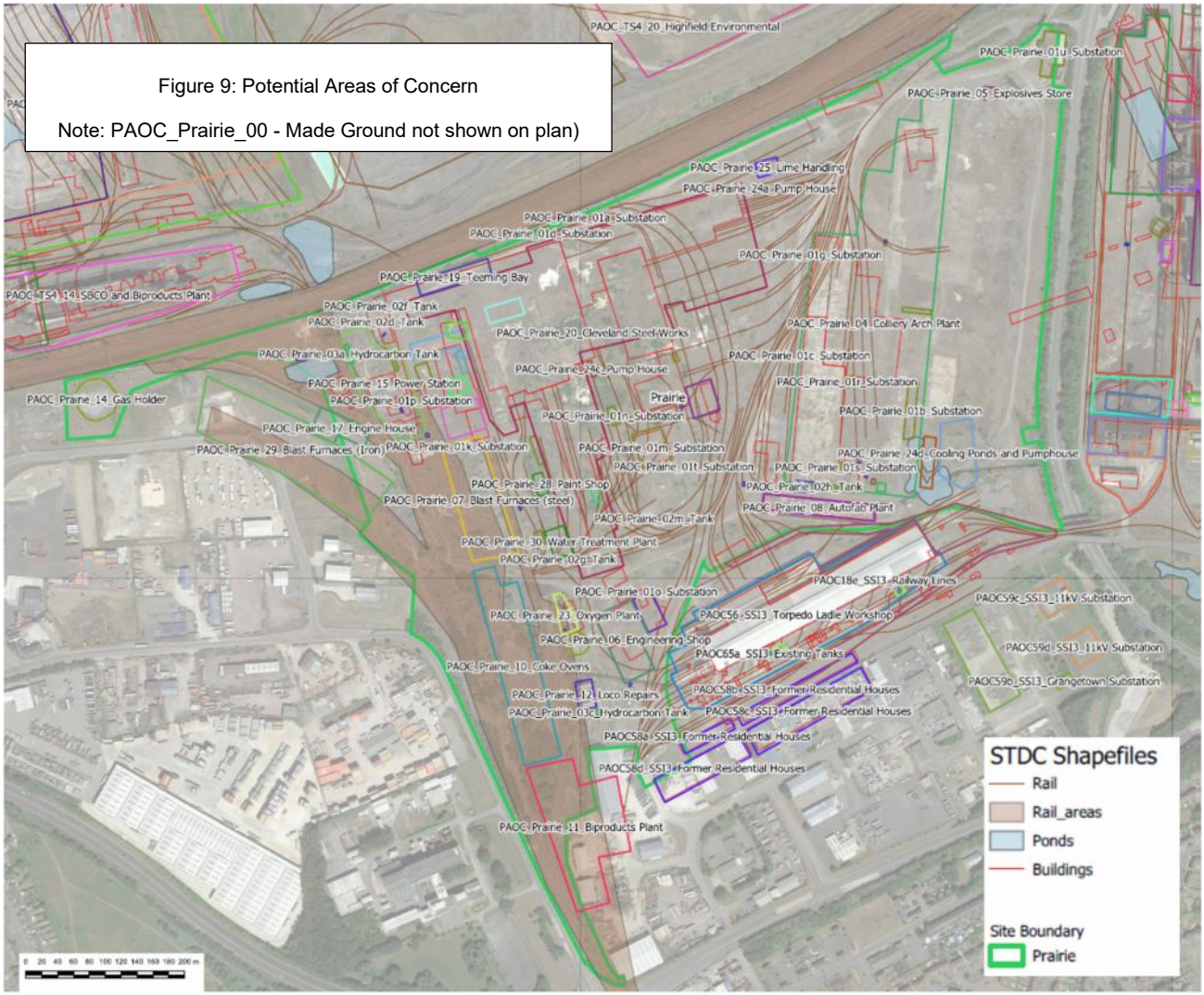


Figure 9: Potential Areas of Concern

Note: PAOC_Prairie_00 - Made Ground not shown on plan)

3 Environmental Site Condition Assessment

3.1 Introduction

This section summarises the findings of Section 2 in the form of a geo-environmental conceptual site model (CSM).

The CSM allows a qualitative evaluation of potentially active “pollutant linkages” at the site; these being plausible scenarios whereby a contamination source is connected to a possible receptor by one or more pathways:

- Potential sources of contamination: these include any actual or potentially contaminating materials and activities, located either on or in the vicinity of the site;
- Potential pathways for contamination migration: these comprise the routes or mechanisms by which contaminants may migrate from the source to the receptor including environmental migration pathways and human health exposure pathways; and
- Potential receptors of contamination: these include present and/or future land users, ecological systems, water resources and property.

The potential significance of these source-pathway-receptor linkages will be assessed in Section 4.

3.2 Contamination Sources

Based on the information reviewed in this report, the following potential contamination sources have been identified:

3.2.1 On-Site

On-site sources have been identified associated with Made Ground and potential contaminants of concern (CoC) associated with former site uses. The table below summarises the most significant potential on-site sources and the primary contaminants associated with these sources. The identified CoC are considered to represent those likely to be present from other less significant sources.

Potential On-Site sources	Primary Contaminants
Made Ground including Slag deposits	Metals including heavy metals and refractory materials, polycyclic aromatic hydrocarbons (PAHs), cyanide, thiocyanate, sulphate, pH, ammonia, and asbestos. Potential source of ground gas if found to be have a high organic content.
Coke Ovens and Biproducts Plant	Metals, asbestos, petroleum hydrocarbons (TPH) including tars, PAH, cyanides, thiocyanate, volatile organic compounds (VOCs), semi volatile organic compounds (SVOCs), chloride, ammonia, sulphate, pH
Iron and steel making facilities	Metals, asbestos, TPH, PAH, cyanides, thiocyanate, SVOCs, chloride, ammonia, sulphate, pH
Workshops, laboratories, and maintenance facilities	Metals, asbestos, TPH, PAH, acids and bases, VOCs, SVOCs, pH
Railways and sidings	Metals, asbestos, TPH, PAH, VOC, SVOC, and pH.
Above Ground Storage tanks (various)	TPH, PAH, pH.
Power station	Metals, asbestos, TPH, PAH, VOC, SVOC, polychlorinated biphenyls (PCB), and pH.

Potential On-Site sources	Primary Contaminants
Transformers	Hydrocarbons and PCBs
Infilled reservoir	Metals, asbestos, TPH including tars, PAH, cyanides, thiocyanate, VOCs, SVOCs, chloride, ammonia, sulphate, pH. Potential source of ground gas if found to be have a high organic content.

3.2.2 Off-Site

Potentially contaminative land uses have been identified in the vicinity of the site, the most pertinent of which are presented in the table with potentially associated contaminants. The identified CoC are considered to represent those likely to be present from other less significant sources.

Potential On-Site sources	Primary Contaminants
High Tip and Highfield Environmental	Metals, TPH, PAHs, VOC, SVOC, cyanide, thiocyanate, sulphate, pH, ammonia, asbestos, and ground gas.
Railway lines and sidings	Metals, asbestos, TPH, PAH, VOC, SVOC, PCB, and pH.
SBCO	Metals, asbestos, TPH including tars, PAH, cyanides, thiocyanate, VOCs, SVOCs, chloride, ammonia, sulphate, pH
Cleveland Biproducts Plant (portion now beyond the STDC boundary)	Metals, asbestos, TPH including tars, PAH, cyanides, thiocyanate, VOCs, SVOCs, chloride, ammonia, sulphate, pH
SSI3A Area - TLRS	Based on a review of investigation works by Arcadis in 2017 and 2018 the following CoC are considered to pose a potential risk to the site Human Health - Asbestos fibres in Made Ground. Water resources – Metals, ammoniacal nitrogen and PAH
SSI3B Area – BOS CONCAST Plant	Based on a review of investigation works by Arcadis in 2017 and 2018 the following CoC are considered to pose a potential risk to the site Human Health - Asbestos fibres in Made Ground. Water resources – Metals, ammoniacal nitrogen and PAH

Contaminants of concern in green are of low mobility and have therefore been discounted for the sources in question based on the distance from the site.

Based on the inferred groundwater flow direction and position relative to the site the most likely source of off-site contamination with the potential to impact the site is considered to be the portion of the Cleveland Coke Ovens Biproducts Plant now located to the south east. The risk of CoC from the High Tip, Highfield Environmental, SBCO, railway, and BOS CONCAST Plant migrating onto site are considered low.

3.3 Contamination Sources Assessment

The contamination assessment will be undertaken in two ways – contaminants that are dependent upon the material composition (e.g. metals, inorganics, asbestos and PAHs) will be assessed separately for each material type and contaminants that are associated with a particular point source (e.g. hydrocarbons) will be assessed based on the likely source.

A summary of the analytical data and statistical analysis is presented as Appendix D. Laboratory certificates will be presented as part of the AEG factual report when available, draft certificates are presented as Appendix E

3.3.1 Non Aqueous Phase Liquid

A non-aqueous phase liquid (NAPL) was identified in the following locations during the site investigation.

Location	Geology	Description
Prairie_AUK_TP114 (0.9m bgl)	Made Ground	Tar noted within and surrounding a clay pipe
Prairie_AUK_TP142 (1.5m bgl)	Made Ground	Globules of oil noted in perched water. Water perched on fine silt overlaying concrete slab.
Prairie_AUK_TP175 (0.6mbgl)	Made Ground	Tar noted within and surrounding a clay pipe
Prairie_AUK_TP179 (1.4mbgl)	Made Ground	NAPL noted at the base of the made ground potentially associated with a relic slab / railway structure adjacent to the coke oven slab (Plate 3).
Prairie_AUK_TP182 (0.9mbgl)	Made Ground	NAPL noted at the base of the made ground potentially associated with a relic slab / railway structure adjacent to the coke oven slab.

Plate 3 – Prairie_AUK_TP179

Location	Geology	Description
Prairie_AUK_TP194A (1.4mbgl)	Made Ground	NAPL noted at the base of the made ground

Sheens were noted in the following locations:

- Prairie_AUK_TP174 and
- Prairie_AUK_TP153.

NAPL has been identified in the following locations by third parties

Location	Geology	Description
Enviros CCOT4 (1.5-1.5mbgl)	Made Ground	Associated with made ground at the coke ovens. Potentially perched on natural deposits.
Enviros CCOT5 (0.5-1.5mbgl)	Made Ground	Associated with made ground at the coke ovens.
Enviros CCOT10 (0.0-1.2mbgl)	Made Ground	Associated with made ground at the coke ovens.
Enviros WS11 (1.2-1.6mbgl)	Made Ground	Coke works – NAPL associated with perched groundwater at base of the made ground.
Enviros WS12 (0.5-0.8mbgl)	Tidal Flat Deposits	Biproducts Plant - NAPL associated with perched groundwater.
Enviros TP22 (0.7-0.9mbgl)	Made Ground	Coke Ovens - NAPL associated with perched groundwater at base of the made ground.
Enviros TP26 (0.7mbgl)	Made Ground	Engineering Shop - NAPL associated with perched groundwater at base of the made ground
Enviros TP29 (0.8-1.1mbgl)	Made Ground	Engineering Shop - - NAPL associated with perched groundwater at base of the made ground
Enviros TP30 (0.7-0.9mbgl)	Made Ground	Coke Ovens - NAPL associated with perched groundwater at base of the made ground
Enviros TP33 (0.2-0.5 and 1.0-1.mbgl)	Made Ground	Coke Ovens - NAPL associated with seepage in made ground and with relic structures.
Enviros TP34 (0.4-0.8 and 3.5-3.9mbgl)	Made Ground	Biproducts Plant - NAPL associated with seepage in made ground.
Enviros TP35 (0.5-0.8mbgl)	Made Ground	Biproducts Plant - NAPL associated with perched groundwater at base of the made ground
Enviros TP36 (0.9mbgl)	Made Ground	Biproducts Plant - NAPL associated with perched groundwater within made ground

A plan showing the locations where NAPL was identified in presented as Figure 9 and in Appendix A. Sheens were noted in the following locations by Enviros in 2007: TP12, TP13, TP17, and TP19.

Figure 10: Locations Where NAPL Identified

3.3.2 Made Ground

Asbestos

Asbestos was identified in thirty one samples of Made Ground , and was quantified at between <0.001 and 0.02%.. A plan showing the asbestos detections at the site is presented as Figure 10 and in Appendix A.

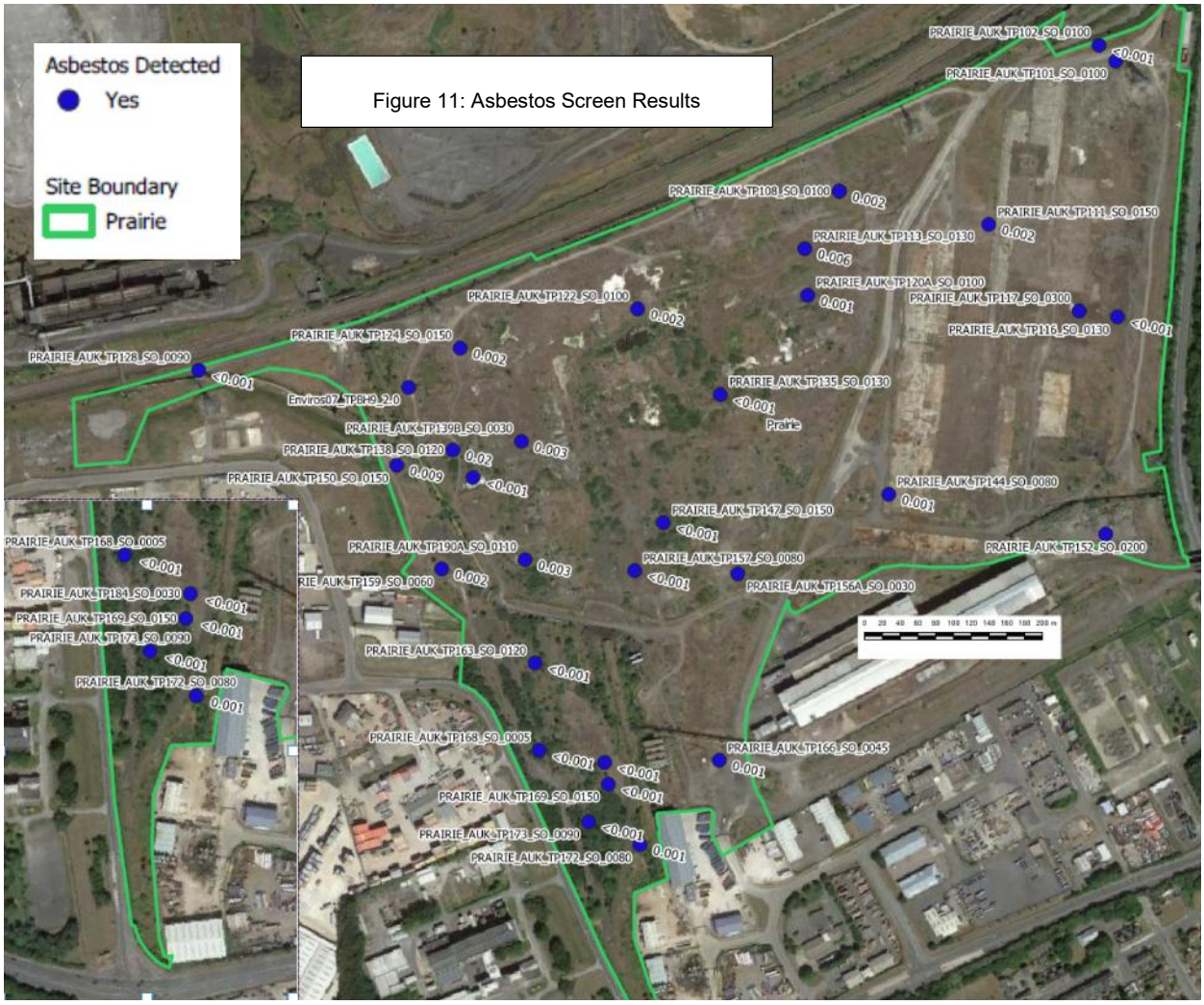


Figure 11: Asbestos Screen Results

Metals and Inorganics

With the exception of hexavalent chromium, the metals analysed were detected in the majority of the soil samples taken from the made ground. Statistical analysis indicates that the metal and inorganic ion distribution across the site within the three types of Made Ground deposit (slag dominant deposits, granular and cohesive Made Ground) are relatively consistent, within the same order of magnitude. Typically, metals concentrations were higher in slag dominant deposits and granular made ground compared to cohesive Made ground.

Detectable levels of cyanide and soluble sulphate were frequently detected across the site. Cyanide concentrations were typically higher in granular made ground and sulphate concentrations were on average higher in slag dominant made ground. Soil samples ranged from alkaline 9.7 (slag dominant Made Ground) to neutral 7.5 (granular Made Ground).

Leachability testing showed the majority of metals were present in the leachate from made ground samples. Leached concentrations of metals were noted in all samples tested with arsenic, barium, magnesium, and manganese leaching in all samples. The pH of leachate samples was noted to generally be slightly alkaline and lower than the corresponding soil samples.

A summary of the analytical data is presented as Appendix D.

Polycyclic Aromatic Hydrocarbons

Concentrations of PAH were measured in 90 of the 101 samples analysed. Statistical analysis indicates that, within granular made ground, PAH concentrations were an order of magnitude higher than within slag dominant Made Ground. Concentrations of PAH measured in cohesive Made Ground were a further order of magnitude lower and where detected were measured at levels close to the method detection limit (MDL).

Leached concentrations of PAH were measured in all samples analysed and comprised a broad range of both light, mid and heavy end compounds.

Total Petroleum Hydrocarbons

Concentrations of TPH were detected above the MDL in approximately half of soil samples. The following samples reported concentrations of above 1,000mg/kg:

- Elevated concentration of TPH were identified in Prairie_AUK_TPH175 (3,900mg/kg at 0.8mbgl), Prairie_AUK_TPH182 (4,700mg/kg at 0.9mbgl) , Prairie_AUK_TPH194 (790mg/kg at 1.4mbgl), and Prairie_AUK_TPH196 (11,000mg/kg at 1.4mbgl). The analysis indicated the contamination was heavy end hydrocarbons of limited volatility. The PID readings for the locations were <10ppm with the exception of Prairie_AUK_TPH175 where a reading of 101.1ppm was recorded. Leachability testing identified TPH in leachate. The concentrations are inferred to be associated with the former Cleveland Coke Ovens and Biproducts Plant.
- An elevated concentration of TPH (1,700mg/kg) was measured in Prairie_AUK_TPH128 (0.9m bgl). The analysis indicated the contamination was heavy end hydrocarbons of limited volatility. This is corroborated as no elevated reading (>10ppm) was measured by a photo ionisation detector during field screening. Leachability testing identified TPH in leachate. This sample is associated with backfill around a redundant service encountered in the trial pit.
- Elevated concentrations of TPH were identified in Prairie_AUK_TPH142 (3,800mg/kg at 1.54mbgl and 8,700mg/kg at 0.9mbgl), and Prairie_AUK_TPH141 (15,000mg/kg at 2.0mbgl). The analysis indicated the contamination was heavy end hydrocarbons of limited volatility. This is corroborated as no elevated reading (>10ppm) was measured by a photo ionisation detector during field screening. Leachability testing identified TPH in leachate. The concentrations are inferred to be associated with a former water treatment plant.
- An elevated concentration of TPH (1,300mg/kg) was measured in Prairie_AUK_TPH114 (0.9m bgl), the analysis indicated the contamination was heavy end hydrocarbons of limited volatility. This is corroborated as no elevated reading (>10ppm) was measured by a photo ionisation detector during field screening. Leachability testing identified TPH in leachate. This sample is associated with backfill around a redundant service which was noted to contain tar like material encountered in the trial pit.
- An elevated concentration of TPH (910mg/kg) was measured in Prairie_AUK_TPH120A (1.0m bgl), the analysis indicated the contamination was heavy end hydrocarbons of limited volatility. This is corroborated as no elevated reading (>10ppm) was measured by a photo ionisation detector during field screening.
- An elevated concentration of TPH (730mg/kg) was measured in Prairie_AUK_TPH123 (0.6m bgl), the analysis indicated the contamination was heavy end hydrocarbons of limited volatility. This is corroborated as no elevated reading (>10ppm) was measured by a photo ionisation detector during field screening.

The locations of elevated TPH C_5 to C_{35} are shown on Figure 12 and in Appendix A.

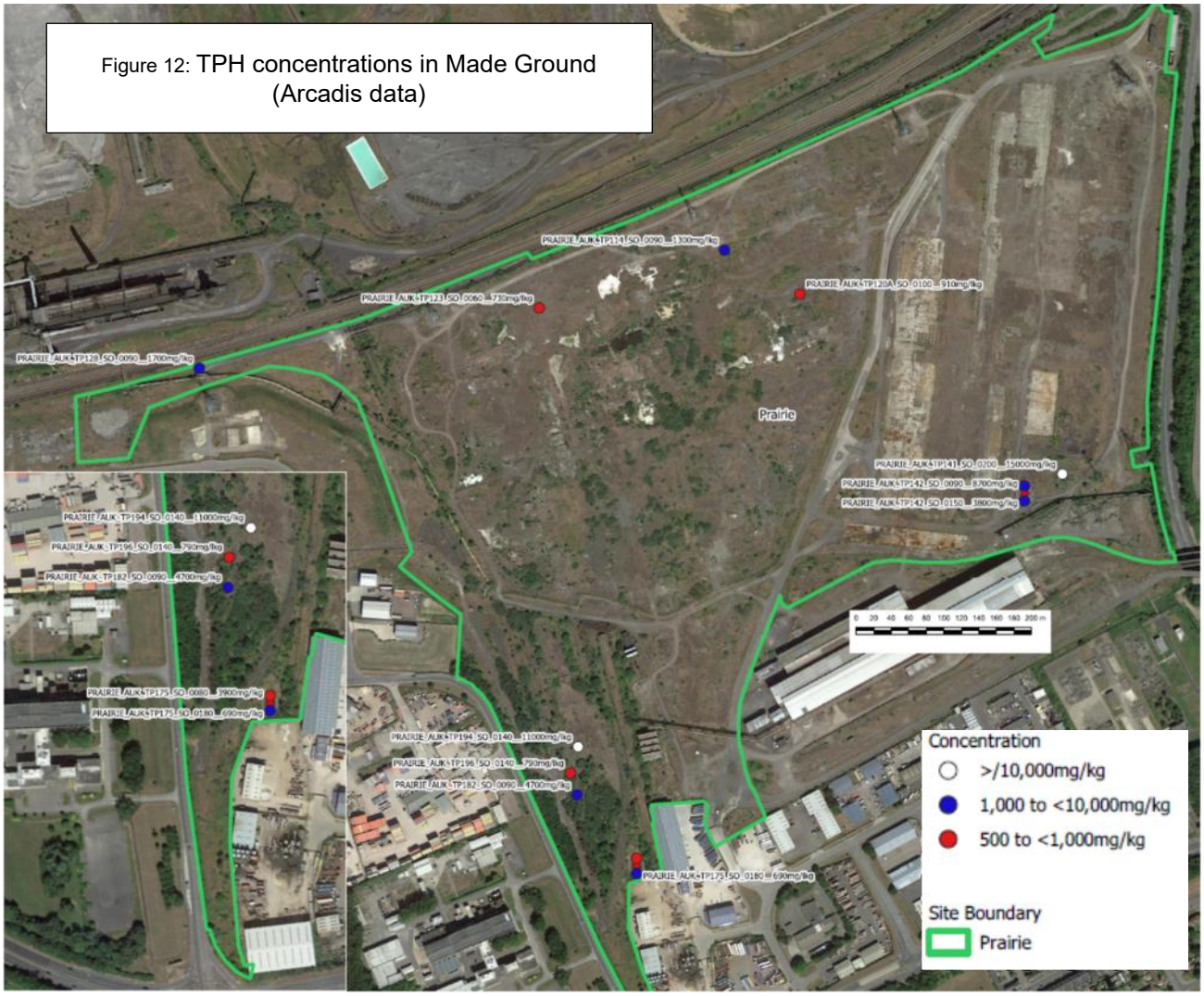


Figure 12: TPH concentrations in Made Ground (Arcadis data)

The locations of elevated TPH C_{10} to C_{35} and extractable petroleum hydrocarbons C_{10} to C_{40} (EPH) in historical third party data are shown on Figure 13 and in Appendix A.

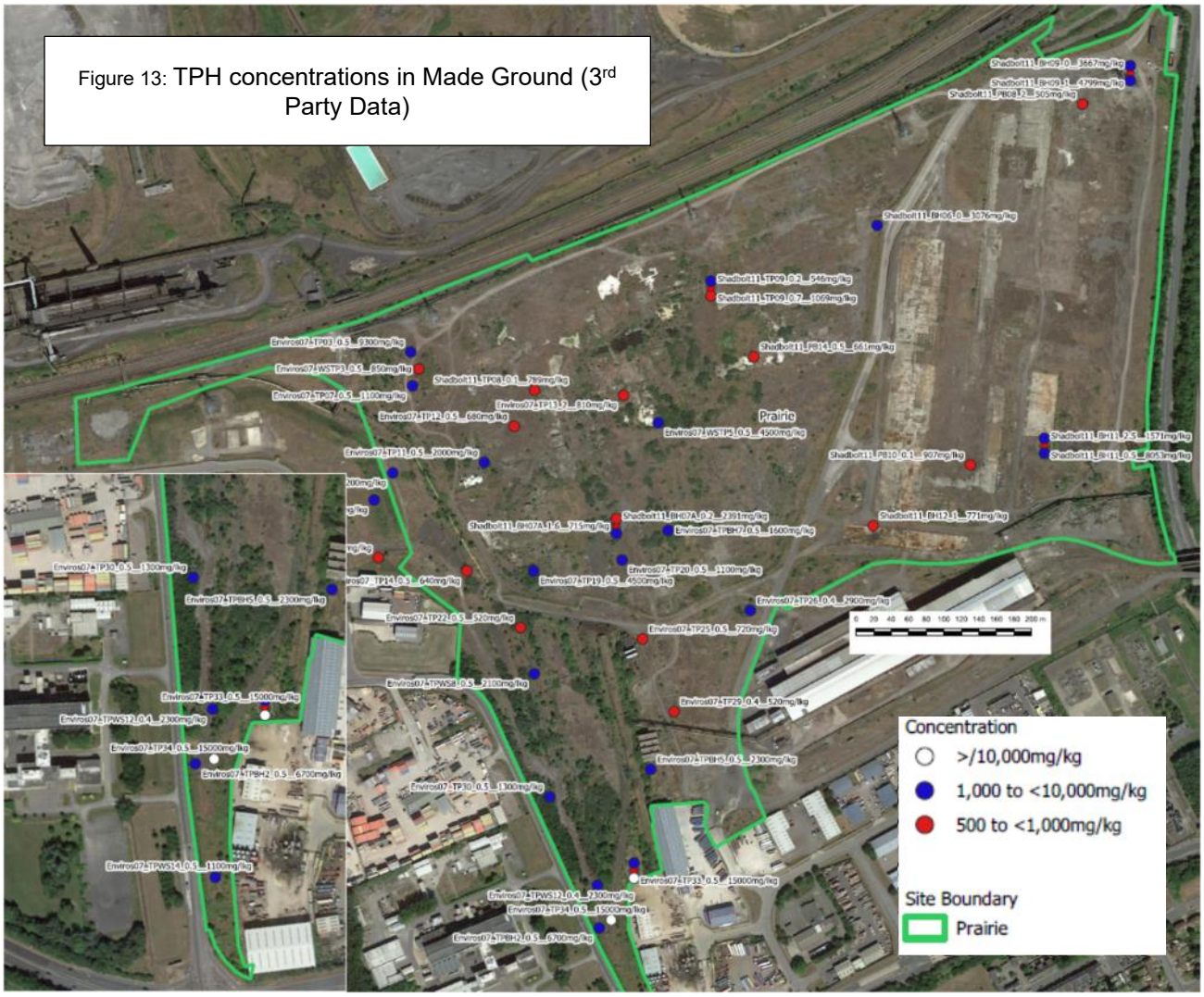


Figure 13: TPH concentrations in Made Ground (3rd Party Data)

Other Contaminants

Low levels of VOC, SVOC, and PCBs were measured infrequently in soil samples.

3.3.3 Superficial Deposits

Concentrations of metals within the Superficial Deposits were consistent between the different geological units. Statistical analysis indicates metals concentrations were generally lower than those observed in Made Ground. Where PAHs or TPH were detected they were generally measured only marginally above the MDL with the exception of samples collected from pits where the overlying Made Ground showed signs of significant contamination.

3.3.4 Groundwater

Seven wells are screened across the Superficial Deposits, four across bedrock and one across the Made Ground.

Metals and Inorganics

Metals were measured in all groundwater samples; metals boron, calcium, manganese, sodium, and iron were measured at the highest concentrations. Of note significantly elevated concentrations of barium were noted in Prairie_AUK_BH102 screened across the Made Ground, concentrations of manganese were also noted to be an order of magnitude lower in this location than elsewhere. Metals concentrations in the Superficial Deposits and bedrock were generally noted to be within the same order of magnitude.

Elevated levels of sulphate and chloride were measured in all samples. The pH of the groundwater in wells screened across natural deposits was neutral to slightly basic and ranged between pH7.4 and pH9.2 with the majority of the samples showing a pH<8. Groundwater from monitoring well Prairie_AUK_BH102 screened across Made Ground measured pH12.5 (basic).

Organics

Concentrations of TPH were measured in groundwater sampled from three monitoring wells: Prairie_AUK_BH104 (31µg/l), Prairie_AUK_BH109 (9,400µg/l) and Prairie_AUK_BH101S (40µg/l). Polycyclic aromatic hydrocarbons were the most frequent organic compounds detected measured in all monitoring wells at levels ranging from just above the limit of detection to 7,800µg/l Prairie_AUK_BH109.

Low levels of VOC primarily alkyl benzene derivatives were identified in groundwater sampled from Prairie_AUK_BH109 and Prairie_AUK_BH101S.

3.4 Pathways

Potential migration pathways based on a proposed commercial industrial end use are discussed below.

3.4.1 Airborne Migration Pathways

- The majority of the site is currently covered in soft landscaping, as such, particulate inhalation due to dust generation is a potentially active pathway if the hardstanding or buildings were not present across the site in a future development scenario.
- Vapour inhalation pathways in relation to contaminants in soil and groundwater are potentially active, both for an exposure scenario in outdoor or indoor air space
- During potential re-development works, sub-surface soils could be exposed at the surface due to trenching and or re-profiling requirements and therefore dust has the potential to be generated. Notwithstanding this, typical dust suppression techniques should be employed so that exposures would be minimised.
- Migration and accumulation of permanent ground gases originating from the made ground on site in confined spaces leading to asphyxiation and/or explosion is considered potentially active.

3.4.2 Direct Contact Exposure Pathways

- The proposed site surfacing under any potential re-development scenario is unknown, should a significant portion of the site area be covered in some form soft landscaping direct contact and ingestion pathways in relation to soil would be considered active. Given the likely depth to groundwater (approximately 2 to 3m bgl in natural deposits, <1m bgl in some Made Ground), direct contact pathways in relation to groundwater are not considered active for groundwater within the natural deposits but potentially active for perched water within the Made Ground.
- Direct contact pathways with soils could be active throughout a potential redevelopment; typical mitigation measures such as personal protective equipment (PPE; overalls, gloves etc.) could be used to mitigate this risk. If unexpected contamination were identified during redevelopment works, additional PPE may be required as mitigation.

3.4.3 Aqueous Migration Pathways

- Leaching of contaminants in the shallow soils to groundwater within the Superficial Deposits is considered potentially active
- Based the limited thickness of Glacial Till / Glaciolacustrine Deposits identified in some on-site boreholes between the Tidal Flat Deposits and the underlying bedrock the potential for vertical migration of contaminants to the underlying bedrock aquifers is considered potentially active.
- Given the granular nature of the identified and thickness of the Made Ground and the permeability of the Superficial Deposits lateral migration of off-site impacts onto the site from off-site PAOC is considered potentially active. The most likely source (Section 3.2.2) would be impacts associated with the former Cleveland Coke Ovens Biproducts Plant now located south of the site boundary.
- Lateral migration of on-site impacts towards the Holme Beck and Knitting Wife Beck watercourses is considered potentially active given the identified thickness and nature of the Made Ground and the

permeability of the Superficial Deposits. The potential for infiltration of CoC into open sections of the Holm Beck via surface runoff or migration of rainfall through the made ground is considered active.

- Vertical migration of impacts down relic foundation piles is considered potentially active.

3.5 Receptors

With reference to Part 2a of the Environmental Protection Act (1990), the potential receptors to be considered in any contaminated land scenario can be summarised as follows:

3.5.1 Human Health

For the purposes of this assessment it is assumed that the proposed development will comprise a commercial or industrial end use, and as such commercial and industrial workers are the primary receptor of concern for any contamination risk. The risk would be influenced by the duration and location of the staff work regimes.

Users of the adjacent buildings (industrial workers and neighbouring residents) could also be at risk. However, for exposure to occur, active cross-boundary migration pathways would be required. It is noted that the neighbouring residents are situated approximately 70m hydraulically upgradient of the site, as such are not considered to be at significant risk from the site.

3.5.2 Property (buildings, etc)

The proposed development will include new structures and associated infrastructure, which could be subject to potential sulphate attack in relation to buried concrete. Given the presence of slag deposits within the Made Ground the potential for expansive slag to impact structures is considered active.

3.5.3 Controlled Water

Groundwater is a Controlled Water; therefore, the groundwater beneath the site requires consideration and protection. At this site, the underlying geology comprises Tidal Flat Deposits which are classified as a Secondary (A) Aquifer, the Mercia Mudstone Formation classified as a Secondary (B) Aquifer, and the Redcar Mudstone Formation / Penarth Group classified as a Secondary (Undifferentiated) Aquifers all of which are considered groundwater receptors at the site. The Glacial Till and Glaciolacustrine Deposits which underly the Tidal Flat Deposits and overly the bedrock are not classed as aquifers by the Environment Agency.

Surface water courses are also considered Controlled Water receptors; given the presence of the Holme and Knitting Wife Becks crossing the site these are considered the primary surface water receptors and the most sensitive receptors for the site, albeit noting that the presence of culverting will impact upon the actual risk presented.

3.5.4 Ecological

The Teesmouth and Cleveland Coast SSSI which includes a section of the River Tees is located approximately 745m north of the Site, and within 2km north west and south west of the area. The Teesmouth and Cleveland Coast is also designated as an SPA and RAMSAR.

Based on the distance from the site the risk to ecological receptors is considered low. In addition potential discharges from the site to the Teesmouth and Cleveland Coast SPA and RAMSAR via the River Tees are likely to be limited by tidal exchange and the large volume of the River Tees receiving water. This is in line with the findings of Wood 2019.

3.6 Obstructions

Frequent relic structures presented issues with progression of a number of the exploratory holes during the course of the investigation It should be noted that further obstructions may be encountered in areas not investigated.

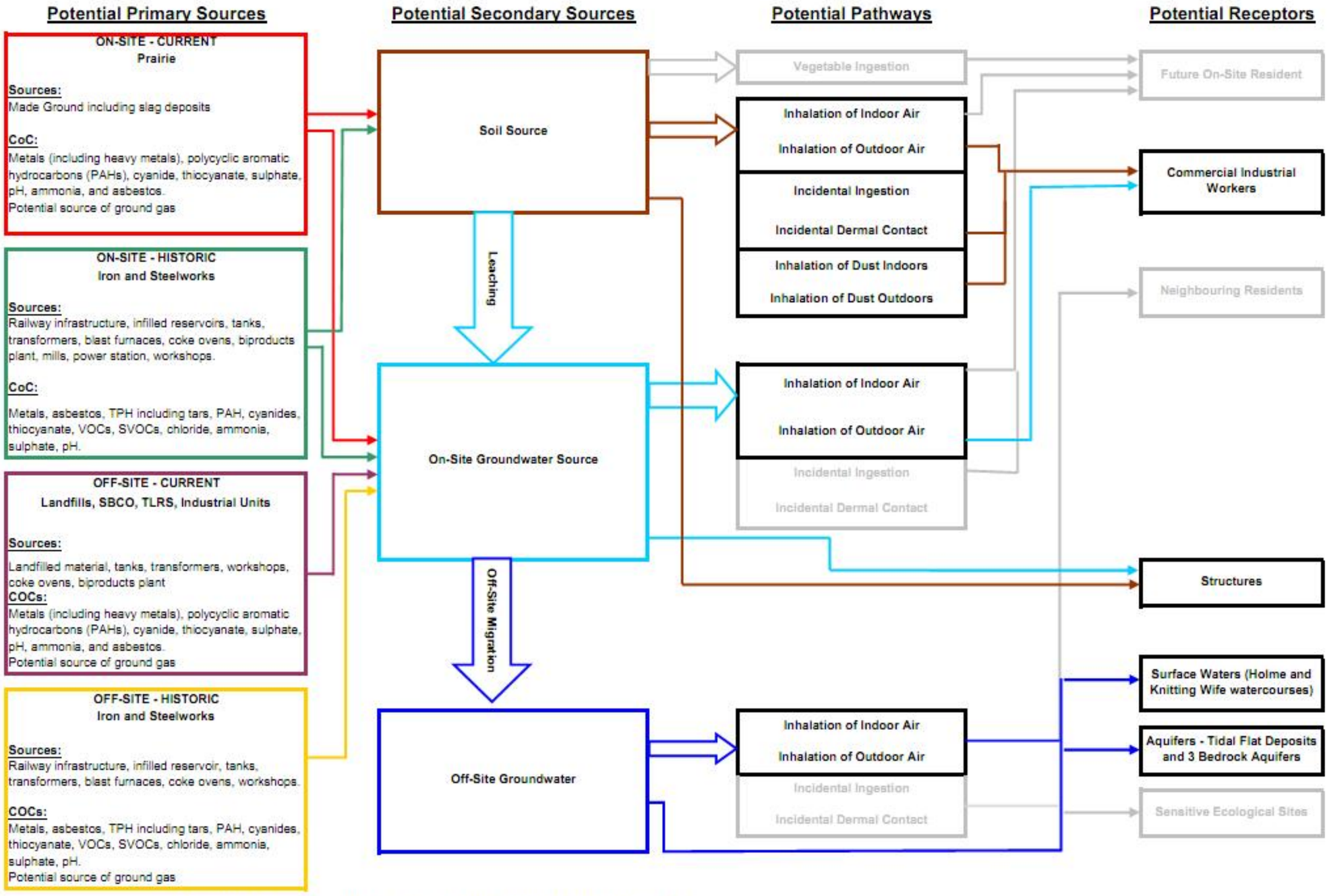
3.7 Slag Testing Data

Petrographic and expansion examination was conducted on five samples from the site, the results are were not compete due to Covid-19 restrictions at the time of issue, this will be presented in an updated report.

3.8 Conceptual Site Model

The above data has been used to produce a CSM for the site, this is presented below as Figure 14 and in Appendix A..

Figure 14
Outline Conceptual Site Model - Commercial Industrial End Use



4 Generic Quantitative Risk Assessment

4.1 Tiered Approach

The purpose of this assessment is to quantify potential risks to the human health, controlled waters and built receptors identified in the CSM in relation to the redevelopment of the site for a continued commercial/industrial use.

The following scenarios are not considered in this section:

- Risks to Construction Workers – any redevelopment and construction work should be conducted in full recognition of HS(G)66.
- Nuisance health effects – the Statutory Nuisance Act considered olfactory impacts from odours and allows comparison of enclosed space air concentrations with odour threshold concentrations.
- An assessment of the geotechnical development constraints which is outside the scope of this document.

Assessment of risks arising from soil and groundwater contamination are assessed in accordance with the framework presented in Contaminated Land Report 11 (CLR 11) (EA, 2004) and Land Contamination: Risk Management (LC:RM) (EA, 2020). This sets out a tiered approach to risk assessment comprising:

- Generic Quantitative Risk Assessment (GQRA) - Comparison of site contaminant levels against generic standards and compliance criteria including an assessment of risk using a source-pathway-receptor model.
- Detailed Quantitative Risk Assessment (DQRA) - Derivation of site-specific risk assessment criteria and calculation of site specific clean-up goals.

In this section, a GQRA has been carried out. The potential identified pollutant linkages identified in the preliminary CSM for human health and controlled water receptors have been assessed by comparison against relevant generic assessment criteria (GAC). These have been derived using conservative assumptions to enable potential pollutant pathways that do not pose unacceptable risks to be identified and discounted. Exceedance of a GAC does not imply that an unacceptable risk is necessarily present, rather that further assessment may be required to verify the potential risk.

It is assumed that the site will be redeveloped as a typical commercial industrial development comprising office buildings, hardstanding and some areas of soft landscaping. The site has not been zoned at this stage and all data has been considered on an individual sample basis.

4.2 Human Health Risks

4.2.1 Selection of Soil GAC

Potentially active pollutant linkages and contaminants of concern (CoC) in relation to human health risks have been identified in the initial CSM as:

A. Vapour inhalation of indoor and outdoor air from volatile contamination in soils, (potential CoC include volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs)),

B. Vapour inhalation of indoor and outdoor air from volatile contamination in shallow groundwater, (potential CoC include VOCs and SVOCs)

C. Dermal contact/ingestion of soil (potential CoC include heavy metals, organic/inorganic compounds)

D. Dust inhalation (potential CoC include asbestos and heavy metals)

For the purposes of this assessment it is assumed that the proposed refurbishment / re-development will comprise a commercial or industrial end use and, as such, commercial and industrial workers are the primary receptor of concern for any contamination risk. The risk would be influenced by the duration and location of

the staff work regimes. For the basis of this assessment, it is assumed that site workers will be on-site for a "standard" 8 hour working day.

Commercial end use assumes a pre-1970s commercial property is present at the site with some open areas uncovered by hardstanding and is therefore regarded as conservative for a redevelopment scenario as new structures are assumed to be constructed to current standards.

To assess potential linkages A, C and D above, GAC have been chosen, based on an assumed industrial/commercial end use. Criteria published by authoritative industry bodies and commonly accepted by regulators for use under the planning regime for development sites have been used first. For contaminants for which no published values are available, Arcadis derived criteria (developed following the CLEA framework (v1.07)) or foreign national criteria have been used.

The GAC comprise (in order of priority):

- LQM/CIEH Suitable for Use Levels (S4UL) (LQM / CIEH, 2015),
- Department of Environment Food and Rural Affairs (DEFRA) Category 4 Screening Levels (C4SL) (DEFRA, 2012),
- Arcadis derived generic assessment criteria based on CLEA v1.07,
- United States Environmental Protection Agency (U.S. EPA) Regional Screening Levels (RSLs) (USEPA, 2018)

Wood derived GAC based on CLEA v1.07 which were presented in the Wood 2019 report for benzo(a)pyrene and naphthalene. It is understood that these values were acceptable to the regulator for this site and as such they have been retained here.

Soil organic matter recorded in 117No. soil samples obtained from the site ranged from 0.4 to 14%. The organic matter analysis indicated mean values of 1.7% in slag dominant Made Ground, 2.85% in cohesive Made Ground, and 3.7% granular Made Ground. As such, the S4UL selected as GAC are those for a commercial end use assuming a soil organic matter (SOM) content of 1% (suitably conservative).

The selected human health GAC for soil are presented in Appendix F:

4.2.2 Soil Risk Assessment

Contaminant concentrations in soil samples have been compared with the soil GAC in Appendix F. Contaminants which are in excess of the GAC are summarised below. Contaminants that are not in excess of the respective GAC are not considered to present a significant risk and do not require further assessment in relation to the redevelopment of the site unless the above assumptions are not valid.

The following samples were analysed:

- 15 No. samples of slag-dominated Made Ground
- 77 No. samples of granular Made Ground
- 6 No. samples of cohesive Made Ground
- 10 No. samples of Tidal Flat Deposits
- 6 No. samples of Glaciolacustrine Deposits
- 2 No. samples of Glacial Till

Eight of the samples were granular Made Ground and 2No. samples were slag-dominated Made Ground and one from the Tidal Flat Deposits. Samples tested were taken across the site from depths ranging from surface to 5.4m bgl. Contaminant concentrations that exceeded the GAC are listed below.

Contaminant	Unit	No. Samples Exceeding	GAC Exceeded		Sample (Geology)	Concentration (mg/kg)
Arsenic	mg/kg	1/117	S4UL	640	PRAIRIE_AUK_TP162_SO_0170	2,100
Naphthalene	mg/kg	2/117	Wood	1,900	PRAIRIE_AUK_TP114_SO_0090 PRAIRIE_AUK_TP182_SO_0090	37,000 3,500
Phenanthrene	mg/kg	1/117	S4UL	22,000	PRAIRIE_AUK_TP114_SO_0090	22,000
Benzo(a)anthracene	mg/kg	1/117	S4UL	170	PRAIRIE_AUK_TP114_SO_0090	4,600
Chrysene	mg/kg	1/117	S4UL	350	PRAIRIE_AUK_TP114_SO_0090	3,600
Benzo(b)fluoranthene	mg/kg	1/117	S4UL	44	PRAIRIE_AUK_TP114_SO_0090	91
Benzo(a)pyrene	mg/kg	2/117	Wood	77	PRAIRIE_AUK_TP114_SO_0090 PRAIRIE_AUK_TP175_SO_0080	92 120
Dibenzo(a,h)anthracene	mg/kg	2/117	S4UL	3.5	PRAIRIE_AUK_TP114_SO_0090 PRAIRIE_AUK_TP175_SO_0080	8.4 15
Dibenzofuran	mg/kg	1/117	USEPA	1,000	PRAIRIE_AUK_TP114_SO_0090	3,300

Contaminants for which no screening criteria were available have been reviewed. Most contaminants were recorded below the method detection limit (MDL) in all soil samples.

Contaminants measured in soil at concentrations above MDL, for which no screening criteria were available were: aluminium, iron, magnesium, manganese, silicon, total cyanide, sulphate, sulphur, some PCBs, isopropylbenzene, p-isopropyltoluene and carbozole. Potential human health risks from these are qualitatively assessed in Section 4.2.6.

Contaminant concentrations that exceeded the GAC are shown on Figure 15 in Appendix A. Maximum recorded concentrations in soil for all contaminants are listed in Appendix F.

4.2.2.1 Third Party Historical Data

Contaminant concentrations in soil samples collected as part of historical site investigations have been compared with the soil GAC in Appendix F. Contaminants which were measured in excess of the GAC are summarised below. Contaminants that do not exceed the respective GAC are not considered to be present a significant risk and do not require further assessment in relation to the redevelopment of the site unless the above assumptions are not valid.

Contaminant	Unit	GAC Exceeded		Sample	Concentration (mg/kg)
Benzo(a)anthracene	mg/kg	S4UL	170	Enviros 2007 TP34 (0.5mbgl)	180
Benzo(b)fluoranthene	mg/kg	S4UL	44	Enviros 2007 TP34 (0.5mbgl)	210
Benzo(a)pyrene	mg/kg	S4UL Wood	35 77	Enviros 2007 TP34 (0.5mbgl) Shadbolt 2011 BH07A (0.2mbgl)	140 42.4
Dibenzo(a,h)anthracene	mg/kg	S4UL	3.5	Enviros 2007 TP34 (0.5mbgl)	23

Contaminant	Unit	GAC Exceeded		Sample	Concentration (mg/kg)
				Enviros 2007 TP7 (0.5mbgl)	4.5
				Enviros 2007 TP/WS4 (0.5mbgl)	4.3
				Shadbolt 2011 BH07A (0.2mbgl)	10.5
				Shadbolt 2011 BH11 (0.5mbgl)	4.4

The concentrations measured by third parties in excess of the GAC were all PAHs and are in line with the 2020 data collected by Arcadis. Contaminant concentrations that exceeded the GAC are shown on Figure 15 in Appendix A.

4.2.3 Selection of Groundwater GAC

To assess the potential risk to human health via pollutant linkage B above (inhalation of volatile contaminants in groundwater), inhalation GAC have been derived by Arcadis for volatile contaminants in groundwater.

These have been derived by Arcadis using the CLEA process and industry standard vapour transport modelling (Johnson & Ettinger model). The same assumptions relating to a commercial end use of the site have been included in the model and an on-site commercial worker has been considered as the receptor.

The inhalation GAC are listed in Appendix G and H.

4.2.4 Groundwater Risk Assessment

Concentrations of volatile contaminants in 12 groundwater samples were screened against the inhalation GAC described above (where GAC have been derived).

The vapour inhalation GAC are designed to determine whether there is a significant risk of harm to human health from inhaling volatile contaminants emanating from groundwater beneath the site (potential pollutant linkage B in the preliminary CSM in Section 4.2).

None of the concentrations of volatile contaminants measured in groundwater were in excess of the inhalation GAC for on-site commercial workers. As such, the risk to human health from measured concentrations of CoC in groundwater is not considered to be significant.

Volatile contaminants for which no GAC are readily available and which were measured above MDL were styrene, isopropylbenzene, 2-chlorotoluene, 1,3,4-trimethylbenzene, 1,2,4-trimethylbenzene and 1,2-dibromo-3-chloropropane. The risk to human health from these contaminants will be considered further in Section 4.2.7.

4.2.5 Asbestos in Soil

A total of 117No. soils samples were screened by polarised light microscopy in accordance with HSG248 for the presence of asbestos (HSE, 2005). In 31No. samples asbestos was detected as bundles of fibres (chrysotile and amosite).

Quantification of the asbestos was carried out on 31No. samples by gravimetric methods, the samples recorded asbestos mass between <0.001% and 0.020%. The distribution of asbestos detections is shown on Figure 9 in Appendix A.

The presence of quantifiable levels of asbestos in soil warrants further consideration. Asbestos in shallow soils in areas without buildings or hardstanding has the potential to become airborne and available for inhalation, particularly during construction, posing chronic risks to human health.

4.2.6 Qualitative Risk Assessment for Substances in Soil without GACs

As shown in Appendix F, several contaminants including PCBs, some metals, inorganics, VOCs and SVOCs do not have a GAC available, the majority were recorded at less than the MDL in all soil samples. Based on a review of the MDLs, these are not considered to pose a significant risk, especially given the relatively low MDLs obtained.

The following did not have a GAC and were recorded at concentrations in excess of their MDL: aluminium, iron, magnesium, manganese, silicon, total cyanide, sulphate, sulphur, some PCBs, isopropylbenzene, p-isopropyltoluene and carbozole. Of these, aluminium, iron, magnesium, manganese, silicon, sulphate and sulphur are present naturally in soil and some are biologically required nutrients. They may be elevated above natural levels where slag and other steelmaking wastes are incorporated into soil due to the site's former use, particularly manganese and iron. However, regardless of these elevations, their typically low toxicity is likely to mean these occurrences present a low risk of adverse harm following development, in particular if the ground is covered by buildings, hardstanding or permanent landscaping.

Some contaminants, such as total cyanide, can be assessed under other GAC for higher toxicity contaminants, such as the one for free cyanide for a conservative estimate of risk. Concentrations of total cyanide are in excess of the GAC and as such require further consideration in Section 4.2.8.

PCBs were measured above MDL in three samples of Made Ground collected from the site up to two orders of magnitude above the MDL. As such further consideration will be given to concentrations of PCBs in Section 4.2.8.

The VOCs isopropylbenzene and p-isopropyltoluene were detected marginally above MDL (within an order of magnitude of the MDL). Given the concentrations measured, these contaminants are not considered to represent a significant risk to human health.

Carbazole was detected above MDL in 12 of 23 soil samples analysed. It is indicative of incomplete combustion products and therefore consistent with the presence of steelmaking wastes. Given the distribution of the contaminant in the soil samples and that the maximum concentration measured in several orders of magnitude above the MDL, further consideration will be given to concentrations of carbazole in Section 4.2.8.

It is noted that substances analysed for as part of this investigation without GACs are typically considered to be those with low known toxicity, or incomplete toxicity information. In the absence of suitable toxicity information, the applicable regulators have not defined screening values. As such, further action with regards to these substances is unlikely to be mandated by the local authority, and the below recommendations are likely to adequately manage the risk to human health and the environment.

Other effects, such as phytotoxicity, are not assessed as the Made Ground is likely to be unsuitable as a growing medium and some form of capping with "clean" soil is likely to be incorporated into the development.

4.2.7 Qualitative Risk Assessment for Substances in Groundwater Without GAC

As shown in Appendix G, several contaminants including some metals and VOCs do not have a GAC available. Many were not measured above MDL in groundwater. Based on a review of the MDLs, these are not considered to pose a significant risk, especially given the relatively low MDLs obtained.

The following did not have a GAC and were recorded at concentrations in excess of their MDL: styrene, isopropylbenzene, 2-chlorotoluene, 1,3,4-trimethylbenzene, 1,2,4-trimethylbenzene and 1,2-dibromo-3-chloropropane. Of the 6 contaminants, 3 were measured at concentrations marginally in excess of the MDL (within the same order of magnitude) and as such are not considered to represent a significant risk to human health (styrene, isopropylbenzene, 2-chlorotoluene).

1,3,4-trimethylbenzene and 1,2,4-trimethylbenzene are both compounds which are typically found in hydrocarbon fuels. Both compounds were measured above MDL in one groundwater sample only, taken from BH109. The maximum concentration of TPH was identified in the same groundwater sample. On this basis it is likely that both 1,3,4-trimethylbenzene and 1,2,4-trimethylbenzene are related to TPH and as such, TPH and BTEX compounds are appropriate as indicator compounds to indicate the risk to human health. Concentrations of TPH and BTEX compounds have not been identified above the GAC derived for the protection of human health, as such the risk to human health receptors from 1,3,4-trimethylbenzene and 1,2,4-trimethylbenzene is considered to be low.

1,2-dibromo-3-chloropropane was measured at concentrations an order of magnitude greater than the MDL in groundwater sampled from one location screening the Glaciolacustrine Deposits (BH101S). Given the concentration is relatively low (two orders of magnitude lower than the lowest GAC available for VOC) and that the compound appears to be relatively localised (measured above MDL in one sample out of 12) the risk to human health receptors is likely to be low.

4.2.8 Discussion

Concentrations of arsenic were measured in one soil sample above the GAC protective of human health via potential pollutant linkage C and will need to be considered in the remedial strategy. A readily available GAC for total cyanide was not identified and it was measured at concentrations above the GAC for free cyanide, albeit free cyanide is more toxic than total cyanide so this is a very conservative estimate of risk. In the absence of directly comparable GAC, total cyanide will need to be considered in the remedial strategy via pollutant linkage C.

PAHs were measured in excess of the GAC protective of human health via pollutant linkage A and C. The concentrations measured in excess of the GAC for human health were in soil sampled from Granular Made Ground and require further consideration. Further consideration will also be given to PCBs and carbazole for which there are no readily available GAC for comparison.

To further assess the risk to human health (future on-site commercial worker) from measured concentrations of PCBs, PAHs and carbazole in soil via the vapour inhalation pathway – driven by vapour intrusion (pollutant linkage A), the CoC have been screened on the basis of Henry's Law Constant. This constant relates the contaminant concentration in the vapour phase, to its concentration in the (pore) water phase. Those CoC with a Henry's Law Constant of less than 1 x 10^{-5} atm.m^3/mol are considered insufficiently volatile to pose a risk via volatilisation into indoor / outdoor air. This method is based on the method described by Lyman et al., (1982), where the following definitions are made:

KH < 10^{-7} atm.m^3/mol (low volatility)

KH > 10^{-7} and < 10^{-5} atm.m^3/mol (volatilise slowly)

KH > 10^{-5} and < 10^{-3} atm.m^3/mol (volatilisation is an important transfer mechanism)

KH > 10^{-3} atm.m^3/mol (volatilisation will proceed rapidly)

This approach is in line with current UK guidance including Construction Industry Research and Information Association (CIRIA) (2009) and SNIFFER (2003). The results of the screening process are summarised below.

Analyte	Henry's Law Constant (atm.m^3/mol)	Further Assessment Required
Naphthalene	1.62x10^{-4}	Yes*
Benzo(a)anthracene	7.73 x10^{-7}	No**
Chrysene	7.78x10^{-8}	No**
Benzo(b)fluoranthene	5.02x10^{-8}	No**
Benzo(a)pyrene	4.31x10^{-8}	No**
Dibenzo(g,h,i)perylene	1.3x10^{-7}	No**
PCB 7 Total	3.55x10^{-5}	No**
Carbazole	5.11x10^{-7}	No**
Dibenzofuran	5.82x10^{-5}	No**

* Naphthalene has failed the screening process as its Henry's Law Constant was greater than 1x10^{-5} atm.m^3/mol.

** Given that their Henry's Law Constants are lower than 1x10^{-5} atm.m^3/mol, the concentrations encountered at the site are not deemed to pose a significant risk to the human health receptors via the vapour inhalation pathway. Therefore, they have not been considered further in relation to pollutant linkage A.

Concentrations of the contaminants assessed using Henrys Law, with the exception of naphthalene, are not considered to represent a risk via pollutant linkage A. They will need to be considered with regard to pollutant linkage C as part of the remedial strategy for the site.

Naphthalene is sufficiently volatile to pose a risk to human health via pollutant linkage A. The highest concentration of naphthalene was identified in soil associated with a pipe containing tar. Material of this nature would be considered to be impacted and removed as part of the remedial strategy prior to the development of site. The second highest concentration of naphthalene, and only other concentration of naphthalene identified in excess of the GAC, was in the same order of magnitude as the GAC. Further assessment of the risk to human health from naphthalene is required.

It is noted that the USEPA GAC do not consider the risk via the vapour intrusion pathway and as such, where VOC have been measured above MDL in soil and compared to USEPA GAC, this does not assess the risk via pollutant linkage A. Review of these compounds (styrene, 1,3,5-trimethylbenzene, tert-butylbenzene and 1,2,4-trimethylbenzene) indicates that they are typically associated with hydrocarbon fuel. As such, it is considered appropriate to consider the risk to human health via vapour inhalation from these compounds using hydrocarbon indicator compounds including TPH and BTEX. Concentrations of TPH and BTEX have not been identified above the GAC derived for the protection of human health and as such, a significant risk to human health has not been identified.

Free cyanide was also assessed using the USEPA GAC, although measured below this screening criteria the GAC does not consider the vapour inhalation pathway (pollutant linkage A), as such the risk to human health cannot be discounted at this point and further consideration of free cyanide is warranted.

Asbestos fibres were identified in 31 No. soil samples. Asbestos is potentially hazardous when inhaled and therefore pollutant linkage D (inhalation of dust) is considered potentially active as surface soils may become airborne during construction or if incorporated into soft landscaping without any cover.

Acute risks to construction workers arising from short-term contact with contaminated soils during demolition and redevelopment of the site are not assessed by the chronic risk assessment methods in this report. During construction works, site workers should remain vigilant to the possible risk of encountering isolated areas of contaminated material. Should potentially contaminated material be encountered, further testing may be required to assess the risk to health and safety of the site workers and the environment. All persons engaged in site construction works should be made aware of the findings of the intrusive investigation and the hazards associated with handling potentially contaminated materials. It is recommended that all works are conducted in accordance with the Health and Safety Executive publication entitled “Protection of Workers and the General Public during the Development of Contaminated Land” (HSE, 1991).

4.3 Risks to Controlled Waters

4.3.1 Selection of GAC

Potentially active pollutant linkages in relation to Controlled Waters have been identified in the initial CSM as:

1) Leaching of CoC from Made Ground to groundwater in Tidal Flat Deposits
2) Vertical Migration of CoC to Redcar Mudstone Formation, Penarth Group, or Mercia Mudstone
3) Horizontal Migration of contaminated groundwater to the on-site watercourse
4) Migration of CoC in groundwater onto site from off-site sources
5) Migration of CoC in groundwater off site.

An assessment of the potential for soluble contaminants in the Made Ground and slag on the Site to impact the Controlled Waters receptors identified in the CSM (on-site surface water and underlying Secondary Aquifers (Tidal Flat Deposits and bedrock) has been undertaken.

Concentrations of leachable contaminants from soil leaching tests and groundwater samples have been compared to appropriate Water Quality Standards (WQS).

The WQS chosen are UK Drinking Water Standards (DWS) protective of aquifer water resources, and Environmental Quality Standards (EQS) considered protective of surface waterbody quality. The EQS are for saline waters protective of the Tees Estuary receptor. The WQS are listed in Appendix G and Appendix H.

4.3.2 Soil Leachate

The results of 24No. soil leachate tests were compared to the WQS as shown in Appendix F. Contaminant concentrations that exceeded the WQS are shown in **Error! Reference source not found.** below. Seventeen of the samples were granular Made Ground, 4No. samples were slag-dominated Made Ground, and 3No. of cohesive Made Ground. Samples tested were taken across the site from depths ranging from 0.6 m to 3.6m bgl.

Contaminant	Unit	No. Samples Exceeding	WQS Exceeded		Sample	Concentration (µg/l)
Antimony	µg/l	2/24	DWS	5	PRAIRIE_AUK_TP141_SO_0200 PRAIRIE_AUK_TP142_SO_0150	14 18
Arsenic	µg/l	1/24	DWS	10	PRAIRIE_AUK_TP142_SO_0150	41
Hexavalent Chromium	µg/l	1/24	EQS	0.6	PRAIRIE_AUK_TP110_SO_0100	8.1
Copper	µg/l	7/24	EQS	3.76	PRAIRIE_AUK_TP123_SO_0060 PRAIRIE_AUK_TP128_SO_0090 PRAIRIE_AUK_TP140_SO_0100 PRAIRIE_AUK_TP142_SO_0150 PRAIRIE_AUK_TP144_SO_0080 PRAIRIE_AUK_TP145_SO_0160 PRAIRIE_AUK_TP181_SO_0060	22 5.8 4.2 30 6.4 4.2 5.6
Lead	µg/l	2/24	EQS and DWS	1.3 10	PRAIRIE_AUK_TP142_SO_0150 PRAIRIE_AUK_TP181_SO_0060	16 4.2
Manganese	µg/l	9/24	DWS	50	PRAIRIE_AUK_TP110_SO_0100 PRAIRIE_AUK_TP128_SO_0090 PRAIRIE_AUK_TP163_SO_0120 PRAIRIE_AUK_TP170_SO_0100 PRAIRIE_AUK_TP175_SO_0080 PRAIRIE_AUK_TP179_SO_0140 PRAIRIE_AUK_TP182_SO_0090 PRAIRIE_AUK_TP194_SO_0140 PRAIRIE_AUK_TP196_SO_0140	160 98 400 180 52 890 86 330 580
Mercury	µg/l	3/24	EQS and DWS	0.07 1	PRAIRIE_AUK_TP140_SO_0100 PRAIRIE_AUK_TP141_SO_0200 PRAIRIE_AUK_TP142_SO_0150	0.17 0.27 1.2

Contaminant	Unit	No. Samples Exceeding	WQS Exceeded		Sample	Concentration (µg/l)
Nickel	µg/l	2/24	EQS	8.6	PRAIRIE_AUK_TP141_SO_0200 PRAIRIE_AUK_TP142_SO_0150	11 18
Zinc	µg/l	4/24	EQS	7.9	PRAIRIE_AUK_TP103_SO_0100 PRAIRIE_AUK_TP110_SO_0100 PRAIRIE_AUK_TP170_SO_0100 PRAIRIE_AUK_TP201_SO_0360	10 15 15 33
Ammoniacal Nitrogen	µg/l	4/24	DWS	0.5	PRAIRIE_AUK_TP141_SO_0200 PRAIRIE_AUK_TP142_SO_0150 PRAIRIE_AUK_TP175_SO_0080 PRAIRIE_AUK_TP179_SO_0200	0.91 3.2 1.6 1.2
Aromatic C5-C7	µg/l	2/24	DWS	1	PRAIRIE_AUK_TP128_SO_0090 PRAIRIE_AUK_TP136_SO_0080	4.5 6.6
TPH	µg/l	13/24	EQS	50	PRAIRIE_AUK_TP108_SO_0200 PRAIRIE_AUK_TP110_SO_0100 PRAIRIE_AUK_TP114_SO_0090 PRAIRIE_AUK_TP128_SO_0090 PRAIRIE_AUK_TP136_SO_0080 PRAIRIE_AUK_TP141_SO_0200 PRAIRIE_AUK_TP142_SO_0150 PRAIRIE_AUK_TP144_SO_0080 PRAIRIE_AUK_TP170_SO_0100 PRAIRIE_AUK_TP175_SO_0080 PRAIRIE_AUK_TP179_SO_0140 PRAIRIE_AUK_TP182_SO_0090 PRAIRIE_AUK_TP194_SO_0140	340 120 3,700 17,000 110 920 1,900 140 120 130 880 8,500 53
Naphthalene	µg/l	11/24	EQS DWS	2 2	PRAIRIE_AUK_TP103_SO_0100 PRAIRIE_AUK_TP114_SO_0090 PRAIRIE_AUK_TP128_SO_0090 PRAIRIE_AUK_TP141_SO_0200 PRAIRIE_AUK_TP163_SO_0120 PRAIRIE_AUK_TP175_SO_0080 PRAIRIE_AUK_TP179_SO_0140 PRAIRIE_AUK_TP179_SO_0200	4.6 10,000 230 2.5 3.2 890 2,300 50

Contaminant	Unit	No. Samples Exceeding	WQS Exceeded		Sample	Concentration (µg/l)
					PRAIRIE_AUK_TP182_SO_0090	11,000
					PRAIRIE_AUK_TP194_SO_0140	57
					PRAIRIE_AUK_TP196_SO_0140	34
Benzo(b)fluoranthene	µg/l	24/24	EQS and DWS	0.017 and 0.025	PRAIRIE_AUK_TP103_SO_0100	210
					PRAIRIE_AUK_TP108_SO_0200	0.65
					PRAIRIE_AUK_TP110_SO_0100	13
					PRAIRIE_AUK_TP112_SO_0210	0.3
					PRAIRIE_AUK_TP114_SO_0090	12
					PRAIRIE_AUK_TP120A_SO_0100	20
					PRAIRIE_AUK_TP123_SO_0060	0.71
					PRAIRIE_AUK_TP128_SO_0090	0.04
					PRAIRIE_AUK_TP136_SO_0080	2.8
					PRAIRIE_AUK_TP140_SO_0100	4.4
					PRAIRIE_AUK_TP141_SO_0200	0.5
					PRAIRIE_AUK_TP144_SO_0080	35
					PRAIRIE_AUK_TP145_SO_0160	3.7
					PRAIRIE_AUK_TP163_SO_0120	1.6
					PRAIRIE_AUK_TP170_SO_0100	0.19
					PRAIRIE_AUK_TP175_SO_0080	27
					PRAIRIE_AUK_TP181_SO_0060	8.1
					PRAIRIE_AUK_TP182_SO_0090	2.4
					PRAIRIE_AUK_TP194_SO_0140	24
					PRAIRIE_AUK_TP196_SO_0140	27
					PRAIRIE_AUK_TP201_SO_0360	0.03
Benzo(k)fluoranthene	µg/l	22/24	EQS and DWS	0.017 and 0.025	PRAIRIE_AUK_TP103_SO_0100	57
					PRAIRIE_AUK_TP108_SO_0200	0.23
					PRAIRIE_AUK_TP110_SO_0100	4.3
					PRAIRIE_AUK_TP112_SO_0210	0.16
					PRAIRIE_AUK_TP114_SO_0090	4.6
					PRAIRIE_AUK_TP120A_SO_0100	11
					PRAIRIE_AUK_TP123_SO_0060	0.29
					PRAIRIE_AUK_TP136_SO_0080	0.99
					PRAIRIE_AUK_TP140_SO_0100	1.9
					PRAIRIE_AUK_TP141_SO_0200	0.2
					PRAIRIE_AUK_TP144_SO_0080	11
					PRAIRIE_AUK_TP145_SO_0160	1.3

Contaminant	Unit	No. Samples Exceeding	WQS Exceeded		Sample	Concentration (µg/l)
					PRAIRIE_AUK_TP170_SO_0100	0.07
					PRAIRIE_AUK_TP175_SO_0080	9.7
					PRAIRIE_AUK_TP181_SO_0060	2.8
					PRAIRIE_AUK_TP182_SO_0090	1.1
					PRAIRIE_AUK_TP194_SO_0140	10
					PRAIRIE_AUK_TP196_SO_0140	11
Benzo(a)pyrene	µg/l	24/24	EQS and DWS	0.027 0.01	PRAIRIE_AUK_TP103_SO_0100	130
					PRAIRIE_AUK_TP108_SO_0200	0.36
					PRAIRIE_AUK_TP110_SO_0100	8.5
					PRAIRIE_AUK_TP112_SO_0210	0.14
					PRAIRIE_AUK_TP114_SO_0090	8.6
					PRAIRIE_AUK_TP120A_SO_0100	14
					PRAIRIE_AUK_TP123_SO_0060	0.44
					PRAIRIE_AUK_TP128_SO_0090	0.02
					PRAIRIE_AUK_TP136_SO_0080	1.7
					PRAIRIE_AUK_TP140_SO_0100	2.9
					PRAIRIE_AUK_TP141_SO_0200	0.31
					PRAIRIE_AUK_TP144_SO_0080	21
					PRAIRIE_AUK_TP145_SO_0160	2.2
					PRAIRIE_AUK_TP170_SO_0100	0.11
					PRAIRIE_AUK_TP175_SO_0080	19
					PRAIRIE_AUK_TP181_SO_0060	4.4
					PRAIRIE_AUK_TP182_SO_0090	1.3
					PRAIRIE_AUK_TP194_SO_0140	19
					PRAIRIE_AUK_TP196_SO_0140	18
					PRAIRIE_AUK_TP201_SO_0360	0.02
Indeno(1,2,3-c,d)pyrene	µg/l	23/24	DWS	0.025	PRAIRIE_AUK_TP103_SO_0100	210
					PRAIRIE_AUK_TP108_SO_0200	0.33
					PRAIRIE_AUK_TP110_SO_0100	4
					PRAIRIE_AUK_TP112_SO_0210	0.22
					PRAIRIE_AUK_TP114_SO_0090	5.7
					PRAIRIE_AUK_TP120A_SO_0100	16
					PRAIRIE_AUK_TP123_SO_0060	0.59
					PRAIRIE_AUK_TP128_SO_0090	0.04
					PRAIRIE_AUK_TP136_SO_0080	1.6
					PRAIRIE_AUK_TP140_SO_0100	4

Contaminant	Unit	No. Samples Exceeding	WQS Exceeded		Sample	Concentration (µg/l)
					PRAIRIE_AUK_TP141_SO_0200	0.33
					PRAIRIE_AUK_TP144_SO_0080	22
					PRAIRIE_AUK_TP145_SO_0160	2.2
					PRAIRIE_AUK_TP170_SO_0100	0.17
					PRAIRIE_AUK_TP175_SO_0080	15
					PRAIRIE_AUK_TP181_SO_0060	7.1
					PRAIRIE_AUK_TP194_SO_0140	15
					PRAIRIE_AUK_TP196_SO_0140	17
Benzo(g,h,i)perylene	µg/l	24/24	EQS and DWS	0.00082 and 0.025	PRAIRIE_AUK_TP103_SO_0100	400
					PRAIRIE_AUK_TP108_SO_0200	0.27
					PRAIRIE_AUK_TP110_SO_0100	5
					PRAIRIE_AUK_TP112_SO_0210	0.18
					PRAIRIE_AUK_TP114_SO_0090	5.6
					PRAIRIE_AUK_TP120A_SO_0100	16
					PRAIRIE_AUK_TP123_SO_0060	0.58
					PRAIRIE_AUK_TP128_SO_0090	0.04
					PRAIRIE_AUK_TP136_SO_0080	1.5
					PRAIRIE_AUK_TP140_SO_0100	3.8
					PRAIRIE_AUK_TP141_SO_0200	0.35
					PRAIRIE_AUK_TP144_SO_0080	20
					PRAIRIE_AUK_TP145_SO_0160	2.9
					PRAIRIE_AUK_TP170_SO_0100	0.15
					PRAIRIE_AUK_TP175_SO_0080	9.5
					PRAIRIE_AUK_TP181_SO_0060	8
					PRAIRIE_AUK_TP194_SO_0140	12
					PRAIRIE_AUK_TP196_SO_0140	15
					PRAIRIE_AUK_TP201_SO_0360	0.02
Phenol	µg/l	2/25	EQS and DWS	7.7	PRAIRIE_AUK_TP114_SO_0090	2,600
				7.7	PRAIRIE_AUK_TP142_SO_0150	400

*MDL above the relevant WQS.

Concentrations of heavy metals, ammoniacal nitrogen, TPH, PAH and phenol were measured in excess of WQS.

As the WQS are protective of water quality at the point of contact with the receptor (the water body for EQS or the customer's tap for DWS), direct comparison with soil leachate results is a conservative assessment as it does not take into account dilution and attenuation along the pathway.

The EQS for copper, manganese, nickel and zinc are based on the bioavailable fraction which is likely to be less than the total dissolved concentrations recorded in the results. As not all of the copper, manganese, nickel and zinc are likely to be bioavailable the EQS can therefore be regarded as conservative.

4.3.3 Groundwater

Twelve groundwater samples were obtained from monitoring wells and three grab samples were collected from trial pits and a 'pond' and analysed for a range of contaminants. The boreholes screen subsurface geology as shown in the table below, grab samples from the trial pits are considered to represent perched water within the Made Ground.

Borehole	Aquifer
Prairie_AUK_BH101S	GL
Prairie_AUK_BH101D	GT
Prairie_AUK_BH102	Made Ground
Prairie_AUK_BH103	GL
Prairie_AUK_BH105	GT
Prairie_AUK_BH106	GT
Prairie_AUK_BH107	GT
Prairie_AUK_BH108S	GL
Prairie_AUK_BH104	Mercia Mudstone
Prairie_AUK_BH108D	Mercia Mudstone
Prairie_AUK_BH109	Redcar Mudstone Formation and Penarth Group
Prairie_AUK_BH110	Mercia Mudstone

Contaminant concentrations were compared to the WQS in Appendix G and exceedances are summarised below.

Contaminant	Unit	No. Samples Exceeding	WQS Exceeded		Sample	Concentration (µg/l)
Aluminium	µg/l	3 / 12	DWS	200	PRAIRIE_AUK_BH101S PRAIRIE_AUK_BH106 PRAIRIE_AUK_BH109	710 470 260
Barium	µg/l	1 / 12	DWS	700	PRAIRIE_AUK_BH102	1,000
Chromium	µg/l	3 / 15	DWS	50	PRAIRIE_AUK_BH106 PRAIRIE_AUK_BH109 PRAIRIE_AUK_TP115	57 110 110
Copper	µg/l	3 / 15	EQS	3.76	PRAIRIE_AUK_BH103 PRAIRIE_AUK_SW1	4.6 4.4

Contaminant	Unit	No. Samples Exceeding	WQS Exceeded		Sample	Concentration (µg/l)
					PRAIRIE_AUK_TP115	11
Manganese	µg/l	11 / 12	DWS	50	PRAIRIE_AUK_BH101S PRAIRIE_AUK_BH101D PRAIRIE_AUK_BH103 PRAIRIE_AUK_BH104 PRAIRIE_AUK_BH105 PRAIRIE_AUK_BH106 PRAIRIE_AUK_BH107 PRAIRIE_AUK_BH108S PRAIRIE_AUK_BH108D PRAIRIE_AUK_BH109 PRAIRIE_AUK_BH110	720 590 390 440 810 160 290 620 590 85 180
Zinc	µg/l	2 / 15	EQS	7.9	PRAIRIE_AUK_BH104 PRAIRIE_AUK_TP115	16 86
Total Cyanide	µg/l	5 / 15	EQS DWS	1 50	PRAIRIE_AUK_BH101S PRAIRIE_AUK_BH103 PRAIRIE_AUK_BH101D PRAIRIE_AUK_TP115 PRAIRIE_AUK_TP186	54 100 64 71 410
Ammoniacal Nitrogen*	µg/l	6 / 15	DWS	0.5	PRAIRIE_AUK_BH101S PRAIRIE_AUK_BH101D PRAIRIE_AUK_BH102 PRAIRIE_AUK_BH106 PRAIRIE_AUK_TP115 PRAIRIE_AUK_TP186	0.8 0.82 1 0.98 0.54 5.6
Aromatic C5-C7	µg/l	2/15	EQS DWS	8 1	PRAIRIE_AUK_BH109 PRAIRIE_AUK_TP186	41 44
Xylenes	µg/l	1/12	EQS	30	PRAIRIE_AUK_BH109	107
TPH	µg/l	5/15	EQS DWS	50 10	PRAIRIE_AUK_BH101S PRAIRIE_AUK_BH104 PRAIRIE_AUK_BH109 PRAIRIE_AUK_TP115 PRAIRIE_AUK_TP186	40 31 9,400 180 7,800
Naphthalene	µg/l	4/15	EQS	2	PRAIRIE_AUK_BH102	3.7

Contaminant	Unit	No. Samples Exceeding	WQS Exceeded		Sample	Concentration (µg/l)
			DWS	2	PRAIRIE_AUK_BH104	4.3
					PRAIRIE_AUK_BH109	4,900
					PRAIRIE_AUK_TP186	690
Benzo(b)fluoranthene	µg/l	11 / 15	DWS EQS	0.025 0.017	PRAIRIE_AUK_BH101S	0.09
					PRAIRIE_AUK_BH101D	0.03
					PRAIRIE_AUK_BH102	0.03
					PRAIRIE_AUK_BH103	0.24
					PRAIRIE_AUK_BH104	0.4
					PRAIRIE_AUK_BH106	0.04
					PRAIRIE_AUK_BH108D	0.02
					PRAIRIE_AUK_BH109	5.8
					PRAIRIE_AUK_SW1	0.44
					PRAIRIE_AUK_TP115	0.83
					PRAIRIE_AUK_TP186	4.5
Benzo(k)fluoranthene	µg/l	7/15	DWS EQS	0.025 0.017	PRAIRIE_AUK_BH101S	0.02
					PRAIRIE_AUK_BH103	0.06
					PRAIRIE_AUK_BH106	0.02
					PRAIRIE_AUK_BH109	2.6
					PRAIRIE_AUK_SW1	0.15
					PRAIRIE_AUK_TP115	0.3
					PRAIRIE_AUK_TP186	1.5
Benzo(a)pyrene	µg/l	10/15	EQS and DWS	0.027 0.01	PRAIRIE_AUK_BH101S	0.05
					PRAIRIE_AUK_BH101D	0.02
					PRAIRIE_AUK_BH102	0.02
					PRAIRIE_AUK_BH103	0.12
					PRAIRIE_AUK_BH104	0.22
					PRAIRIE_AUK_BH106	0.02
					PRAIRIE_AUK_BH109	2.8
					PRAIRIE_AUK_SW1	0.22
					PRAIRIE_AUK_TP115	0.56
					PRAIRIE_AUK_TP186	2.4
Indeno(1,2,3-c,d)pyrene	µg/l	9/15	DWS	0.025	PRAIRIE_AUK_BH101S	0.06
					PRAIRIE_AUK_BH101D	0.03
					PRAIRIE_AUK_BH103	0.21
					PRAIRIE_AUK_BH104	0.32

Contaminant	Unit	No. Samples Exceeding	WQS Exceeded		Sample	Concentration (µg/l)
					PRAIRIE_AUK_BH106	0.04
					PRAIRIE_AUK_BH109	2.6
					PRAIRIE_AUK_SW1	0.14
					PRAIRIE_AUK_TP115	0.38
					PRAIRIE_AUK_TP186	1.2
Benzo(g,h,i)perylene	µg/l	10/15	EQS DWS	0.00082 0.025	PRAIRIE_AUK_BH101S PRAIRIE_AUK_BH101D PRAIRIE_AUK_BH102 PRAIRIE_AUK_BH104 PRAIRIE_AUK_BH106 PRAIRIE_AUK_BH108D PRAIRIE_AUK_BH109 PRAIRIE_AUK_SW1 PRAIRIE_AUK_TP115 PRAIRIE_AUK_TP186	0.06 0.03 0.02 0.3 0.05 0.03 2.6 0.2 0.52 1.6
Phenol	µg/l	1/15	EQS DWS	7.7 7.7	PRAIRIE_AUK_TP186	3,400
1,2-dichloroethane	µg/l	1/15	DWS	3	PRAIRIE_AUK_BH109	7

* DWS for Ammoniacal Nitrogen is for Ammonium as NH_4.

Concentrations of manganese and PAHs have been measured in excess of WQS in more than half of the water samples collected from the site. Concentrations of other heavy metals, ammoniacal nitrogen, total cyanide, TPH, xylenes, phenol and 1,2-dichoroethane were also measured in excess of WQS.

It is noted that the groundwater pH in the Made Ground is alkaline (pH 12.5) and the pH of the groundwater is closer to neutral in the superficial deposits and bedrock ranging from pH 7.4 to 9.2.

4.3.4 Qualitative Risk Assessment for Substances in Leachate/Groundwater without WQS

As shown in Appendix G, for several contaminants including some metals (beryllium) and VOCs, WQS are not readily available for comparison. Concentrations of beryllium were not measured above the laboratory MDL in any of the leachate or groundwater samples, where tested. As such, this compound is not considered to pose a significant risk to identified water resource receptors. Likewise, where concentrations of VOC were measured below MDL in the groundwater samples, these contaminants are not considered to represent a risk to water resources.

The following compounds did not have readily available GAC and were recorded at concentrations in excess of their MDL: magnesium, sulphate, sulphur, chloride, free cyanide, thiocyanate, selected PAHs, styrene, isopropylbenzene, 2-chlorotoluene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, 1,2-dibromo-3-chloropropane.

Four of the compounds, magnesium, sulphate, sulphur and chloride are present naturally in groundwater. Considering the site setting (close to saline coastal environment) these compounds are not considered to pose a significant risk to water resources and will not be assessed further.

Given a number of PAHs do not have readily available WQS, assessment of the risk to water resources will be made using PAHs in groundwater that have available WQS. This is considered to be sufficiently protective of water resources.

Further assessment of the remaining contaminants for which no available GAC has been identified will be considered in Section 4.3.5.

4.3.5 Discussion

Generally, the highest concentrations of heavy metals and inorganics were measured in monitoring wells screening the Made Ground and the superficial deposits. The highest concentrations of TPH, PAH and VOCs were generally measured in BH109 which screens the Redcar Mudstone Formation with the highest concentration of chromium also measured in groundwater sampled from this location. Given the distribution of the contaminants throughout the water column, and that contaminants of concern have been measured in excess of the GAC for the protection of water resources, further assessment is needed.

Further consideration of the risk to water resources from contaminants for which a WQS has not been identified including free cyanide, thiocyanate, styrene, isopropylbenzene, 2-chlorotoluene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene and 1,2-diromo-3-chloropropane is also warranted.

4.4 Built Receptors

Significant contamination can pose a risk to subsurface structures and services, where these are in direct contact with soil and/or groundwater. Substances such as dissolved metals, cations, phenols and hydrocarbons in high concentrations can adversely affect in-ground materials such as concrete, metal and plastics.

The most sensitive built receptor is generally plastic water supply pipes, which can be affected by permeation of hydrocarbons and organic solvents into the pipe. The available chemical data for soil samples has been reviewed against the UK Water Industry Research (UKWIR) criteria to provide an indication of the potential acceptability of polyethylene (PE) pipes in brownfield land (Water UK, 2014), although an exact comparison is not possible due to differences in the determinand suites tested.

Concentrations of petroleum hydrocarbons, phenol, VOC or SVOC measured in soil samples are above the criteria for unprotected PE water pipes with between 8% (phenol) and 47.6% (SVOCs) of soil samples in excess of UKWIR criteria. Therefore, additional testing should be carried along the route of any proposed new water supply pipe, or barrier pipe or similar could be used.

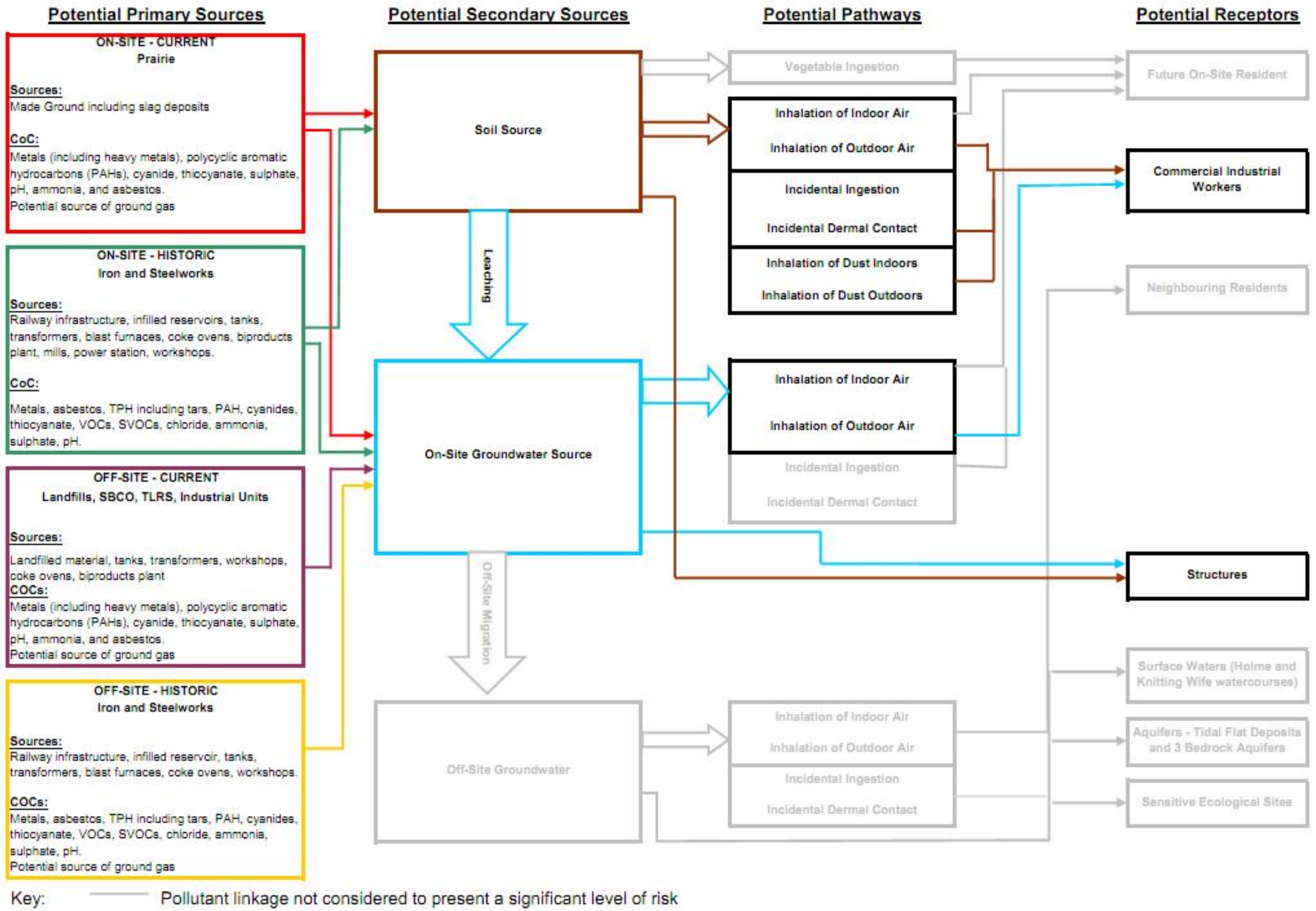
The potential for the ground conditions to generate an aggressive chemical environment for concrete (sulphate attack) is outside the scope of this report.

Potential pollutant linkage E (attack on subsurface structures) cannot be discounted at this stage and appropriate mitigation measures may be required.

5 Updated Conceptual Site Model

An updated CSM has been developed, using the findings of the above assessments, and is presented below as Figure 16. Pollutant linkages that have been shown to be inactive or not a significant risk have been removed.

Figure 16
Outline Conceptual Site Model - Commercial Industrial End Use



6 Conclusions

This report has used information obtained from the recent ground investigation to assess the potential contamination risks to human health, ecological receptors, built property and Controlled Waters. It was assumed that the site will be redeveloped as commercial or industrial properties. Based upon this assessment of data, the CSM has been updated to identify the potential pollutant linkages considered to be complete.

6.1 Human Health Risk

Potential risks to human health from a range of contaminants measured in shallow soils (Made Ground including slag materials) and groundwater were assessed using GAC. Concentrations of arsenic and PAHs were measured in excess of the GAC in soil and the risk to human health from concentrations of total cyanide via the direct contact and dust inhalation pathways could not be ruled out. Additionally the risk to human health from concentrations of naphthalene and free cyanide via the vapour inhalation pathway require further assessment. Concentrations of contaminants were not measured above the GAC derived for the protection of human health in groundwater.

Concentrations of arsenic, total cyanide and PAHs will need to be considered in the remedial strategy for the site. Based on the information currently available, further assessment of the vapour inhalation pathway is required to consider the risk to human health from concentrations of naphthalene and free cyanide.

NAPL and tar has been identified primarily within the Made Ground and associated with subsurface or former above ground structures and plants. Further consideration of the NAPL with respect to the risk to human health will be needed as part of the remedial strategy.

Asbestos was recorded in approximately 1/3 samples of Made Ground across the site, of these approximately ½ were quantified at <0.001% but the remainder were quantified to 0.02 % by mass. Asbestos in shallow soils in areas without buildings or hardstanding has the potential to become airborne and available for inhalation, particularly during construction, posing chronic risks to human health.

Additional assessment may be required dependent on the redevelopment scenario to further delineate the asbestos impact on the site and determine necessary mitigation measures. It is likely that a clean cover system in areas of soft landscaping can be utilised to mitigate the risk to site occupiers and neighbouring land users. During redevelopment, good construction practice such as minimising handling of asbestos-contaminated soils, damping down and appropriate Personal Protective Equipment (PPE) may be sufficient to mitigate the risk to construction workers, but the works should be carried out with due consideration to the Control of Asbestos Regulations (2012).

Soil containing more than 0.1% m/m asbestos, if disposed of off-site, may be classified as hazardous waste and attract significantly higher disposal costs. Additional testing would be required to confirm the quantity of asbestos and delineate any areas above the threshold.

6.2 Controlled Waters

Exceedances of Water Quality Standards (WQS) were recorded in soil leachate samples and groundwater samples from the Made Ground, superficial deposits and the bedrock. Dissolved contaminants in groundwater are generally consistent with soil and soil leachate analysis results indicating that some leaching is occurring into shallow groundwater from the slag deposits and hydrocarbon impacts on the site.

Further assessment of the risk to water resources is warranted based on the concentrations of contaminants measured in leachate and groundwater and the presence of NAPL and tar.

6.3 Recommendations

1. DQRA be undertaken as a higher tier assessment to further characterise pollutant linkages at the Site using site-specific information and derive site-specific assessment criteria for the assessment of the risk to human health and water resources.
2. Prior to redevelopment a remediation options appraisal [in press] should be carried out for the loose asbestos fibres identified in the Made Ground and for soils containing CoC in excess of screening

criteria. Additional data collection may be needed to support the associated risk assessment/remediation design.

3. Depending on the redevelopment scenario further ground investigation including ground gas monitoring of shallow soils should carried out prior to redevelopment to quantify the ground gas risk on the site in the context of the proposed layout and design.
4. If new foundations penetrating the Glacial Till (below 5m bgl) are proposed, a foundation works risk assessment should be carried out to enable appropriate mitigation measures to be designed that will prevent contaminant migration *via* a preferential pathway down into the underlying bedrock aquifers.

APPENDIX A

Figures

Legend

Site Boundary

Prairie

Notes:

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CONTACT ARCADIS IN CASE OF ANY QUERIES.

N

Title: Prairie - Site Location Plan

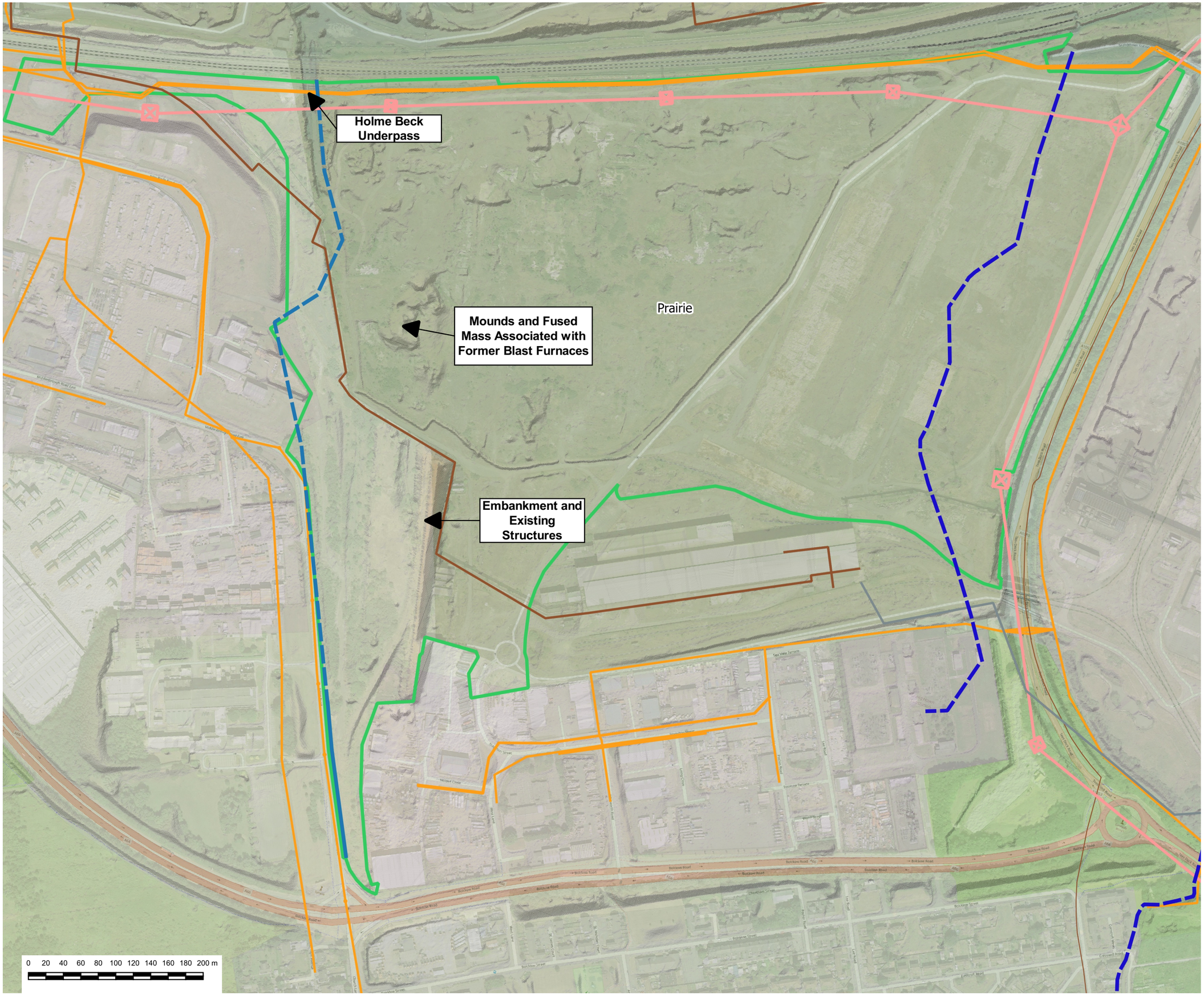
Site: Redcar Steelworks (Prairie)

Client:
South Tees Developement Corporation

Project: 10035117	**Figure 1**

Date: 05/06/2020
Drawn By: JALM
DRG No: 10035117-AUK-XX-XX-DR-ZZ-0063-01-Prarie_SLP

ARCADIS Design & Consultancy for natural and built assets



Legend

STDC Shapefiles

- Knitting Wife Beck

STDC data

Holme Beck

- Holme Beck
- Holme Beck Culvert
- Sewers
- Layer_MGT 275KV Cable
- Layer_Existing National Grid Elec
- Layer__CokeOvenGasUnderground
- Layer__CokeOvenGasAboveGround

Site Plans

Redline

- Prairie

Notes:

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CONTACT ARCADIS IN CASE OF ANY QUERIES.

The accuracy of non-Arcadis data has not been verified.

Holme Beck route added by Arcadis based on historical site plans, accuracy has not been confirmed.

N

Title:
Prairie - Site Setting and Layout

Site: Redcar Steelworks - Prairie

Client:
South Tees Developement Corporation

Project: 10035117	**Figure 2**

Date: 15/05/2020
Drawn By: JALM
DRG No: 10035117-AUK-XX-XX-DR-ZZ-0065-01-Prairie_Sett

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Legend

Site Boundary

Prairie

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CONTACT ARCADIS IN CASE OF ANY QUERIES.

N

Title: Prairie - Layout circa 1960

Site:
Redcar Steelworks

Client:
South Tees Developement Corporation

Project: **10035117**	Figure 3

Date: 12/06/2020
Drawn By: JALM
DRG No: 10035117-AUK-XX-XX-DR-ZZ-0082-01-Prairie_1960

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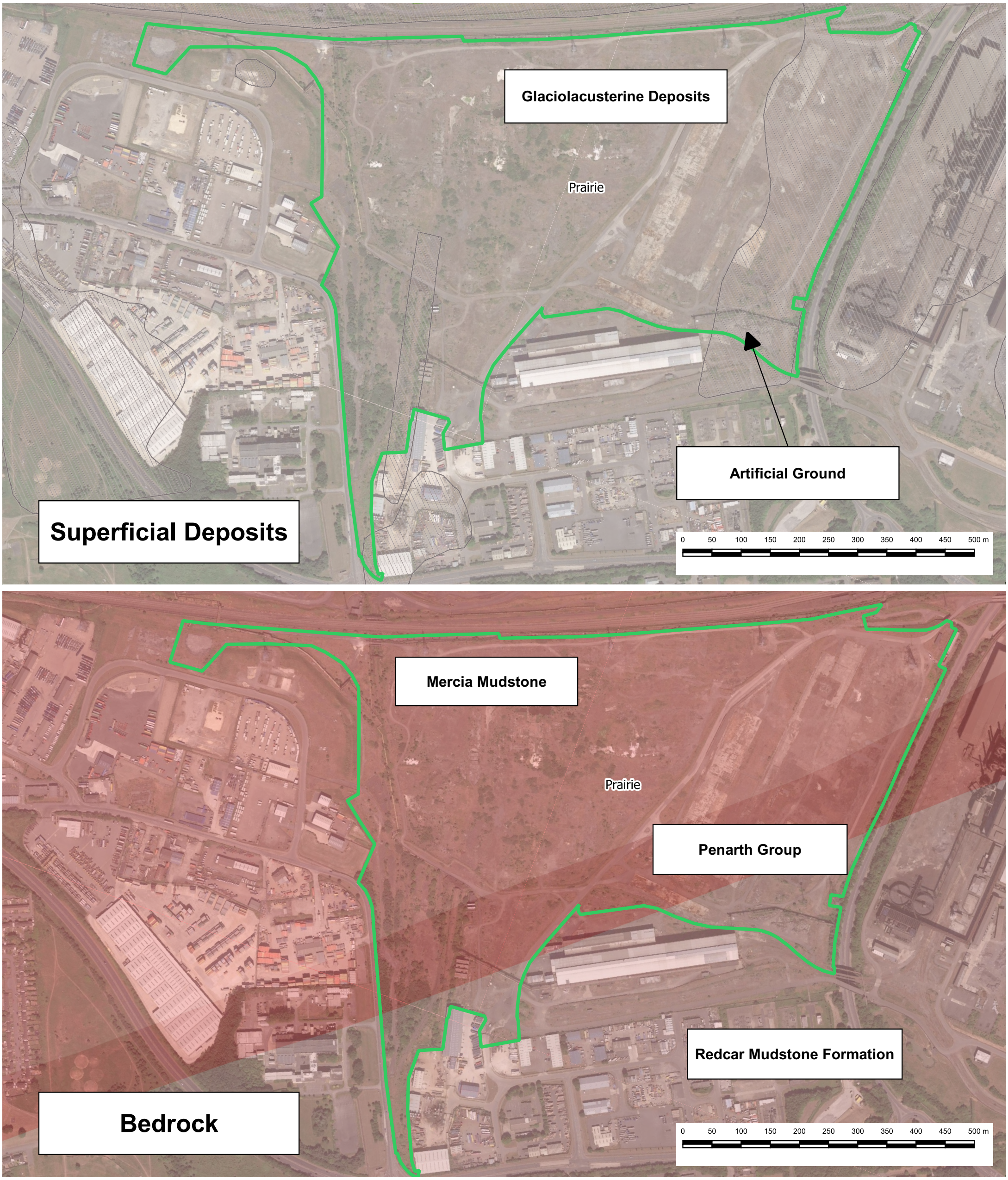

Legend

Site Boundary

Prairie

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CONTACT ARCADIS IN CASE OF ANY QUERIES.

N

Title: Prairie - Anticipated Geology

Site:
Redcar Steelworks - Prairie

Client:
South Tees Developement Corporation

Project:
10035117

Figure 4

Date: 15/05/2020
Drawn By: JALM
DRG No: 10035117-AUK-XX-XX-DR-ZZ-0064-01-Prairie_Geo

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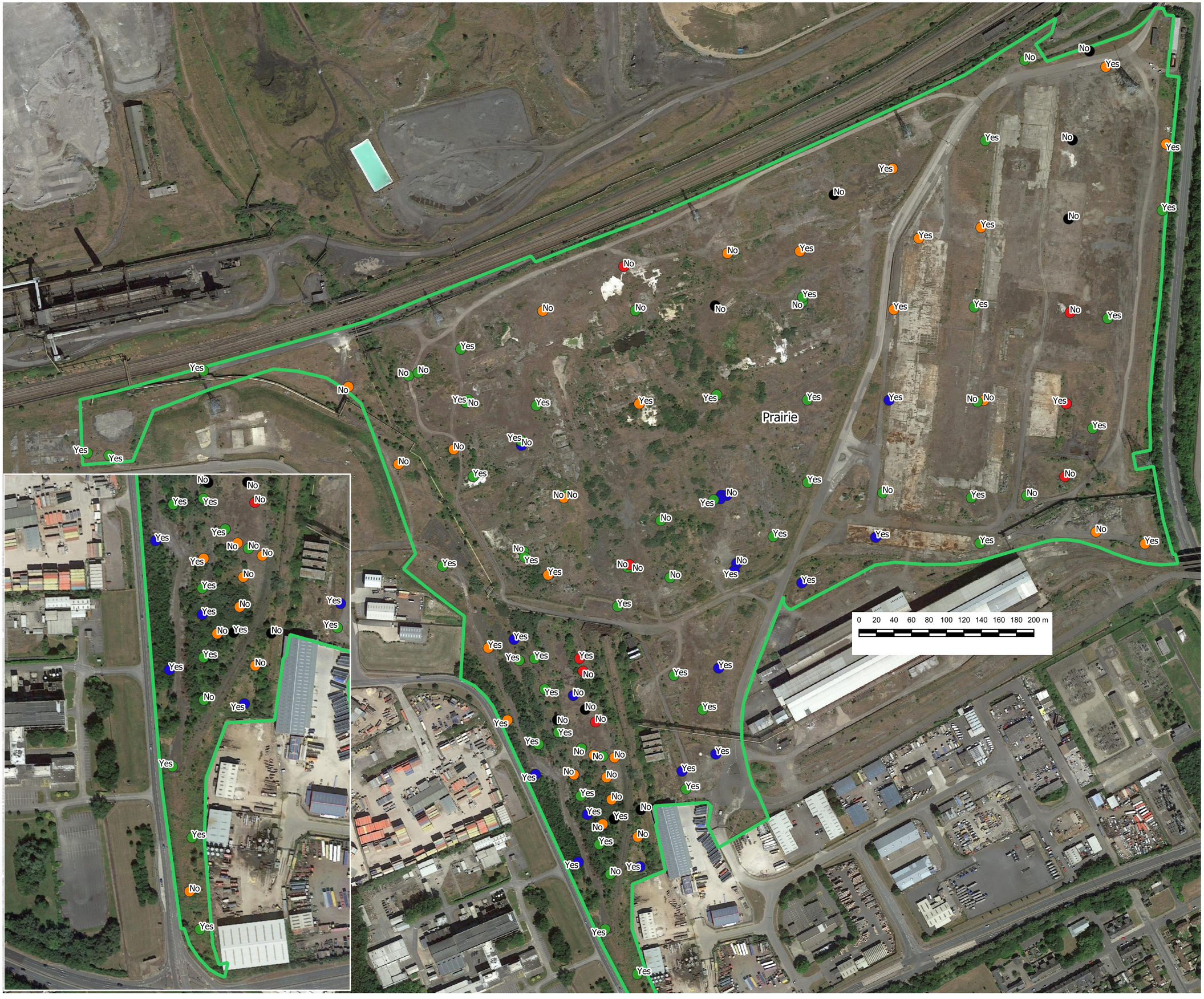

Legend

Made Ground Depth

Yes/No = Base of Made Ground Proven

- Less than 1m
- 1.0 to 2.0
- 2 to 3m bgl
- 3 to 4m
- Greater than 4m

Site Boundary

- Prairie

Notes:

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CONTACT ARCADIS IN CASE OF ANY QUERIES.

N

Title: Prairie - Made Ground Thickness Identified

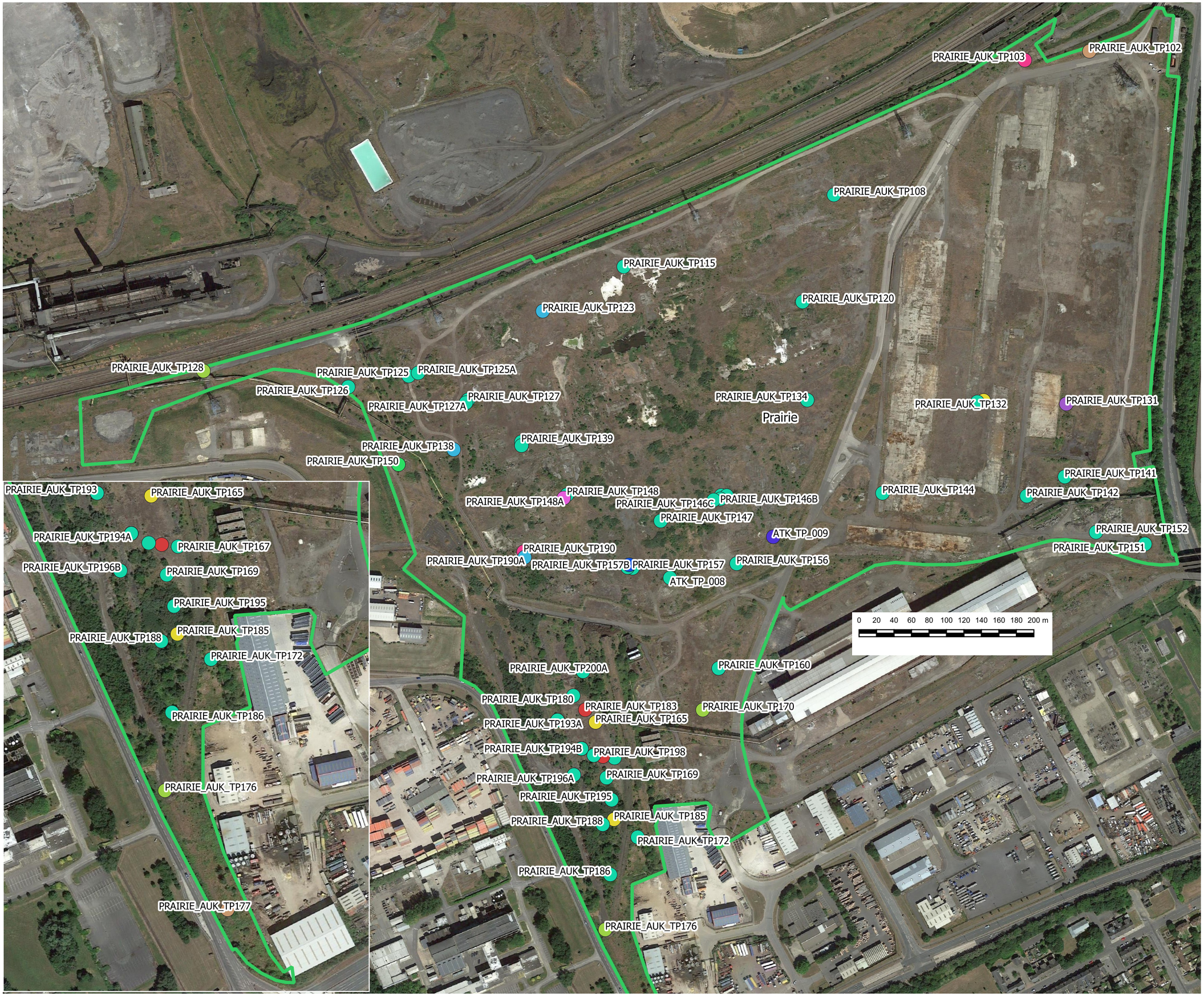
Site: Redcar Steelworks - Prairie

Client:
South Tees Developement Corporation

Project: **10035117**	Figure 5

Date: 04/06/2020
Drawn By: JALM
DRG No: 10035117-AUK-XX-XX-DR-ZZ-0067-02-Prairie_MG_Thkns

ARCADIS Design & Consultancy for natural and built assets



Legend

Obstruction Type

- Brick Foundations
- Concrete and Brick Foundations
- Concrete Boulders
- Concrete Foundatiosn and Metal
- Concrete Foundations
- Concrete Foundations and Slag
- Foundations and voids
- Fused slag
- Metal pipe
- Possible service
- Railway track
- Slag boulders

Site Plans

Site Boundary

- Prairie

Notes:

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CONTACT ARCADIS IN CASE OF ANY QUERIES.

Title: Prairie - Obstructions Identified

Site: Redcar Steelworks - Prairie

Client:
South Tees Developement Corporation

Project: **10035117**	Figure 6

Date: 19/05/2020
Drawn By: JALM
DRG No: 10035117-AUK-XX-XX-DR-ZZ-0069-02-Prairie_Obstn

ARCADIS Design & Consultancy for natural and built assets

PRAIRIE_AUK_TP107
PRAIRIE_AUK_TP112
PRAIRIE_AUK_TP114
PRAIRIE_AUK_TP115
PRAIRIE_AUK_TP120A
PRAIRIE_AUK_TP118
PRAIRIE_AUK_TP123
PRAIRIE_AUK_TP121
PRAIRIE_AUK_TP119
PRAIRIE_AUK_TP126
PRAIRIE_AUK_TP127
PRAIRIE_AUK_TP136
PRAIRIE_AUK_TP135
PRAIRIE_AUK_TP137
Prairie
PRAIRIE_AUK_TP139B
PRAIRIE_AUK_TP145
PRAIRIE_AUK_TP146C
PRAIRIE_AUK_TP144
PRAIRIE_AUK_TP143
PRAIRIE_AUK_TP142
PRAIRIE_AUK_TP147
ATK_TP_009
PRAIRIE_AUK_TP190
PRAIRIE_AUK_TP190A
AIRIE_AUK_TP159
ATK_TP_008
PRAIRIE_AUK_TP155
PRAIRIE_AUK_TP193
PRAIRIE_AUK_TP179
PRAIRIE_AUK_TP194A
PRAIRIE_AUK_TP196A
PRAIRIE_AUK_TP182
PRAIRIE_AUK_TP174
PRAIRIE_AUK_TP192
PRAIRIE_AUK_TP163
PRAIRIE_AUK_TP200B
PRAIRIE_AUK_TP181
PRAIRIE_AUK_TP186
PRAIRIE_AUK_TP175
PRAIRIE_AUK_TP193
PRAIRIE_AUK_TP179
PRAIRIE_AUK_TP194A
PRAIRIE_AUK_TP196A
PRAIRIE_AUK_TP182
PRAIRIE_AUK_TP189
PRAIRIE_AUK_TP174
PRAIRIE_AUK_TP175
PRAIRIE_AUK_TP186
PRAIRIE_AUK_TP178
PRAIRIE_AUK_TP189

0 20 40 60 80 100 120 140 160 180 200 m

N

Legend

Strike Depth
- Less than 1m
- 1.0 to 2.0
- 2 to 3m bgl
- 3 to 4m

Site Boundary
- Prairie

Notes:

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CONTACT ARCADIS IN CASE OF ANY QUERIES.

Title: Prairie - Groundwater Identified in Trial Pits

Site: Redcar Steelworks - Prairie

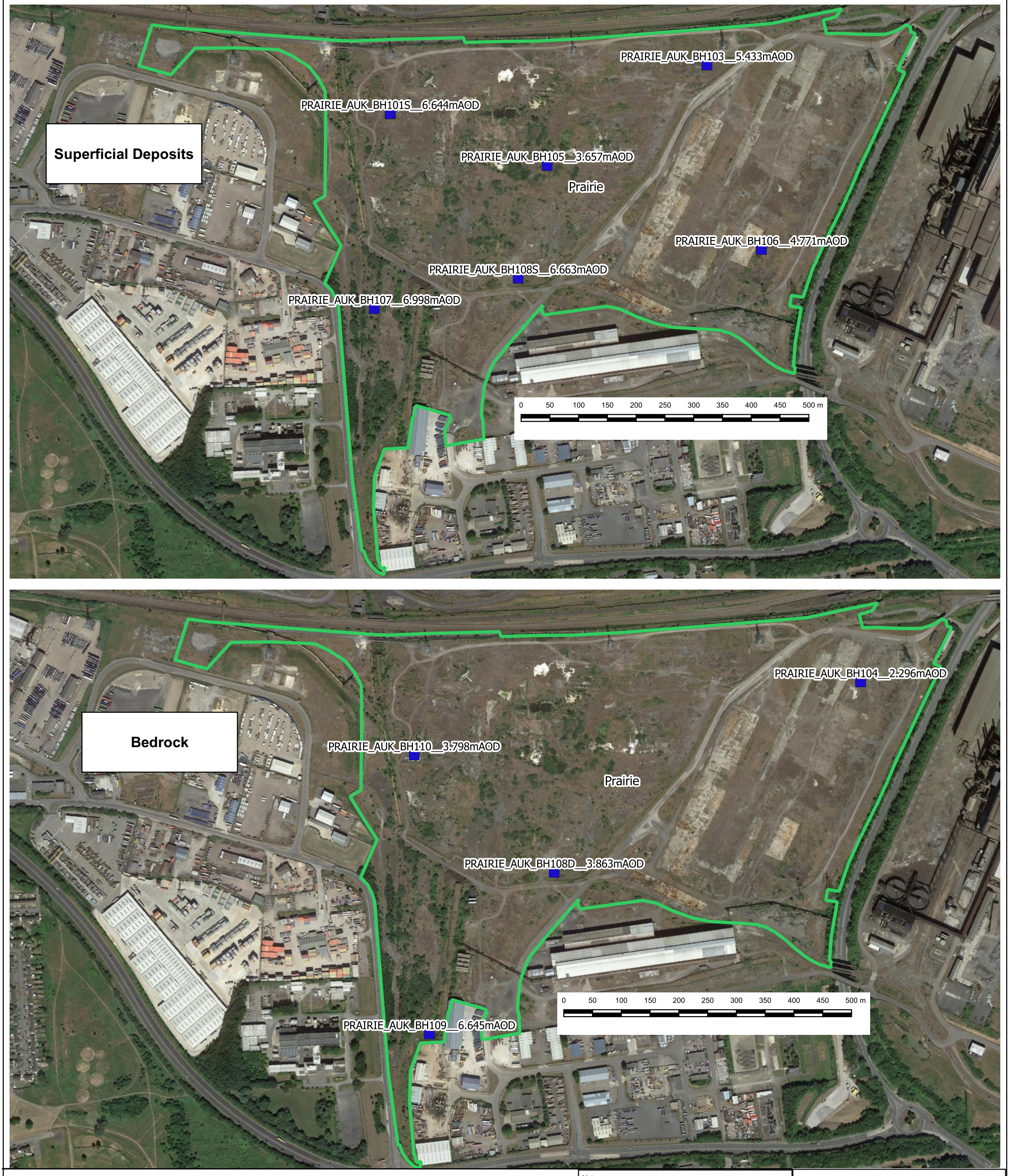
Client:
South Tees Developement Corporation

Project:
10035117

Figure 7

Date: 19/05/2020
Drawn By: JALM
DRG No: 10035117-AUK-XX-XX-DR-ZZ-0070-02-Prairie_GW_MG

ARCADIS Design & Consultancy for natural and built assets



Legend

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CONTACT ARCADIS IN CASE OF ANY QUERIES.

Title: Groundwater Elevations

Site:
Redcar Steelworks - Prairie

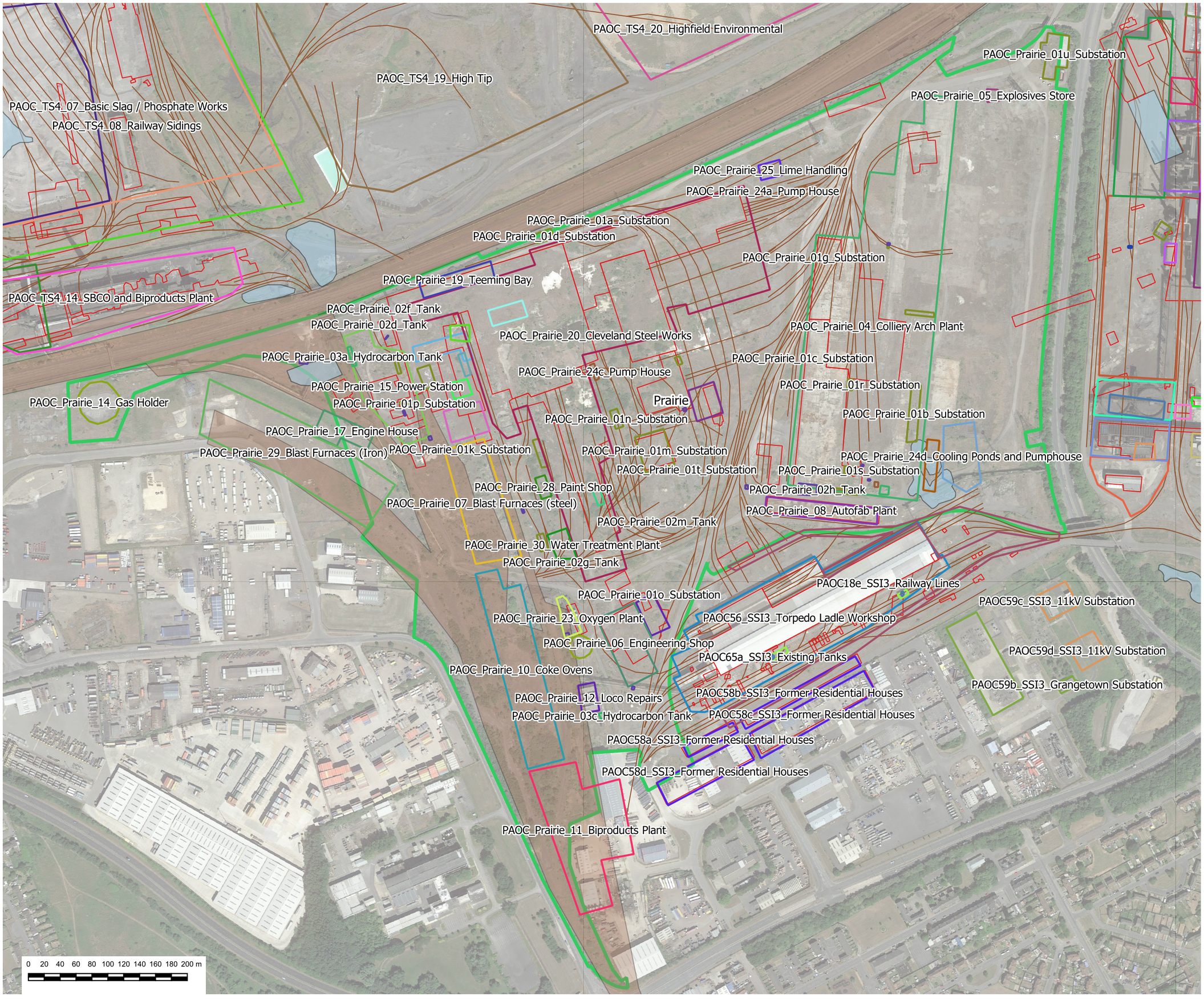
Client:
South Tees Developement Corporation

Project:
10035117

Figure 8

Date: 12/06/2020
Drawn By: JALM
DRG No: 10035117-AUK-XX-XX-DR-ZZ-0083-01-Prairie_GWE

ARCADIS Design & Consultancy for natural and built assets



Legend

STDC Shapefiles

- Rail
- Rail_areas
- Ponds
- Buildings

Site Boundary

- Prairie

Notes:

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CONTACT ARCADIS IN CASE OF ANY QUERIES.

N

Title: Prairie - Selected Potential Areas of Concern

Site: Redcar Steelworks - Prairie

Client:
South Tees Developement Corporation

Project: **10035117**	Figure 9

Date: 19/05/2020
Drawn By: JALM
DRG No: 10035117-AUK-XX-XX-DR-ZZ-0071-01-Prairie_PAOC

ARCADIS Design & Consultancy for natural and built assets

PRAIRIE_AUK_TP114

Prairie

PRAIRIE_AUK_TP144

PRAIRIE_AUK_TP142

PRAIRIE_AUK_TP153

PRAIRIE_AUK_TP179

CCOT4

PRAIRIE_AUK_TP196A

TP30

PRAIRIE_AUK_TP182

WS11

WS12

TP33

TP34

TP35

TP36

TP26

CCOT10

CCOT5

TP29

PRAIRIE_AUK_TP175

0 20 40 60 80 100 120 140 160 180 200 m

N

Legend

Arcadis Investigations

- NAPL
- Sheen / Seepage
- Sheen
- Tar

Historic Locations

- NAPL
- NAPL / Tar

Redline

- Prairie

Notes:

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NAPL: Non-aqueous Phase Liquid

Arcadis cannot warrent the accuracy of third party data.

Title: Prairie - Locations Where NAPL Identified

Site: Redcar Steelworks - Prairie

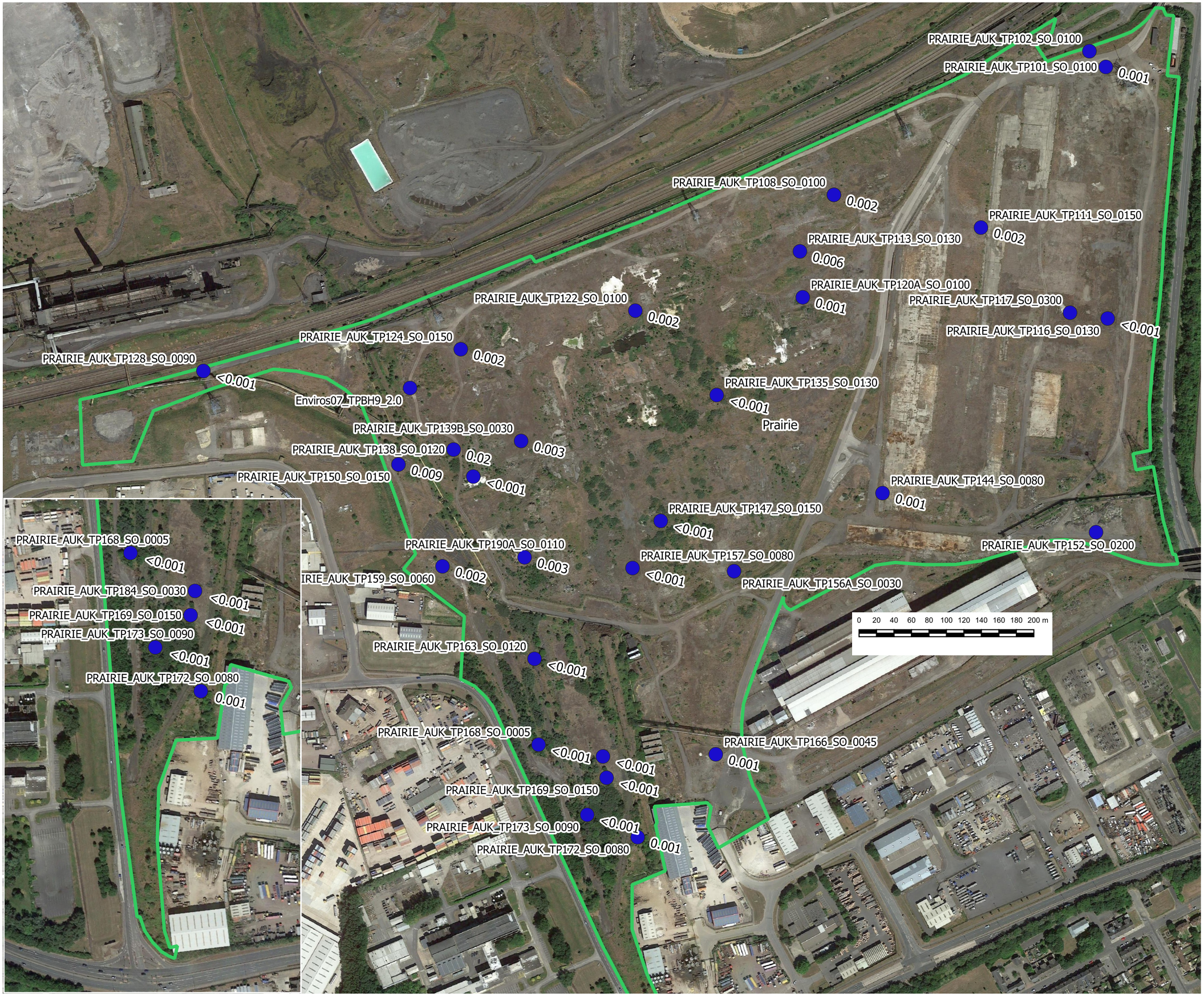
Client:
South Tees Developement Corporation

Project:
10035117

Figure 10

Date: 03/10/2020
Drawn By: JALM
DRG No: 10035117-AUK-XX-XX-DR-ZZ-0079-01-Prairie_NAPL

ARCADIS Design & Consultancy for natural and built assets



Legend

Asbestos Detected

- Yes

Site Boundary

- Prairie

Notes:

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CONTACT ARCADIS IN CASE OF ANY QUERIES.

Label: SampleID and Percentage Quantification

Title: Prairie - Asbestos Testing Results (Presence and Quantification)

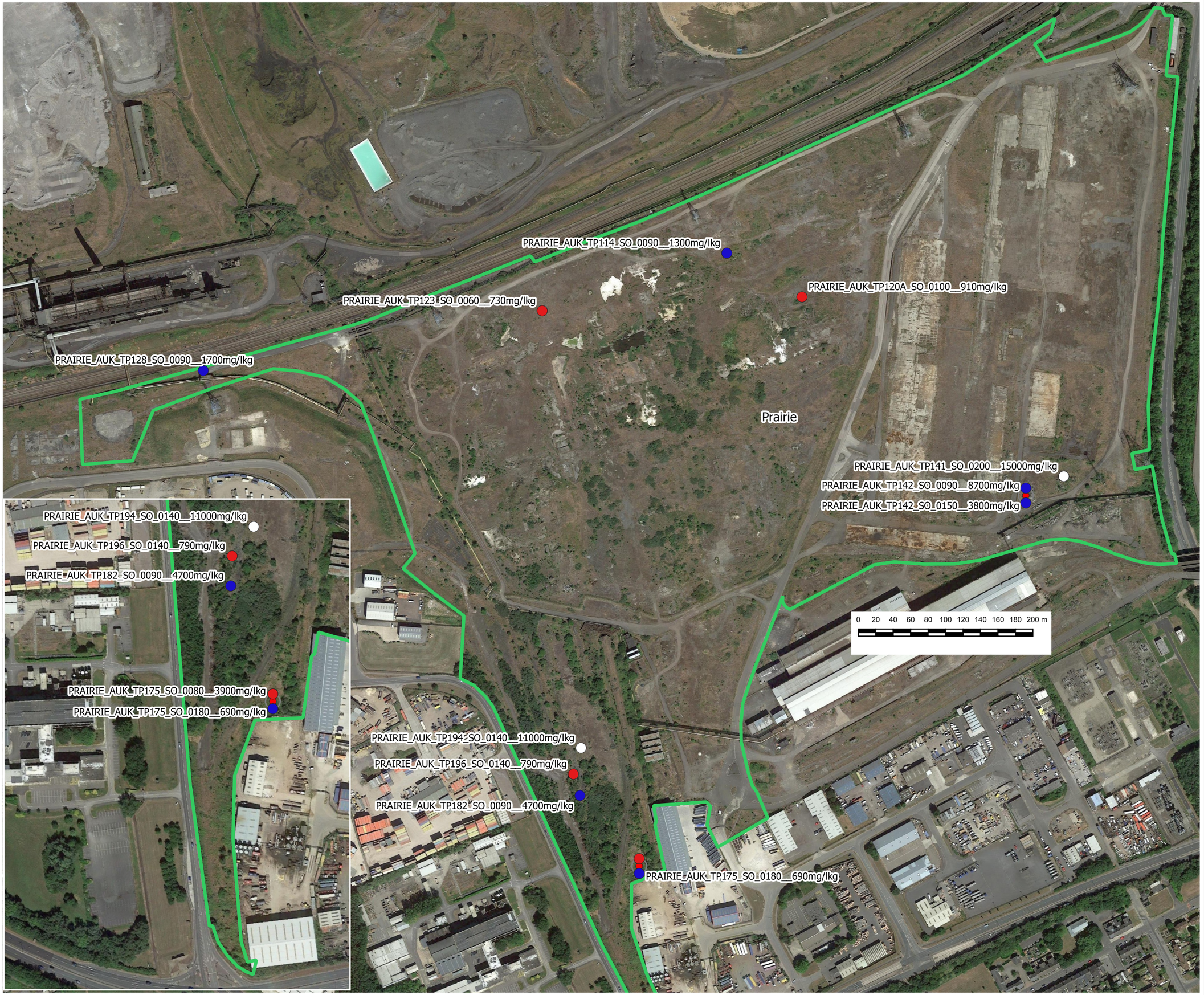
Site: Redcar Steelworks - Prairie

Client:
South Tees Developement Corporation

Project: **10035117**	Figure 11

Date: 04/06/2020
Drawn By: JALM
DRG No: 10035117-AUK-XX-XX-DR-ZZ-0080-02-Prairie_Asbestos

ARCADIS Design & Consultancy for natural and built assets



Legend

Concentration

- >/10,000mg/kg
- 1,000 to <10,000mg/kg
- 500 to <1,000mg/kg

Site Boundary

- Prairie

Notes:

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CONTACT ARCADIS IN CASE OF ANY QUERIES.

Label: LocationID_Concentration

Title: Prairie - Total Petroleum Hydrocarbons Measured Above 500 mg/kg (Arcadis Data)

Site: Redcar Steelworks - Prairie

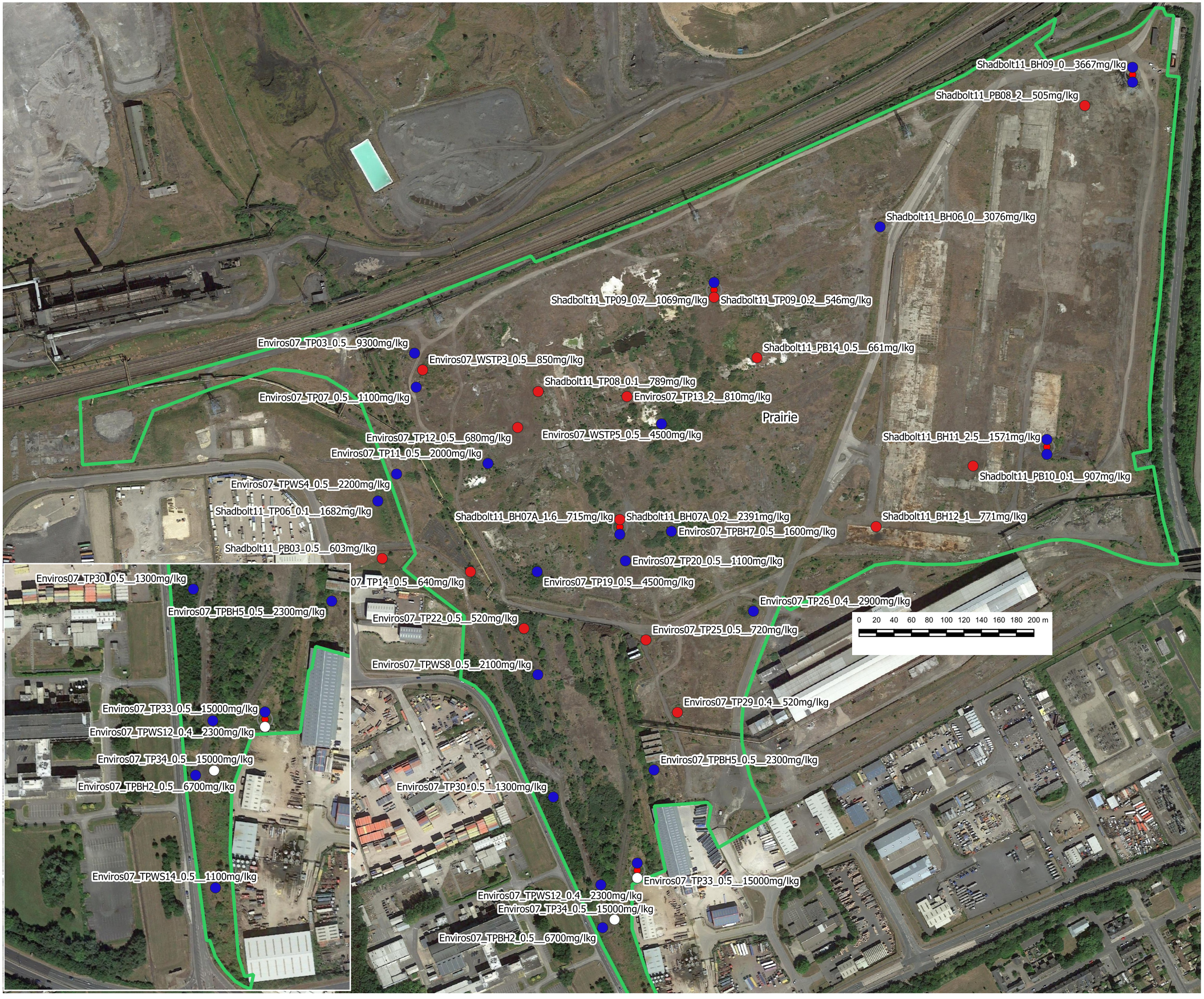
Client:
South Tees Developement Corporation

Project:
10035117

Figure 12

Date: 22/05/2020
Drawn By: JALM
DRG No: 10035117-AUK-XX-XX-DR-ZZ-0077-01-Prairie _TPH

ARCADIS Design & Consultancy for natural and built assets



Legend

Concentration

- >/10,000mg/kg
- 1,000 to <10,000mg/kg
- 500 to <1,000mg/kg

Site Boundary

- Prairie

Notes:

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CONTACT ARCADIS IN CASE OF ANY QUERIES.

Label: LocationID_Concentration

N

Title: Prairie - Total Petroleum Hydrocarbons Measured Above 500 mg/kg (3rd Party Data)

Site: Redcar Steelworks - Prairie

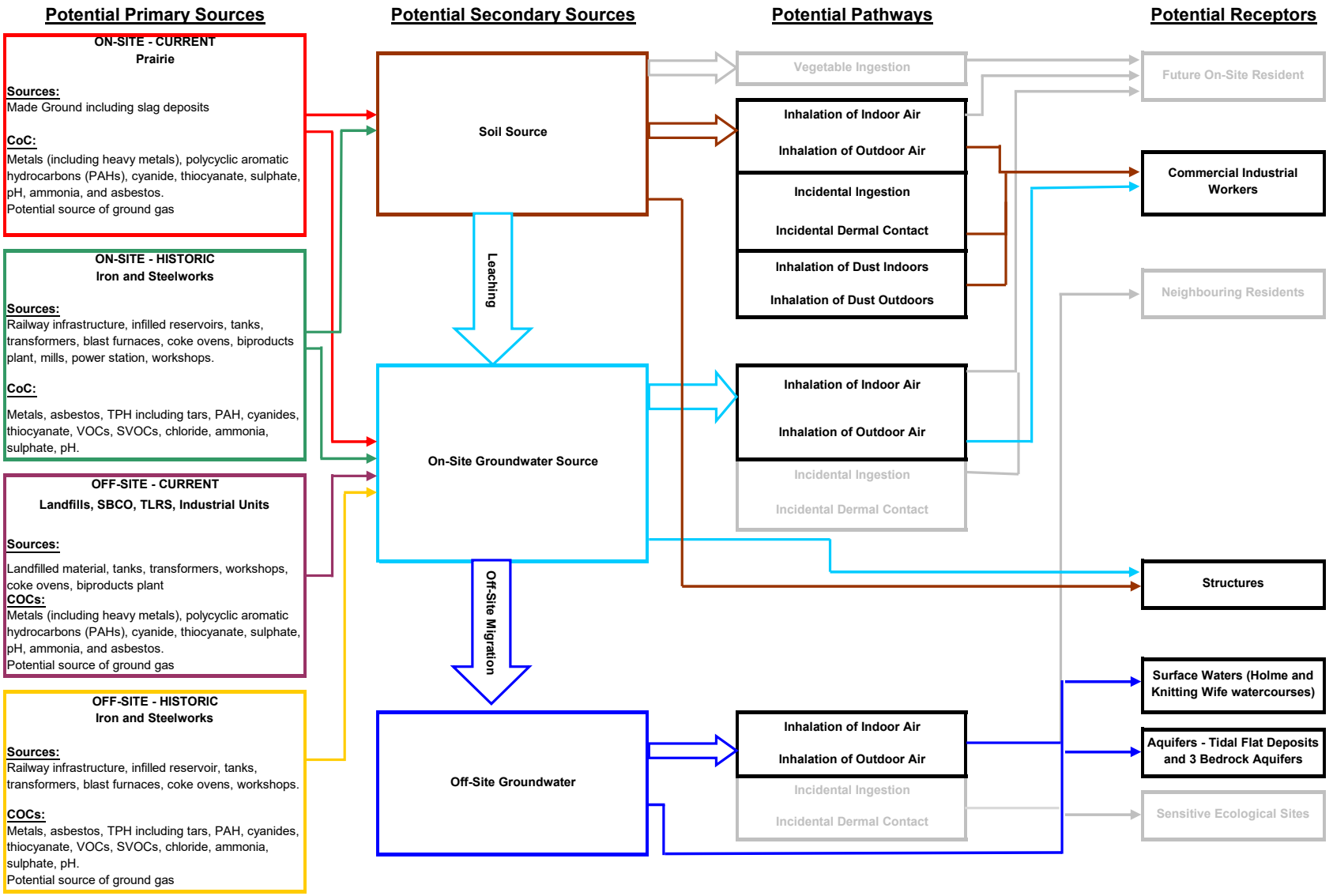
Client:
South Tees Developement Corporation

Project: **10035117**	Figure 13

Date: 22/05/2020
Drawn By: JALM
DRG No: 10035117-AUK-XX-XX-DR-ZZ-0081-01-Prairie _TPH2

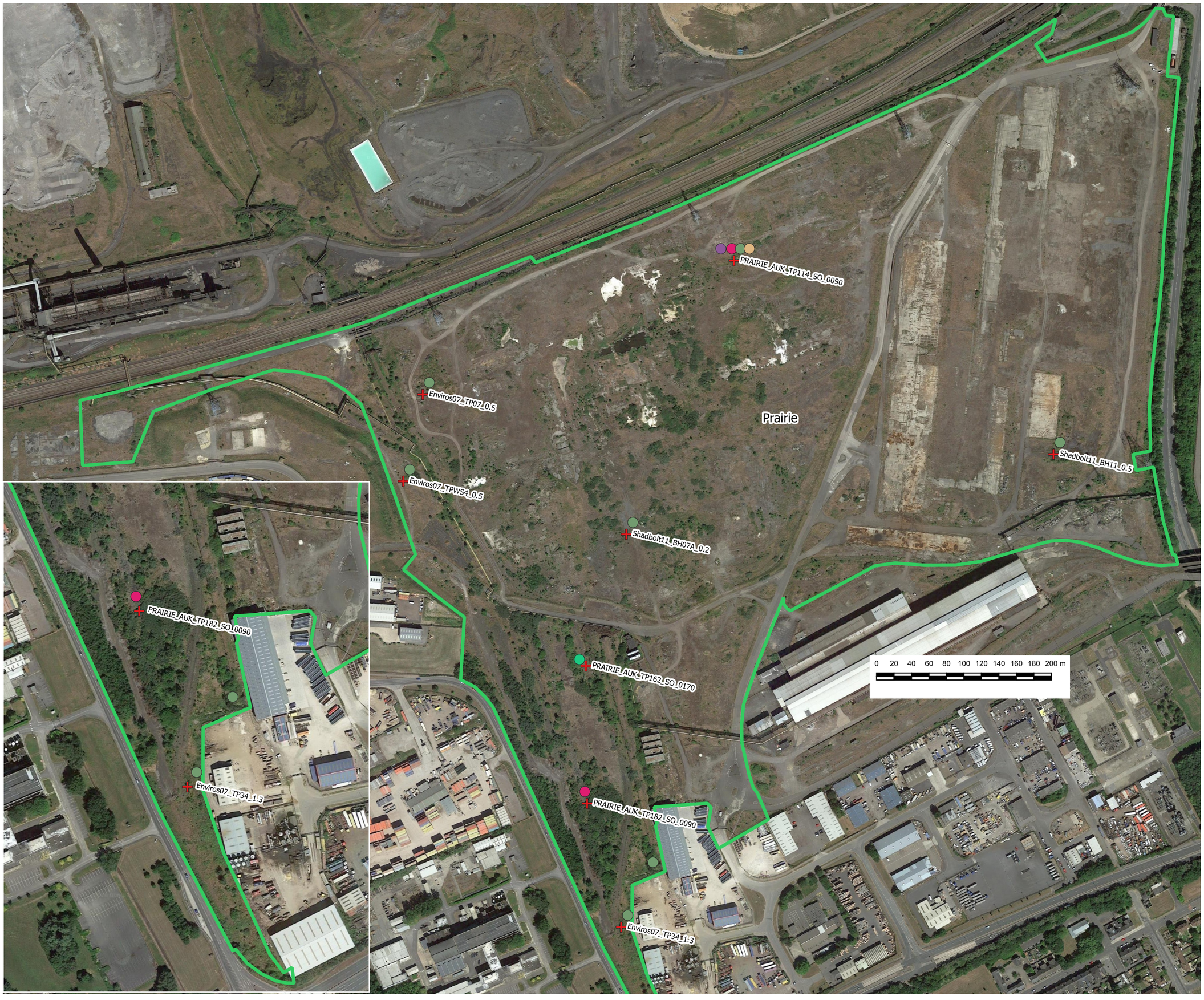
ARCADIS Design & Consultancy for natural and built assets

Figure 14
Outline Conceptual Site Model - Commercial Industrial End Use



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

ARCADIS Design & Consultancy for natural and built assets



Legend

Contaminant

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

Location Centre Point

- Sample ID and Depth

Site Boundary

- Prairie

Notes:

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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

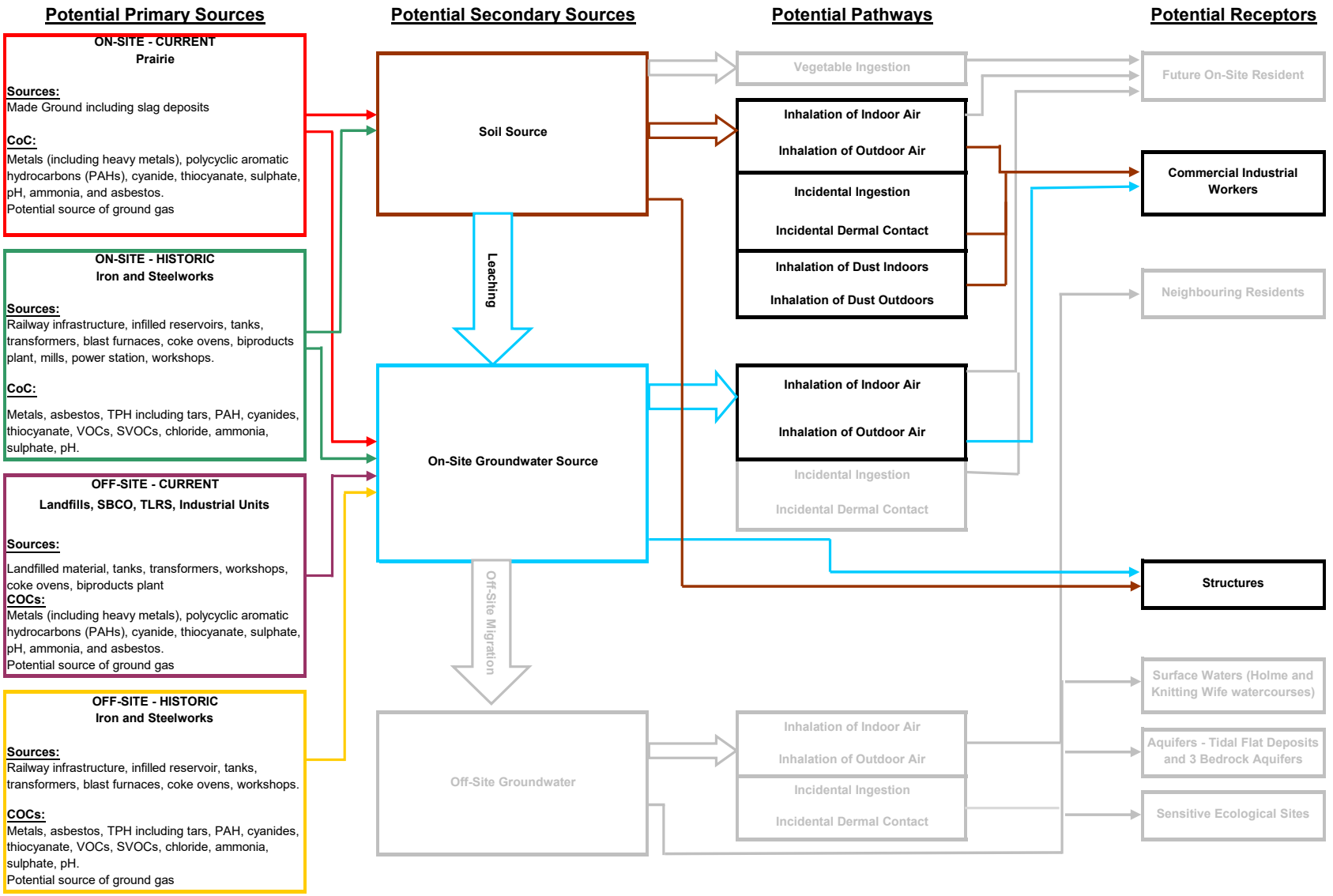
Client:
South Tees Developement Corporation

Project: **10035117**	Figure 15

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

ARCADIS Design & Consultancy for natural and built assets

Figure 16
Outline Conceptual Site Model - Commercial Industrial End Use



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

ARCADIS Design & Consultancy for natural and built assets

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.

1. 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.

5. 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.

6. 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.

7. 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.

9. 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,

operational integrity of the facility or on any regulatory compliance issue

APPENDIX C

Draft Trial Pit and Borehole Logs

PRAIRIE_AUK_BH110
PRAIRIE_AUK_TP149
PRAIRIE_AUK_TP148
PRAIRIE_AUK_TP148A
PRAIRIE_AUK_TP146
PRAIRIE_AUK_TP146A
PRAIRIE_AUK_TP146B
PRAIRIE_AUK_TP146C
PRAIRIE_AUK_TP147
PRAIRIE_AUK_TP145
PRAIRIE_AUK_TP144
PRAIRIE_AUK_TP143
PRAIRIE_AUK_TP154
PRAIRIE_AUK_TP153
PRAIRIE_AUK_TP190
PRAIRIE_AUK_TP159
PRAIRIE_AUK_TP190A
PRAIRIE_AUK_TP157A
PRAIRIE_AUK_TP157B
PRAIRIE_AUK_TP157
PRAIRIE_AUK_TP158
PRAIRIE_AUK_TP156
PRAIRIE_AUK_BH108
PRAIRIE_AUK_TP156A
PRAIRIE_AUK_TP155
PRAIRIE_AUK_TP191
PRAIRIE_AUK_TP164
PRAIRIE_AUK_TP163
PRAIRIE_AUK_TP162
PRAIRIE_AUK_TP192
PRAIRIE_AUK_TP200
PRAIRIE_AUK_TP160
PRAIRIE_AUK_TP161
PRAIRIE_AUK_BH107
PRAIRIE_AUK_TP181
PRAIRIE_AUK_TP180
PRAIRIE_AUK_TP183
PRAIRIE_AUK_TP170
PRAIRIE_AUK_TP193
PRAIRIE_AUK_TP165
PRAIRIE_AUK_TP179
PRAIRIE_AUK_TP168
PRAIRIE_AUK_TP194
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PRAIRIE_AUK_TP187
PRAIRIE_AUK_TP171
PRAIRIE_AUK_TP182
PRAIRIE_AUK_TP195
PRAIRIE_AUK_TP201
PRAIRIE_AUK_TP173
PRAIRIE_AUK_TP185
PRAIRIE_AUK_TP188
PRAIRIE_AUK_TP172
PRAIRIE_AUK_TP174
PRAIRIE_AUK_BH109
PRAIRIE_AUK_TP186
PRAIRIE_AUK_TP175
PRAIRIE_AUK_TP176
PRAIRIE_AUK_TP189
PRAIRIE_AUK_TP177
PRAIRIE_AUK_TP178

Teesside Works
Cleveland
Teesside Laboratories
Vaughan Court
Stapylton Court
Adult Training Centre
Bessemer Court
Depot
Evergreen House
Britannia House
Commercial Park
ESTON ROAD
HOLDEN CLOSE
WEST LANE
STAPYLTON STREET
LANG CLOSE
PICTON ROAD
FOURTH ROAD
LEE ROAD
ST MARKS COURT
ST NICHOLAS COURT
ST THOMAS COURT
ST DOMINIC COURT
BOLCKOW ROAD
Neighbourhood Centre and Health Clinic
Playground

Allied Exploration and Geotechnics Limited
Unit 25 Stella Gill Industrial Estate
Pelton Fell
Chester - Le - Street
Co Durham
DH2 2RG
(Tel): 0191 387 4700
(Fax): 0191 387 4710
(Email): enquiries@aeg.uk.net

KEY:

BOREHOLE

TRIAL PIT

N
W E
S

Base Plan Supplied by Consulting Engineer

Drawing Title:
ENC 01 : Exploratory Hole Location Plan

Drawing No.:
AEG/4251/03

Contract Title:
Prairie Site Ground Investigation Works

Client:
Tees Valley Combined Authority
Teesside Management Office, Trunk Road,
Redcar, TS10 5QW

Consultant:
Arcadis
1 Whitehall Riverside
Leeds, LS1 4BN

Contract No.:
4251

Scale:
1:2500 @ A3

Date:
12/06/2020

Allied Exploration and Geotechnics Limited
Unit 25 Stella Gill Industrial Estate
Pelton Fell
Chester - Le - Street
Co Durham
DH2 2RG
(Tel): 0191 387 4700
(Fax): 0191 387 4710
(Email): enquiries@aeg.uk.net

KEY:

BOREHOLE

TRIAL PIT

N

W E

S

Base Plan Supplied by Consulting Engineer

Drawing Title:
ENC 01 : Exploratory Hole Location Plan

Drawing No.:
AEG/4251/02

Contract Title:
Prairie Site Ground Investigation Works

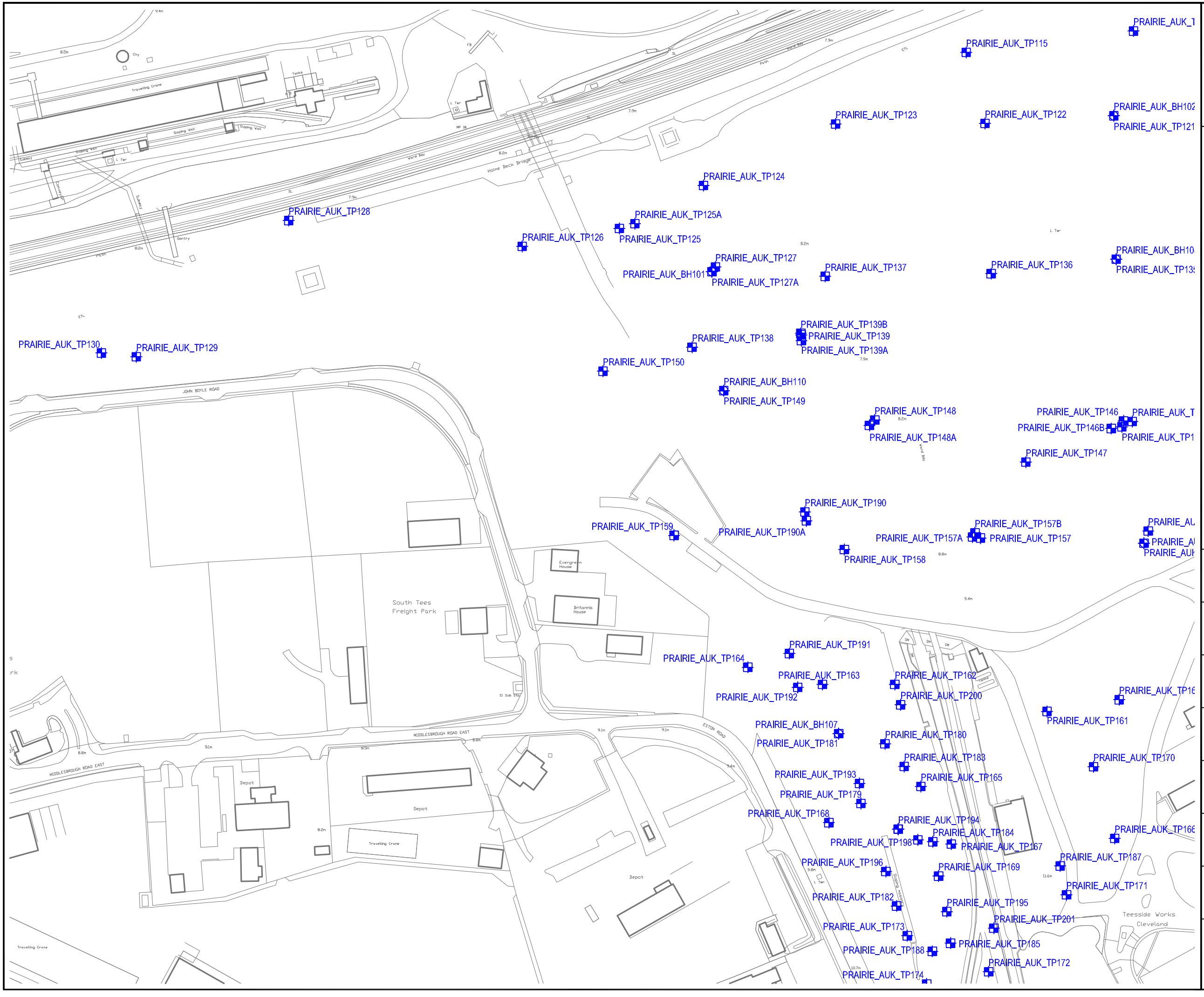
Client:
Tees Valley Combined Authority
Teesside Management Office, Trunk Road,
Redcar, TS10 5QW

Consultant:
Arcadis
1 Whitehall Riverside
Leeds, LS1 4BN

Contract No.:
4251

Scale:
1:2500 @ A3

Date:
12/06/2020



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Chester - Le - Street
Co Durham
DH2 2RG
(Tel): 0191 387 4700
(Fax): 0191 387 4710
(Email): enquiries@aeg.uk.net

KEY:

BOREHOLE

TRIAL PIT

N

W E

S

Base Plan Supplied by Consulting Engineer

Drawing Title:
ENC 01 : Exploratory Hole Location Plan

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Scale:
1:2500 @ A3

Date:
12/06/2020

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

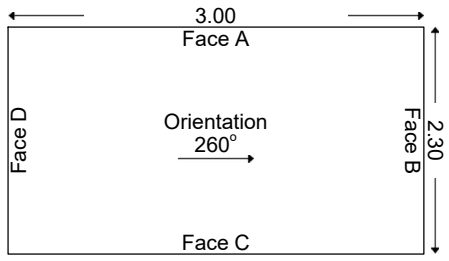
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP101
Client: South Tees Development Corporation	**Location:** E:455044.456 N:521777.057		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.864	**Start Date:** 01/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.10	J1			8.56		0.30	MADE GROUND (Black sandy gravel. Gravel is fine to coarse subangular to subrounded and includes roadstone and concrete).
0.20	B2						MADE GROUND (Black gravelly sand with low cobble content and fragments of tile. Sand is fine to coarse. Gravel is fine to coarse subangular and includes slag, red brick and ash. Cobbles are subangular and include slag. Slag content is 50-75%. Slag is vesicular grey green).
0.60	J3						
0.90	B4						
1.00	PID	<0.1ppm				(1.50)	
1.00	ES5						
				7.06		1.80	
1.80	HSV	68 (32)kPa		6.86		2.00	MADE GROUND (Firm grey mottled brown slightly sandy clay).
1.80	J6						
1.80	B7						MADE GROUND (Black slightly sandy gravel. Gravel is fine to coarse subangular to angular and includes ash, macadam, and slag. Slag content is 50-75%. Slag is grey green. Hydrocarbon odour noted).
2.10	J8			6.56		2.30	
2.20	PID	<0.1ppm					Firm grey mottled brown slightly sandy CLAY.
2.20	ES9						
2.50	J10						
2.80	HSV	53 (22)kPa					
3.00	B11					(2.00)	
3.50	J12						
4.00	B13						
				4.56		4.30	
4.40	HSV	47 (18)kPa		4.36		4.50	Firm grey black slightly sandy CLAY with many partially decomposed plant remains. Organic odour noted.
4.40	J14						
4.50	B15						*Complete at 4.50m BGL.*

PLAN



GROUNDWATER
Groundwater seepage at 2.00m BGL.

STABILITY
Pit sides stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS
n/a

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**

Print Date and Time: 18/06/2020 07:51:03

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP101.1
PRAIRIE_AUK_TP101

Figure PRAIRIE_AUK_TP101.2
PRAIRIE_AUK_TP101

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP101.3
PRAIRIE_AUK_TP101 - Spoil

Figure PRAIRIE_AUK_TP101.4
PRAIRIE_AUK_TP101 - Reinstatement

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

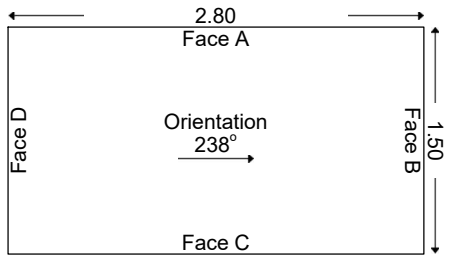
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP102
Client: South Tees Development Corporation	**Location:** E:455025.690 N:521795.056		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.634	**Start Date:** 21/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.10	J1			8.33		0.30	MADE GROUND (Grass over topsoil).
0.20	B2						
0.50	J3						MADE GROUND (Grey black sandy gravel with low cobble and boulder content. Gravel is fine to coarse subangular and includes ash and slag. Slag content is 75-100%. Slag is vesicular green white. Cobbles and boulders are angular and include slag).
0.50	PID	<0.1ppm				(1.00)	
1.00	ES4						
1.00	B5			7.33		1.30	
1.00	PID	<0.1ppm					MADE GROUND (Firm, locally thinly laminated, orange red brown mottled grey sandy slightly gravelly clay with fragments of wood. Gravel is fine to coarse subangular and includes mudstone, cement and slag).
1.50	J6						
1.50	PID	0.1ppm					
2.00	ES7						
2.00	B8						
2.00	PID	0.1ppm					
2.50	J9						between c. 2.50-3.50m BGL ... wet clay with rancid stale water odour noted.
2.50	PID	0.2ppm				(3.00)	
3.00	B10						
3.00	ES11						
3.00	PID	0.4ppm					
3.50	J12						
3.50	PID	0.7ppm					
4.00	B13			4.33		4.30	at c.4.00m BGL ... whole glass bottle.
							Complete at 4.30m BGL.

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- **PRELIM3**

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

Figure PRAIRIE_AUK_TP102.1
PRAIRIE_AUK_TP102

Figure PRAIRIE_AUK_TP102.2
PRAIRIE_AUK_TP102

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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP102.3
PRAIRIE_AUK_TP102 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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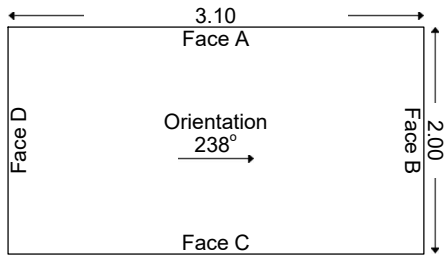
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP103
Client: South Tees Development Corporation	**Location:** E:454951.742 N:521784.855		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.692	**Start Date:** 21/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1						
0.50	PID	<0.1ppm					MADE GROUND (Black brown sandy gravel with medium cobble and boulder content. Gravel is fine to coarse subangular to subrounded and includes ash, macadam, concrete, slag, coal and coke. Slag content is 25-50%. Slag is vesicular grey green white with rust (iron) particles. Cobbles and boulders are subangular and include concrete, macadam and slag).
0.80	B2					(1.70)	
1.00	ES3						
1.00	PID	<0.1ppm					
1.50	J4			5.99		1.70	
1.50	PID	<0.1ppm					at c.1.70m BGL ... yellow brown sand.
1.70	J5						*Terminated at 1.70m BGL - due to close proximity to sewer.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Face C unstable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP103
Client: South Tees Development Corporation	**Location:** E:454951.742 N:521784.855		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.692	**Start Date:** 21/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP103.1
PRAIRIE_AUK_TP103

Figure PRAIRIE_AUK_TP103.2
PRAIRIE_AUK_TP103

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP103
Client: South Tees Development Corporation	**Location:** E:454951.742 N:521784.855		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.692	**Start Date:** 21/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP103.3
PRAIRIE_AUK_TP103

Figure PRAIRIE_AUK_TP103.4
PRAIRIE_AUK_TP103 - Spoil

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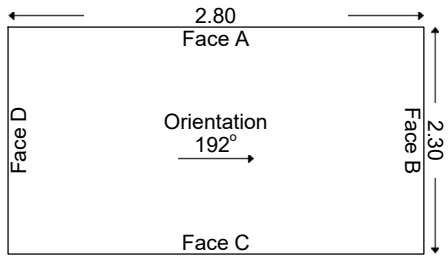
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP104
Client: South Tees Development Corporation	**Location:** E:455113.453 N:521688.905		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.251	**Start Date:** 01/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.00-4.00	B14					(0.40)	MADE GROUND (Brown sandy gravelly topsoil. Sand is fine to coarse. Gravel is fine to coarse subangular and includes concrete and slag).
0.00-4.00	B15						
0.20	J1			8.85		0.40	
0.30	B2					(1.20)	MADE GROUND (Grey brown sandy gravel with low cobble content. Gravel is fine to coarse subangular to subrounded and includes slag, 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)).
0.80	J3						
1.00	B4						from c.1.30m BGL ... high cobble content. Cobbles are subangular and include red and yellow brick and concrete.
1.50	PID	<0.1ppm		7.65		1.60	
1.50	ES5			7.55		1.70	MADE GROUND (Firm fissured brown mottled grey slightly sandy clay).
1.65	J6					(1.10)	MADE GROUND (Firm grey brown slightly sandy clay with some partially decomposed plant remains. Organic odour noted).
1.65	B7						
2.00	J8						
2.50	B9			6.45		2.80	
3.00	HSV	87 (22)kPa				(0.90)	Firm to stiff blue grey mottled brown slightly sandy CLAY.
3.00	J10						
3.50	B11			5.55		3.70	
3.80	J12			5.25		4.00	Firm to stiff indistinctly laminated red brown slightly sandy slightly gravelly CLAY with thin laminations of fine yellow sand. Gravel is fine to coarse subangular and includes sandstone, mudstone and siltstone.
3.90	HSV	86 (32)kPa					
4.00	B13						*Complete at 4.00m BGL.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS
(1) Samples B14 and B15 taken within spoil by client.

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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TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP104
Client: South Tees Development Corporation	**Location:** E:455113.453 N:521688.905		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.251	**Start Date:** 01/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP104.1
PRAIRIE_AUK_TP104

Figure PRAIRIE_AUK_TP104.2
PRAIRIE_AUK_TP104

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP104
Client: South Tees Development Corporation	**Location:** E:455113.453 N:521688.905		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.251	**Start Date:** 01/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP104.3
PRAIRIE_AUK_TP104 - Spoil

Figure PRAIRIE_AUK_TP104.4
PRAIRIE_AUK_TP104 - Reinstatement

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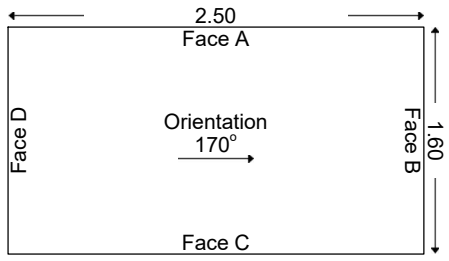
TRIAL PIT RECORD

Status:- PRELIM3

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

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				8.65		0.05	MADE GROUND (Brown sandy topsoil. Sand is fine to coarse).
						(0.55)	MADE GROUND (Strong grey concrete).
				8.10		0.60	
0.80	J1						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).
1.00	B2					(0.90)	
1.20	PID	<0.1ppm					
1.20	ES3			7.20		1.50	
							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).
1.80	J4						
2.00	HSV	60 (20)kPa					
2.00	B5						
2.50	PID	<0.1ppm					at c.2.00m BGL ... engineer notes red brick dust coating on clay.
2.50	ES11						
2.80	ES6					(2.70)	
3.00	HSV	64 (24)kPa					
3.00	B7						
							from c.3.50m BGL ... becoming yellow brown gravelly.
3.80	J8						
				4.50		4.20	
4.20	J9			4.30		4.40	MADE GROUND (Firm grey brown slightly sandy slightly gravelly clay with some partially decomposed plant remains. Gravel is fine to coarse subangular and include slag and red brick. Organic odour noted).
4.30	B10						*Terminated at 4.40m BGL - due to slow progress.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP105.1
PRAIRIE_AUK_TP105

Figure PRAIRIE_AUK_TP105.2
PRAIRIE_AUK_TP105

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TRIAL PIT RECORD

Status:- **PRELIM3**

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

Figure PRAIRIE_AUK_TP105.3
PRAIRIE_AUK_TP105 - Spoil

Figure PRAIRIE_AUK_TP105.4
PRAIRIE_AUK_TP105 - Reinstatement

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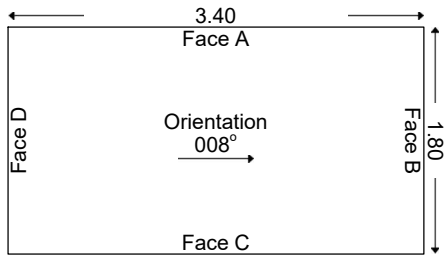
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP106
Client: South Tees Development Corporation	**Location:** E:454906.605 N:521692.903		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.889	**Start Date:** 23/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1						MADE GROUND (Brown sandy gravel with high cobble and boulder content and fragments of metal, wire, wood, metal spanner and plastic. Gravel is fine to coarse subangular and includes concrete, refractory brick, red brick and slag. Cobbles are subangular and include red brick and concrete. Boulders are subangular and include concrete).
0.50	PID	<0.1ppm				(1.80)	
1.00	B2						
1.00	ES3						
1.00	PID	<0.1ppm					
1.50	J4						
1.50	PID	<0.1ppm		6.09		1.80	
2.00	B5						Firm and stiff yellow brown mottled grey slightly sandy CLAY.
2.00	HSV	70 (26)kPa				(1.00)	
2.50	J6						
2.50	PID	<0.1ppm		5.09		2.80	
3.00	B7						Stiff to very stiff orange slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular and includes sandstone, mudstone, coal and siltstone.
3.00	HSV	130 kPa				(0.70)	
3.50	J8			4.39		3.50	
3.50	PID	<0.1ppm					*Complete at 3.50m BGL.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base unstable between 0.00-1.80m BGL..

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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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TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.**
Client: South Tees Development Corporation	**Location:** E:454906.605 N:521692.903		**PRAIRIE_AUK_TP106**
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.889	**Start Date:** 23/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP106.1
PRAIRIE_AUK_TP106

Figure PRAIRIE_AUK_TP106.2
PRAIRIE_AUK_TP106

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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP106.3
PRAIRIE_AUK_TP106 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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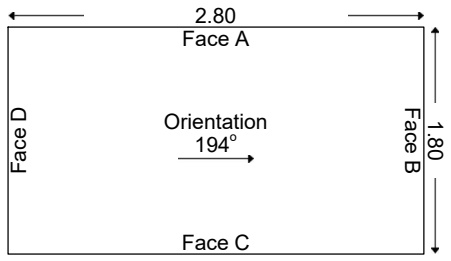
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP107
Client: South Tees Development Corporation	**Location:** E:454800.537 N:521660.804		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.683	**Start Date:** 06/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.05	J1			7.58		0.10	MADE GROUND (Brown sandy gravelly topsoil. Sand is fine to coarse. Gravel is fine to coarse subangular and includes concrete, red brick and roadstone).
0.05	B2						
0.50	J3					(1.50)	MADE GROUND (Firm yellow brown mottled grey slightly sandy 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).
0.80	PID	<0.1ppm					
0.80	ES11						
1.00	HSV	72 (34)kPa					
1.00	B4			6.08		1.60	
1.70	J5					(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).
1.80	PID	<0.1ppm	≈	5.58		2.10	
1.80	ES6						
2.00	B7						
2.30	J8					(0.90)	Firm to stiff grey brown slightly sandy CLAY.
2.50	HSV	67 (34)kPa					
2.50	B9						
2.80	PID	<0.1ppm		4.68		3.00	
2.80	ES10						*Complete at 3.00m BGL.*

PLAN



GROUNDWATER
Groundwater seepage at 2.00m BGL.

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

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

GENERAL REMARKS

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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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP107.1
PRAIRIE_AUK_TP107

Figure PRAIRIE_AUK_TP107.2
PRAIRIE_AUK_TP107

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP107.3
PRAIRIE_AUK_TP107 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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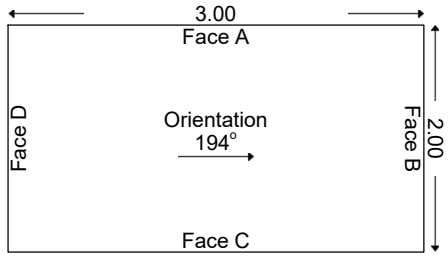
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP108
Client: South Tees Development Corporation	**Location:** E:454733.443 N:521630.866		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.991	**Start Date:** 06/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.30	J1					(0.60)	MADE GROUND (Grey sandy gravel. Gravel is fine to coarse subangular and includes roadstone).
0.50	B2			7.39		0.60	
0.80	J3					(0.60)	MADE GROUND (Black grey sandy gravel with high cobble and boulder content and fragments of metal. Gravel is fine to coarse subangular and includes roadstone, slag and coal. Slag content is 50-75%. Slag is vesicular, grey green. Cobbles and boulders are subangular and include slag and partially cemented slag).
0.90	B4						
1.00	PID	<0.1ppm		6.79		1.20	
1.00	ES5						
1.80	J6						MADE GROUND (Grey sand and gravel with high cobble content and fragments of metal, wood and glass. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded and includes slag, red and yellow brick, sinter, concrete, ash and coal. Slag content is 50-75%. Slag is vesicular, grey green white and iron rich in places (rust). Cobbles are subangular and include red brick and yellow refractory brick. Slight hydrocarbon odour). from 2.00m BGL ... 50% cobbles and bricks.
1.90	B7						
2.00	PID	1.7ppm					
2.00	ES8					(2.80)	
2.80	J9						
2.90	B10						
3.00	PID	0.6ppm					at c.3.00m BGL ... oily sheen noted.
3.00	ES11						
				3.99		4.00	at c.4.00m BGL ... engineer notes possible concrete. *Terminated at 4.00m BGL - due to possible concrete.*

PLAN



GROUNDWATER
Groundwater seepage at 2.30m BGL.

STABILITY
Pit sides stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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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ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP108
Client: South Tees Development Corporation	**Location:** E:454733.443 N:521630.866		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.991	**Start Date:** 06/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP108.1
PRAIRIE_AUK_TP108

Figure PRAIRIE_AUK_TP108.2
PRAIRIE_AUK_TP108

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP108
Client: South Tees Development Corporation	**Location:** E:454733.443 N:521630.866		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.991	**Start Date:** 06/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP108.3
PRAIRIE_AUK_TP108 - Spoil

Figure PRAIRIE_AUK_TP108.4
PRAIRIE_AUK_TP108 - Reinstatement

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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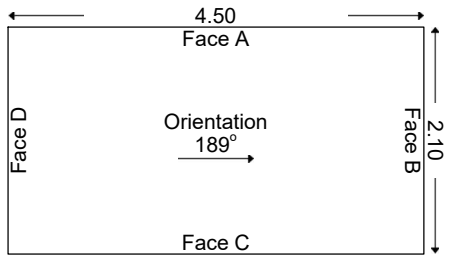
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP109
Client: South Tees Development Corporation	**Location:** E:455108.905 N:521613.046		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.164	**Start Date:** 21/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1						MADE GROUND (Grey brown sandy gravel with high cobble content. Gravel is fine to coarse subangular to subrounded and includes slag, red brick, concrete and ash. Slag content is 75-100%. Slag is vesicular grey green white. Cobbles are subangular and include slag, red brick and refractory bricks).
0.50	PID	<0.1ppm					
1.00	B2						
1.00	ES3						
1.00	PID	0.1ppm				(1.80)	
1.50	J4						
1.50	PID	0.1ppm		7.36		1.80	
1.70	B5						Firm to stiff indistinctly laminated orange brown mottled grey slightly sandy CLAY.
2.00	J6						
2.00	HSV	82 (40)kPa					between c.1.80-1.85m BGL ... possible relict topsoil (plant material).
2.00	PID	<0.1ppm				(1.30)	
2.70	B7						
3.00	J8			6.06		3.10	
3.00	HSV	103 (40)kPa					*Complete at 3.10m BGL.*
3.00	PID	<0.1ppm					

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base moderately stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP109
Client: South Tees Development Corporation	**Location:** E:455108.905 N:521613.046		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.164	**Start Date:** 21/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP109.1
PRAIRIE_AUK_TP109

Figure PRAIRIE_AUK_TP109.2
PRAIRIE_AUK_TP109

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP109
Client: South Tees Development Corporation	**Location:** E:455108.905 N:521613.046		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.164	**Start Date:** 21/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP109.3
PRAIRIE_AUK_TP109 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

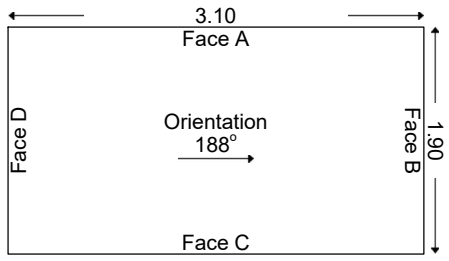
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP110
Client: South Tees Development Corporation	**Location:** E:455001.878 N:521603.274		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.856	**Start Date:** 21/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1						MADE GROUND (Grey brown sandy gravel with high cobble content. Gravel is fine to coarse subangular and includes red brick, slag and concrete. Slag content is 50-75%. Slag is vesicular green grey white with occasional rust (iron) particles. Cobbles are subangular and include concrete and cemented slag).
0.50	PID	<0.1ppm					
1.00	B2					(2.10)	
1.00	ES3						
1.00	PID	<0.1ppm					
1.50	J4						from c.1.50m BGL ... slightly sandy.
1.50	PID	<0.1ppm					
2.00	B5			6.76		2.10	
2.50	J6						MADE GROUND (Soft to firm orange brown mottled grey sandy slightly gravelly clay with fragments of pottery, metal and wood. Gravel is fine to coarse subangular and includes mudstone, coal, slag, coke and red bricks).
2.50	PID	0.3ppm					
2.80	ES7						
3.00	B8						
3.00	HSV	59 (18)kPa				(2.40)	
3.00	PID	0.2ppm					
3.50	J9						
3.50	PID	<0.1ppm					
4.00	B10						
4.00	ES11						
4.00	HSV	49 (12)kPa					
4.00	PID	<0.1ppm		4.36		4.50	
4.50	J12						*Complete at 4.50m BGL.*
4.50	PID	0.1ppm					

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP110.1
PRAIRIE_AUK_TP110

Figure PRAIRIE_AUK_TP110.2
PRAIRIE_AUK_TP110

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP110.3
PRAIRIE_AUK_TP110 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

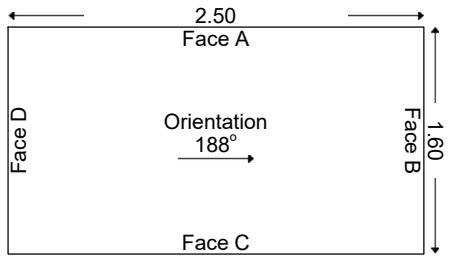
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP111
Client: South Tees Development Corporation	**Location:** E:454901.611 N:521593.473		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.252	**Start Date:** 22/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.40	J1					(0.80)	MADE GROUND (Grass over light brown gravelly sand. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded and includes red brick, concrete and slag).
0.40	PID	<0.1ppm					
0.60	B2			7.45		0.80	
1.00	J3					(1.20)	MADE GROUND (Black gravelly sand and gravel with medium cobble content and fragments of wood, nails and metal. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded and includes ash, macadam, red brick, concrete, coke and slag. Cobbles are subangular and include red brick, macadam and concrete.
1.00	PID	0.1ppm					
1.50	ES4						
1.50	PID	0.2ppm					
1.60	B5			6.25		2.00	
2.00	J6					(1.20)	Firm to stiff orange brown mottled grey slightly sandy CLAY.
2.00	PID	<0.1ppm					
2.50	HSV	70 (30)kPa					
2.60	B7						
3.00	J8			5.05		3.20	
3.00	HSV	101 (32)kPa					
3.00	PID	<0.1ppm					*Complete at 3.20m BGL.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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**

Print Date and Time: 18/06/2020 07:52:25

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP111
Client: South Tees Development Corporation	**Location:** E:454901.611 N:521593.473		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.252	**Start Date:** 22/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP111.1
PRAIRIE_AUK_TP111

Figure PRAIRIE_AUK_TP111.2
PRAIRIE_AUK_TP111

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.**
Client: South Tees Development Corporation	**Location:** E:454901.611 N:521593.473		**PRAIRIE_AUK_TP111**
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.252	**Start Date:** 22/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP111.3
PRAIRIE_AUK_TP111 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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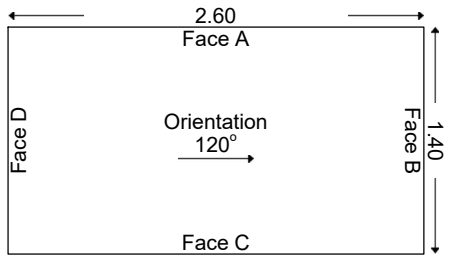
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP112
Client: South Tees Development Corporation	**Location:** E:454830.544 N:521581.112		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.900	**Start Date:** 22/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1					(0.80)	MADE GROUND (Brown sandy gravel with medium cobble content and fragments of metal, plastic, tin cans and nails. Gravel is fine to coarse subangular and includes red brick, concrete, slag and refractory bricks. Cobbles are subangular and include concrete and yellow brick).
0.50	PID	<0.1ppm		8.10		0.80	
0.70	B2						
1.00	J3					(1.10)	MADE GROUND (Black sand and gravel with fragments of metal, nails, plastic and ceramic. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded and includes ash, red brick, concrete, refractory brick and slag).
1.00	PID	<0.1ppm					
1.50	ES4						
1.50	PID	<0.1ppm		7.00		1.90	
1.70	B5					(0.50)	MADE GROUND (Black gravelly sand. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded and includes ash and macadam. Hydrocarbon/oily odour noted).
2.00	J6						
2.00	PID	0.5ppm					
2.10	ES7		1	6.50		2.40	
2.10	PID	0.9ppm					Firm orange brown mottled grey slightly sandy CLAY.
2.30	B8			6.20		2.70	
2.50	HSV	76 (38)kPa				(0.70)	Soft to firm orange mottled brown sandy SILT/CLAY.
2.70	J9						
2.70	PID	<0.1ppm					
3.00	J10						
3.00	PID	<0.1ppm					
3.10	HSV	56 (24)kPa		5.50		3.40	
3.20	B11						*Complete at 3.40m BGL.*

PLAN



GROUNDWATER
Water strike at 2.40m BGL.

STABILITY
Pit sides and base stable throughout excavation.

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

GENERAL REMARKS

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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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP112.1
PRAIRIE_AUK_TP112

Figure PRAIRIE_AUK_TP112.2
PRAIRIE_AUK_TP112

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP112.3
PRAIRIE_AUK_TP112 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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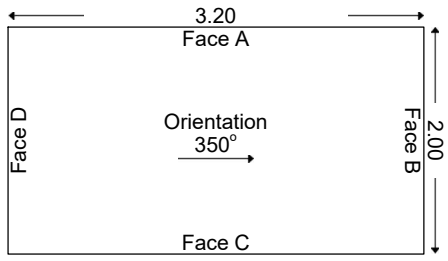
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP113
Client: South Tees Development Corporation	**Location:** E:454694.546 N:521566.242		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.160	**Start Date:** 06/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.05	J1			8.06		0.10	MADE GROUND (Grass over brown sandy topsoil).
0.05	B2						MADE GROUND (Dark brown gravelly sand with low cobble content. Fragments of metal.Sand is fine to coarse and includes ash. Gravel is fine to coarse subangular and include sandstone, ash, red brick, concrete and slag. Slag content is 0-25%. Cobbles are subangular and include red brick, concrete and slag).
0.80	J3						
1.10	B4					(2.20)	
1.30	PID	<0.1ppm					from c.1.30m BGL ... high cobble and boulder content. Cobbles and boulders are subangular and include concrete, brick and partially fused slag.
1.30	ES5						
1.80	B6						at c.1.50-2.30m BGL ... Faces B and C: White grey gravel. Gravel is fine to coarse subangular to subrounded and includes slag.
				5.86		2.30	
2.50	J7						MADE GROUND (Firm orange brown slightly sandy clay).
						(0.70)	
2.80	B8			5.16		3.00	
							Firm indistinctly laminated orange brown sandy CLAY with some silty sand lenses with some fine sand on lamination surfaces.
						(0.80)	
3.50	HSV	54 (20)kPa					
3.50	J9			4.36		3.80	
3.80	B10						*Terminated at 3.80m BGL - due to concrete plinth and groundwater ingress..*

PLAN



GROUNDWATER
Groundwater seepage at 1.70m BGL.

STABILITY
Pit sides stable throughout excavation.

ADDITIONAL INFORMATION

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

GENERAL REMARKS

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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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP113
Client: South Tees Development Corporation	**Location:** E:454694.546 N:521566.242		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.160	**Start Date:** 06/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP113.1
PRAIRIE_AUK_TP113

Figure PRAIRIE_AUK_TP113.2
PRAIRIE_AUK_TP113

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP113
Client: South Tees Development Corporation	**Location:** E:454694.546 N:521566.242		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.160	**Start Date:** 06/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP113.3
PRAIRIE_AUK_TP113 - Spoil

Figure PRAIRIE_AUK_TP113.4
PRAIRIE_AUK_TP113 - Reinstatement

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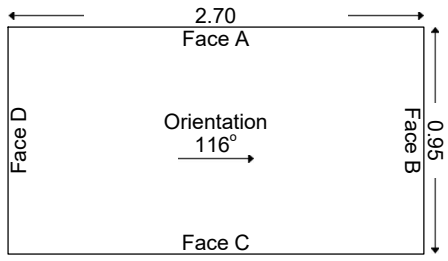
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP114
Client: South Tees Development Corporation	**Location:** E:454611.674 N:521563.937		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.756	**Start Date:** 07/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				7.61		0.15	MADE GROUND (Grass over brown sandy topsoil).
0.10	J1						MADE GROUND (Black clayey gravelly sand 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).
0.10	B2						
0.30	J3						
0.40	B4						
0.50	ES5						
0.50	PID	7.2ppm					
0.90	ES6					(1.85)	at c.0.90m BGL ... clay pipe running from Faces C to A, 12" diameter. Black tar with hydrocarbon odour noted.
0.90	PID	130.0ppm					
1.30	J7						
1.40	B8						
				5.76		2.00	*Terminated at 2.00m BGL - due to water ingress and instability.*

PLAN



GROUNDWATER
Groundwater seepage at 0.50m BGL.

STABILITY
Face A unstable from 1.20m BGL.

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

GENERAL REMARKS

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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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP114
Client: South Tees Development Corporation	**Location:** E:454611.674 N:521563.937		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.756	**Start Date:** 07/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP114.1
PRAIRIE_AUK_TP114

Figure PRAIRIE_AUK_TP114.2
PRAIRIE_AUK_TP114

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP114
Client: South Tees Development Corporation	**Location:** E:454611.674 N:521563.937		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.756	**Start Date:** 07/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP114.3
PRAIRIE_AUK_TP114 - Spoil

Figure PRAIRIE_AUK_TP114.4
PRAIRIE_AUK_TP114 - Reinstatement

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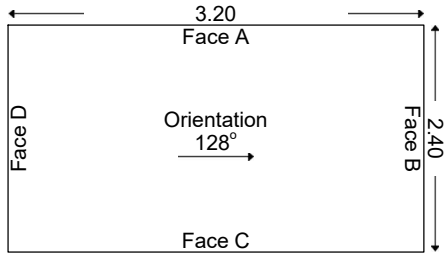
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP115
Client: South Tees Development Corporation	**Location:** E:454493.054 N:521548.834		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.843	**Start Date:** 08/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
			▼	7.44		(0.40) 0.40	MADE GROUND (Dark brown sandy topsoil).
0.30	J1						
0.30	B2						
0.50	W9						
0.80	B3			6.64		(0.80) 1.20	MADE GROUND (Yellow grey refractory bricks).
1.40	J4						MADE GROUND (Grey 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).
1.70	B5						between 1.20-3.10m BGL ... Face B: firm indistinctly laminated grey sandy silt/clay.
1.90	PID	<0.1ppm					
1.90	ES6					(1.90)	
2.00	HSV	25 (8)kPa					
2.40	J7						
2.70	B8			4.74		3.10	
							Complete at 3.10m BGL.

PLAN



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 D. Refer to following sketches for further details.

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP115
Client: South Tees Development Corporation	**Location:** E:454493.054 N:521548.834		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.843	**Start Date:** 08/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP115.1
PRAIRIE_AUK_TP115

Figure PRAIRIE_AUK_TP115.2
PRAIRIE_AUK_TP115

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP115
Client: South Tees Development Corporation	**Location:** E:454493.054 N:521548.834		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.843	**Start Date:** 08/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP115.3
PRAIRIE_AUK_TP115 - Spoil

Figure PRAIRIE_AUK_TP115.4
PRAIRIE_AUK_TP115 - Reinstatement

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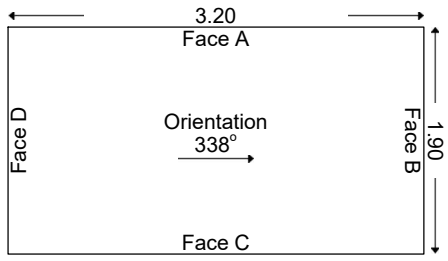
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP116
Client: South Tees Development Corporation	**Location:** E:455046.603 N:521489.508		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.842	**Start Date:** 23/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1						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 vesicular grey green white).
0.50	PID	5.4ppm				(1.60)	
1.00	B2						
1.30	ES3						
1.30	PID	7.1ppm		7.24		1.60	
1.50	J4						
1.60	J5			7.04		1.80	MADE GROUND (Firm black brown slightly sandy clay. Organic odour noted).
1.60	PID	8.8ppm					Firm to stiff orange brown mottled grey slightly sandy CLAY.
1.70	B6						
2.00	J7						
2.00	HSV	100 (68)kPa				(1.10)	
2.00	PID	<0.1ppm					
2.50	B8			5.94		2.90	
3.00	J9						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. from c.3.00m BGL ... fissured with grey veins.
3.00	HSV	130 kPa					
3.00	PID	<0.1ppm				(1.00)	
3.50	B10						
3.90	J11			4.94		3.90	
							Complete at 3.90m BGL.

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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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TRIAL PIT RECORD

Status:- **PRELIM3**

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

Figure PRAIRIE_AUK_TP116.1
PRAIRIE_AUK_TP116

Figure PRAIRIE_AUK_TP116.2
PRAIRIE_AUK_TP116

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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP116.3
PRAIRIE_AUK_TP116 - Spoil

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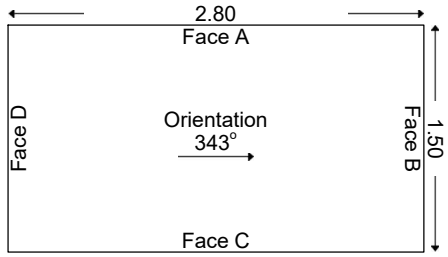
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP117
Client: South Tees Development Corporation	**Location:** E:455003.534 N:521496.122		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.653	**Start Date:** 23/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1						MADE GROUND (Black grey sandy gravel with medium cobble content. Gravel is fine to coarse subangular to subrounded and includes ash, concrete, slag, roadstone, macadam and refractory brick. Cobbles are subangular and include refractory brick, macadam, concrete and cemented slag. Slag content is 75-100%. Slag is vesicular grey green. Sulphurous odour noted).
0.50	PID	9.1ppm					
1.00	B2						
1.20	ES3					(2.60)	
1.20	PID	10.4ppm					
1.50	J4						
2.00	B5						
2.00	PID	9.6ppm					
2.50	J6			6.05		2.60	
2.80	J7					(0.70)	MADE GROUND (Grey clayey sandy gravel with coarse gravel sized pockets of firm orange brown mottled grey slightly sandy clay. Gravel is fine to coarse subangular to subrounded and includes brick, slag and concrete. Slag content is 75-100%. Slag is vesicular grey green white).
3.00	ES8						
3.00	PID	11.1ppm		5.35		3.30	
3.20	B9						*Terminated at 3.30m BGL - due to instability.*

PLAN



GROUNDWATER
Trial pit wet from 2.60m BGL.

STABILITY
From 1.60m BGL all faces unstable (undermining).

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

GENERAL REMARKS

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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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP117.1
PRAIRIE_AUK_TP117

Figure PRAIRIE_AUK_TP117.2
PRAIRIE_AUK_TP117

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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP117.3
PRAIRIE_AUK_TP117 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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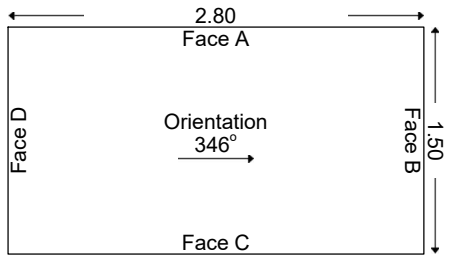
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP118
Client: South Tees Development Corporation	**Location:** E:454893.854 N:521502.578		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.581	**Start Date:** 23/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				8.48		0.10	MADE GROUND (Grass over topsoil).
0.50	J1						MADE GROUND (Brown sand and gravel with low cobble content and fragments of metal. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded and includes red brick, concrete, ash, slag and refractory brick. Cobbles are subangular and include red and yellow brick and concrete).
0.50	PID	0.2ppm				(1.30)	
1.00	B2						
1.20	ES3						
1.20	PID	<0.1ppm		7.18		1.40	
1.50	J4						Firm black brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular and includes mudstone. Organic odour noted. (Possible Made Ground).
1.60	B5			6.88		1.70	
1.60	HSV	68 (42)kPa					Firm orange brown mottled grey slightly sandy CLAY.
1.60	PID	<0.1ppm					
2.20	J6						
2.20	PID	<0.1ppm				(1.30)	
2.50	B7						
2.60	HSV	82 (40)kPa					
				5.58		3.00	
							Complete at 3.00m BGL.

PLAN



GROUNDWATER
Water strike at 1.40m BGL.

STABILITY
Pit sides and base stable throughout excavation.

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

GENERAL REMARKS

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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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP118
Client: South Tees Development Corporation	**Location:** E:454893.854 N:521502.578		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.581	**Start Date:** 23/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP118.1
PRAIRIE_AUK_TP118

Figure PRAIRIE_AUK_TP118.2
PRAIRIE_AUK_TP118

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP118
Client: South Tees Development Corporation	**Location:** E:454893.854 N:521502.578		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.581	**Start Date:** 23/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP118.3
PRAIRIE_AUK_TP118 - Spoil

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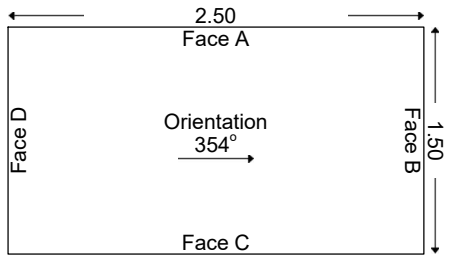
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP119
Client: South Tees Development Corporation	**Location:** E:454801.846 N:521499.669		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.925	**Start Date:** 22/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				8.83		0.10	MADE GROUND (Black macadam).
0.50	J1						MADE GROUND (Black sand and 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).
0.50	PID	<0.1ppm					
1.00	B2					(2.10)	
1.00	PID	<0.1ppm					
1.50	ES3						from c.1.50m BGL ... gravelly sand.
1.50	J4						
1.50	PID	<0.1ppm					
2.00	B5		1				
2.00	PID	<0.1ppm		6.73		2.20	
							Firm orange brown mottled grey slightly sandy CLAY.
2.50	J6						
2.50	ES7					(1.00)	
2.50	HSV	47 (20)kPa					
2.50	PID	<0.1ppm					
3.00	B8			5.73		3.20	
3.00	HSV	65 (22)kPa					
							Complete at 3.20m BGL.

PLAN



GROUNDWATER
Water strike at 2.20m BGL

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP119.1
PRAIRIE_AUK_TP119

Figure PRAIRIE_AUK_TP119.2
PRAIRIE_AUK_TP119

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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP119.3
PRAIRIE_AUK_TP119 - Spoil

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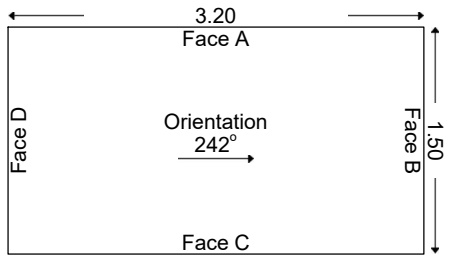
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP120
Client: South Tees Development Corporation	**Location:** E:454697.497 N:521508.611		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.995	**Start Date:** 20/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1						MADE GROUND (Black gravelly sand with low cobble content and fragments of metal. Sand is fine to coarse. Gravel is fine to coarse subangular and includes red brick, ash, concrete and slag. Cobbles are subangular and include concrete).
0.50	PID	<0.1ppm				(1.50)	
0.80	B2						
1.00	ES3						
1.00	PID	<0.1ppm					
				6.50		1.50	
1.50	J4						at c.1.50m BGL ... concrete.
1.50	PID	<0.1ppm					*Terminated at 1.50m BGL - due to concrete obstruction.*

PLAN



GROUNDWATER
Groundwater seepage at 1.50m BGL.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP120
Client: South Tees Development Corporation	**Location:** E:454697.497 N:521508.611		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.995	**Start Date:** 20/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP120.1
PRAIRIE_AUK_TP120

Figure PRAIRIE_AUK_TP120.2
PRAIRIE_AUK_TP120

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP120
Client: South Tees Development Corporation	**Location:** E:454697.497 N:521508.611		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.995	**Start Date:** 20/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP120.3
PRAIRIE_AUK_TP120 - Spoil

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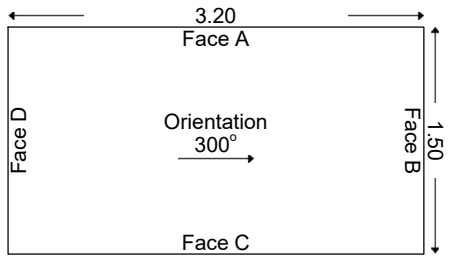
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP120A
Client: South Tees Development Corporation	**Location:** E:454697.765 N:521513.778		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.878	**Start Date:** 20/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1						MADE GROUND (Black gravelly sand with fragments of metal. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded and includes red brick, concrete, ash and slag).
0.50	PID	<0.1ppm				(1.30)	
0.80	B2						
1.00	ES3						
1.00	PID	<0.1ppm		6.58		1.30	
1.50	J4						Soft to firm yellow brown mottled grey sandy CLAY.
1.50	HSV	62 (22)kPa				(0.70)	
1.50	PID	<0.1ppm					
1.80	B5			5.88		2.00	
2.50	J6						Firm to stiff thinly laminated orange brown mottled grey slightly sandy CLAY with fine yellow brown sand on the laminae.
2.50	HSV	74 (18)kPa				(0.90)	
2.50	PID	<0.1ppm					
2.80	B7			4.98		2.90	
							Complete at 2.90m BGL.

PLAN



GROUNDWATER
Groundwater seepage at 1.30m BGL

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP120A
Client: South Tees Development Corporation	**Location:** E:454697.765 N:521513.778		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.878	**Start Date:** 20/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP120A.1
PRAIRIE_AUK_TP120A

Figure PRAIRIE_AUK_TP120A.2
PRAIRIE_AUK_TP120A

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP120A
Client: South Tees Development Corporation	**Location:** E:454697.765 N:521513.778		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.878	**Start Date:** 20/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP120A.3
PRAIRIE_AUK_TP120A - Spoil

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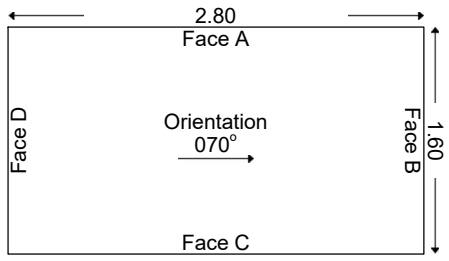
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP121
Client: South Tees Development Corporation	**Location:** E:454597.680 N:521503.836		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.213	**Start Date:** 09/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.40	J1					(0.90)	MADE GROUND (Brown slightly gravelly sand. Sand is fine to coarse. Gravel is fine to coarse subangular and includes red brick and slag).
0.80	B2		1	7.31		0.90	
1.20	J3						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). from c.1.20m BGL ... low cobble content. Cobbles are subangular and include slag.
1.50	PID	<0.1ppm					
1.50	ES4						
1.80	B5						
2.20	J6						
						(3.60)	
2.80	B7						
3.20	J8						
3.80	B9						
4.20	J10						
				3.71		4.50	
4.50	B11						*Complete at 4.50m BGL.*

PLAN



GROUNDWATER
Groundwater strike at 0.90m BGL.

STABILITY
Pit sides stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP121
Client: South Tees Development Corporation	**Location:** E:454597.680 N:521503.836		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.213	**Start Date:** 09/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP121.1
PRAIRIE_AUK_TP121

Figure PRAIRIE_AUK_TP121.2
PRAIRIE_AUK_TP121

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TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.**
Client: South Tees Development Corporation	**Location:** E:454597.680 N:521503.836		**PRAIRIE_AUK_TP121**
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.213	**Start Date:** 09/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP121.3
PRAIRIE_AUK_TP121 - Spoil

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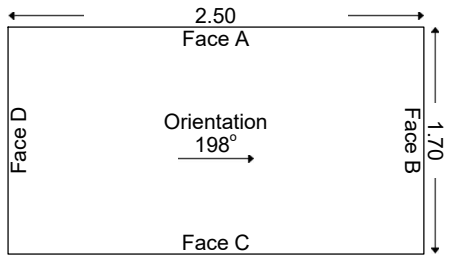
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP122
Client: South Tees Development Corporation	**Location:** E:454506.312 N:521498.464		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.802	**Start Date:** 08/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.40	J1		1			(1.20)	MADE GROUND (Black sandy gravel with high cobble content and fragments of wood and metal, pipes and wood sleeper. Gravel is fine to coarse subangular to subrounded and includes red brick, refractory brick, slag and concrete. Slight hydrocarbon odour noted).
0.80	B2						
1.00	PID	<0.1ppm		6.60		1.20	
1.00	ES3						*Terminated at 1.20m BGL - due to fast water ingress.*

PLAN



GROUNDWATER
Water strike at 0.30m BGL (Heavy inflow).

STABILITY
Pit sides stable throughout excavation.

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

GENERAL REMARKS

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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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP122.1
PRAIRIE_AUK_TP122

Figure PRAIRIE_AUK_TP122.2
PRAIRIE_AUK_TP122

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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP122.3
PRAIRIE_AUK_TP122 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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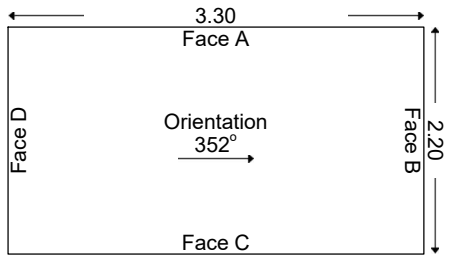
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP123
Client: South Tees Development Corporation	**Location:** E:454400.354 N:521497.995		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.155	**Start Date:** 08/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.30	J1					(0.80)	MADE GROUND (Brown sandy gravel. Gravel is fine to coarse subangular and includes slag, concrete, macadam and red and yellow brick).
0.50	B2						
0.60	PID	<0.1ppm					
0.60	ES3			7.36		0.80	
						(2.00)	MADE GROUND (Red and yellow refractory bricks). (Engineer notes bricks are stacked - possible structure).
1.50	B4			5.36		2.80	
							Terminated at 2.80m BGL - due to brick structure..

PLAN



GROUNDWATER
Groundwater strike at 0.60m BGL.

STABILITY
Pit sides stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP123.1
PRAIRIE_AUK_TP123

Figure PRAIRIE_AUK_TP123.2
PRAIRIE_AUK_TP123

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP123.3
PRAIRIE_AUK_TP123 - Spoil

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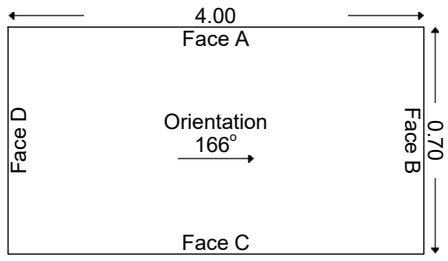
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP124
Client: South Tees Development Corporation	**Location:** E:454306.625 N:521454.373		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.269	**Start Date:** 08/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.10	J1			7.97		0.30	MADE GROUND (Black sandy topsoil).
0.20	B2					(1.40)	MADE GROUND (Grey black gravelly sand with fragments of metal and plastic. Sand is fine to coarse. Gravel is fine to coarse subangular and includes red brick, concrete, ash and sandstone).
1.00	J3						
1.50	PID	<0.1ppm		6.57		1.70	
1.50	B4						
1.50	ES5						Firm indistinctly laminated orange brown mottled grey slighty sandy CLAY.
2.00	J6						
2.20	HSV	32 (20)kPa				(1.30)	
2.50	PID	<0.1ppm					
2.50	B7						
2.50	ES8			5.27		3.00	
							Complete at 3.00m BGL.

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides stable throughout excavation.

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

GENERAL REMARKS

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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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP124
Client: South Tees Development Corporation	**Location:** E:454306.625 N:521454.373		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.269	**Start Date:** 08/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP124.1
PRAIRIE_AUK_TP124

Figure PRAIRIE_AUK_TP124.2
PRAIRIE_AUK_TP124

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP124
Client: South Tees Development Corporation	**Location:** E:454306.625 N:521454.373		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.269	**Start Date:** 08/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP124.3
PRAIRIE_AUK_TP124 - Spoil

Figure PRAIRIE_AUK_TP124.4
PRAIRIE_AUK_TP124 - Spoil

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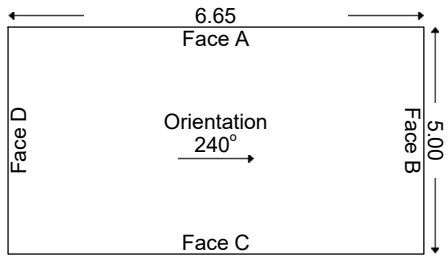
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP125
Client: South Tees Development Corporation	**Location:** E:454246.923 N:521423.879		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.473	**Start Date:** 09/04/2020	**Sheet:** 1 of 2

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				8.27		0.20	MADE GROUND (Strong grey concrete).
							Terminated at 0.20m BGL - due to concrete obstruction.

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

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

GENERAL REMARKS
(1) No samples taken.

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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TRIAL PIT RECORD

Status:- **PRELIM3**

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

Figure PRAIRIE_AUK_TP125.1
PRAIRIE_AUK_TP125

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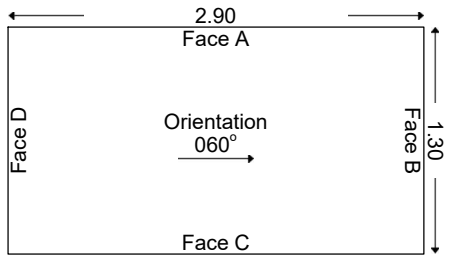
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP125A
Client: South Tees Development Corporation	**Location:** E:454257.923 N:521427.282		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.619	**Start Date:** 09/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.10 0.20	J1 B2			8.22		(0.40) 0.40	MADE GROUND (Brown gravelly sand. Sand is fine to coarse. Gravel is fine to coarse subangular and includes red brick, concrete, macadam and ash).
				7.42		(0.80) 1.20	MADE GROUND (Concrete structure infilled with with gravel (20mm)). at c.1.20m BGL ... concrete base. *Terminated at 1.20m BGL - due to concrete base..*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides stable throughout excavation.

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

GENERAL REMARKS

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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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP125A
Client: South Tees Development Corporation	**Location:** E:454257.923 N:521427.282		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.619	**Start Date:** 09/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP125A.1
PRAIRIE_AUK_TP125a

Figure PRAIRIE_AUK_TP125A.2
PRAIRIE_AUK_TP125a

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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP125A.3
PRAIRIE_AUK_TP125A - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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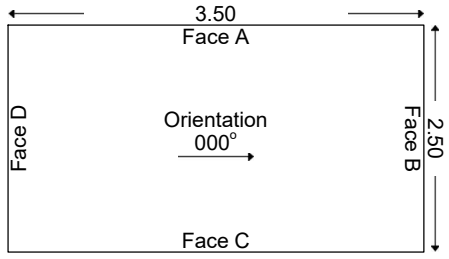
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP126
Client: South Tees Development Corporation	**Location:** E:454177.949 N:521411.231		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.749	**Start Date:** 17/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.20	J1					(0.50)	MADE GROUND (Brown black red sandy gravel with fragments of wood and metal. Sand is fine to coarse. Gravel is fine to coarse subangular and includes ash, clinker and slag. Slag content is 0-25%).
0.40	B2			8.25		0.50	at c.0.50m BGL ... concrete obstruction.
1.40	J3					(2.20)	MADE GROUND (Brown black red and yellow gravel, cobbles and boulders with fragments of metal. Gravel is fine to coarse angular to subangular and includes slag and 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						between c.0.50-2.70m BGL ... concrete structure surrounds the north and east faces of pit.
2.60	ES5		≈	6.05		2.70	at c.2.70m BGL ... concrete obstruction - pit extended west.
2.60	PID	0.2ppm					*Terminated at 2.70m BGL - due to concrete obstruction.*

PLAN



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

STABILITY
Pit sides and base unstable throughout excavation.

ADDITIONAL INFORMATION

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

GENERAL REMARKS
(1) Trial pit extended west by 2.00m due to concrete obstruction at 0.50m BGL.

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

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP126
Client: South Tees Development Corporation	**Location:** E:454177.949 N:521411.231		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.749	**Start Date:** 17/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP126.1
PRAIRIE_AUK_TP126

Figure PRAIRIE_AUK_TP126.2
PRAIRIE_AUK_TP126

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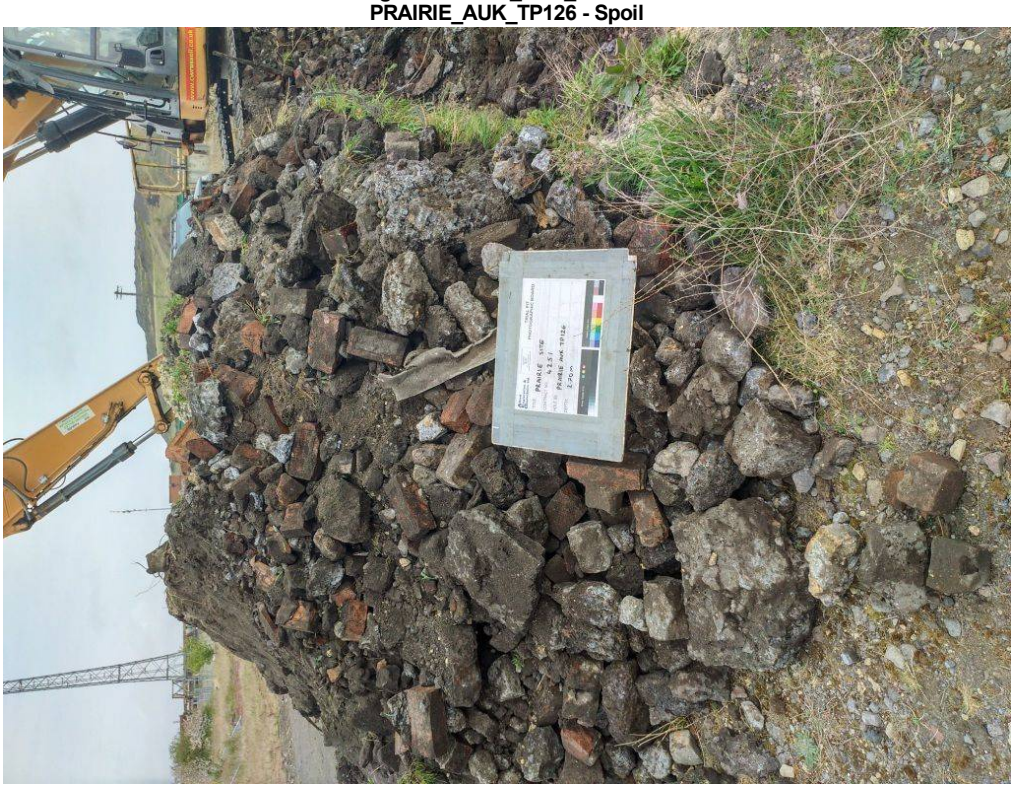
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP126
Client: South Tees Development Corporation	**Location:** E:454177.949 N:521411.231		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.749	**Start Date:** 17/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP126.3
PRAIRIE_AUK_TP126 - Spoil



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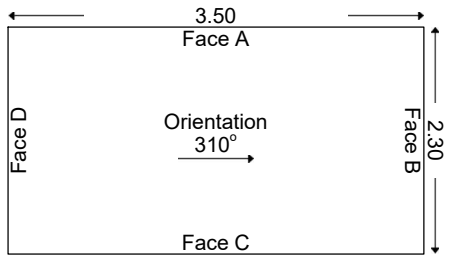
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP127
Client: South Tees Development Corporation	**Location:** E:454315.017 N:521396.533		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.483	**Start Date:** 23/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.10 0.20 0.30	J1 B2 ES3			8.08		(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).
0.30 0.60	PID J4	<0.1ppm		7.58		(0.50) 0.90	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).
				7.38		1.10	MADE GROUND (Strong grey green concrete/slag).
1.40 1.40 1.60	J5 PID B6	<0.1ppm	▼1	6.78		(0.60) 1.70	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). at c.1.70m BGL ... concrete. *Terminated at 1.70m BGL - due to concrete.*

PLAN



GROUNDWATER
Water strike at 1.70m BGL

STABILITY
Pit sides and base stable throughout excavation.

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

GENERAL REMARKS
(1) Relocated to PRAIRIE_AUK_TP127A.

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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TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.**
Client: South Tees Development Corporation	**Location:** E:454315.017 N:521396.533		**PRAIRIE_AUK_TP127**
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.483	**Start Date:** 23/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP127.1
PRAIRIE_AUK_TP127

Figure PRAIRIE_AUK_TP127.2
PRAIRIE_AUK_TP127

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TRIAL PIT RECORD

Status:- **PRELIM3**

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

Figure PRAIRIE_AUK_TP127.3
PRAIRIE_AUK_TP127 - Spoil

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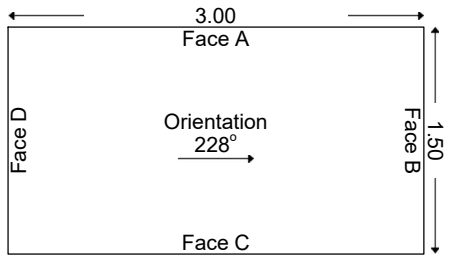
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.**
Client: South Tees Development Corporation	**Location:** E:454312.599 N:521393.254		**PRAIRIE_AUK_TP127A**
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.644	**Start Date:** 23/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		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).
				6.74		(1.50) 1.90	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). between c.0.90-3.00m BGL ... Face D: Strong grey concrete wall/foundation.
2.20 2.50 2.50 2.80 2.80	J1 B2 HSV ES3 PID	 70 (34)kPa <0.1ppm		5.64		(1.10) 3.00	Firm yellow brown mottled grey sandy CLAY. (Possible Made Ground).
							Complete at 3.00m BGL.

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS
(1) Relocated from PRAIRIE_AUK_TP127.

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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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP127A.1
PRAIRIE_AUK_TP127A

Figure PRAIRIE_AUK_TP127A.2
PRAIRIE_AUK_TP127A

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TRIAL PIT RECORD

Status:- **PRELIM3**

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

Figure PRAIRIE_AUK_TP127A.3
PRAIRIE_AUK_TP127A - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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
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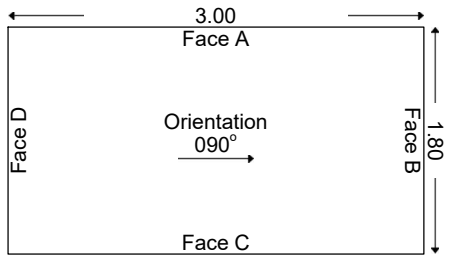
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP128
Client: South Tees Development Corporation	**Location:** E:454012.262 N:521429.533		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.117	**Start Date:** 17/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				7.87		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).
0.50	J1					(0.75)	
0.80	B2		≈	7.12		1.00	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.
0.90	ES3			7.02		1.10	MADE GROUND (Firm brown mottled orange clay). between c.1.00-1.10m BGL ... 100mm diameter cast iron pipe running 90 degrees.
0.90	PID	0.9ppm					*Terminated at 1.10m BGL - due to services.*

PLAN



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 Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP128
Client: South Tees Development Corporation	**Location:** E:454012.262 N:521429.533		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.117	**Start Date:** 17/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP128.1
PRAIRIE_AUK_TP128

Figure PRAIRIE_AUK_TP128.2
PRAIRIE_AUK_TP128

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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP128.3
PRAIRIE_AUK_TP128 - Spoil

Figure PRAIRIE_AUK_TP128.4
PRAIRIE_AUK_TP128 - Spoil

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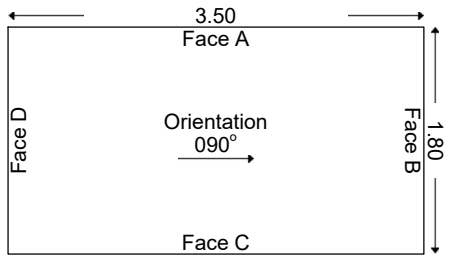
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP129
Client: South Tees Development Corporation	**Location:** E:453904.211 N:521332.918		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.593	**Start Date:** 17/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				9.39		0.20	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).
				9.14		0.45	
0.60	J1					(0.55)	MADE GROUND (Concrete).
0.80	B2			8.59		1.00	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, brick, ash and clinker. Slag content is 50-75%. Slag is vesicular grey green).
				8.29		1.30	
1.40	J3					(1.00)	Soft to firm and friable brown grey mottled black CLAY.
1.80	B4						Firm and friable brown very sandy interlaminated SILT and CLAY with silty sand lenses.
2.10	PID	<0.1ppm		7.29		2.30	
2.10	ES4A						*Complete at 2.30m BGL.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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

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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP129.1
PRAIRIE_AUK_TP129

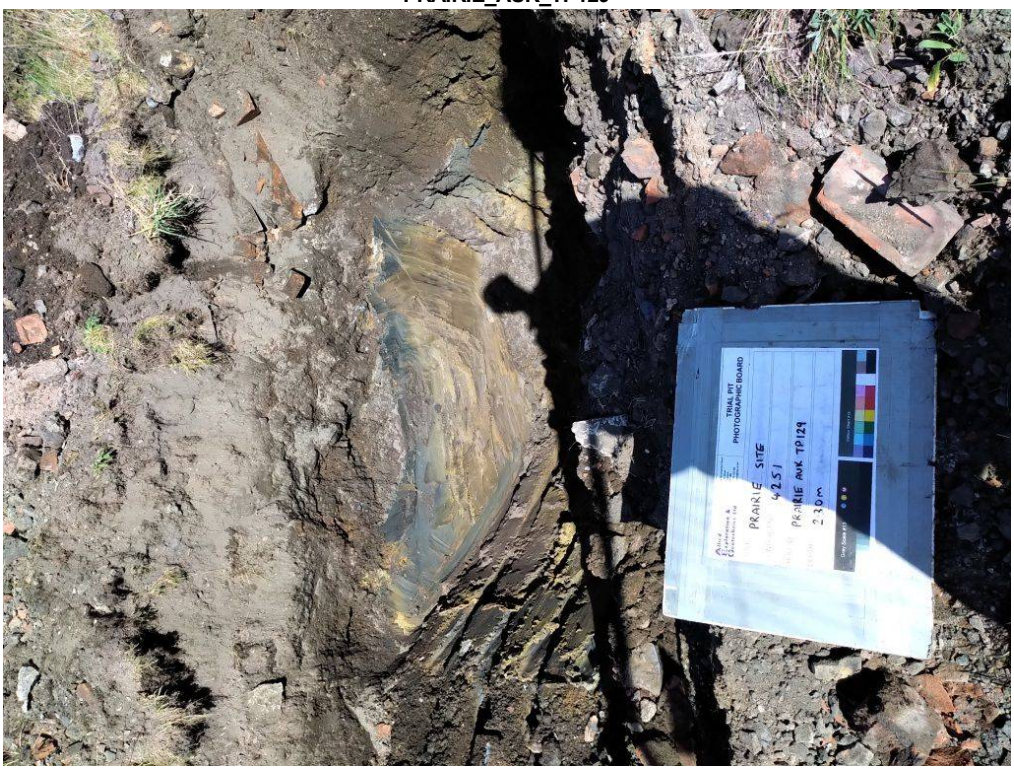

Figure PRAIRIE_AUK_TP129.2
PRAIRIE_AUK_TP129

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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP129.3
PRAIRIE_AUK_TP129 - Spoil

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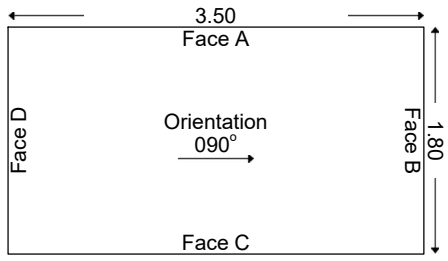
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP130
Client: South Tees Development Corporation	**Location:** E:453879.368 N:521335.549		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.144	**Start Date:** 17/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				9.04		0.10	MADE GROUND (Brown sandy gravel with many rootlets. Sand is fine to coarse and includes predominantly ash. Gravel is fine to coarse subangular and includes coke, sandstone, concrete and clinker).
0.20	J1						
0.30	B2			8.74		0.40	
						(0.60)	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 slag, concrete, brick, ash and clinker. Slag content is 50-75%. Slag is vesicular grey green. Cobbles are angular and include slag).
0.80	J3			8.14		1.00	
0.90	B4						
1.00	ES4A						
1.00	PID	1.0ppm					
1.40	J5					(1.40)	MADE GROUND (Brown black sandy gravel. Sand is fine to coarse and includes predominantly ash. Gravel is fine to coarse subangular and includes ash, clinker, coke and slag. Slag content is 25-50%. Slag is vesicular grey green).
1.80	B6						
				6.74		2.40	Firm and friable brown sandy interlaminated SILT and CLAY with silty sand lenses.
							Complete at 2.40m BGL.

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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

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TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP130
Client: South Tees Development Corporation	**Location:** E:453879.368 N:521335.549		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.144	**Start Date:** 17/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP130.1
PRAIRIE_AUK_TP130

Figure PRAIRIE_AUK_TP130.2
PRAIRIE_AUK_TP130

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP130
Client: South Tees Development Corporation	**Location:** E:453879.368 N:521335.549		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.144	**Start Date:** 17/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP130.3
PRAIRIE_AUK_TP130 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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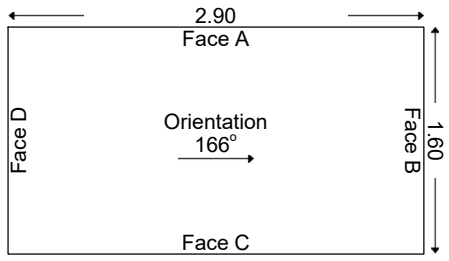
TRIAL PIT RECORD

Status:- PRELIM3

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

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.20	J1			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).
0.40	B2						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).
1.00	J3						from c.0.50-1.20m BGL ... partially cemented slag fill material.
1.50	B4					(2.00)	
1.80	ES5						
1.80	PID	<0.1ppm					
2.00	J6			6.21		2.50	
2.60	J7						MADE GROUND (Firm grey mottled orange brown slightly sandy clay).
2.80	HSV	45 (20)kPa					
2.80	B8					(1.00)	
3.60	J9			5.21		3.50	
3.80	HSV	59 (34)kPa					Firm indistinctly laminated grey mottled orange brown slightly sandy CLAY.
3.80	B10					(1.00)	
				4.21		4.50	
							Complete at 4.50m BGL.

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Faces A and C unstable from 1.20m BGL.

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

GENERAL REMARKS

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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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP131.1
PRAIRIE_AUK_TP131

Figure PRAIRIE_AUK_TP131.2
PRAIRIE_AUK_TP131

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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP131.3
PRAIRIE_AUK_TP131 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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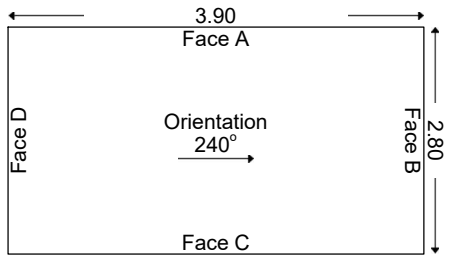
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP132
Client: South Tees Development Corporation	**Location:** E:454904.695 N:521395.723		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.713	**Start Date:** 02/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.05	J1			8.66		0.05	MADE GROUND (Grass over brown sandy topsoil).
				8.56		0.15	MADE GROUND (Weak grey concrete).
0.50	J2						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).
1.00	B3					(2.15)	at c.0.90m BGL ... engineer notes girder on side C.
1.30	PID	<0.1ppm					
1.30	ES4						
1.50	J5						
							at c.1.80m BGL ... concrete boulder with rebar, 80mmx80mmx50mm.
2.00	B6						
				6.41		2.30	at c.2.30m BGL ... concrete channel. *Terminated at 2.30m BGL - due to concrete channel..*

PLAN



GROUNDWATER
Groundwater seepage at 1.90m BGL.

STABILITY
Face A unstable throughout excavation.

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

GENERAL REMARKS

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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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP132
Client: South Tees Development Corporation	**Location:** E:454904.695 N:521395.723		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.713	**Start Date:** 02/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP132.1
PRAIRIE_AUK_TP132

Figure PRAIRIE_AUK_TP132.2
PRAIRIE_AUK_TP132

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP132
Client: South Tees Development Corporation	**Location:** E:454904.695 N:521395.723		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.713	**Start Date:** 02/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP132.3
PRAIRIE_AUK_TP132 - Spoil

Figure PRAIRIE_AUK_TP132.4
PRAIRIE_AUK_TP132 - Reinstatement

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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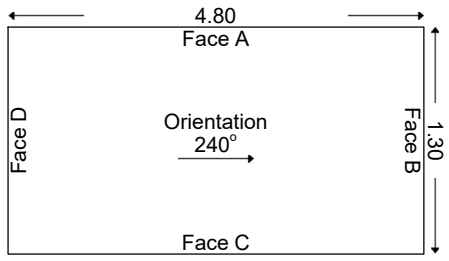
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP132A
Client: South Tees Development Corporation	**Location:** E:454897.504 N:521394.100		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.542	**Start Date:** 02/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				8.49		0.05	MADE GROUND (Grass over brown sandy topsoil).
				8.39		0.15	MADE GROUND (Weak grey concrete).
						(1.35)	MADE GROUND (Grey sandy gravel with medium cobble content and fragments of metal 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 red brick, concrete and slag). at c.0.50m BGL ... corroded metal cable. at c.0.90m BGL ... corroded metal cable.
				7.04		1.50	
				6.94		1.60	MADE GROUND (Firm brown mottled black slightly sandy slightly gravelly clay. Gravel is fine to coarse subangular and includes coal).
							Terminated at 1.60m BGL - due to concrete structure and metal cables..

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides stable throughout excavation.

ADDITIONAL INFORMATION

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

GENERAL REMARKS
(1) No samples taken.
(2) Concrete structures in pit - refer to sketch/photos for further information..

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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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP132A
Client: South Tees Development Corporation	**Location:** E:454897.504 N:521394.100		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.542	**Start Date:** 02/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP132A.1
PRAIRIE_AUK_TP132A

Figure PRAIRIE_AUK_TP132A.2
PRAIRIE_AUK_TP132A

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP132A
Client: South Tees Development Corporation	**Location:** E:454897.504 N:521394.100		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.542	**Start Date:** 02/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP132A.3
PRAIRIE_AUK_TP132A

Figure PRAIRIE_AUK_TP132A.4
PRAIRIE_AUK_TP132A - Spoil

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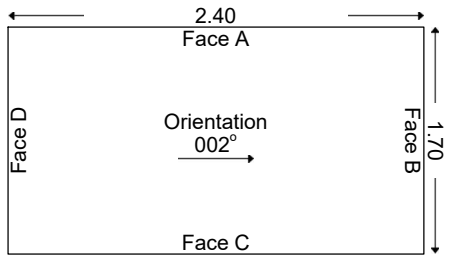
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.**
Client: South Tees Development Corporation	**Location:** E:454796.469 N:521395.958		**PRAIRIE_AUK_TP133**
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.893	**Start Date:** 22/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				8.79		0.10	MADE GROUND (Grass over topsoil).
0.20	J1						MADE GROUND (Dark brown clayey gravelly sand with fragments of metal. Sand is fine to coarse. Gravel is fine to coarse subangular and includes red brick, concrete, ash, slag, macadam and refractory brick).
0.20	PID	<0.1ppm				(0.70)	
0.50	ES2						
0.50	PID	<0.1ppm		8.09		0.80	
0.70	B3						at c.0.10m BGL ... 4 No. subangular concrete boulders.
0.90	J4					(0.40)	
0.90	PID	<0.1ppm		7.69		1.20	Soft to firm dark brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular and includes mudstone. Slight organic odour noted.
1.00	B5						
1.00	HSV	41 (22)kPa					
1.50	J6					(0.80)	Firm orange brown mottled grey slightly sandy CLAY.
1.50	HSV	71 (18)kPa					
1.50	PID	<0.1ppm		6.89		2.00	
2.00	B7						*Complete at 2.00m BGL.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP133.1
PRAIRIE_AUK_TP133

Figure PRAIRIE_AUK_TP133.2
PRAIRIE_AUK_TP133

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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP133.3
PRAIRIE_AUK_TP133 - Spoil

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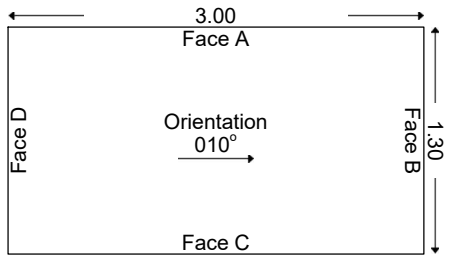
TRIAL PIT RECORD

Status:- PRELIM3

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

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1						MADE GROUND (Black brown 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.
0.50	PID	<0.1ppm				(1.30)	
0.80	B2						
1.00	ES3						
1.00	PID	<0.1ppm		7.41		1.30	
1.50	J4						Firm to stiff thinly laminated orange brown mottled grey slightly sandy CLAY with fine yellow brown sand dusting on the laminae.
1.50	HSV	69 (18)kPa					
1.50	PID	<0.1ppm				(1.30)	
1.80	B5						
2.00	ES6						
2.00	PID	<0.1ppm					
2.50	J9			6.11		2.60	
2.50	HSV	84 (28)kPa					*Complete at 2.60m BGL.*
2.50	PID	<0.1ppm					

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP134
Client: South Tees Development Corporation	**Location:** E:454702.950 N:521396.264		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.709	**Start Date:** 20/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP134.1
PRAIRIE_AUK_TP134

Figure PRAIRIE_AUK_TP134.2
PRAIRIE_AUK_TP134

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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP134.3
PRAIRIE_AUK_TP134 - Spoil

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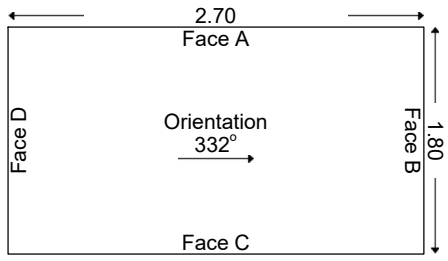
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP135
Client: South Tees Development Corporation	**Location:** E:454599.377 N:521402.034		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.257	**Start Date:** 15/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.05	J1			8.16		0.10	MADE GROUND (Brown sandy topsoil).
0.50	J2					(1.00)	MADE GROUND (Black brown sand and 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 includes red brick, concrete and slag. Cobbles are subangular and include red brick and concrete).
1.00	B3		▼1	7.16		1.10	
1.20	J4					(0.50)	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 and ash. Cobbles are subangular and include coal and slag).
1.30	ES5						
1.30	PID	<0.1ppm		6.66		1.60	
1.50	B6						Firm light orange brown sandy CLAY.
1.80	HSV	70 (22)kPa				(0.90)	
2.00	J7						
2.30	B8			5.76		2.50	Firm to stiff grey brown slightly sandy CLAY.
2.70	J9					(0.50)	
2.80	HSV	70 (20)kPa		5.26		3.00	
2.90	B10						*Complete at 3.00m BGL.*

PLAN



GROUNDWATER
Water strike at 1.10m BGL

STABILITY
Pit sides and base stable throughout excavation.

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

GENERAL REMARKS

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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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP135
Client: South Tees Development Corporation	**Location:** E:454599.377 N:521402.034		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.257	**Start Date:** 15/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP135.1
PRAIRIE_AUK_TP135

Figure PRAIRIE_AUK_TP135.2
PRAIRIE_AUK_TP135

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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP135.3
PRAIRIE_AUK_TP135 - Spoil

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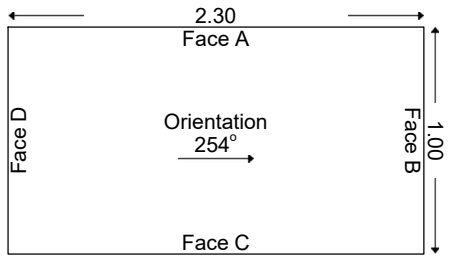
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP136
Client: South Tees Development Corporation	**Location:** E:454510.702 N:521391.846		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.689	**Start Date:** 15/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				7.64		0.05	MADE GROUND (Grass over brown sandy topsoil).
				7.44		0.25	MADE GROUND (Strong fine grey reinforced concrete (10mm diameter)).
0.40	J1					(0.60)	
0.60	B2						MADE GROUND (Grey gravel. Gravel is fine to coarse subangular to subrounded and includes slag. Slag content is 75-100%. Slag is vesicular grey white. Sulphurous odour noted).
0.80	ES3			6.84		0.85	
0.80	PID	<0.1ppm					MADE GROUND (Soft to firm friable and dessicated burnt orange sandy clay). at c.0.85m BGL ... brick structure.
1.00	J4						
1.00	ES5					(1.25)	
1.50	B6						
1.50	HSV	40 (18)kPa					
2.00	J7			5.59		2.10	Firm to stiff grey brown slightly sandy CLAY.
2.40	J8						
2.50	B9					(1.00)	
2.50	HSV	67 (16)kPa					
2.90	ES10						
2.90	PID	<0.1ppm		4.59		3.10	*Complete at 3.10m BGL.*

PLAN



GROUNDWATER
Groundwater seepage at 0.30m BGL.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP136
Client: South Tees Development Corporation	**Location:** E:454510.702 N:521391.846		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.689	**Start Date:** 15/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP136.1
PRAIRIE_AUK_TP136

Figure PRAIRIE_AUK_TP136.2
PRAIRIE_AUK_TP136

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP136
Client: South Tees Development Corporation	**Location:** E:454510.702 N:521391.846		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.689	**Start Date:** 15/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP136.3
PRAIRIE_AUK_TP136 - Spoil

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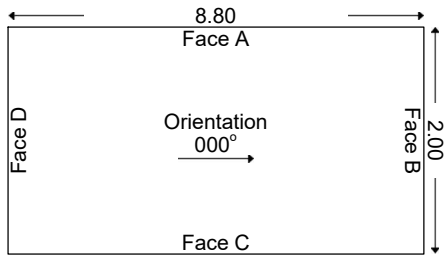
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP137
Client: South Tees Development Corporation	**Location:** E:454392.936 N:521389.947		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.844	**Start Date:** 15/04/2020	**Sheet:** 1 of 5

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.10 0.20	J1 B2			7.34		(0.50) 0.50	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.
0.60 1.00	J3 B4					(0.95)	MADE GROUND (Black brown slightly 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 includes red brick, concrete and slag. Cobbles are subangular and includes brick and concrete).
1.30 1.30 1.60	ES5 PID J6	<0.1ppm		6.39		1.45	at c.0.50m BGL ... top of covered drainage channel. at c.0.80m BGL ... 250mm diameter clay pipe running 315 degrees.
2.00 2.00	B7 HSV	48 (18)kPa				(1.45)	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 ... 250mm diameter clay pipe running 315 degrees.
2.60	J8			4.94		2.90	
							Complete at 2.90m BGL.

PLAN



GROUNDWATER
Groundwater seepage at 0.50m BGL

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

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

GENERAL REMARKS
(1) Refer to following sketch for further details.

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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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP137
Client: South Tees Development Corporation	**Location:** E:454392.936 N:521389.947		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.844	**Start Date:** 15/04/2020	**Sheet:** 2 of 5

Figure PRAIRIE_AUK_TP137.1
PRAIRIE_AUK_TP137

Figure PRAIRIE_AUK_TP137.2
PRAIRIE_AUK_TP137

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP137
Client: South Tees Development Corporation	**Location:** E:454392.936 N:521389.947		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.844	**Start Date:** 15/04/2020	**Sheet:** 3 of 5

Figure PRAIRIE_AUK_TP137.3
PRAIRIE_AUK_TP137

Figure PRAIRIE_AUK_TP137.4
PRAIRIE_AUK_TP137

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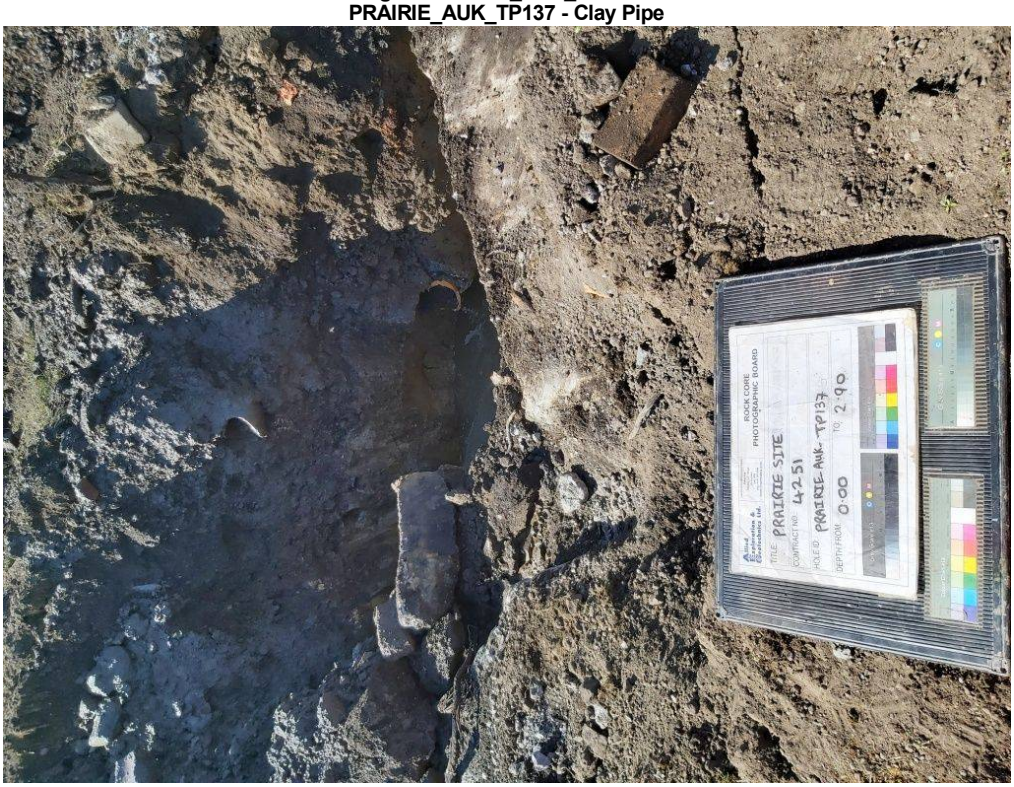
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP137
Client: South Tees Development Corporation	**Location:** E:454392.936 N:521389.947		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.844	**Start Date:** 15/04/2020	**Sheet:** 4 of 5

Figure PRAIRIE_AUK_TP137.5
PRAIRIE_AUK_TP137

Figure PRAIRIE_AUK_TP137.6
PRAIRIE_AUK_TP137 - Clay Pipe



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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP137.7
PRAIRIE_AUK_TP137 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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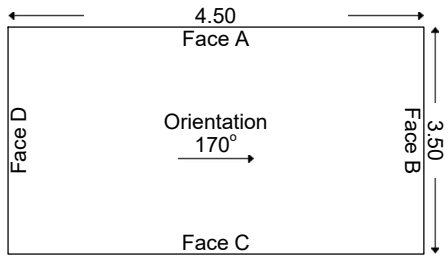
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP138
Client: South Tees Development Corporation	**Location:** E:454298.480 N:521339.714		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.958	**Start Date:** 09/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1						MADE GROUND (Brown gravelly sand 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.
1.00	B2						
1.20	ES3					(2.60)	
1.20	PID	<0.1ppm					
1.50	J4						
							at c.1.80m BGL ... slab of red bricks.
2.00	B5						at c.2.00m BGL ... metal slab with rebar.
							at c.2.20m BGL ... slab of red bricks.
				5.36		2.60	at c.2.60m BGL ... slab of red bricks. *Terminated at 2.60m BGL - due to instability.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base unstable throughout excavation.

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

GENERAL REMARKS

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**

Print Date and Time: 18/06/2020 07:56:15

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP138
Client: South Tees Development Corporation	**Location:** E:454298.480 N:521339.714		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.958	**Start Date:** 09/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP138.1
PRAIRIE_AUK_TP138

Figure PRAIRIE_AUK_TP138.2
PRAIRIE_AUK_TP138 - Bouders

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP138.3
PRAIRIE_AUK_TP138 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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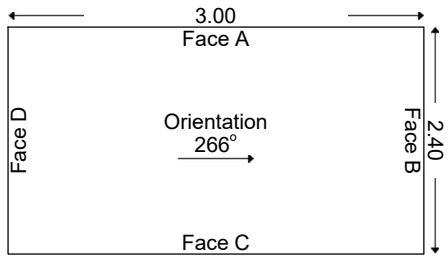
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP139
Client: South Tees Development Corporation	**Location:** E:454375.942 N:521348.422		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.365	**Start Date:** 16/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1					(1.00)	MADE GROUND (Brown slightly clayey gravelly sand with low cobble content and fragments of metal and glass. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded and include concrete, slag and macadam. Cobbles are subangular and include concrete and macadam).
0.80	B2			7.37		1.00	
1.10	J3			7.17		1.20	MADE GROUND (Black clayey gravelly sand with coarse gravel to cobble sized pockets of firm laminated black silt. Sand is fine to coarse. Gravel is fine to coarse subangular and includes ash. Slight burnt/chemical odour noted).
1.10	ES4						at c.1.20m BGL ... concrete.
1.10	B5						
1.10	PID	<0.1ppm					*Terminated at 1.20m BGL - due to concrete obstruction.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

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

GENERAL REMARKS
(1) Relocated to PRAIRIE_AUK_TP139A.

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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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP139
Client: South Tees Development Corporation	**Location:** E:454375.942 N:521348.422		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.365	**Start Date:** 16/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP139.1
PRAIRIE_AUK_TP139

Figure PRAIRIE_AUK_TP139.2
PRAIRIE_AUK_TP139

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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TRIAL PIT RECORD

Status:- **PRELIM3**

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

Figure PRAIRIE_AUK_TP139.3
PRAIRIE_AUK_TP139 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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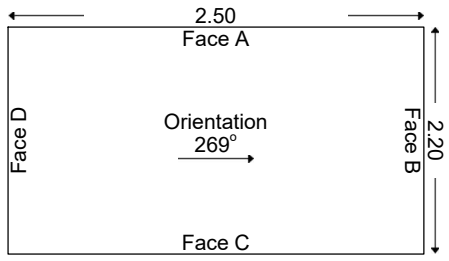
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP139A
Client: South Tees Development Corporation	**Location:** E:454376.105 N:521344.320		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.406	**Start Date:** 16/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				8.11		0.30	MADE GROUND (Brown slightly clayey gravelly sand with fragments of metal and glass. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded and includes concrete and slag). at c.0.30m BGL ... concrete. *Terminated at 0.30m BGL - due to concrete obstruction.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

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

GENERAL REMARKS
(1) Relocated from PRAIRIE_AUK_TP139.
(1) Relocated to PRAIRIE_AUK_TP139B.
(3) No samples taken.

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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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP139A.1
PRAIRIE_AUK_TP139A

Figure PRAIRIE_AUK_TP139A.2
PRAIRIE_AUK_TP139A

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP139A.3
PRAIRIE_AUK_TP139A - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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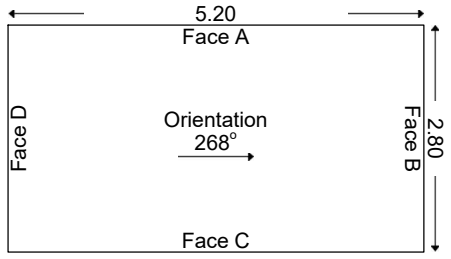
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP139B
Client: South Tees Development Corporation	**Location:** E:454375.664 N:521349.513		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.371	**Start Date:** 16/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.10	J1					(0.50)	MADE GROUND (Brown slightly clayey gravelly fine to coarse sand with medium cobble and boulder content and fragments of wood and metal. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded and includes concrete, refractory brick and red brick. Cobbles and boulders are subangular and include red and yellow brick and concrete).
0.20	B2						
0.30	ES3			7.87		0.50	
0.30	PID	<0.1ppm				(0.40)	
			1	7.47		0.90	MADE GROUND (Strong grey concrete).
						(0.80)	MADE GROUND (Grey brown sandy gravel and cobbles. Gravel is fine to coarse subangular and includes red brick and refractory brick. Cobbles are subangular and include red brick and refractory brick).
				6.67		1.70	Soft to firm thinly laminated grey brown sandy CLAY with fine yellow brown sand on the laminae.
2.50	HSV	47 (16)kPa				(2.30)	
3.00	J4						
3.10	B5						
3.30	ES6						
3.30	PID	<0.1ppm					
3.50	HSV	77 (22)kPa					from c.3.50m BGL ... firm to stiff.
				4.37		4.00	
							Complete at 4.00m BGL.

PLAN



GROUNDWATER
Water strike at 0.90m BGL.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

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

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

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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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP139B
Client: South Tees Development Corporation	**Location:** E:454375.664 N:521349.513		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.371	**Start Date:** 16/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP139B.1
PRAIRIE_AUK_TP139B

Figure PRAIRIE_AUK_TP139B.2
PRAIRIE_AUK_TP139B

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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TRIAL PIT RECORD

Status:- **PRELIM3**

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

Figure PRAIRIE_AUK_TP139B.3
PRAIRIE_AUK_TP139B - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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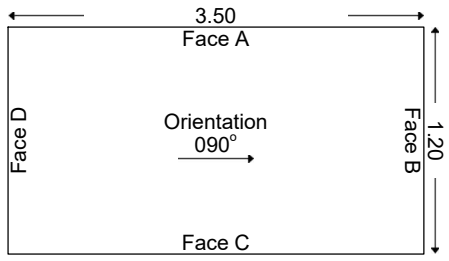
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** **PRAIRIE_AUK_TP140**
Client: South Tees Development Corporation	**Location:** E:455029.355 N:521363.743		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.765	**Start Date:** 23/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				8.67		0.10	MADE GROUND (Grey sandy gravel. Sand is fine to coarse. Gravel is fine to coarse subangular and includes sandstone, concrete and red brick).
				8.47		0.30	
				8.37		0.40	
0.50	J1						MADE GROUND (Grey sandy gravel with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse subangular and includes weak (lean) mix concrete and fused grey ash).
0.50	PID	0.8ppm				(0.80)	
0.80	B2						
1.00	ES3						MADE GROUND (Compacted grey blue ash. Recovered as sandy gravel. Sand is fine to coarse and includes predominantly ash. Gravel is fine to coarse subangular and includes ash, weak concrete and possible fused ash).
1.00	PID	<0.1ppm		7.57		1.20	
1.40	J4						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, coke, weak concrete and red and yellow brick. Cobbles are angular and include brick, concrete and vesicular grey slag. Slag content is 25-50%).
1.50	PID	<0.1ppm				(1.40)	
1.60	B5						
2.40	J6			6.17		2.60	
2.50	B7						Firm (friable) brown silty CLAY with yellow silty fine to medium sand lenses. Engineer notes becoming interlaminated silt and clay with depth.
2.60	ES8						*Complete at 2.60m BGL.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

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

GENERAL REMARKS

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

Print Date and Time: 18/06/2020 07:56:41

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TRIAL PIT RECORD

Status:- **PRELIM3**

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

Figure PRAIRIE_AUK_TP140.1
PRAIRIE_AUK_TP140

Figure PRAIRIE_AUK_TP140.2
PRAIRIE_AUK_TP140

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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP140.3
PRAIRIE_AUK_TP140 - Spoil

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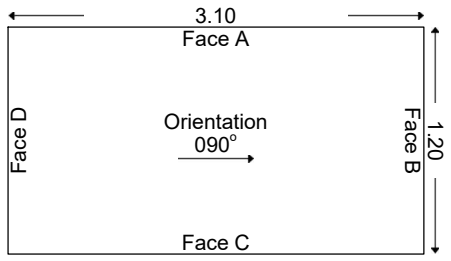
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP141
Client: South Tees Development Corporation	**Location:** E:454997.498 N:521308.610		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.907	**Start Date:** 23/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				8.71		0.20	MADE GROUND (Grey sandy gravel. Sand is fine to coarse. Gravel is fine to coarse subangular and includes sandstone, concrete and red brick).
0.50	J1					(0.70)	
0.50	PID	0.8ppm					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).
0.80	B2			8.01		0.90	
1.00	PID	0.6ppm				(1.10)	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).
1.50	J3			6.91		2.00	at c.0.90m BGL ... solid brick wall section. Pit extended west to avoid.
2.00	ES4					(1.00)	MADE GROUND (Soft/loose black clayey silt with hydrocarbon/creosote/ammonia odour). (Engineer notes material is probably soot/chimney particles).
2.00	PID	1.6ppm		5.91		3.00	at c.3.00m BGL ... concrete base.
							Terminated at 3.00m BGL - due to concrete.

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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

Print Date and Time: 18/06/2020 07:56:47

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- **PRELIM3**

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

Figure PRAIRIE_AUK_TP141.1
PRAIRIE_AUK_TP141

Figure PRAIRIE_AUK_TP141.2
PRAIRIE_AUK_TP141

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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP141.3
PRAIRIE_AUK_TP141 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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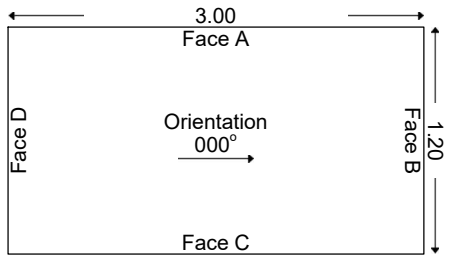
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP142
Client: South Tees Development Corporation	**Location:** E:454954.060 N:521286.604		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.896	**Start Date:** 23/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				8.70		0.20	MADE GROUND (Grey sandy gravel. Sand is fine to coarse. Gravel is fine to coarse subangular and includes sandstone, concrete and slag. Slag is vesicular grey).
0.50	J1					(0.80)	MADE GROUND (Grey brown black 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, slag and concrete. Slag content is 25-50%. Slag is vesicular green grey).
0.50	PID	0.8ppm					
0.70	B2						
0.90	ES3			7.90		1.00	
1.00	PID	3.9ppm	≈	7.70		1.20	
						(0.50)	MADE GROUND (Concrete blocks (backfilled)).
1.50	ES4			7.20		1.70	
1.50	PID	3.0ppm					MADE GROUND (Soft/loose black clayey silt with hydrocarbon/creosote/ammonia odour). (Engineer notes material is probably soot/chimney particles). at c.1.70m BGL ... concrete base.
1.60	J5						*Terminated at 1.70m BGL - due to concrete.*

PLAN



GROUNDWATER
Perched 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.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken3	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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

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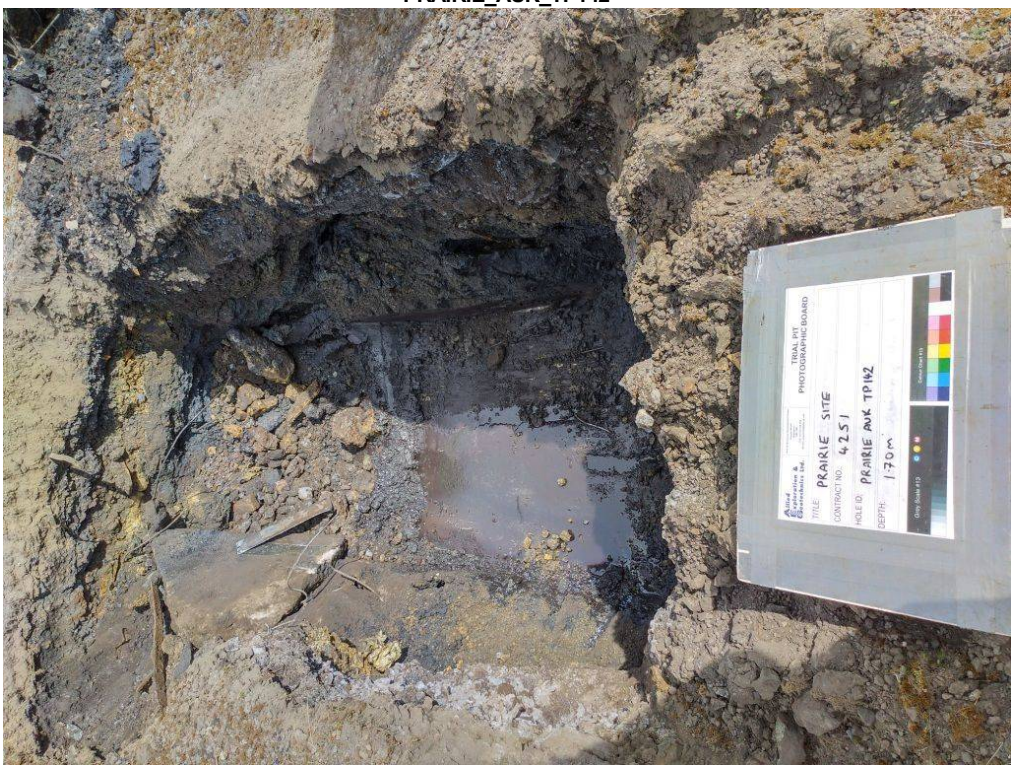
TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP142.1
PRAIRIE_AUK_TP142

Figure PRAIRIE_AUK_TP142.2
PRAIRIE_AUK_TP142



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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP142.3
PRAIRIE_AUK_TP142 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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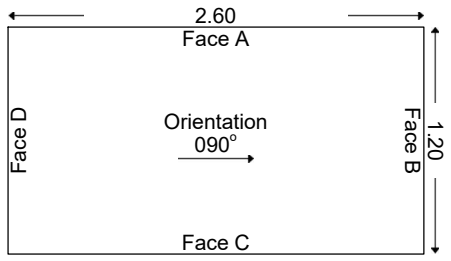
TRIAL PIT RECORD

Status:- PRELIM3

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

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.30	J1						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%).
0.50	PID	<0.1ppm				(1.00)	
0.60	B2						
0.80	ES3			7.72		1.00	
1.00	PID	<0.1ppm					Firm (friable) brown silty CLAY.
1.30	J4		1			(0.80)	
1.50	B5						
1.60	ES6		1	6.92		1.80	
							Terminated at 1.80m BGL - due to water ingress.

PLAN



GROUNDWATER
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.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP143
Client: South Tees Development Corporation	**Location:** E:454890.560 N:521284.540		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.721	**Start Date:** 23/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP143.1
PRAIRIE_AUK_TP143

Figure PRAIRIE_AUK_TP143.2
PRAIRIE_AUK_TP143

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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP143.3
PRAIRIE_AUK_TP143 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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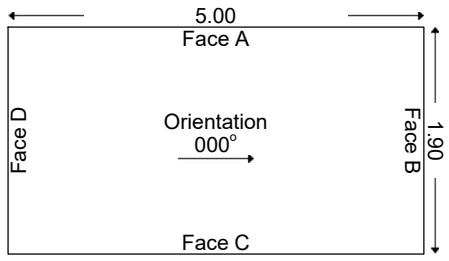
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP144
Client: South Tees Development Corporation	**Location:** E:454789.038 N:521289.908		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.803	**Start Date:** 24/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.40 0.50 0.60 0.80 1.00	J1 PID B2 ES3 PID	0.8ppm 1.5ppm	≈	7.60		(1.20) 1.20	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, concrete, slag and red and yellow brick. Cobbles are angular and include brick, concrete and slag. Slag content is 50-75%. Slag is vesicular grey). between c.0.00-1.20m BGL ... Faces A and C are concrete walls. at c.1.20m BGL ... concrete base. *Terminated at 1.20m BGL - due to concrete base.*

PLAN



GROUNDWATER
Perched water (slight inflow) at 1.10m BGL. Slight sheen noted.

STABILITY
Pit sides and base stable throughout excavation.

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

GENERAL REMARKS

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

Print Date and Time: 18/06/2020 07:57:08

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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP144.1
PRAIRIE_AUK_TP144

Figure PRAIRIE_AUK_TP144.2
PRAIRIE_AUK_TP144

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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP144.3
PRAIRIE_AUK_TP144 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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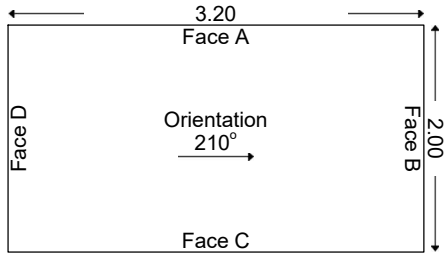
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP145
Client: South Tees Development Corporation	**Location:** E:454703.421 N:521301.805		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.912	**Start Date:** 14/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.05	J1			8.81		0.10	MADE GROUND (Grass over brown sandy topsoil).
0.05	J2						MADE GROUND (Brown black clayey 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).
1.00	B3					(1.60)	
1.60	PID	0.2ppm	≈	7.21		1.70	at c.1.60m BGL ... slight hydrocarbon odour.
1.60	ES4						Firm to stiff orange brown mottled grey slightly sandy CLAY.
1.90	J5						
2.00	HSV	77 (30)kPa				(0.80)	
2.40	B6			6.41		2.50	Firm thinly laminated grey brown slightly sandy CLAY with light grey sand on lamination surfaces. Sand is fine.
2.90	J7					(1.00)	
3.00	HSV	64 (28)kPa					
3.40	B8			5.41		3.50	*Complete at 3.50m BGL.*

PLAN



GROUNDWATER
Groundwater seepage at 1.70m BGL.

STABILITY
Pit sides stable throughout excavation.

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

GENERAL REMARKS

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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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP145
Client: South Tees Development Corporation	**Location:** E:454703.421 N:521301.805		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.912	**Start Date:** 14/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP145.1
PRAIRIE_AUK_TP145

Figure PRAIRIE_AUK_TP145.2
PRAIRIE_AUK_TP145

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP145
Client: South Tees Development Corporation	**Location:** E:454703.421 N:521301.805		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.912	**Start Date:** 14/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP145.3
PRAIRIE_AUK_TP145 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

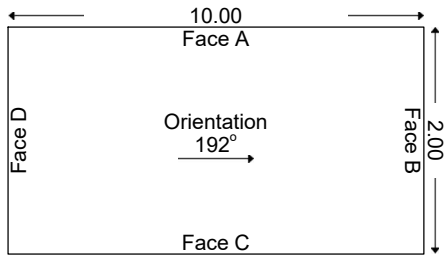
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP146
Client: South Tees Development Corporation	**Location:** E:454604.642 N:521287.306		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.695	**Start Date:** 14/04/2020	**Sheet:** 1 of 2

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				8.60		0.10	MADE GROUND (Brown sandy gravelly topsoil. Sand is fine to coarse. Gravel is fine to coarse subangular and includes concrete).
				8.40		0.30	MADE GROUND (Strong grey concrete with rebar).
							Terminated at 0.30m BGL - due to concrete.

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides stable throughout excavation.

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

GENERAL REMARKS
(1) No samples taken.
(2) Relocated to PRAIRIE_AUK_TP146A.

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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TRIAL PIT RECORD

Status:- PRELIM3

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

Figure PRAIRIE_AUK_TP146.1
PRAIRIE_AUK_TP146

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

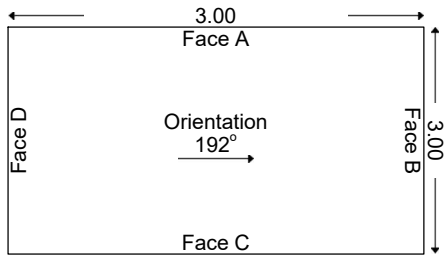
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP146A
Client: South Tees Development Corporation	**Location:** E:454610.811 N:521287.001		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.602	**Start Date:** 14/04/2020	**Sheet:** 1 of 2

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				8.50		0.10	MADE GROUND (Brown sandy gravelly topsoil. Sand is fine to coarse. Gravel is fine to coarse subangular and includes concrete). at c.0.10m BGL ... strong grey concrete. *Terminated at 0.10m BGL - due to concrete.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

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

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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TRIAL PIT RECORD

Status:-
PRELIM3

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

Figure PRAIRIE_AUK_TP146A.1
PRAIRIE_AUK_TP146A

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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
Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

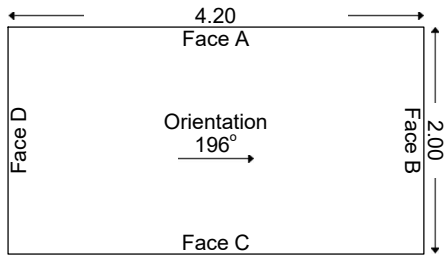
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP146B
Client: South Tees Development Corporation	**Location:** E:454603.479 N:521283.232		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.643	**Start Date:** 14/04/2020	**Sheet:** 1 of 2

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				8.54		0.10	MADE GROUND (Brown sandy topsoil).
				8.34		0.30	MADE GROUND (Black sandy gravel with medium cobble content. Gravel is fine to coarse subangular and includes red brick and concrete. Cobbles are subangular and include red brick and concrete).
				8.04		0.60	MADE GROUND (Strong grey concrete).
							Terminated at 0.60m BGL - due to concrete.

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides stable throughout excavation.

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

GENERAL REMARKS
(1) No samples taken.
(2) Relocated from PRAIRIE_AUK_TP146A.
(3) Relocated to PRAIRIE_AUK_TP146C.

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**

Print Date and Time: 18/06/2020 07:57:26

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP146B
Client: South Tees Development Corporation	**Location:** E:454603.479 N:521283.232		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.643	**Start Date:** 14/04/2020	**Sheet:** 2 of 2

Figure PRAIRIE_AUK_TP146B.1
PRAIRIE_AUK_TP146B

Figure PRAIRIE_AUK_TP146B.2
PRAIRIE_AUK_TP146B - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

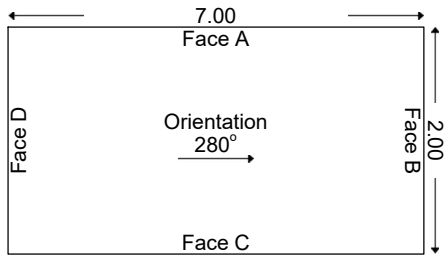
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP146C
Client: South Tees Development Corporation	**Location:** E:454595.940 N:521282.000		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.682	**Start Date:** 14/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.05	J1			8.58		0.10	MADE GROUND (Brown sandy topsoil).
0.30	J2					(0.60)	MADE GROUND (Black sandy gravel with medium cobble content and fragments of metal and wood. Gravel is fine to coarse subangular and includes red brick and concrete).
0.50	B3			7.98		0.70	
				7.78		0.90	MADE GROUND (Strong grey concrete).
1.00	J4		≈			(0.50)	MADE GROUND (Black clayey sandy gravel with medium cobble content and fragments of metal and wood. Gravel is fine to coarse subangular and includes red brick, concrete and ash. Cobbles are subangular and include red brick and concrete. Slight hydrocarbon odour).
1.30	PID	0.2ppm		7.28		1.40	
1.30	ES5						
1.30	B6						
1.50	HSV	97 (40)kPa					Stiff grey brown slightly sandy CLAY.
1.70	J7					(1.60)	
2.30	B8						
2.50	PID	<0.1ppm					from c.2.50m BGL ... fissured.
2.50	HSV	97 (30)kPa					
2.50	ES9						
2.70	J10			5.68		3.00	
							Complete at 3.00m BGL.

PLAN



GROUNDWATER
Groundwater seepage at 1.20m BGL.

STABILITY
Face C unstable from c.0.90m BGL.

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

GENERAL REMARKS
(1) Relocated from PRAIRIE_AUK_TP146B.

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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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP146C
Client: South Tees Development Corporation	**Location:** E:454595.940 N:521282.000		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.682	**Start Date:** 14/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP146C.1
PRAIRIE_AUK_TP146C

Figure PRAIRIE_AUK_TP146C.2
PRAIRIE_AUK_TP146C

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP146C
Client: South Tees Development Corporation	**Location:** E:454595.940 N:521282.000		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.682	**Start Date:** 14/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP146C.3
PRAIRIE_AUK_TP146C - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

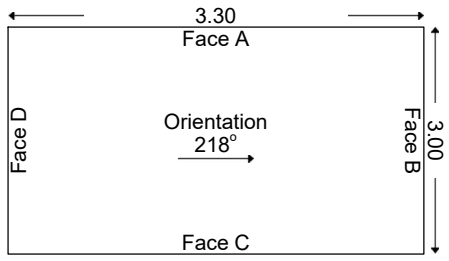
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP147
Client: South Tees Development Corporation	**Location:** E:454535.320 N:521258.153		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.595	**Start Date:** 17/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.40	J1					(0.80)	MADE GROUND (Brown gravelly sand. Sand is fine to coarse. Gravel is fine to coarse subangular and includes concrete, brick and slag).
0.60	B2			7.80		0.80	
				7.60		1.00	MADE GROUND (Strong green grey fine grained concrete).
1.10	J3					(0.80)	MADE GROUND (Brown black sand and gravel with medium cobble content, fragments of metal and occasional coarse gravel sized pockets of firm brown clay. Sand is fine to coarse. Gravel is fine to coarse subangular and includes brick, refractory brick, concrete and slag. Cobbles are subangular and include concrete and brick).
1.50	ES4		▼1				
1.50	PID	<0.1ppm		6.80		1.80	
1.70	B5						at c.1.80m BGL ... concrete.
							Terminated at 1.80m BGL - due to concrete.

PLAN



GROUNDWATER
Water strike at 1.60m BGL

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

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

GENERAL REMARKS

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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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP147
Client: South Tees Development Corporation	**Location:** E:454535.320 N:521258.153		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.595	**Start Date:** 17/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP147.1
PRAIRIE_AUK_TP147

Figure PRAIRIE_AUK_TP147.2
PRAIRIE_AUK_TP147

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP147
Client: South Tees Development Corporation	**Location:** E:454535.320 N:521258.153		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.595	**Start Date:** 17/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP147.3
PRAIRIE_AUK_TP147 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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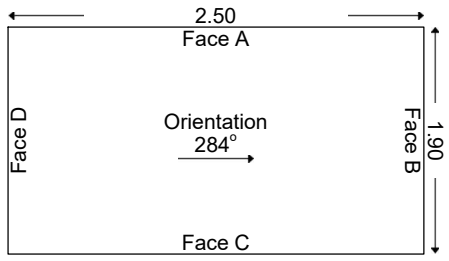
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP148
Client: South Tees Development Corporation	**Location:** E:454428.137 N:521287.984		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.724	**Start Date:** 16/04/2020	**Sheet:** 1 of 2

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				8.12		(0.60) 0.60	MADE GROUND (Brown sandy topsoil).
				7.52		(0.60) 1.20	MADE GROUND (Strong grey reinforced concrete (10mm diameter rebar)).
							Terminated at 1.20m BGL - due to concrete.

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS
(1) No samples taken.
(2) Relocated to PRAIRIE_AUK_TP148A.

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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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP148
Client: South Tees Development Corporation	**Location:** E:454428.137 N:521287.984		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.724	**Start Date:** 16/04/2020	**Sheet:** 2 of 2

Figure PRAIRIE_AUK_TP148.1
PRAIRIE_AUK_TP148

Figure PRAIRIE_AUK_TP148.2
PRAIRIE_AUK_TP148

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

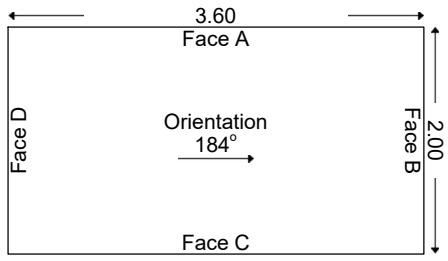
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP148A
Client: South Tees Development Corporation	**Location:** E:454424.353 N:521284.277		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.956	**Start Date:** 16/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1					(1.00)	MADE GROUND (Grey brown gravelly sand with medium cobble and boulder content and fragments of metal, plastic, tile and wire. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded and includes brick and concrete. Cobbles and boulders are subangular and include brick and concrete).
0.80	B2			7.96		1.00	
1.30	J3					(0.50)	MADE GROUND (Black gravelly sand with fragments of metal. Sand is fine to coarse. Gravel is fine to coarse subangular and includes brick, concrete, ash and slag).
1.30	B4			7.46		1.50	
1.40	ES5						between c.1.00-1.20m BGL ... strong grey reinforced concrete (10mm diameter rebar).
1.40	PID	<0.1ppm	≈			(0.50)	
1.70	B6			6.96		2.00	MADE GROUND (Strong ground grey concrete/slag).
							Terminated at 2.00m BGL - due to concrete/slag.

PLAN



GROUNDWATER
Slight groundwater seepage at 1.70m BGL.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS
(1) Relocated from PRAIRIE_AUK_TP148.

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**

Print Date and Time: 18/06/2020 07:57:50

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TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.**
Client: South Tees Development Corporation	**Location:** E:454424.353 N:521284.277		**PRAIRIE_AUK_TP148A**
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.956	**Start Date:** 16/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP148A.1
PRAIRIE_AUK_TP148A

Figure PRAIRIE_AUK_TP148A.2
PRAIRIE_AUK_TP148A

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP148A
Client: South Tees Development Corporation	**Location:** E:454424.353 N:521284.277		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.956	**Start Date:** 16/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP148A.3
PRAIRIE_AUK_TP148A - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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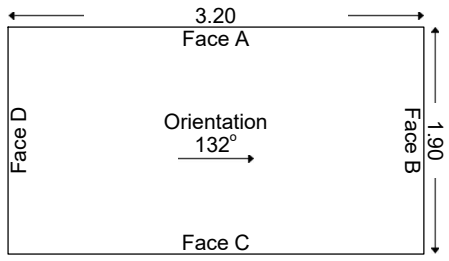
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP149
Client: South Tees Development Corporation	**Location:** E:454320.946 N:521308.856		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.798	**Start Date:** 09/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1					(1.50)	MADE GROUND (Black sand and 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).
1.00	B2						
1.30	ES3			6.30		1.50	
1.30	PID	<0.1ppm					Firm indistinctly laminated orange brown mottled grey slightly sandy CLAY.
1.80	J4						
2.00	HSV	55 (34)kPa				(1.50)	
2.20	B5						
2.80	J6			4.80		3.00	
2.80	HSV	68 (20)kPa					*Complete at 3.00m BGL.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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**

Print Date and Time: 18/06/2020 07:57:57

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP149
Client: South Tees Development Corporation	**Location:** E:454320.946 N:521308.856		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.798	**Start Date:** 09/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP149.1
PRAIRIE_AUK_TP149

Figure PRAIRIE_AUK_TP149.2
PRAIRIE_AUK_TP149

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP149
Client: South Tees Development Corporation	**Location:** E:454320.946 N:521308.856		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.798	**Start Date:** 09/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP149.3
PRAIRIE_AUK_TP149 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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
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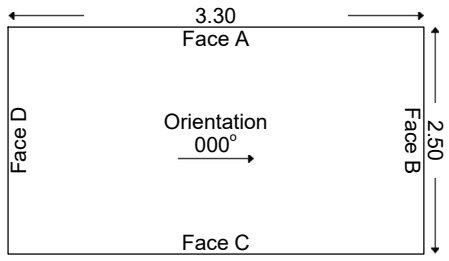
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP150
Client: South Tees Development Corporation	**Location:** E:454235.334 N:521322.653		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.172	**Start Date:** 16/04/2020	**Sheet:** 1 of 4

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				8.67		(0.50) 0.50	MADE GROUND (Brown black red sandy gravel. Sand is fine to coarse. Gravel is fine to coarse subangular and includes ash, clinker, slag, brick and concrete. Slag content is 0-25%. Slag is vesicular).
0.50 0.60	J1 B2						MADE GROUND (Brown black grey sandy gravel with fragments of metal and plastic. Sand is fine to coarse. Gravel is fine to coarse subangular and includes ash, clinker, slag, brick and concrete. Slag content is 25-50%. Slag is vesicular). between c.0.50-2.20m BGL ... brick structure exposed on eastern side of pit and concrete structure exposed on southern and western sides of pit.
1.50	ES3					(1.70)	
				6.97		2.20	at c.2.20m BGL ... 610mm diameter metal pipe (redundant) running 000 degrees. *Terminated at 2.20m BGL - due to service.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

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

GENERAL REMARKS

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

Print Date and Time: 18/06/2020 07:58:04

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP150
Client: South Tees Development Corporation	**Location:** E:454235.334 N:521322.653		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.172	**Start Date:** 16/04/2020	**Sheet:** 2 of 4

Figure PRAIRIE_AUK_TP150.1
PRAIRIE_AUK_TP150

Figure PRAIRIE_AUK_TP150.2
PRAIRIE_AUK_TP150

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP150
Client: South Tees Development Corporation	**Location:** E:454235.334 N:521322.653		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.172	**Start Date:** 16/04/2020	**Sheet:** 3 of 4

Figure PRAIRIE_AUK_TP150.3
PRAIRIE_AUK_TP150

Figure PRAIRIE_AUK_TP150.4
PRAIRIE_AUK_TP150

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP150
Client: South Tees Development Corporation	**Location:** E:454235.334 N:521322.653		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.172	**Start Date:** 16/04/2020	**Sheet:** 4 of 4

Figure PRAIRIE_AUK_TP150.5
PRAIRIE_AUK_TP150 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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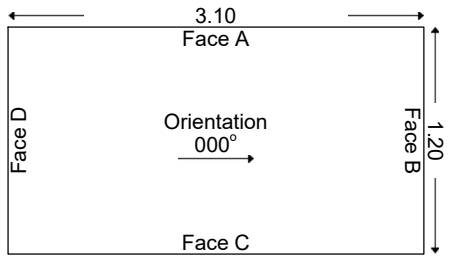
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP151
Client: South Tees Development Corporation	**Location:** E:455089.187 N:521231.720		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.499	**Start Date:** 23/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				10.30		0.20	MADE GROUND (Grey sandy gravel. Sand is fine to coarse. Gravel is fine to coarse subangular and includes sandstone, concrete and red brick).
0.30	J1			10.00		0.50	
0.40	B2			9.90		0.60	MADE GROUND (Grey sandy gravel with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse subangular and includes weak (lean) mix concrete and fused grey ash).
0.50	PID	1.1ppm					
0.80	J3						MADE GROUND (Compacted grey blue ash. Recovered as sandy gravel. Sand is fine to coarse and includes predominantly ash. Gravel is fine to coarse subangular and includes ash, weak concrete and possibly fused ash).
1.00	B4						
1.00	PID	0.8ppm					
1.20	ES5					(2.30)	
1.50	PID	0.9ppm					MADE GROUND (Grey brown black red clayey sandy gravel with high cobble content with 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 red and yellow brick and concrete).
1.80	J6						
2.00	B7						
2.00	PID	<0.1ppm					
2.50	PID	<0.1ppm					
2.80	J8			7.60		2.90	
3.00	PID	<0.1ppm					Firm (friable) brown silty CLAY with yellow silty fine to medium sand lenses. Engineer notes becoming faintly interlaminated silt and clay with depth.
3.20	B9					(1.30)	
3.80	J10			6.30		4.20	
4.20	B11						*Complete at 4.20m BGL.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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

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TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP151
Client: South Tees Development Corporation	**Location:** E:455089.187 N:521231.720		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.499	**Start Date:** 23/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP151.1
PRAIRIE_AUK_TP151

Figure PRAIRIE_AUK_TP151.2
PRAIRIE_AUK_TP151

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP151
Client: South Tees Development Corporation	**Location:** E:455089.187 N:521231.720		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.499	**Start Date:** 23/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP151.3
PRAIRIE_AUK_TP151

Figure PRAIRIE_AUK_TP151.4
PRAIRIE_AUK_TP151 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

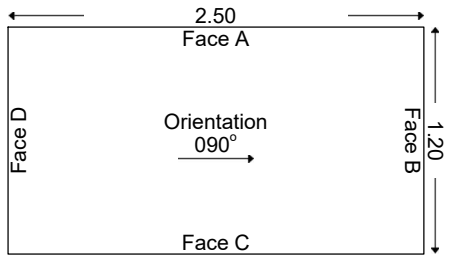
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP152
Client: South Tees Development Corporation	**Location:** E:455033.237 N:521245.226		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.958	**Start Date:** 22/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				9.76		0.20	MADE GROUND (Grey sandy gravel with fragments of metal and wood. Sand is fine to coarse. Gravel is fine to coarse subangular and includes sandstone, concrete and slag. Slag content is 0-25%. Slag is vesicular grey).
0.30	J1			9.56		0.40	
0.50	PID	0.3ppm		9.36		0.60	
0.65	J2						MADE GROUND (Compacted grey blue ash. Recovered as sandy gravel. Sand is fine to coarse and includes predominantly ash. Gravel is fine to coarse subangular and includes ash, weak concrete and possible fused ash).
0.80	B3						
1.00	PID	1.6ppm				(1.50)	
							MADE GROUND (Grey sandy gravel with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse subangular and includes weak (lean) mix concrete and grey fused ash).
1.50	PID	0.8ppm					
1.60	J4						
1.80	B5						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, coke, weak concrete and red and yellow brick. Cobbles are angular and include red and yellow brick and concrete). at c.2.10m BGL ... concrete.
2.00	ES6			7.86		2.10	*Complete at 2.10m BGL.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base moderately stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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

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TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP152
Client: South Tees Development Corporation	**Location:** E:455033.237 N:521245.226		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.958	**Start Date:** 22/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP152.1
PRAIRIE_AUK_TP152

Figure PRAIRIE_AUK_TP152.2
PRAIRIE_AUK_TP152

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP152
Client: South Tees Development Corporation	**Location:** E:455033.237 N:521245.226		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.958	**Start Date:** 22/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP152.3
PRAIRIE_AUK_TP152 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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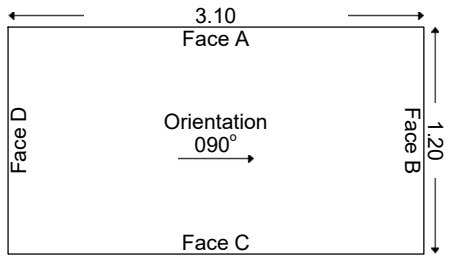
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP153
Client: South Tees Development Corporation	**Location:** E:454900.596 N:521232.384		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.441	**Start Date:** 22/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				9.24		0.20	MADE GROUND (Grey sandy gravel with many rootlets and fragments of metal and wood. Sand is fine to coarse. Gravel is fine to coarse subangular and includes sandstone, concrete and slag. Slag content is 0-25%. Slag is vesicular grey).
				9.14		0.30	
0.50	J1			8.84		0.60	
0.50	PID	1.8ppm					MADE GROUND (Macadam).
0.80	J2					(0.60)	
0.90	B3						MADE GROUND (Compacted grey sandy gravel. Sand is fine to coarse and includes predominantly ash. Gravel is fine to coarse subangular and includes ash, weak concrete and possible fused ash).
1.00	PID	0.5ppm		8.24		1.20	
1.10	ES4						
1.50	J5						MADE GROUND (Grey brown black red sandy gravel with medium 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 slag. Cobbles are angular and include brick. Slag content is 0-25%. Slag is vesicular grey).
1.50	PID	<0.1ppm				(1.20)	
1.60	B6						
2.00	PID	<0.1ppm					
				7.04		2.40	
2.40	J7						Firm grey brown slightly sandy CLAY with sand lenses. Sand is fine to medium. at c.2.00m BGL ... 150mm diameter clay pipe (broken) at eastern end of pit running 000 degrees with slight seepage and hydrocarbon odour.
							Complete at 2.40m BGL.

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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

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TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP153
Client: South Tees Development Corporation	**Location:** E:454900.596 N:521232.384		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.441	**Start Date:** 22/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP153.1
PRAIRIE_AUK_TP153

Figure PRAIRIE_AUK_TP153.2
PRAIRIE_AUK_TP153

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP153
Client: South Tees Development Corporation	**Location:** E:454900.596 N:521232.384		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.441	**Start Date:** 22/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP153.3
PRAIRIE_AUK_TP153 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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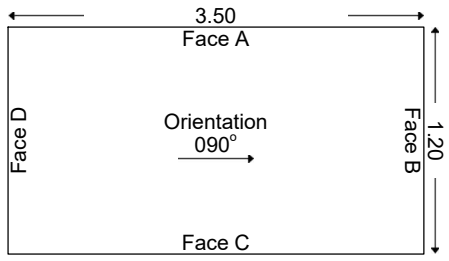
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP154
Client: South Tees Development Corporation	**Location:** E:454781.179 N:521239.256		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.292	**Start Date:** 21/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				9.19		0.10	MADE GROUND (Grey sandy gravel with many rootlets and fragments of metal and wood. Sand is fine to coarse. Gravel is fine to coarse subangular and includes sandstone, concrete and slag. Slag content is 25-50%. Slag is vesicular grey).
				8.99		0.30	
0.50	PID	1.1ppm				(0.60)	
0.60	J1						MADE GROUND (Grey gravel. Gravel is medium to coarse subangular and includes limestone and slag. Slag content is 0-25%).
0.80	B2			8.39		0.90	
0.85	ES3						MADE GROUND (Grey brown black sandy gravel with 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 possibly fused ash). at c.0.90m BGL ... 100mm diameter cast iron pipe in western most end of pit running 045 degrees.
1.00	PID	0.2ppm					
1.30	J4					(2.20)	Firm grey brown slightly sandy CLAY. Sand is fine to medium. Engineer notes grading to interlaminated silt/clay with depth.
1.50	PID	<0.1ppm					
1.60	B5						
2.30	J6						
2.60	B7						
				6.19		3.10	*Terminated at 3.10m BGL - due to service.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP154
Client: South Tees Development Corporation	**Location:** E:454781.179 N:521239.256		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.292	**Start Date:** 21/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP154.1
PRAIRIE_AUK_TP154

Figure PRAIRIE_AUK_TP154.2
PRAIRIE_AUK_TP154

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP154
Client: South Tees Development Corporation	**Location:** E:454781.179 N:521239.256		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.292	**Start Date:** 21/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP154.3
PRAIRIE_AUK_TP154

Figure PRAIRIE_AUK_TP154.4
PRAIRIE_AUK_TP154 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

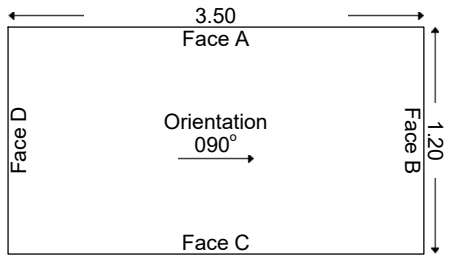
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP155
Client: South Tees Development Corporation	**Location:** E:454696.705 N:521187.080		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.536	**Start Date:** 21/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				9.34		0.20	MADE GROUND (Grey sandy gravel with many rootlets and fragments of metal and wood. Sand is fine to coarse. Gravel is fine to coarse subangular and includes sandstone, concrete and slag. Slag content is 25-50%. Slag is vesicular grey).
				9.24		0.30	
0.40	J1					(0.50)	
0.40	PID	1.8ppm					
0.50	B2		≈	8.74		0.80	MADE GROUND (Compacted slag recovered as brown cobbles. Cobbles are angular and include slag. Slag content is 50-75%. Slag is grey dark blue iron rich).
0.70	ES3						
1.00	PID	0.1ppm					MADE GROUND (Brown sandy gravel with fragments of metal. Sand is fine to coarse and includes predominantly ash. Gravel is fine to coarse subangular and includes ash, clinker and coke).
1.20	J4					(1.40)	
1.50	PID	<0.1ppm					
1.60	B5						Firm grey brown slightly sandy CLAY. Sand is fine to medium. Engineer notes grading to interlaminated silt and clay with depth.
				7.34		2.20	
2.20	J6						*Complete at 2.20m BGL.*

PLAN



GROUNDWATER
Perched water at 0.80m BGL (slight inflow).

STABILITY
Pit sides and base stable throughout excavation.

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

GENERAL REMARKS

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

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP155
Client: South Tees Development Corporation	**Location:** E:454696.705 N:521187.080		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.536	**Start Date:** 21/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP155.1
PRAIRIE_AUK_TP155

Figure PRAIRIE_AUK_TP155.2
PRAIRIE_AUK_TP155

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP155
Client: South Tees Development Corporation	**Location:** E:454696.705 N:521187.080		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.536	**Start Date:** 21/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP155.3
PRAIRIE_AUK_TP155 - Spoil

Figure PRAIRIE_AUK_TP155.4
PRAIRIE_AUK_TP155 - Spoil

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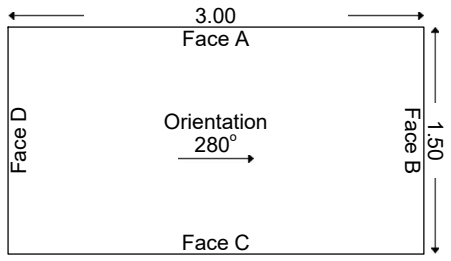
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP156
Client: South Tees Development Corporation	**Location:** E:454622.162 N:521209.315		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.945	**Start Date:** 14/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
			1	8.35		(0.60) 0.60	MADE GROUND (Black clayey sandy gravel with medium cobble content and fragments of wood and metal. Gravel is fine to coarse subangular to subrounded and includes red brick, concrete and slag. Cobbles are subangular and include concrete). at c.0.60m BGL ... concrete. *Terminated at 0.60m BGL - due to concrete.*

PLAN



GROUNDWATER
Water strike at 0.60m BGL.

STABILITY
Pit sides and base stable throughout excavation.

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

GENERAL REMARKS
(1) No samples taken.
(2) Relocated to PRAIRIE_AUK_TP156A.

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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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP156
Client: South Tees Development Corporation	**Location:** E:454622.162 N:521209.315		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.945	**Start Date:** 14/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP156.1
PRAIRIE_AUK_TP156

Figure PRAIRIE_AUK_TP156.2
PRAIRIE_AUK_TP156

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP156
Client: South Tees Development Corporation	**Location:** E:454622.162 N:521209.315		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.945	**Start Date:** 14/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP156.3
PRAIRIE_AUK_TP156 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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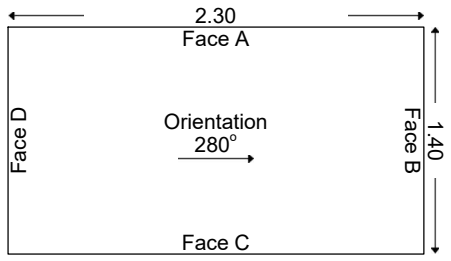
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP156A
Client: South Tees Development Corporation	**Location:** E:454619.192 N:521200.662		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.863	**Start Date:** 14/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.10	J1					(0.60)	MADE GROUND (Black gravelly sand. Sand is fine to coarse. Gravel is fine to coarse subangular and includes ash, macadam, concrete).
0.30	ES2						
0.30	PID	<0.1ppm		8.26		0.60	
0.50	B3						
0.70	B4			8.06		0.80	MADE GROUND (Strong dark grey fine grained concrete/slag).
1.00	HSV	102 (40)kPa					Firm orange brown mottled grey slightly sandy CLAY.
1.10	J5						
1.50	B6					(1.70)	
2.00	HSV	99 (38)kPa					
2.10	J7			6.36		2.50	
							Complete at 2.50m BGL.

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP156A
Client: South Tees Development Corporation	**Location:** E:454619.192 N:521200.662		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.863	**Start Date:** 14/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP156A.1
PRAIRIE_AUK_TP156A

Figure PRAIRIE_AUK_TP156A.2
PRAIRIE_AUK_TP156A

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP156A
Client: South Tees Development Corporation	**Location:** E:454619.192 N:521200.662		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.863	**Start Date:** 14/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP156A.3
PRAIRIE_AUK_TP156A - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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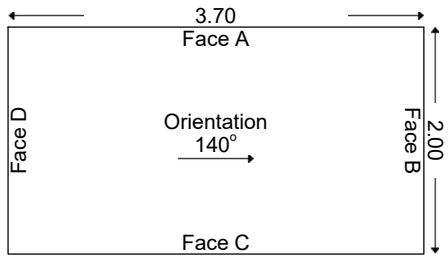
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP157
Client: South Tees Development Corporation	**Location:** E:454503.120 N:521204.274		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.742	**Start Date:** 17/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1					(1.10)	MADE GROUND (Brown gravelly sand with low cobble content and fragments of metal, girders, metal pipe, metal rope and metal sheets. Sand is fine to coarse. Gravel is fine to coarse subangular and includes red brick, concrete and slag. Cobbles are subangular and include concrete).
0.80	ES2						
0.80	PID	<0.1ppm					
1.00	B3			7.64		1.10	at c.1.10m BGL ... concrete.
							Terminated at 1.10m BGL - due to concrete.

PLAN



GROUNDWATER
Damp at 1.10m BGL.

STABILITY
Pit sides and base stable throughout excavation.

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

GENERAL REMARKS
(1) Relocated to PRAIRIE_AUK_TP157A.

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**

Print Date and Time: 18/06/2020 07:59:09

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP157
Client: South Tees Development Corporation	**Location:** E:454503.120 N:521204.274		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.742	**Start Date:** 17/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP157.1
PRAIRIE_AUK_TP157

Figure PRAIRIE_AUK_TP157.2
PRAIRIE_AUK_TP157

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP157
Client: South Tees Development Corporation	**Location:** E:454503.120 N:521204.274		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.742	**Start Date:** 17/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP157.3
PRAIRIE_AUK_TP157 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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
Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

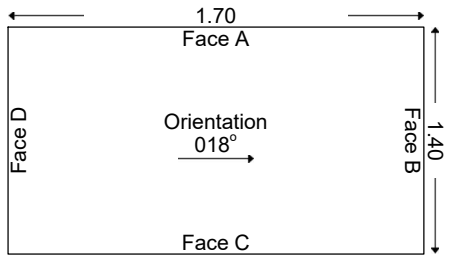
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP157A
Client: South Tees Development Corporation	**Location:** E:454497.482 N:521205.005		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.784	**Start Date:** 17/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
						(1.30)	MADE GROUND (Brown gravelly sand with medium cobble content with fragments of metal. Sand is fine to coarse. Gravel is fine to coarse subangular and includes red brick, concrete and slag. Cobbles are subangular and include concrete).
				7.48		1.30	at c.1.30m BGL ... concrete.
							Terminated at 1.30m BGL - due to concrete.

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

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

GENERAL REMARKS
(1) Relocated from PRAIRIE_AUK_TP157.
(2) Relocated to PRAIRIE_AUK_TP157B.
(3) No samples taken.

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**

Print Date and Time: 18/06/2020 07:59:16

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP157A
Client: South Tees Development Corporation	**Location:** E:454497.482 N:521205.005		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.784	**Start Date:** 17/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP157A.1
PRAIRIE_AUK_TP157A

Figure PRAIRIE_AUK_TP157A.2
PRAIRIE_AUK_TP157A

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP157A
Client: South Tees Development Corporation	**Location:** E:454497.482 N:521205.005		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.784	**Start Date:** 17/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP157A.3
PRAIRIE_AUK_TP157A - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

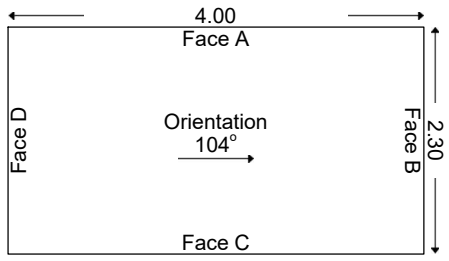
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP157B
Client: South Tees Development Corporation	**Location:** E:454499.221 N:521207.945		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.652	**Start Date:** 17/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
			1	5.15		(3.50) 3.50	MADE GROUND (Brown gravelly sand with high cobble and boulder content and fragments of metal, wire and metal pipe. Sand is fine to coarse. Gravel is fine to coarse subangular and includes red brick and concrete. Cobbles are subangular and include concrete and brick. Boulders are subangular and include cemented red bricks and concrete with rebar (10-50mm diameter rebar)).
							Terminated at 3.50m BGL - due to concrete boulders.

PLAN



GROUNDWATER
Water strike at 1.00m BGL.

STABILITY
All faces unstable below 0.50m BGL

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

GENERAL REMARKS
(1) Relocated from PRAIRIE_AUK_TP157A.
(2) No samples taken.

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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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP157B
Client: South Tees Development Corporation	**Location:** E:454499.221 N:521207.945		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.652	**Start Date:** 17/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP157B.1
PRAIRIE_AUK_TP157B

Figure PRAIRIE_AUK_TP157B.2
PRAIRIE_AUK_TP157B

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP157B
Client: South Tees Development Corporation	**Location:** E:454499.221 N:521207.945		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.652	**Start Date:** 17/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP157B.3
PRAIRIE_AUK_TP157B - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

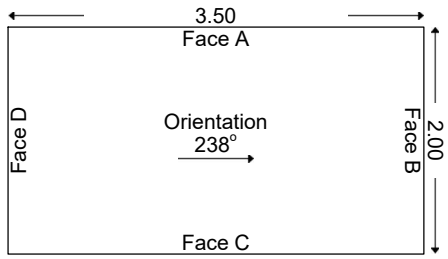
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP158
Client: South Tees Development Corporation	**Location:** E:454406.541 N:521196.157		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.657	**Start Date:** 17/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1		1				MADE GROUND (Brown gravelly sand with high cobble and boulder content and fragments of metal and scaffold pipes. Sand is fine to coarse. Gravel is fine to coarse subangular and includes red brick, concrete and slag. Cobbles and boulders are subangular and include red brick and concrete).
1.00	B2					(2.00)	
1.30	ES3						
1.30	PID	<0.1ppm					
1.50	J4						
1.90	B5			6.66		2.00	
2.50	J6						Firm to stiff indistinctly laminated orange brown mottled grey slightly sandy CLAY.
2.50	HSV	95 (41)kPa				(1.20)	
3.00	B7			5.46		3.20	
							Complete at 3.20m BGL.

PLAN



GROUNDWATER
Water strike at 1.00m BGL.

STABILITY
Faces A and B unstable from 0.50m BGL.

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

GENERAL REMARKS

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**

Print Date and Time: 18/06/2020 07:59:29

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP158
Client: South Tees Development Corporation	**Location:** E:454406.541 N:521196.157		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.657	**Start Date:** 17/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP158.1
PRAIRIE_AUK_TP158

Figure PRAIRIE_AUK_TP158.2
PRAIRIE_AUK_TP158

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP158
Client: South Tees Development Corporation	**Location:** E:454406.541 N:521196.157		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.657	**Start Date:** 17/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP158.3
PRAIRIE_AUK_TP158

Figure PRAIRIE_AUK_TP158.4
PRAIRIE_AUK_TP158 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

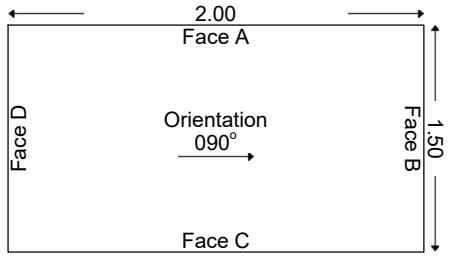
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP159
Client: South Tees Development Corporation	**Location:** E:454285.744 N:521206.190		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.909	**Start Date:** 16/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.20	J1						MADE GROUND (Brown black red sandy gravel with fragments of metal and wood. Sand is fine to coarse. Gravel is fine to coarse subangular and includes ash, clinker and slag. Slag content is 0-25%).
0.40	B2					(0.90)	
0.60	ES3						
0.60	PID	<0.1ppm		8.01		0.90	
						(0.60)	MADE GROUND (Brown gravel. Gravel is fine to medium subrounded and includes sandstone and clinker). (Pipe bedding).
				7.41		1.50	at c.1.20m BGL ... 150mm diameter clay pipe (broken).
1.80	J4					(1.00)	Soft to firm (friable) interlaminated brown SILT and CLAY with silty sand/sandy silt lenses.
2.30	B5			6.41		2.50	*Complete at 2.50m BGL.*

PLAN



GROUNDWATER
Water logged between 0.90-1.50m BGL (Slow inflow)

STABILITY
Pit sides and base stable throughout excavation.

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

GENERAL REMARKS

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

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TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP159
Client: South Tees Development Corporation	**Location:** E:454285.744 N:521206.190		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.909	**Start Date:** 16/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP159.1
PRAIRIE_AUK_TP159

Figure PRAIRIE_AUK_TP159.2
PRAIRIE_AUK_TP159

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP159
Client: South Tees Development Corporation	**Location:** E:454285.744 N:521206.190		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.909	**Start Date:** 16/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP159.3
PRAIRIE_AUK_TP159

Figure PRAIRIE_AUK_TP159.4
PRAIRIE_AUK_TP159 - Spoil

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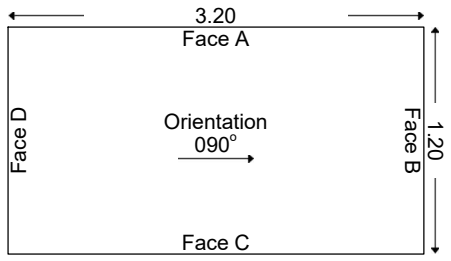
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP160
Client: South Tees Development Corporation	**Location:** E:454601.562 N:521089.621		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.063	**Start Date:** 21/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.20	J1					(0.40)	MADE GROUND (Grey sandy gravel with many rootlets. Sand is fine to coarse. Gravel is fine to coarse subangular and includes slag, concrete, ash, coke and brick. Slag content is 25-50%. Slag is vesicular grey).
0.30	B2			9.66		0.40	
				9.46		0.60	MADE GROUND (Concrete and 10mm diameter rebar).
0.70	J3			9.26		0.80	MADE GROUND (Brown sandy gravel with fragments of metal. Sand is fine to coarse and includes predominantly ash. Gravel is fine to coarse subangular and includes ash, clinker and coke).
0.75	ES4						
1.00	PID	0.7ppm					
1.10	J5						
1.30	B6					(1.30)	Firm laminated grey brown slightly sandy CLAY. Sand is fine to medium.
1.50	PID	<0.1ppm					at c.0.80m BGL ... 150mm diameter cast iron pipe (redundant) in western edge of pit running 000 degrees.
				7.96		2.10	
2.10	J7						*Complete at 2.10m BGL.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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

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TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP160
Client: South Tees Development Corporation	**Location:** E:454601.562 N:521089.621		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.063	**Start Date:** 21/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP160.1
PRAIRIE_AUK_TP160

Figure PRAIRIE_AUK_TP160.2
PRAIRIE_AUK_TP160

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP160
Client: South Tees Development Corporation	**Location:** E:454601.562 N:521089.621		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.063	**Start Date:** 21/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP160.3
PRAIRIE_AUK_TP160

Figure PRAIRIE_AUK_TP160.4
PRAIRIE_AUK_TP160 - Spoil

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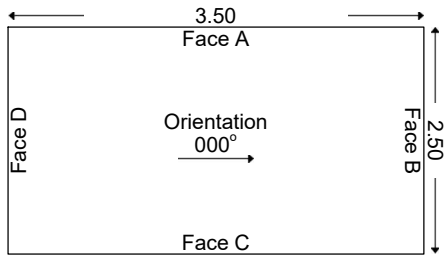
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP161
Client: South Tees Development Corporation	**Location:** E:454550.399 N:521081.305		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.027	**Start Date:** 20/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				9.73		0.30	MADE GROUND (Grey sandy gravel with low cobble content. Sand is fine to coarse. Gravel is fine to coarse subangular and includes slag, concrete and coke. Slag content is 25-50%. Cobbles are angular and include slag. Slag content is 75-100%. Slag is vesicular grey green).
0.50	J1					(0.90)	
0.80	B2						MADE GROUND (Grey red and black sandy gravel and cobbles with fragments of wood. Sand is fine to coarse. Gravel is fine to coarse subangular and includes concrete, slag, ash and brick. Cobbles are subangular and include slag and concrete. Slag content is 25-50%. Slag is vesicular grey). (Engineer notes concrete structure close to pit walls). at c.1.20m BGL ... concrete noted. Pit extended west to avoid. between c.1.20-2.30m BGL ... possibly reworked due to adjacent structures.
0.80	PID	0.8ppm					
1.00	ES3			8.83		1.20	
1.50	J4					(1.50)	
1.80	B5						
2.00	ES6						
2.00	PID	<0.1ppm					Firm brown laminated brown CLAY with yellow fine to coarse sand lenses.
2.50	J7			7.33		2.70	
							Complete at 2.70m BGL.

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

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

GENERAL REMARKS
(1) Concrete walls bound pit to east and west.

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

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP161
Client: South Tees Development Corporation	**Location:** E:454550.399 N:521081.305		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.027	**Start Date:** 20/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP161.1
PRAIRIE_AUK_TP161

Figure PRAIRIE_AUK_TP161.2
PRAIRIE_AUK_TP161

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP161
Client: South Tees Development Corporation	**Location:** E:454550.399 N:521081.305		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.027	**Start Date:** 20/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP161.3
PRAIRIE_AUK_TP161

Figure PRAIRIE_AUK_TP161.4
PRAIRIE_AUK_TP161 - Spoil

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

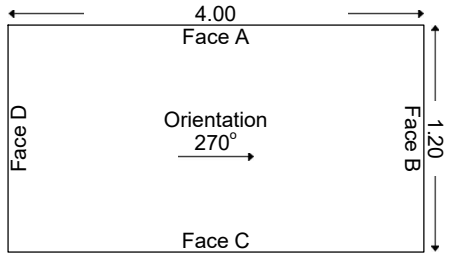
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP162
Client: South Tees Development Corporation	**Location:** E:454442.350 N:521100.483		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.562	**Start Date:** 14/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				10.16		(0.40) 0.40	MADE GROUND (Brown red yellow cobbles. Cobbles are angular and include red brick).
				10.06		0.50	MADE GROUND (Concrete).
0.70	J1						MADE GROUND (Black brown sandy gravel with medium cobble content and fragments of wood. Sand is fine to corse. Gravel is fine to coarse subangular and includes brick, slag, ash and clinker. Cobbles are angular and include slag and red brick. Slag content is 25-75%. Slag is vesicular grey).
0.90	B2					(1.30)	
1.60	J3			8.76		1.80	
1.70	ES4						MADE GROUND (Soft to firm brown silty slightly sandy clay with lenses of orange brown sandy gravel. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded and includes ash and clinker).
1.70	PID	<0.1ppm					
2.00	J5					(1.20)	
2.50	B6			7.56		3.00	
3.10	J7						Firm interlaminated brown slightly sandy SILT and CLAY.
3.50	B8					(1.00)	at c.3.50m BGL ... insufficiently cohesive.
				6.56		4.00	
							Complete at 4.00m BGL.

PLAN



GROUNDWATER
Perched water at 2.80m BGL within granular lenses (heavy inflow).

STABILITY
Pit sides moderately stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP162
Client: South Tees Development Corporation	**Location:** E:454442.350 N:521100.483		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.562	**Start Date:** 14/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP162.1
PRAIRIE_AUK_TP162

Figure PRAIRIE_AUK_TP162.2
PRAIRIE_AUK_TP162

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP162
Client: South Tees Development Corporation	**Location:** E:454442.350 N:521100.483		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.562	**Start Date:** 14/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP162.3
PRAIRIE_AUK_TP162 - Spoil

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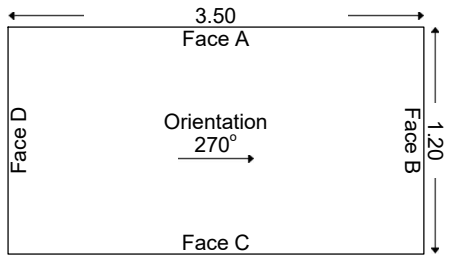
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP163
Client: South Tees Development Corporation	**Location:** E:454390.977 N:521100.487		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.875	**Start Date:** 14/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				9.78		0.10	MADE GROUND (Brown black sand with many rootlets. Sand is fine to coarse and includes ash).
0.50	J1					(0.90)	MADE GROUND (Red brown black sandy gravel with fragments of wood. Sand is fine to coarse. Gravel is fine to coarse and includes clinker, ash, coke, concrete, red brick and slag. Slag content is 0-25%. Slag is vesicular. Engineer notes 75mm diameter electric cable (broken and loose in pit) found within strata).
0.80	B2			8.88		1.00	
1.20	ES3			8.58		1.30	MADE GROUND (Black gravel and cobbles with fragments of wood. Gravel is fine to coarse subangular and includes concrete, slag and ash. Cobbles are subangular and include slag. Slag content is 50-75%. Slag is vesicular. Strong hydrocarbon/creosote odour).
1.20	PID	4.5ppm					
1.60	J4					(1.10)	Soft to firm grey brown slightly sandy CLAY.
1.70	B5						
1.90	ES6						
1.90	PID	2.1ppm					
2.00	HSV	54 (36)kPa		7.48		2.40	
							Complete at 2.40m BGL.

PLAN



GROUNDWATER
Perched water at 1.10m BGL (slight inflow).

STABILITY
Pit sides stable throughout excavation.

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

GENERAL REMARKS

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

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TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.**
Client: South Tees Development Corporation	**Location:** E:454390.977 N:521100.487		**PRAIRIE_AUK_TP163**
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.875	**Start Date:** 14/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP163.1
PRAIRIE_AUK_TP163

Figure PRAIRIE_AUK_TP163.2
PRAIRIE_AUK_TP163

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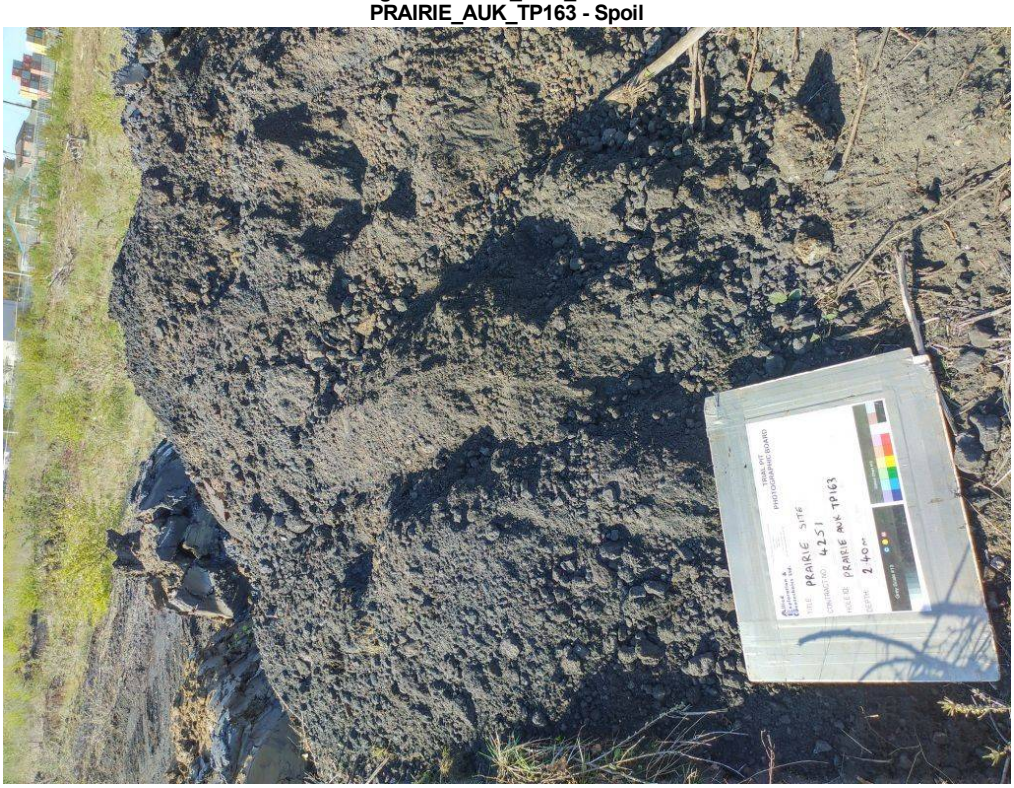
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP163
Client: South Tees Development Corporation	**Location:** E:454390.977 N:521100.487		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.875	**Start Date:** 14/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP163.3
PRAIRIE_AUK_TP163 - Spoil



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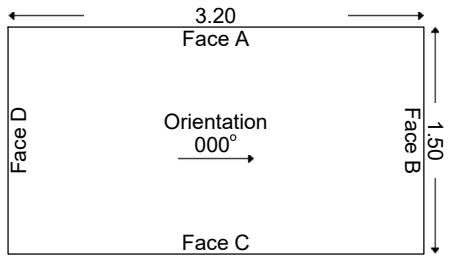
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP164
Client: South Tees Development Corporation	**Location:** E:454338.024 N:521112.664		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.003	**Start Date:** 16/04/2020	**Sheet:** 1 of 4

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				9.60		(0.40) 0.40	MADE GROUND (Brown black red sandy gravel. Sand is fine to coarse. Gravel is fine to coarse subangular and includes ash, clinker and slag. Slag content is 0-25%. Slag is vesicular).
0.50	J1			9.20		(0.40) 0.80	MADE GROUND (Black brown grey sandy gravel. Sand is fine to coarse. Gravel is fine to coarse subangular and includes ash, clinker, concrete and slag. Slag content is 25-50%. Slag is vesicular).
0.60	B2			8.80		(0.40) 1.20	MADE GROUND (Grey gravel and cobbles. Gravel is fine to coarse subangular and includes slag. Cobbles are angular and include slag. Slag content is 100%. Slag is vesicular).
0.70	ES3						
0.70	PID	<0.1ppm					
1.00	B4						
1.30	ES5						
1.30	PID	<0.1ppm					
1.40	J6					(1.20)	MADE GROUND (Brown red orange slightly gravelly sand. Sand is fine to coarse. Gravel is fine to medium subangular and includes clinker and coke).
1.80	B7			7.60		2.40	
2.60	J8						Soft to firm interlaminated brown SILT and CLAY with silty sand lenses.
2.80	B9			6.20		(1.40) 3.80	
3.80	J10						*Complete at 3.80m BGL.*

PLAN



GROUNDWATER
Perched water at 2.40m BGL (Slow inflow).

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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

Print Date and Time: 18/06/2020 08:00:15

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP164
Client: South Tees Development Corporation	**Location:** E:454338.024 N:521112.664		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.003	**Start Date:** 16/04/2020	**Sheet:** 2 of 4

Figure PRAIRIE_AUK_TP164.1
PRAIRIE_AUK_TP164

Figure PRAIRIE_AUK_TP164.2
PRAIRIE_AUK_TP164

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP164
Client: South Tees Development Corporation	**Location:** E:454338.024 N:521112.664		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.003	**Start Date:** 16/04/2020	**Sheet:** 3 of 4

Figure PRAIRIE_AUK_TP164.3
PRAIRIE_AUK_TP164

Figure PRAIRIE_AUK_TP164.4
PRAIRIE_AUK_TP164 - Spoil

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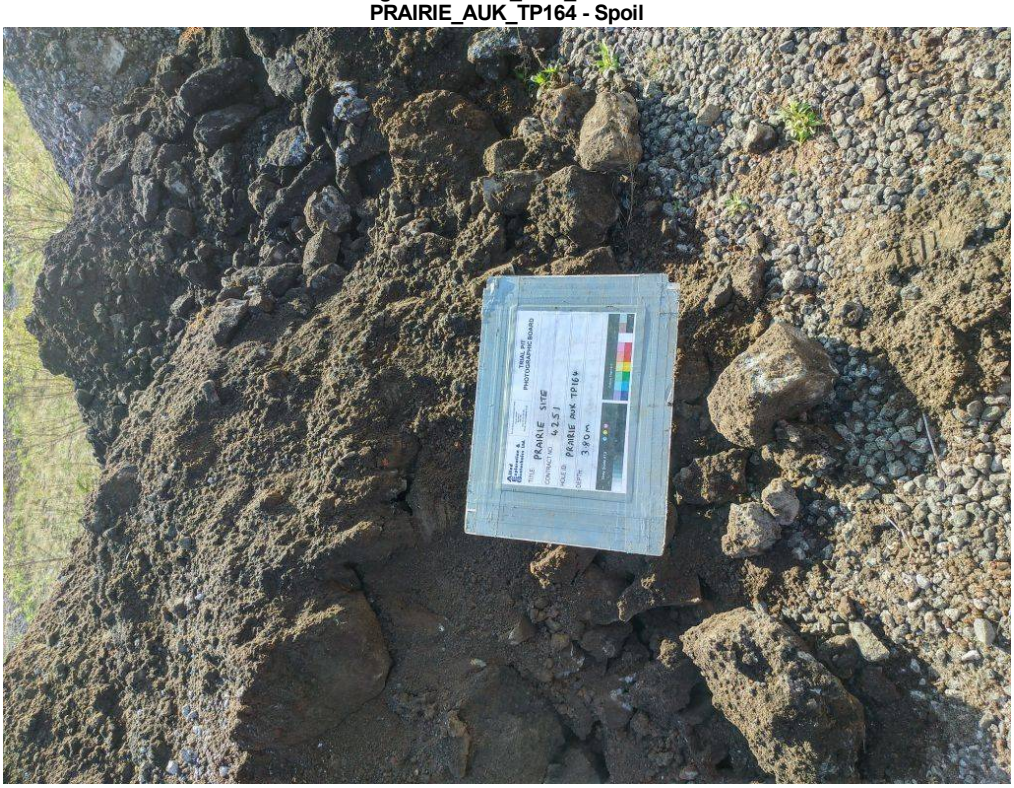
Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP164
Client: South Tees Development Corporation	**Location:** E:454338.024 N:521112.664		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.003	**Start Date:** 16/04/2020	**Sheet:** 4 of 4

Figure PRAIRIE_AUK_TP164.5
PRAIRIE_AUK_TP164 - Spoil



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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

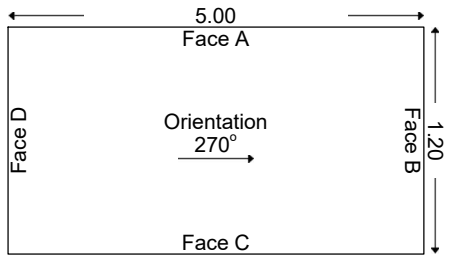
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP165
Client: South Tees Development Corporation	**Location:** E:454460.835 N:521028.046		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.490	**Start Date:** 15/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1						MADE GROUND (Red brown yellow sandy gravel with high cobble content. Sand is fine to coarse. Gravel is fine to coarse subangular and includes red and yellow brick, slag and concrete. Cobbles are angular and include red and yellow brick. Slag content is 0-25%. Slag is vesicular).
0.80	B2						
1.00	ES3						
1.00	PID	<0.1ppm				(2.60)	
1.50	J4						
1.80	B5						
2.50	J6			10.89		2.60	at c.2.60m BGL ... concrete slab - pit extended 3.00m east.
2.80	B7					(0.70)	MADE GROUND (Red brown yellow sandy gravel with high cobble content and pockets of ash. Sand is fine to coarse. Gravel is fine to coarse subangular and includes red and yellow brick, slag and concrete. Cobbles are angular and include yellow and red brick. Slag content is 0-25%. Slag is vesicular).
3.30	PID	<0.1ppm		10.19		3.30	at c.3.30m BGL ... concrete. Engineer notes evidence of reworked clay but unable to excavate properly to determine due to concrete.
3.30	ES8						*Complete at 3.30m BGL.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides moderately unstable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP165
Client: South Tees Development Corporation	**Location:** E:454460.835 N:521028.046		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.490	**Start Date:** 15/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP165.1
PRAIRIE_AUK_TP165

Figure PRAIRIE_AUK_TP165.2
PRAIRIE_AUK_TP165

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP165
Client: South Tees Development Corporation	**Location:** E:454460.835 N:521028.046		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.490	**Start Date:** 15/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP165.3
PRAIRIE_AUK_TP165 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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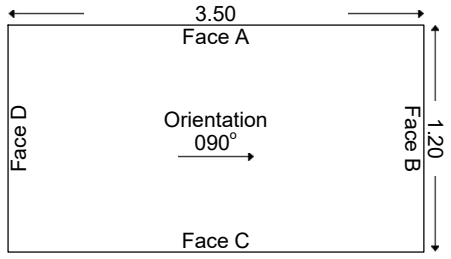
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP166
Client: South Tees Development Corporation	**Location:** E:454598.318 N:520991.331		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 11.088	**Start Date:** 20/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				10.79		0.30	MADE GROUND (Grey sandy gravel. Sand is fine to coarse. Gravel is fine to coarse subangular and includes slag, concrete, ash and coke. Slag content is 25-50%. Gravel is vesicular grey).
0.35	J1			10.59		0.50	MADE GROUND (Black brown sandy gravel. Sand is fine to coarse and includes predominantly ash. Gravel is fine to medium subangular to subrounded and includes ash, clinker and coke).
0.40	B2						
0.45	ES3			10.29		0.80	MADE GROUND (Soft to firm grey mottled black silty clay).
0.50	PID	0.2ppm				(0.70)	Firm slightly laminated brown grey CLAY.
0.60	J4						
0.70	B5						
1.00	J6						
1.00	PID	<0.1ppm		9.59		1.50	*Complete at 1.50m BGL.*
1.10	B7						
1.20	ES8						

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP166
Client: South Tees Development Corporation	**Location:** E:454598.318 N:520991.331		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 11.088	**Start Date:** 20/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP166.1
PRAIRIE_AUK_TP166

Figure PRAIRIE_AUK_TP166.2
PRAIRIE_AUK_TP166

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP166
Client: South Tees Development Corporation	**Location:** E:454598.318 N:520991.331		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 11.088	**Start Date:** 20/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP166.3
PRAIRIE_AUK_TP166 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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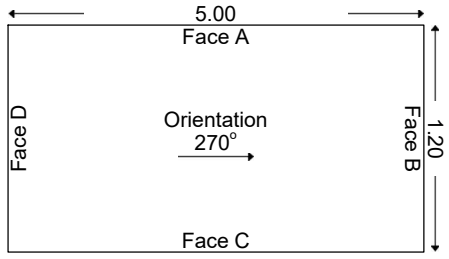
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP167
Client: South Tees Development Corporation	**Location:** E:454482.468 N:520987.280		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.208	**Start Date:** 15/04/2020	**Sheet:** 1 of 2

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				13.01		0.20	MADE GROUND (Red brown yellow sandy gravel with low cobble content. Sand is fine to coarse. Gravel is fine to coarse subangular and includes red and yellow brick, slag and concrete. Cobbles are angular and include red and yellow brick. Slag content is 0-25%).
0.50	J1						
0.80	B2						MADE GROUND (Grey cobbles and boulders with rebar (10-50mm). Cobbles and boulders are angular and include concrete).
						(2.40)	
1.50	J3						
1.80	B4						
2.40	J5			10.61		2.60	
2.50	ES6						
2.50	PID	<0.1ppm					at c.2.60m BGL ... concrete slab. *Complete at 2.60m BGL.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides moderately unstable throughout excavation.

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

GENERAL REMARKS

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

Print Date and Time: 18/06/2020 08:00:39

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP167
Client: South Tees Development Corporation	**Location:** E:454482.468 N:520987.280		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.208	**Start Date:** 15/04/2020	**Sheet:** 2 of 2

Figure PRAIRIE_AUK_TP167.1
PRAIRIE_AUK_TP167

Figure PRAIRIE_AUK_TP167.2
PRAIRIE_AUK_TP167

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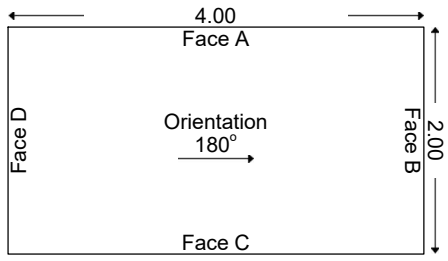
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP168
Client: South Tees Development Corporation	**Location:** E:454395.577 N:521002.419		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.121	**Start Date:** 09/04/2020	**Sheet:** 1 of 2

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.05	ES1			10.02		0.10	MADE GROUND (Brown clayey sand with many rootlets. Sand is fine to coarse and includes ash).
0.05	PID	<0.1ppm					
0.20	J2			9.72		0.40	MADE GROUND (Brown black red sandy gravel with fragments of metal and wood. Sand is fine to coarse. Gravel is fine to coarse subangular and includes ash, clinker and slag. Slag content is 0-25%. Slag is vesicular)
0.30	B3					(0.70)	
0.60	J4						
0.80	B5			9.02		1.10	MADE GROUND (Soft to firm grey mottled black silty clay with low cobble content. Cobbles are angular and include red brick).
1.40	J6					(1.00)	Firm to stiff brown red grey CLAY with occasional sand lenses.
1.60	B7						
2.00	HSV	96 (42)kPa		8.02		2.10	*Complete at 2.10m BGL.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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

Print Date and Time: 18/06/2020 08:00:44

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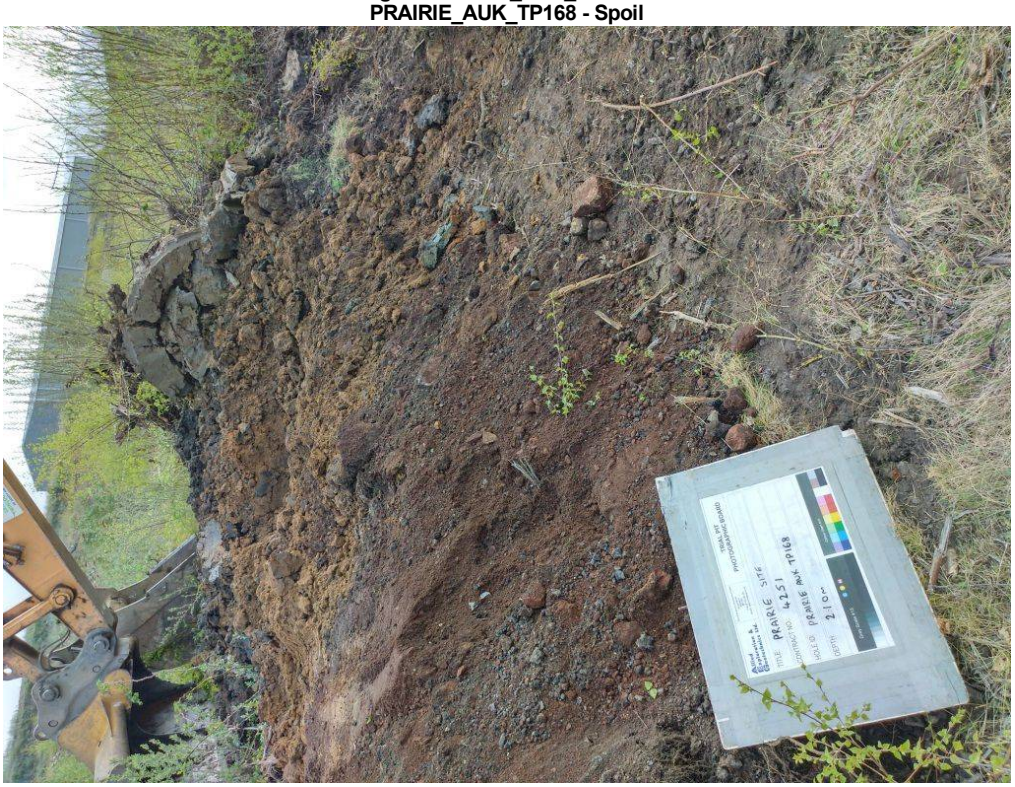
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP168
Client: South Tees Development Corporation	**Location:** E:454395.577 N:521002.419		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.121	**Start Date:** 09/04/2020	**Sheet:** 2 of 2

Figure PRAIRIE_AUK_TP168.1
PRAIRIE_AUK_TP168

Figure PRAIRIE_AUK_TP168.2
PRAIRIE_AUK_TP168 - Spoil



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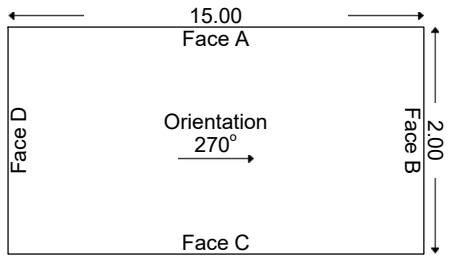
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP169
Client: South Tees Development Corporation	**Location:** E:454473.400 N:520964.531		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.930	**Start Date:** 15/04/2020	**Sheet:** 1 of 4

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
						(0.70)	MADE GROUND (Red brown yellow sandy gravel with high cobble content and many rootlets. Sand is fine to coarse. Gravel is fine to coarse subangular and includes red and yellow brick, slag and concrete. Cobbles are angular and includes red and yellow brick. Slag content is 0-25%. Slag is vesicular grey).
0.50	J1			12.23		0.70	
0.80	B2					(0.50)	at c.0.70m BGL ... concrete slab (coke oven slab). Pit extended 3.00m east.
				11.73		1.20	MADE GROUND (Red brown yellow sandy gravel with high cobble content and pockets of ash. Sand is fine to coarse. Gravel is fine to coarse subangular and includes red and yellow brick, slag and concrete. Cobbles are angular and include red and yellow brick. Slag content is 0-25%. Slag is vesicular grey. Engineer also notes iron plates, 50mm rebar, cast iron metal objects).
1.50	ES3					(1.00)	at c.1.20m BGL ... concrete. Flat concrete structure with 3 No. 460mm diameter cast iron pipes cast into the structure running N-S. Pipes are hollow (empty) and are voided beneath to a depth of 3.80m BGL. Pit extended 3.00m east.
				10.73		2.20	MADE GROUND (Red brown yellow sandy gravel with high cobble content and pockets of ash. Sand is fine to coarse. Gravel is fine to coarse subangular and includes red and yellow brick, slag and concrete. Cobbles are angular and include yellow and red brick. Slag content is 0-25%. Slag is vesicular grey. Engineer also notes iron plates, 50mm rebar, cast iron metal girders and other unknown metal objects).
							at c.2.20m BGL ... concrete. Flat concrete structure with railway rails at extremities. Pit extended 9.00m east.
							Complete at 2.20m BGL.

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides moderately unstable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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

Print Date and Time: 18/06/2020 08:00:49

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP169
Client: South Tees Development Corporation	**Location:** E:454473.400 N:520964.531		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.930	**Start Date:** 15/04/2020	**Sheet:** 2 of 4

Figure PRAIRIE_AUK_TP169.1
PRAIRIE_AUK_TP169

Figure PRAIRIE_AUK_TP169.2
PRAIRIE_AUK_TP169

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP169
Client: South Tees Development Corporation	**Location:** E:454473.400 N:520964.531		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.930	**Start Date:** 15/04/2020	**Sheet:** 3 of 4

Figure PRAIRIE_AUK_TP169.3
PRAIRIE_AUK_TP169

Figure PRAIRIE_AUK_TP169.4
PRAIRIE_AUK_TP169

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP169
Client: South Tees Development Corporation	**Location:** E:454473.400 N:520964.531		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.930	**Start Date:** 15/04/2020	**Sheet:** 4 of 4

Figure PRAIRIE_AUK_TP169.5
PRAIRIE_AUK_TP169 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

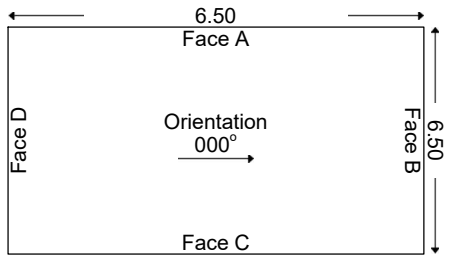
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP170
Client: South Tees Development Corporation	**Location:** E:454583.361 N:521042.047		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.409	**Start Date:** 21/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				10.21		0.20	MADE GROUND (Grey sandy gravel with many rootlets. Sand is fine to coarse. Gravel is fine to coarse subangular and includes slag, concrete, ash, coke and red brick. Slag content is 25-50%. Slag is vesicular grey green).
0.30	J1					(0.50)	
0.40	B2						
0.50	ES3			9.71		0.70	
0.50	PID	<0.1ppm		9.61		0.80	MADE GROUND (Brown black grey sandy gravel with high cobble content. Sand is fine to coarse and includes predominantly ash. Gravel is fine to coarse subangular and includes ash, clinker, coke, red brick and slag. Cobbles are angular and include brick and concrete. Slag content is 25-50%. Slag is vesicular grey green).
1.00	ES4					(0.50)	
1.00	PID	17.5ppm		9.11		1.30	
						(0.50)	MADE GROUND (Concrete and cast iron cover. Pit extended to excavate down eastern edge of slab).
1.50	J5						
1.50	PID	1.1ppm		8.61		1.80	MADE GROUND (Firm grey mottled black silty slightly sandy clay with yellow brown sand lenses. Sand is fine to medium. Slight hydrocarbon odour).
1.80	B6						Firm to stiff (friable) laminated red brown CLAY with brown silty fine to medium sand lenses.
							Complete at 1.80m BGL.

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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

Print Date and Time: 18/06/2020 08:01:00

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP170
Client: South Tees Development Corporation	**Location:** E:454583.361 N:521042.047		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.409	**Start Date:** 21/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP170.1
PRAIRIE_AUK_TP170

Figure PRAIRIE_AUK_TP170.2
PRAIRIE_AUK_TP170

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP170
Client: South Tees Development Corporation	**Location:** E:454583.361 N:521042.047		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.409	**Start Date:** 21/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP170.3
PRAIRIE_AUK_TP170 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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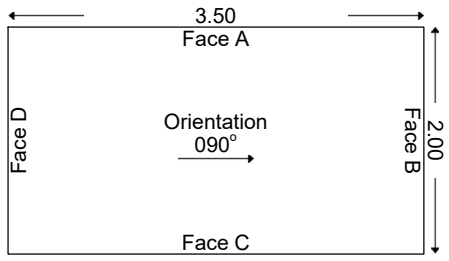
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP171
Client: South Tees Development Corporation	**Location:** E:454564.178 N:520951.248		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 11.593	**Start Date:** 20/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				11.09		(0.50) 0.50	MADE GROUND (Grey sandy gravel with low cobble content. Sand is fine to coarse. Gravel is fine to coarse subangular and include slag, concrete and coke. Gravel slag content is 25-50%. Cobbles are angular and includes slag. Cobble slag content is 75-100%. Slag is vesicular grey green).
0.50	PID	1.4ppm		10.59		(0.50) 1.00	MADE GROUND (Brown black sandy gravel. Sand is fine to coarse and includes predominantly ash. Gravel is fine to medium subangular to subrounded and includes ash, clinker and coke).
0.60	J1			10.29		1.30	MADE GROUND (Soft to firm grey mottled silty clay).
0.70	B2					(0.80)	Firm laminated brown CLAY with yellow brown fine to coarse sand lenses.
0.75	ES3			9.49		2.10	
1.00	PID	1.3ppm					*Complete at 2.10m BGL.*
1.10	J4						
1.20	B5						
1.30	ES6						
1.50	J7						
1.50	PID	<0.1ppm					
1.80	B8						

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP171
Client: South Tees Development Corporation	**Location:** E:454564.178 N:520951.248		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 11.593	**Start Date:** 20/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP171.1
PRAIRIE_AUK_TP171

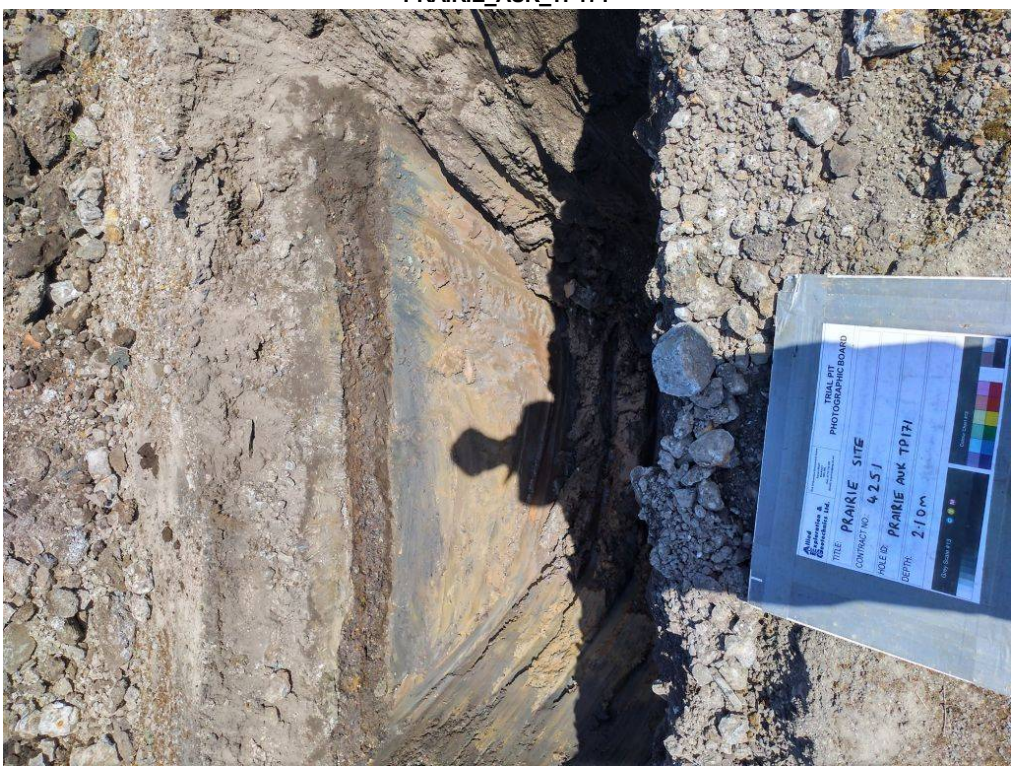

Figure PRAIRIE_AUK_TP171.2
PRAIRIE_AUK_TP171

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP171
Client: South Tees Development Corporation	**Location:** E:454564.178 N:520951.248		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 11.593	**Start Date:** 20/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP171.3
PRAIRIE_AUK_TP171 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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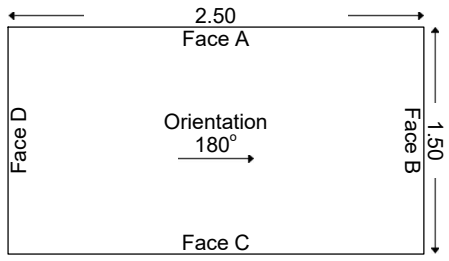
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP172
Client: South Tees Development Corporation	**Location:** E:454508.970 N:520896.605		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.862	**Start Date:** 06/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				12.66		0.20	MADE GROUND (Brown clayey sand with many rootlets. Sand is fine to coarse and includes ash).
0.40	J1						MADE GROUND (Brown sandy gravel with medium cobble content with fragments of metal, wire, plastic and wood. Sand is fine to coarse. Gravel is fine to coarse subangular and includes slag, brick and concrete. Cobbles are subangular and include red and yellow brick, concrete and slag. Slag content is 25-50%. Slag is vesicular).
0.60	B2						
0.80	ES3						
0.80	PID	<0.1ppm				(1.90)	
1.40	J4						
1.60	B5						
				10.76		2.10	at c.2.10m BGL ... engineer notes possible service as TP was near 'Industrial water pipes'. Concrete obstruction was centered in the pit and ran E-W - unknown dimensions due to possible service. *Terminated at 2.10m BGL - due to instability and concrete obstruction.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides unstable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP172
Client: South Tees Development Corporation	**Location:** E:454508.970 N:520896.605		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.862	**Start Date:** 06/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP172.1
PRAIRIE_AUK_TP172

Figure PRAIRIE_AUK_TP172.2
PRAIRIE_AUK_TP172

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP172
Client: South Tees Development Corporation	**Location:** E:454508.970 N:520896.605		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.862	**Start Date:** 06/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP172.3
PRAIRIE_AUK_TP172 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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
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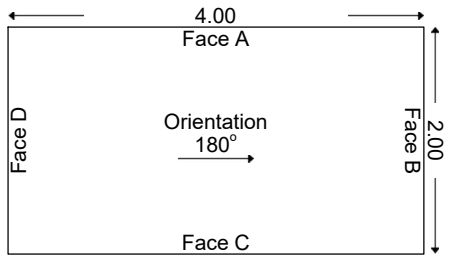
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP173
Client: South Tees Development Corporation	**Location:** E:454451.197 N:520922.212		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 11.407	**Start Date:** 09/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				11.31		0.10	MADE GROUND (Brown clayey sand with many rootlets. Sand is fine to coarse and includes ash).
				11.01		0.40	MADE GROUND (Grey gravel. Gravel is medium to coarse subangular to subrounded and includes slag. Slag content is 75-100%. Slag is vesicular).
0.60	J1						Soft to firm brown grey thinly and thickly interbedded SILT and CLAY with occasional sand lenses.
0.80	B2						
0.90	ES3						
0.90	PID	<0.1ppm					
1.40	J4					(2.30)	
1.50	HSV*						
1.80	B5						
2.40	J6						
2.50	HSV*			8.71		2.70	
							Complete at 2.70m BGL.

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS
(1) Material too friable/sandy for HSV testing.

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

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TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP173
Client: South Tees Development Corporation	**Location:** E:454451.197 N:520922.212		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 11.407	**Start Date:** 09/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP173.1
PRAIRIE_AUK_TP173

Figure PRAIRIE_AUK_TP173.2
PRAIRIE_AUK_TP173

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP173
Client: South Tees Development Corporation	**Location:** E:454451.197 N:520922.212		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 11.407	**Start Date:** 09/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP173.3
PRAIRIE_AUK_TP173 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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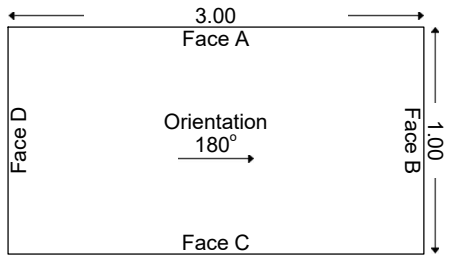
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP174
Client: South Tees Development Corporation	**Location:** E:454464.960 N:520888.025		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 11.852	**Start Date:** 08/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				11.75		0.10	MADE GROUND (Brown clayey sand with many rootlets. Sand is fine to coarse and includes ash).
0.40	J1					(1.00)	MADE GROUND (Brown grey black sandy gravel and cobbles with rebar noted (20mm) with fragments of metal and wood. Sand is fine to coarse. Gravel is fine to coarse of clinker, ash, coal, concrete, red brick and slag. Slag content is 0-25%. Slag is vesicular grey).
0.60	B2						
0.80	ES3						
0.80	PID	<0.1ppm		10.75		1.10	
1.20	J4						Soft (friable) grey brown mottled clayey SILT with clay bands and yellow sand lenses. Sand is fine to coarse.
1.40	B5					(1.50)	
1.60	ES6						
1.60	PID	<0.1ppm		9.25		2.60	
							Complete at 2.60m BGL.

PLAN



GROUNDWATER
Groundwater seepage at 2.00m BGL (slight inflow).

STABILITY
Pit sides stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS
(1) Engineer notes pit moved west by 1m due to old concrete (30mm rebar) foundation uncovered with abandoned electric cables running N-S, adjacent and parallel to foundation.

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

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP174
Client: South Tees Development Corporation	**Location:** E:454464.960 N:520888.025		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 11.852	**Start Date:** 08/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP174.1
PRAIRIE_AUK_TP174

Figure PRAIRIE_AUK_TP174.2
PRAIRIE_AUK_TP174

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP174
Client: South Tees Development Corporation	**Location:** E:454464.960 N:520888.025		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 11.852	**Start Date:** 08/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP174.3
PRAIRIE_AUK_TP174 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

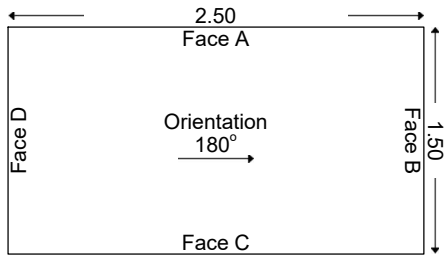
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP175
Client: South Tees Development Corporation	**Location:** E:454511.473 N:520862.590		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.085	**Start Date:** 06/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				11.79		0.30	MADE GROUND (Brown clayey sand with many rootlets. Sand is fine to coarse and includes ash).
0.40	J1					(0.60)	MADE GROUND (Brown sandy gravel with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse subangular and includes slag, brick and concrete. Cobbles are subangular and include brick and concrete. Slag content is 25-50%. Slag is vesicular. Strong Hydrocarbon odour). at c.0.60m BGL ... loose broken piece of 6" pipe containing black sandy gel like liquid - possibly partially solidified tar/oil.
0.60	B2						
0.80	ES3		≈	11.19		0.90	
0.80	PID	101.1ppm					
1.40	J4						Firm brown sandy CLAY with silt lenses. Sand is fine to medium. Engineer notes grades to silt with clay interbeds. Hydrocarbon odour.
1.50	HSV	49 (20)kPa					
1.60	B5						
1.80	ES6						
1.80	PID	5.3ppm					
2.50	HSV*					(3.60)	
2.60	J7						
2.80	B8						
3.50	HSV*						
3.60	J9						
				7.59		4.50	*Complete at 4.50m BGL.*

PLAN



GROUNDWATER
Perched water at 0.90m BGL - slight inflow.

STABILITY
Pit sides stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP175
Client: South Tees Development Corporation	**Location:** E:454511.473 N:520862.590		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.085	**Start Date:** 06/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP175.1
PRAIRIE_AUK_TP175

Figure PRAIRIE_AUK_TP175.2
PRAIRIE_AUK_TP175

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP175
Client: South Tees Development Corporation	**Location:** E:454511.473 N:520862.590		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.085	**Start Date:** 06/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP175.3
PRAIRIE_AUK_TP175 - Spoil

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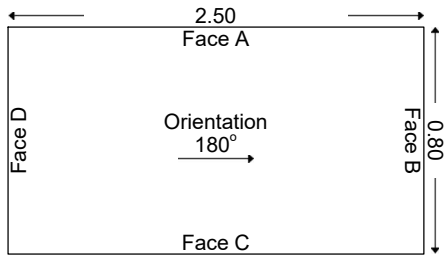
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP176
Client: South Tees Development Corporation	**Location:** E:454471.902 N:520790.947		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.168	**Start Date:** 07/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				11.87		0.30	MADE GROUND (Grey gravel. Gravel is fine to coarse subangular to subrounded and includes slag. Slag content is 75-100%. Slag is vesicular).
0.40 0.50	J1 B2					(0.70)	MADE GROUND (Red, brown and black sandy gravel with fragments of wood. Sand is fine to coarse. Gravel is fine to coarse of clinker, ash, coal, concrete, red brick and slag. Slag content is 0-25%. Slag is vesicular grey).
0.90 0.90	ES3 PID	1.1ppm		11.17		1.00	(Engineer notes 150mm cast iron pipe broken and loose in pit).
1.50 1.50	HSV J4	54 (36)kPa				(1.00)	Soft to firm grey brown mottled silty CLAY/clayey SILT with traces of organic debris.
2.00	B5			10.17		2.00	*Complete at 2.00m BGL.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides stable throughout excavation.

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

GENERAL REMARKS

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

Print Date and Time: 18/06/2020 08:01:38

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP176
Client: South Tees Development Corporation	**Location:** E:454471.902 N:520790.947		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.168	**Start Date:** 07/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP176.1
PRAIRIE_AUK_TP176

Figure PRAIRIE_AUK_TP176.2
PRAIRIE_AUK_TP176

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP176
Client: South Tees Development Corporation	**Location:** E:454471.902 N:520790.947		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.168	**Start Date:** 07/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP176.3
PRAIRIE_AUK_TP176 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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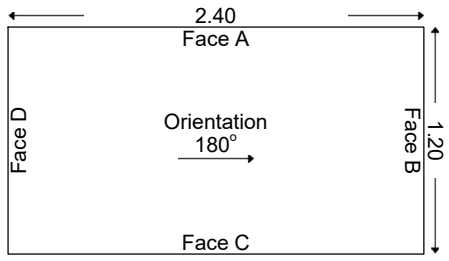
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP177
Client: South Tees Development Corporation	**Location:** E:454522.291 N:520695.237		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.982	**Start Date:** 07/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				12.88		0.10	MADE GROUND (Brown clayey sand with many rootlets. Sand is fine to coarse and includes ash).
				12.58		0.40	MADE GROUND (Grey gravel. Gravel is coarse and includes slag. Slag content is 75-100%. Slag is vesicular (used as ballast)).
0.50	J1					(0.40)	
0.60	ES2			12.18		0.80	MADE GROUND (Red brown black sandy gravel. Sand is fine to coarse. Gravel is fine to medium and includes clinker, ash, coal, concrete and slag. Slag content is 0-25%).
0.60	PID	1.1ppm				(0.40)	
0.70	B3						
0.90	J4			11.78		1.20	MADE GROUND (Soft to firm brown grey mottled dark grey slightly sandy clay. Sand is fine to medium).
1.00	B5		≈				
1.40	J6					(1.10)	MADE GROUND (Grey gravel with cobbles and boulders. Gravel is fine to coarse subangular and includes slag. Cobbles are angular to subangular and include slag. Boulders are subangular to subrounded of slag. Slag content is 100%. Slag is vesicular).
1.80	B7						
1.90	ES8						
1.90	PID	<0.1ppm		10.68		2.30	
							Terminated at 2.30m BGL - due to instability and proximity to services.

PLAN



GROUNDWATER
Saturated strata at 1.40m BGL (heavy inflow).

STABILITY
Pit sides unstable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP177
Client: South Tees Development Corporation	**Location:** E:454522.291 N:520695.237		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.982	**Start Date:** 07/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP177.1
PRAIRIE_AUK_TP177

Figure PRAIRIE_AUK_TP177.2
PRAIRIE_AUK_TP177

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TRIAL PIT RECORD

Status:- PRELIM3

Project:		Exploratory Hole No.
Prairie Site Ground Investigation Works		PRAIRIE_AUK_TP177
Client: South Tees Development Corporation	**Location:** E:454522.291 N:520695.237	

Method (Equipment):	Ground Level (m):	Start Date:	Sheet:
Machine Excavated (360 Tracked Excavator)	12.982	07/04/2020	3 of 3

Figure PRAIRIE_AUK_TP177.3
PRAIRIE_AUK_TP177 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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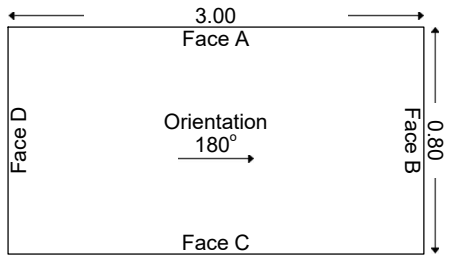
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP178
Client: South Tees Development Corporation	**Location:** E:454541.891 N:520667.710		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.162	**Start Date:** 06/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				13.06		0.10	MADE GROUND (Brown clayey sand with many rootlets. Sand is fine to coarse and includes ash).
				12.86		0.30	MADE GROUND (Grey gravel. Gravel is coarse and includes slag (used as ballast). Slag content is 75-100%. Slag is vesicular).
0.40	J1						
0.60	B2						
0.80	ES3					(1.20)	MADE GROUND (Red brown black sandy gravel. Sand is fine to coarse. Gravel is fine to medium and includes clinker, ash, coal and concrete).
0.80	PID	<0.1ppm					
1.40	J4			11.66		1.50	
1.60	B5						Firm brown grey mottled dark grey slightly sandy CLAY. Sand is fine to medium.
1.80	HSV	53 (26)kPa					
						(1.70)	
2.80	HSV	52 (26)kPa					
				9.96		3.20	
						(1.30)	Stiff friable red brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular and includes sandstone and mudstone.
3.50	HSV*						
				8.66		4.50	
							Complete at 4.50m BGL.

PLAN



GROUNDWATER
Perched water at 1.50m BGL (slight inflow).

STABILITY
Pit sides stable throughout excavation.

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

GENERAL REMARKS

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

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP178
Client: South Tees Development Corporation	**Location:** E:454541.891 N:520667.710		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.162	**Start Date:** 06/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP178.1
PRAIRIE_AUK_TP178

Figure PRAIRIE_AUK_TP178.2
PRAIRIE_AUK_TP178

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP178
Client: South Tees Development Corporation	**Location:** E:454541.891 N:520667.710		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.162	**Start Date:** 06/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP178.3
PRAIRIE_AUK_TP178 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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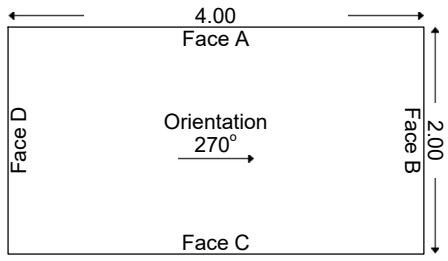
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP179
Client: South Tees Development Corporation	**Location:** E:454418.321 N:521016.092		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.823	**Start Date:** 09/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				10.72		0.10	MADE GROUND (Brown clayey sand with many rootlets. Sand is fine to coarse and includes ash).
0.20	J1					(0.50)	
0.40	B2			10.22		0.60	MADE GROUND (Brown 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%).
						(0.70)	
1.00	B3		≈	9.52		1.30	MADE GROUND (Grey cobbles and boulders. Cobbles are subangular and include slag. Boulders are subangular and include slag. Slag is vesicular).
1.40	ES4			9.32		1.50	MADE GROUND (Black sandy gravel with fragments of metal. Sand is fine to coarse. Gravel is fine to coarse subangular and include red brick, clinker, ash, concrete and slag. Slag content is 0-25%. Strong hydrocarbon/creosote odour).
1.40	PID	3.8ppm				(0.50)	
1.70	J5						
1.80	B6			8.82		2.00	Soft to firm brown slightly organic grey mottled black thinly and thickly interbedded SILT and CLAY with occasional sand lenses. Slight hydrocarbon/creosote odour.
2.00	PID	2.1ppm					
2.00	ES7						
2.00	HSV*						*Complete at 2.00m BGL.*

PLAN



GROUNDWATER
Perched water at 1.20m BGL (heavy inflow).

STABILITY
Pit sides stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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

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TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP179
Client: South Tees Development Corporation	**Location:** E:454418.321 N:521016.092		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.823	**Start Date:** 09/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP179.1
PRAIRIE_AUK_TP179

Figure PRAIRIE_AUK_TP179.2
PRAIRIE_AUK_TP179

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP179
Client: South Tees Development Corporation	**Location:** E:454418.321 N:521016.092		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.823	**Start Date:** 09/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP179.3
PRAIRIE_AUK_TP179 - Spoil

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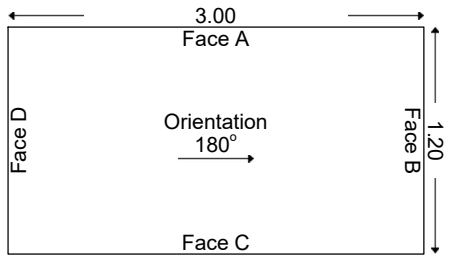
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.**
Client: South Tees Development Corporation	**Location:** E:454435.374 N:521058.356		**PRAIRIE_AUK_TP180**
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.569	**Start Date:** 14/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.10 0.20 0.30 0.30	J1 B2 ES3 PID	<0.1ppm		12.17		(0.40) 0.40	MADE GROUND (Red brown black sandy gravel. Sand is fine to coarse. Gravel is fine to coarse and includes clinker, ash, concrete and slag. Slag content is 0-25%). at c.0.40m BGL ... concrete slab. *Complete at 0.40m BGL.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides stable throughout excavation.

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

GENERAL REMARKS

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

Print Date and Time: 18/06/2020 08:02:05

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP180
Client: South Tees Development Corporation	**Location:** E:454435.374 N:521058.356		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.569	**Start Date:** 14/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP180.1
PRAIRIE_AUK_TP180

Figure PRAIRIE_AUK_TP180.2
PRAIRIE_AUK_TP180

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP180
Client: South Tees Development Corporation	**Location:** E:454435.374 N:521058.356		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.569	**Start Date:** 14/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP180.3
PRAIRIE_AUK_TP180 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

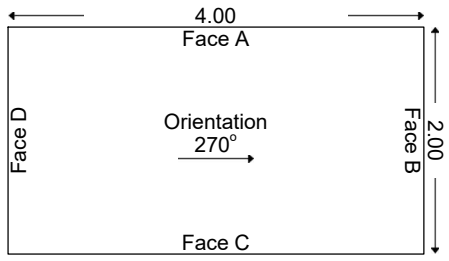
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP181
Client: South Tees Development Corporation	**Location:** E:454402.534 N:521065.535		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.158	**Start Date:** 09/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				10.06		0.10	MADE GROUND (Brown clayey sand with many rootlets. Sand is fine to coarse and includes ash).
0.30	J1					(0.70)	MADE GROUND (Brown 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%).
0.50	B2						
0.60	ES3						
0.60	PID	<0.1ppm		9.36		0.80	
							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).
1.10	B4					(0.90)	
				8.46		1.70	
1.80	J5						Firm becoming stiff brown red grey CLAY with occasional sand lenses and interlaminated silt and clay laminae.
2.00	HSV	93 (42)kPa					
2.00	B6					(1.00)	
2.50	ES7						
2.50	PID	<0.1ppm		7.46		2.70	
							Complete at 2.70m BGL.

PLAN



GROUNDWATER
Perched water at 1.70m BGL (slight inflow).

STABILITY
Pit sides stable throughout excavation.

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

GENERAL REMARKS

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

Print Date and Time: 18/06/2020 08:02:12

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP181
Client: South Tees Development Corporation	**Location:** E:454402.534 N:521065.535		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.158	**Start Date:** 09/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP181.1
PRAIRIE_AUK_TP181

Figure PRAIRIE_AUK_TP181.2
PRAIRIE_AUK_TP181

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP181
Client: South Tees Development Corporation	**Location:** E:454402.534 N:521065.535		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.158	**Start Date:** 09/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP181.3
PRAIRIE_AUK_TP181 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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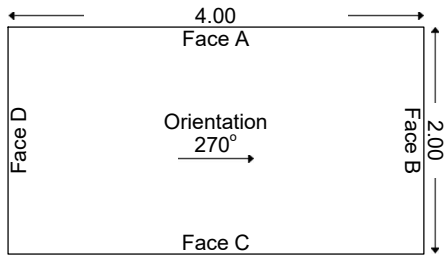
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP182
Client: South Tees Development Corporation	**Location:** E:454443.617 N:520943.326		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 11.335	**Start Date:** 09/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				11.24		0.10	MADE GROUND (Brown clayey sand with many rootlets. Sand is fine to coarse and includes ash).
0.30	J1					(0.70)	MADE GROUND (Brown grey black sandy gravel and cobbles with fragments of wood, wood and rebar (10mm). Sand is fine to coarse. Gravel is fine to coarse and includes clinker, ash, coal, concrete, red brick and slag. Slag content is <0-25%. Slag is vesicular grey).
0.60	B2			10.54		0.80	
0.90	ES3						
0.90	PID	6.2ppm	≈	10.24		1.10	MADE GROUND (Black brown sandy gravel. Sand is fine to coarse. Gravel is fine to coarse subangular and includes brick, concrete, ash, clinker and slag. Slag content is 25-50%. Slag is partially vesicular green grey. Strong hydrocarbon/creosote odour).
1.30	J4						
1.50	HSV*						
1.60	B5					(1.60)	Soft to firm brown grey thinly and thickly interbedded SILT and CLAY with occasional sand lenses.
2.00	ES6						
2.50	HSV*			8.64		2.70	
							Complete at 2.70m BGL.

PLAN



GROUNDWATER
Perched water at 1.10m BGL (slight inflow).

STABILITY
Pit sides stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS
(1) Material too friable/sandy for HSV testing.

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

Print Date and Time: 18/06/2020 08:02:19

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP182
Client: South Tees Development Corporation	**Location:** E:454443.617 N:520943.326		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 11.335	**Start Date:** 09/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP182.1
PRAIRIE_AUK_TP182

Figure PRAIRIE_AUK_TP182.2
PRAIRIE_AUK_TP182

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP182
Client: South Tees Development Corporation	**Location:** E:454443.617 N:520943.326		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 11.335	**Start Date:** 09/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP182.3
PRAIRIE_AUK_TP182 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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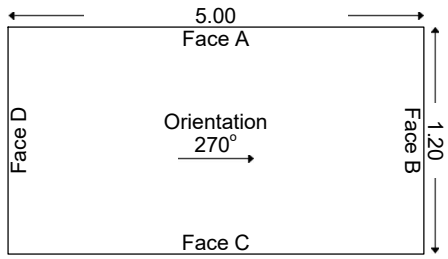
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP183
Client: South Tees Development Corporation	**Location:** E:454449.050 N:521042.255		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.301	**Start Date:** 14/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				13.20		0.10	MADE GROUND (Brown sand with many rootlets. Sand is fine to coarse and includes ash).
0.50	J1					(0.90)	MADE GROUND (Black brown sandy gravel with medium cobble content and fragments of wood. Sand is fine to course. Gravel is fine to coarse subangular and includes brick, slag, ash and clinker. Gravel slag content is 50-75%. Cobbles are angular of slag and red brick. Cobble slag content is 0-25%).
0.80	B2			12.30		1.00	
						(0.60)	MADE GROUND (Concrete with 10-20mm rebar. Pit extended to continue excavation).
				11.70		1.60	
						(2.50)	MADE GROUND (Infilled void: red brown cobbles and boulders with fragments of metal. Cobbles are angular and include yellow and red brick. Boulders are angular and include yellow and red brick).
				9.20		4.10	
							at c.4.10m BGL ... concrete slab. *Terminated at 4.10m BGL - due to concrete slab.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS
(1) Pit extended east by 3.00m to expose a backfilled void beneath concrete between c.1.60-4.10m BGL.

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

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP183
Client: South Tees Development Corporation	**Location:** E:454449.050 N:521042.255		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.301	**Start Date:** 14/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP183.1
PRAIRIE_AUK_TP183

Figure PRAIRIE_AUK_TP183.2
PRAIRIE_AUK_TP183

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP183
Client: South Tees Development Corporation	**Location:** E:454449.050 N:521042.255		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.301	**Start Date:** 14/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP183.3
PRAIRIE_AUK_TP183 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

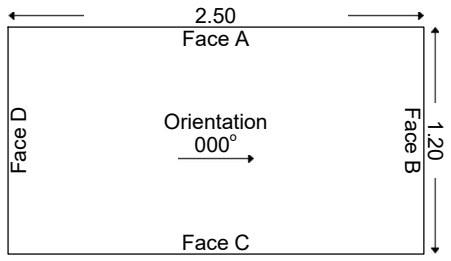
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP184
Client: South Tees Development Corporation	**Location:** E:454469.256 N:520988.871		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.090	**Start Date:** 16/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.20 0.30 0.30 0.80	J1 ES2 PID B3	<0.1ppm		12.69 11.99		(0.40) 0.40 (0.70) 1.10	MADE GROUND (Brown black red sandy gravel with fragments of metal and wood. Sand is fine to coarse. Gravel is fine to coarse subangular and includes ash, clinker and slag. Slag content is 0-25%. Slag is vesicular grey) MADE GROUND (Brown red sandy gravel with high cobble content. Sand is fine to coarse. Gravel is fine to coarse subangular and includes red and yellow brick. Cobbles are angular and include red and yellow brick). at c.1.10m BGL ... concrete with possible old rawl bolt holes (steel erecting points). Engineer notes that when probed the holes indicate a void below concrete to approximately 4.30m BGL. *Terminated at 1.10m BGL - due to concrete obstruction.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

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

GENERAL REMARKS

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

Print Date and Time: 18/06/2020 08:02:34

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TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP184
Client: South Tees Development Corporation	**Location:** E:454469.256 N:520988.871		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.090	**Start Date:** 16/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP184.1
PRAIRIE_AUK_TP184

Figure PRAIRIE_AUK_TP184.2
PRAIRIE_AUK_TP184

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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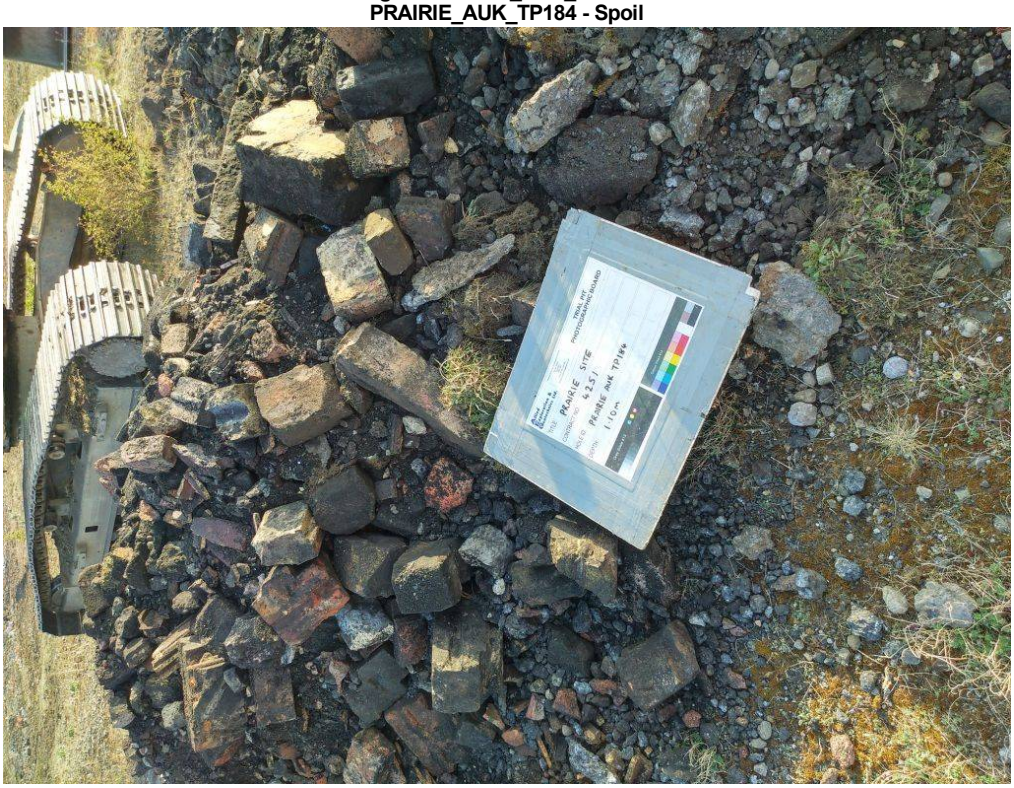
Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP184
Client: South Tees Development Corporation	**Location:** E:454469.256 N:520988.871		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.090	**Start Date:** 16/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP184.3
PRAIRIE_AUK_TP184 - Spoil



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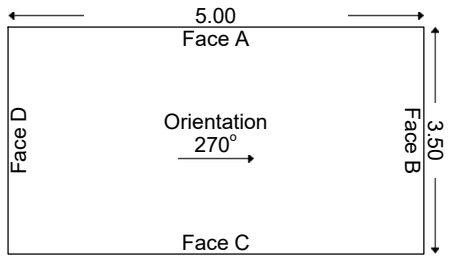
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP185
Client: South Tees Development Corporation	**Location:** E:454481.915 N:520916.920		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.725	**Start Date:** 08/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				12.53		0.20	MADE GROUND (Brown clayey sand with many rootlets. Sand is fine to coarse and includes ash).
						(1.80)	MADE GROUND (Red and yellow cobbles and boulders. Cobbles are angular and include red and yellow brick and coke. Boulders are angular and include red and yellow brick).
				10.73		2.00	
				10.33		(0.40) 2.40	MADE GROUND (Concrete foundation. Engineer notes slab runs north-south adjacent to concrete vertical wall). at c.2.00-2.40m BGL ... pit extended east to uncover edge of foundation (5m long). Foundation broken through to reveal underlying clay stratum.
3.00	J1					(1.60)	MADE GROUND (Soft to firm brown slightly sandy slightly gravelly clay with low cobble content. Sand is fine to coarse. Gravel is fine to coarse subangular and includes red brick and coke. Cobbles are angular and include red brick).
3.50	B2			8.73		4.00	
4.10	J3					(0.50)	Friable interbedded brown SILT and laminated CLAY.
4.20	B4						
4.30	ES5			8.23		4.50	
4.30	PID	<0.1ppm					*Complete at 4.50m BGL.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides unstable between 0.00-2.00m BGL. Stable between 2.00-4.50m BGL.

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

GENERAL REMARKS

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

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP185
Client: South Tees Development Corporation	**Location:** E:454481.915 N:520916.920		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.725	**Start Date:** 08/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP185.1
PRAIRIE_AUK_TP185

Figure PRAIRIE_AUK_TP185.2
PRAIRIE_AUK_TP185

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TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP185
Client: South Tees Development Corporation	**Location:** E:454481.915 N:520916.920		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.725	**Start Date:** 08/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP185.3
PRAIRIE_AUK_TP185 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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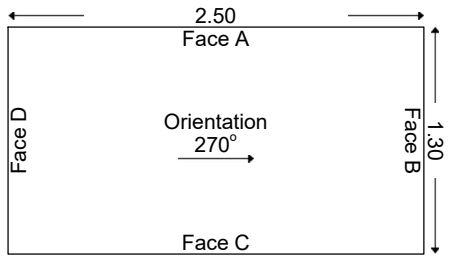
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP186
Client: South Tees Development Corporation	**Location:** E:454477.645 N:520853.859		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.310	**Start Date:** 07/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				12.01		0.30	MADE GROUND (Brown slightly clayey sand with many rootlets. Sand is predominantly ash).
0.35	J1			11.71		0.60	MADE GROUND (Red brown black sandy gravel with fragments of wood and rebar (30mm). Sand is fine to coarse. Gravel is fine to coarse and includes clinker, concrete, red brick and slag. Slag content is 0-25%. Slag is vesicular grey and green).
0.40	B2						
0.50	ES3						
0.50	PID	5.1ppm	≈			(1.20)	MADE GROUND (Grey cobbles and boulders. Cobbles are angular and includes red brick and concrete. Boulders are angular and include concrete with 10-20mm rebar).
1.00	EW4			10.51		1.80	at c.1.80m BGL ... concrete base/slab. *Terminated at 1.80m BGL - due to concrete slab..*

PLAN



GROUNDWATER
Saturated strata at 1.00m BGL (moderate inflow) - water exists in what is thought to be a backfilled basement/cellar.

STABILITY
Pit sides unstable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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

Print Date and Time: 18/06/2020 08:02:48

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP186
Client: South Tees Development Corporation	**Location:** E:454477.645 N:520853.859		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.310	**Start Date:** 07/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP186.1
PRAIRIE_AUK_TP186

Figure PRAIRIE_AUK_TP186.2
PRAIRIE_AUK_TP186

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP186
Client: South Tees Development Corporation	**Location:** E:454477.645 N:520853.859		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.310	**Start Date:** 07/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP186.3
PRAIRIE_AUK_TP186 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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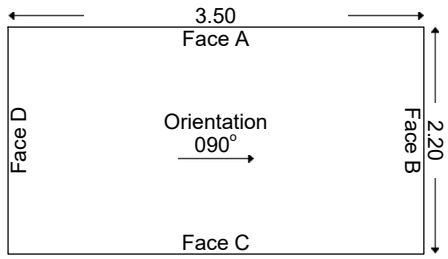
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP187
Client: South Tees Development Corporation	**Location:** E:454559.634 N:520971.721		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 11.120	**Start Date:** 20/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				10.77		0.35	MADE GROUND (Grey sandy gravel. Sand is fine to coarse subangular and includes slag, concrete, ash and coke. Slag content is 25-50%. Slag is vesicular grey).
0.50	J1					(0.45)	
0.50	PID	1.3ppm		10.32		0.80	MADE GROUND (Brown black sandy gravel. Sand is fine to coarse and includes predominantly ash. Gravel is fine to medium subangular to subrounded and includes ash, clinker and coke).
0.60	B2					(0.40)	
0.70	ES3						
1.00	J4			9.92		1.20	MADE GROUND (Soft to firm grey mottled black silty clay).
1.00	PID	0.2ppm					
1.10	B5					(0.60)	Firm laminated brown CLAY with yellow brown fine to coarse sand lenses.
1.30	J6						
1.50	B7			9.32		1.80	
1.80	ES8						*Complete at 1.80m BGL.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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

Print Date and Time: 18/06/2020 08:02:55

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP187
Client: South Tees Development Corporation	**Location:** E:454559.634 N:520971.721		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 11.120	**Start Date:** 20/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP187.1
PRAIRIE_AUK_TP187

Figure PRAIRIE_AUK_TP187.2
PRAIRIE_AUK_TP187

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP187
Client: South Tees Development Corporation	**Location:** E:454559.634 N:520971.721		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 11.120	**Start Date:** 20/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP187.3
PRAIRIE_AUK_TP187 - Spoil

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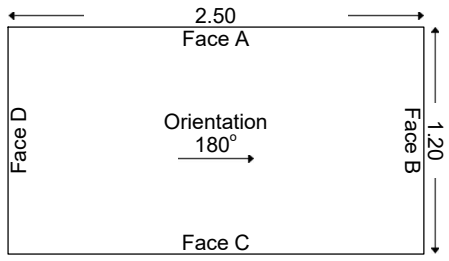
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP188
Client: South Tees Development Corporation	**Location:** E:454468.960 N:520911.169		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.622	**Start Date:** 08/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				12.52		0.10	MADE GROUND (Brown clayey sand with many rootlets. Sand is fine to coarse and includes ash). at c.0.00-2.10m BGL ... eastern pit wall is concrete. Unable to obtain thickness of wall due to instability of pit edges.
0.40	J1						
0.60	B2						
1.00	ES3					(2.00)	MADE GROUND (Brown grey black sandy gravel and cobbles with fragments of wood and metal (girders/RSJ). Sand is fine to coarse. Gravel is fine to coarse and includes clinker, ash, coal, concrete, red brick and slag. Slag content is 0-25%. Slag is vesicular grey).
1.00	PID	1.2ppm					
1.40	J4						
1.60	B5		≈				
				10.52		2.10	at c.2.10m BGL .. concrete obstruction (possible basement). *Complete at 2.10m BGL.*

PLAN



GROUNDWATER
Saturated strata at 1.70m BGL (heavy inflow) - engineer notes water in pit possibly due to groundwater filling up basement/cellar over time.

STABILITY
Pit sides unstable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS
(1) Engineer notes possible backfilled basement. Water in pit exists possibly due to ground water filling up basement/cellar over time.

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

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP188
Client: South Tees Development Corporation	**Location:** E:454468.960 N:520911.169		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.622	**Start Date:** 08/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP188.1
PRAIRIE_AUK_TP188

Figure PRAIRIE_AUK_TP188.2
PRAIRIE_AUK_TP188

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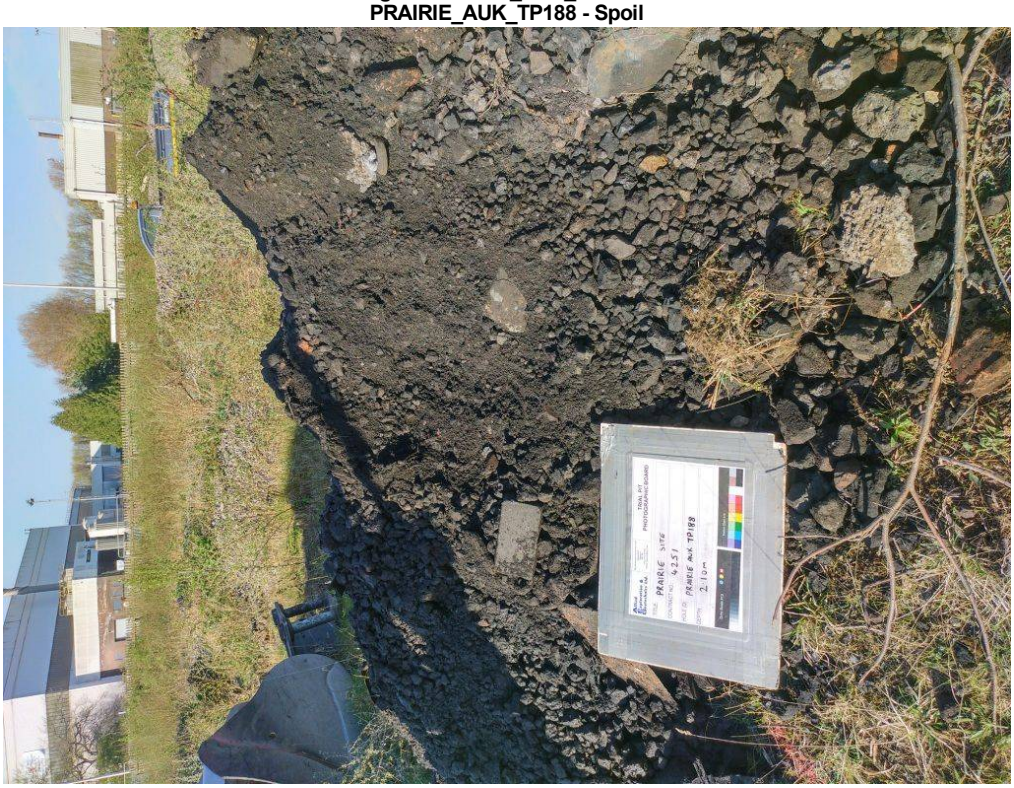
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP188
Client: South Tees Development Corporation	**Location:** E:454468.960 N:520911.169		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.622	**Start Date:** 08/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP188.3
PRAIRIE_AUK_TP188 - Spoil



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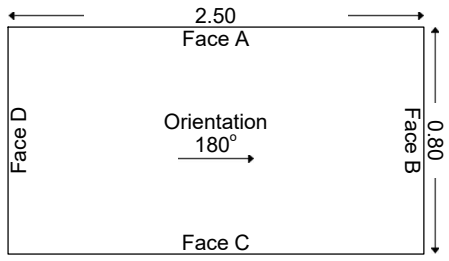
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP189
Client: South Tees Development Corporation	**Location:** E:454508.538 N:520739.484		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.680	**Start Date:** 07/04/2020	**Sheet:** 1 of 2

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				12.58		0.10	MADE GROUND (Brown clayey sand with many rootlets. Sand is fine to coarse and includes ash).
0.30	J1						MADE GROUND (Red brown black sandy gravel with fragments of wood. Sand is fine to coarse. Gravel is fine to medium and includes clinker, ash, coal, concrete, red brick and slag. Slag content is 0-25%. Slag is vesicular grey).
0.50	B2					(1.20)	
				11.38		1.30	
1.40	J3						Soft to firm grey brown mottled silty CLAY/clayey SILT with traces of organic debris.
1.50	HSV	83 (42)kPa					
1.50	B4						
1.60	ES4A						
1.60	PID	<0.1ppm				(1.40)	
2.50	HSV	103 (46)kPa		9.98		2.70	
2.70	J5						Firm to stiff brown red slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is fine to coarse subangular and includes sandstone and mudstone. Engineer notes rare laminae observed).
2.90	B6			9.68		3.00	
3.00	PID	<0.1ppm					*Complete at 3.00m BGL.*
3.00	ES7						

PLAN



GROUNDWATER
Perched water at 1.30m BGL (slight inflow).

STABILITY
Pit sides stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP189
Client: South Tees Development Corporation	**Location:** E:454508.538 N:520739.484		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.680	**Start Date:** 07/04/2020	**Sheet:** 2 of 2

Figure PRAIRIE_AUK_TP189.1
PRAIRIE_AUK_TP189

Figure PRAIRIE_AUK_TP189.2
PRAIRIE_AUK_TP189 - Spoil

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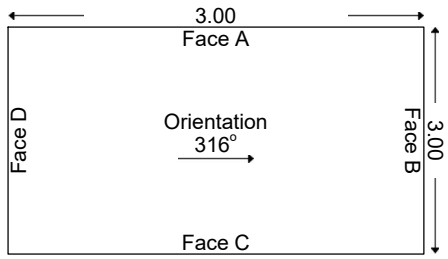
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.**
Client: South Tees Development Corporation	**Location:** E:454378.486 N:521222.806		**PRAIRIE_AUK_TP190**
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.754	**Start Date:** 16/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
			1	6.95		(0.80) 0.80	MADE GROUND (Black gravelly sand with fragments of metal and tile. Sand is fine to coarse. Gravel is fine to coarse subangular and includes red brick, concrete and slag).
				6.75		1.00	MADE GROUND (Yellow sand. Sand is fine to coarse). (Engineer notes possible pipe bedding).
							Terminated at 1.00m BGL - due to possible service.

PLAN



GROUNDWATER
Water strike at 0.80m BGL.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS
(1) No samples taken.
(2) Relocated to PRAIRIE_AUK_TP190A.

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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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP190
Client: South Tees Development Corporation	**Location:** E:454378.486 N:521222.806		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.754	**Start Date:** 16/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP190.1
PRAIRIE_AUK_TP190

Figure PRAIRIE_AUK_TP190.2
PRAIRIE_AUK_TP190

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TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.**
Client: South Tees Development Corporation	**Location:** E:454378.486 N:521222.806		**PRAIRIE_AUK_TP190**
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.754	**Start Date:** 16/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP190.3
PRAIRIE_AUK_TP190 - Spoil

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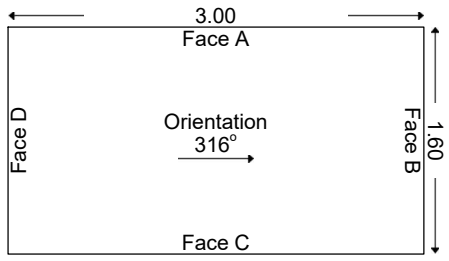
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP190A
Client: South Tees Development Corporation	**Location:** E:454379.638 N:521216.552		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.939	**Start Date:** 16/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1					(1.20)	MADE GROUND (Black clayey sand and gravel with low cobble content and fragments of metal and pipe. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded and includes red brick, concrete, ash and slag. Cobbles are subangular and include red brick and concrete). between c.0.70-1.20m BGL ... brick structure in Face C and D housing cables.
1.00	B2		1	6.74		1.20	
1.10	ES3						
1.10	PID	<0.1ppm					Firm thinly laminated grey brown slightly sandy CLAY with fine yellow brown sand on the laminae.
1.50	J4						
1.50	HSV	51 (20)kPa					
2.00	B5					(1.80)	
2.50	J6						
2.50	HSV	53 (18)kPa					
				4.94		3.00	
							Complete at 3.00m BGL.

PLAN



GROUNDWATER
Water at 1.20m BGL (engineer notes running out of cable duct)

STABILITY
Pit sides and base stable throughout excavation.

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

GENERAL REMARKS
(1) Relocated from PRAIRIE_AUK_TP190.

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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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP190A
Client: South Tees Development Corporation	**Location:** E:454379.638 N:521216.552		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.939	**Start Date:** 16/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP190A.1
PRAIRIE_AUK_TP190A

Figure PRAIRIE_AUK_TP190A.2
PRAIRIE_AUK_TP190A

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TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.**
Client: South Tees Development Corporation	**Location:** E:454379.638 N:521216.552		**PRAIRIE_AUK_TP190A**
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 7.939	**Start Date:** 16/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP190A.3
PRAIRIE_AUK_TP190A - Spoil

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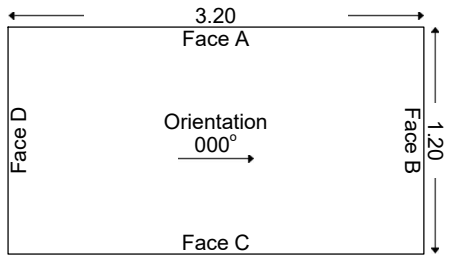
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.**
Client: South Tees Development Corporation	**Location:** E:454367.523 N:521122.414		**PRAIRIE_AUK_TP191**
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.876	**Start Date:** 28/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				8.78		0.10	MADE GROUND (Brown black sand with many rootlets. Sand is fine to coarse and is predominantly ash).
						(0.80)	MADE GROUND (Red brown black sandy gravel with low cobble content. Sand is fine to coarse. Gravel is fine to coarse and includes clinker, ash, coke, concrete, wood, red brick and slag. Gravel slag content is 0-25%. Cobbles are subangular and includes red brick and slag. Cobble slag content is 50-75%. Slag is vesicular grey green. Slight hydrocarbon odour noted).
				7.98		0.90	
				7.68		1.20	Soft becoming firm grey mottled black slightly sandy CLAY. Sand is fine to medium.
						(0.90)	Firm brown grey sandy CLAY with yellow sand lenses. Sand is fine to medium.
				6.78		2.10	*Complete at 2.10m BGL.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

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

GENERAL REMARKS
(1) No samples taken.

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

Print Date and Time: 18/06/2020 08:03:25

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP191
Client: South Tees Development Corporation	**Location:** E:454367.523 N:521122.414		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.876	**Start Date:** 28/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP191.1
PRAIRIE_AUK_TP191

Figure PRAIRIE_AUK_TP191.2
PRAIRIE_AUK_TP191

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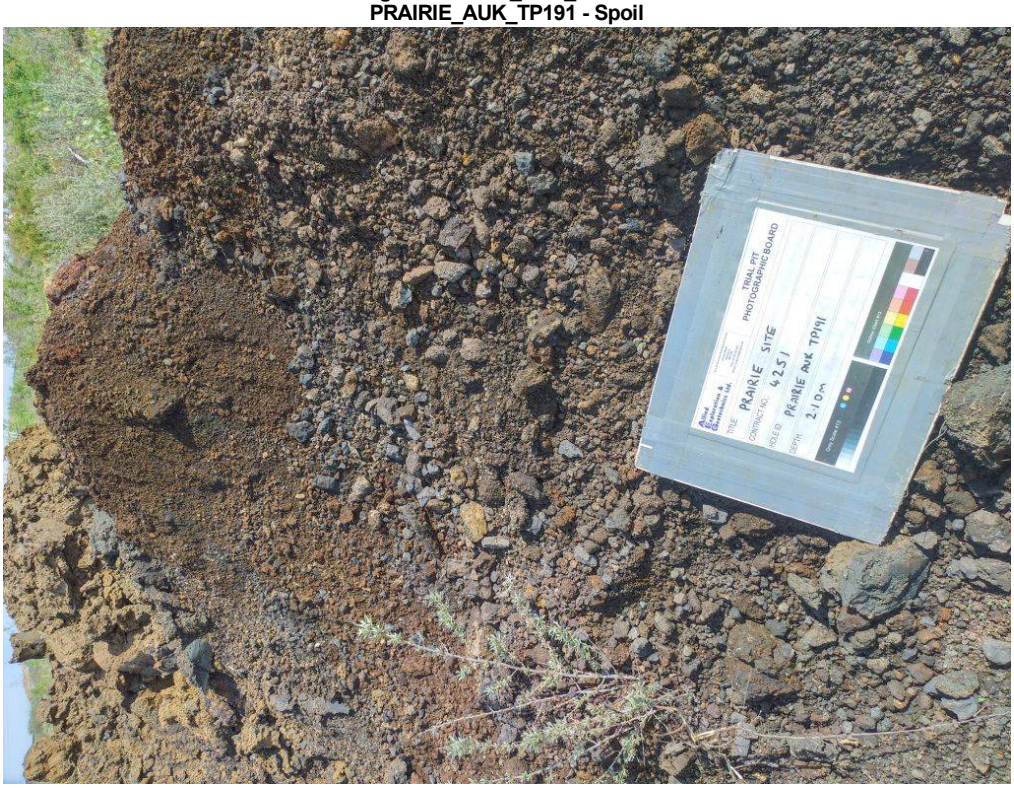
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP191
Client: South Tees Development Corporation	**Location:** E:454367.523 N:521122.414		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 8.876	**Start Date:** 28/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP191.3
PRAIRIE_AUK_TP191 - Spoil



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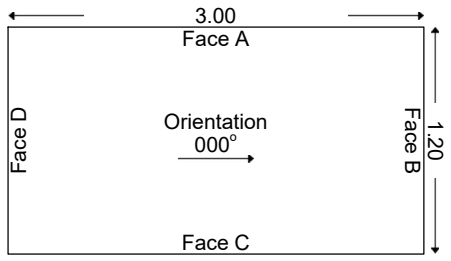
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP192
Client: South Tees Development Corporation	**Location:** E:454373.500 N:521098.322		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.246	**Start Date:** 01/05/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				9.15		0.10	MADE GROUND (Brown black sand with many rootlets. Sand is fine to coarse and predominantly ash).
						(1.00)	MADE GROUND (Red brown black sandy gravel with low cobble content. Sand is fine to coarse. Gravel is fine to coarse and includes clinker, ash, coke, concrete, wood, red brick and slag. Gravel slag content is 0-25%. Cobbles are subangular and includes red brick and slag. Cobble slag content is 50-75%. Slag is vesicular grey green. Slight hydrocarbon odour noted).
			≈	8.15		1.10	
				7.95		1.30	Soft becoming firm grey mottled black slightly sandy CLAY. Sand is fine to medium.
						(0.80)	Firm brown grey CLAY.
				7.15		2.10	
							Complete at 2.10m BGL.

PLAN



GROUNDWATER
Parched water at 1.10m BGL (slight inflow).

STABILITY
Pit sides and base stable throughout excavation.

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

GENERAL REMARKS

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

Print Date and Time: 18/06/2020 08:03:32

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.**
Client: South Tees Development Corporation	**Location:** E:454373.500 N:521098.322		**PRAIRIE_AUK_TP192**
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.246	**Start Date:** 01/05/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP192.1
PRAIRIE_AUK_TP192

Figure PRAIRIE_AUK_TP192.2
PRAIRIE_AUK_TP192

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP192
Client: South Tees Development Corporation	**Location:** E:454373.500 N:521098.322		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 9.246	**Start Date:** 01/05/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP192.3
PRAIRIE_AUK_TP192 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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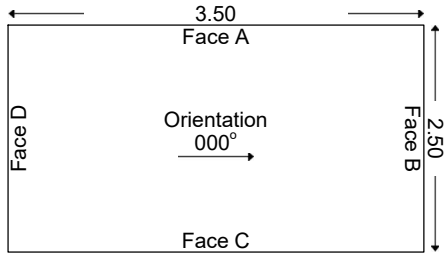
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP193
Client: South Tees Development Corporation	**Location:** E:454417.220 N:521030.278		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.665	**Start Date:** 30/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				10.52		0.15	MADE GROUND (Brown grey very sandy gravel with many rootlets. Sand is fine to coarse. Gravel is fine to coarse subangular and includes slag, sandstone and concrete. Slag content is 25-50%. Slag is vesicular grey).
				10.07		(0.45) 0.60	MADE GROUND (Black brown sandy gravel. Sand is fine to coarse and includes ash. Gravel is fine to coarse subangular and includes slag, concrete and clinker. Slag content is 25-50%. Slag is vesicular grey).
0.80	ES1		≈	9.77		0.90	at c.0.15m BGL ... railway lines 1.50m apart - extended pit west. at c.0.40m BGL ... 10mm grey cable running 000 degrees along side eastern edge of pit.
				9.67		1.00	MADE GROUND (Black sandy gravel and cobbles. Sand is fine to coarse and includes ash. Gravel is fine to coarse angular to subangular and includes clinker, ash concrete and wood. Cobbles are angular and includes slag. Slag content is 75-100%. Slag is vesicular grey and green). Strong creosote/hydrocarbon deposits and odour noted.
							Firm grey green mottled black CLAY.
							Complete at 1.00m BGL.

PLAN



GROUNDWATER
Perched water at 0.80m BGL (slight inflow).

STABILITY
Pit sides and base slightly unstable throughout excavation.

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

GENERAL REMARKS

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

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP193
Client: South Tees Development Corporation	**Location:** E:454417.220 N:521030.278		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.665	**Start Date:** 30/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP193.1
PRAIRIE_AUK_TP193

Figure PRAIRIE_AUK_TP193.2
PRAIRIE_AUK_TP193

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TRIAL PIT RECORD

Status:- PRELIM3

Project:		Exploratory Hole No.
Prairie Site Ground Investigation Works		PRAIRIE_AUK_TP193
Client: South Tees Development Corporation	**Location:** E:454417.220 N:521030.278	
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.665 / **Start Date:** 30/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP193.3
PRAIRIE_AUK_TP193 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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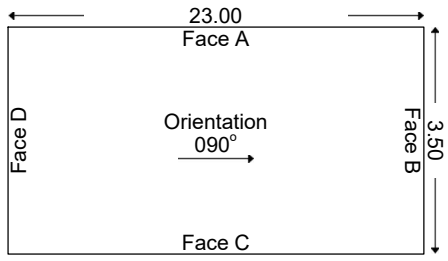
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** **PRAIRIE_AUK_TP193A**
Client: South Tees Development Corporation	**Location:** E:454417.220 N:521030.278		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.665	**Start Date:** 30/04/2020	**Sheet:** 1 of 5

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				10.47		0.20	MADE GROUND (Brown grey sandy gravel with many rootlets. Sand is fine to coarse. Gravel is fine to coarse subangular and includes slag, sandstone and concrete. Slag content is 25-50%. Slag is vesicular grey).
						(4.40)	MADE GROUND (Brown black sandy gravel and cobbles with medium boulder content, steel girders, metal sheets, sections of railway line, and fragments of metal, wood and plastic. Sand is fine to coarse and includes ash. Gravel is fine to coarse subangular and includes red brick, ash, clinker, concrete and slag. Slag content is 25-50%. Slag is vesicular grey. Cobbles are angular and include of red brick and concrete with 10-30mm rebar. Boulders are angular and include concrete).
				6.07		4.60	*Complete at 4.60m BGL.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base unstable throughout excavation.

ADDITIONAL INFORMATION

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

GENERAL REMARKS
(1) Trial pit excavated across slope exposing various subsurface structures - refer to sketch following PRAIRIE_AUK_TP194E.
(2) No samples taken.

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

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP193A
Client: South Tees Development Corporation	**Location:** E:454417.220 N:521030.278		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.665	**Start Date:** 30/04/2020	**Sheet:** 2 of 5

Figure PRAIRIE_AUK_TP193A.1
PRAIRIE_AUK_TP193A

Figure PRAIRIE_AUK_TP193A.2
PRAIRIE_AUK_TP193A

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP193A
Client: South Tees Development Corporation	**Location:** E:454417.220 N:521030.278		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.665	**Start Date:** 30/04/2020	**Sheet:** 3 of 5

Figure PRAIRIE_AUK_TP193A.3
PRAIRIE_AUK_TP193A

Figure PRAIRIE_AUK_TP193A.4
PRAIRIE_AUK_TP193A

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP193A
Client: South Tees Development Corporation	**Location:** E:454417.220 N:521030.278		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.665	**Start Date:** 30/04/2020	**Sheet:** 4 of 5

Figure PRAIRIE_AUK_TP193A.5
PRAIRIE_AUK_TP193A - Spoil

Figure PRAIRIE_AUK_TP193A.6
PRAIRIE_AUK_TP193A - Spoil

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP193A
Client: South Tees Development Corporation	**Location:** E:454417.220 N:521030.278		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.665	**Start Date:** 30/04/2020	**Sheet:** 5 of 5

Figure PRAIRIE_AUK_TP193A.7
PRAIRIE_AUK_TP193A - Spoil

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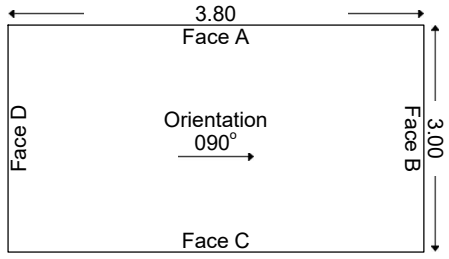
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.**
Client: South Tees Development Corporation	**Location:** E:454444.765 N:520997.809		**PRAIRIE_AUK_TP194A**
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.208	**Start Date:** 29/04/2020	**Sheet:** 1 of 4

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
						(1.40)	MADE GROUND (Brown grey very sandy gravel with medium cobble content. Sand is fine to coarse and includes predominantly ash. Gravel is fine to coarse subangular and includes slag, sandstone, red brick and concrete. Gravel slag content is 25-50%. Cobbles are angular and includes red brick, concrete and slag. Cobbles slag content is 0-25%. Slag is vesicular grey). at c.0.50m BGL ... 300mm diameter cast iron pipe running 000 degrees.
				11.81		1.40	
1.40	ES1		≈	11.61		1.60	MADE GROUND (Brown black sandy gravel with low cobble content. Sand is fine to coarse. Gravel is fine to coarse subangular and includes slag. Cobbles are angular and include slag. Slag content is 75-100%. Slag is vesicular grey. Strong hydrocarbon/creosote odour). at c.1.50m BGL ... broken 150mm diameter clay pipe running 000 degrees.
						(0.60)	
				11.01		2.20	Firm brown grey mottled black CLAY. Hydrocarbon odour noted. (Engineer notes contamination from strata above).
							Complete at 2.20m BGL.

PLAN



GROUNDWATER
Saturated strata at 1.50m BGL (moderate inflow) - caused by broken pipe running north-south.

STABILITY
Pit sides and base moderately stable throughout excavation.

ADDITIONAL INFORMATION

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

GENERAL REMARKS
(1) Trial pit excavated across slope exposing various subsurface structures - refer to sketch following PRAIRIE_AUK_TP194E.

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

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP194A
Client: South Tees Development Corporation	**Location:** E:454444.765 N:520997.809		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.208	**Start Date:** 29/04/2020	**Sheet:** 2 of 4

Figure PRAIRIE_AUK_TP194A.1
PRAIRIE_AUK_TP194

Figure PRAIRIE_AUK_TP194A.2
PRAIRIE_AUK_TP194

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP194A
Client: South Tees Development Corporation	**Location:** E:454444.765 N:520997.809		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.208	**Start Date:** 29/04/2020	**Sheet:** 3 of 4

Figure PRAIRIE_AUK_TP194A.3
PRAIRIE_AUK_TP194

Figure PRAIRIE_AUK_TP194A.4
PRAIRIE_AUK_TP194

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP194A
Client: South Tees Development Corporation	**Location:** E:454444.765 N:520997.809		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.208	**Start Date:** 29/04/2020	**Sheet:** 4 of 4

Figure PRAIRIE_AUK_TP194A.5
PRAIRIE_AUK_TP194 - Spoil

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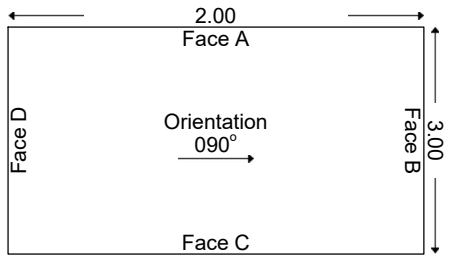
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP194B
Client: South Tees Development Corporation	**Location:** E:454444.765 N:520997.809		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.208	**Start Date:** 29/04/2020	**Sheet:** 1 of 4

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				10.41		(2.80) 2.80	MADE GROUND (Grey sandy gravel and cobbles. Sand is fine to coarse. Gravel is fine to coarse subangular and includes slag. Gravel slag content is 50-75%. Cobbles are angular and include slag. Cobbles slag content is 75-100%. Slag is vesicular grey and green).
							at c.2.80m BGL ... concrete slab (possible foundation) - pit extended. *Terminated at 2.80m BGL - due to concrete obstruction.*

PLAN



GROUNDWATER
Groundwater seepage at 1.80m BGL (heavy inflow).

STABILITY
Pit sides and base moderately stable throughout excavation.

ADDITIONAL INFORMATION

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

GENERAL REMARKS
(1) Trial pit excavated across slope exposing various subsurface structures - refer to sketch following PRAIRIE_AUK_TP194E.

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

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP194B
Client: South Tees Development Corporation	**Location:** E:454444.765 N:520997.809		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.208	**Start Date:** 29/04/2020	**Sheet:** 2 of 4

Figure PRAIRIE_AUK_TP194B.1
PRAIRIE_AUK_TP194

Figure PRAIRIE_AUK_TP194B.2
PRAIRIE_AUK_TP194

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP194B
Client: South Tees Development Corporation	**Location:** E:454444.765 N:520997.809		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.208	**Start Date:** 29/04/2020	**Sheet:** 3 of 4

Figure PRAIRIE_AUK_TP194B.3
PRAIRIE_AUK_TP194

Figure PRAIRIE_AUK_TP194B.4
PRAIRIE_AUK_TP194

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP194B
Client: South Tees Development Corporation	**Location:** E:454444.765 N:520997.809		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.208	**Start Date:** 29/04/2020	**Sheet:** 4 of 4

Figure PRAIRIE_AUK_TP194B.5
PRAIRIE_AUK_TP194 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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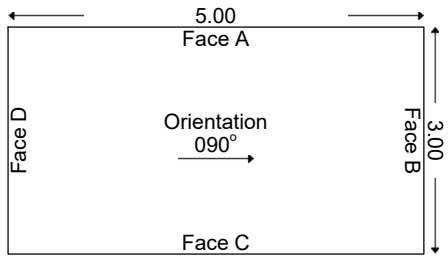
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP194C
Client: South Tees Development Corporation	**Location:** E:454444.765 N:520997.809		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.208	**Start Date:** 29/04/2020	**Sheet:** 1 of 4

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				12.01		(1.20) 1.20	MADE GROUND (Grey gravel and cobbles. Gravel is fine to coarse subangular and includes slag and red brick. Slag content is 25-50%. Cobbles are subangular and include slag, concrete, metal, wood and red and yellow brick. Slag content is 50-75%. Slag is vesicular grey).
							at c.1.20m BGL ... concrete slab (possible foundation) - pit extended. *Terminated at 1.20m BGL - due to concrete obstruction.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base moderately stable throughout excavation.

ADDITIONAL INFORMATION

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

GENERAL REMARKS
(1) Trial pit excavated across slope exposing various subsurface structures - refer to sketch following PRAIRIE_AUK_TP194E.

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

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP194C
Client: South Tees Development Corporation	**Location:** E:454444.765 N:520997.809		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.208	**Start Date:** 29/04/2020	**Sheet:** 2 of 4

Figure PRAIRIE_AUK_TP194C.1
PRAIRIE_AUK_TP194

Figure PRAIRIE_AUK_TP194C.2
PRAIRIE_AUK_TP194

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP194C
Client: South Tees Development Corporation	**Location:** E:454444.765 N:520997.809		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.208	**Start Date:** 29/04/2020	**Sheet:** 3 of 4

Figure PRAIRIE_AUK_TP194C.3
PRAIRIE_AUK_TP194

Figure PRAIRIE_AUK_TP194C.4
PRAIRIE_AUK_TP194

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP194C
Client: South Tees Development Corporation	**Location:** E:454444.765 N:520997.809		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.208	**Start Date:** 29/04/2020	**Sheet:** 4 of 4

Figure PRAIRIE_AUK_TP194C.5
PRAIRIE_AUK_TP194 - Spoil

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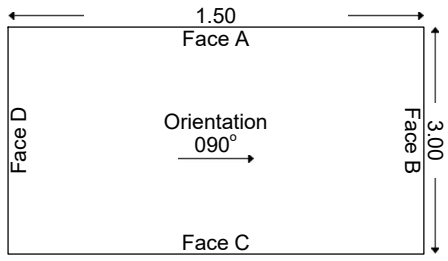
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP194D
Client: South Tees Development Corporation	**Location:** E:454444.765 N:520997.809		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.208	**Start Date:** 29/04/2020	**Sheet:** 1 of 4

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				11.51		(1.70) 1.70	MADE GROUND (Grey gravel and cobbles with fragments of metal and wood. Gravel is fine to coarse subangular and includes slag and red brick. Gravel slag content is 25-50%. Cobbles are subangular and include slag, concrete and red and yellow brick. Cobble slag content is 50-75%. Slag is vesicular grey).
							at c.1.70m BGL ... concrete slab (possible foundation) - pit extended. *Terminated at 1.70m BGL - due to concrete obstruction.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base moderately stable throughout excavation.

ADDITIONAL INFORMATION

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

GENERAL REMARKS
(1) Trial pit excavated across slope exposing various subsurface structures - refer to sketch following PRAIRIE_AUK_TP194E.

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

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP194D
Client: South Tees Development Corporation	**Location:** E:454444.765 N:520997.809		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.208	**Start Date:** 29/04/2020	**Sheet:** 2 of 4

Figure PRAIRIE_AUK_TP194D.1
PRAIRIE_AUK_TP194

Figure PRAIRIE_AUK_TP194D.2
PRAIRIE_AUK_TP194

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP194D
Client: South Tees Development Corporation	**Location:** E:454444.765 N:520997.809		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.208	**Start Date:** 29/04/2020	**Sheet:** 3 of 4

Figure PRAIRIE_AUK_TP194D.3
PRAIRIE_AUK_TP194

Figure PRAIRIE_AUK_TP194D.4
PRAIRIE_AUK_TP194

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP194D
Client: South Tees Development Corporation	**Location:** E:454444.765 N:520997.809		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.208	**Start Date:** 29/04/2020	**Sheet:** 4 of 4

Figure PRAIRIE_AUK_TP194D.5
PRAIRIE_AUK_TP194 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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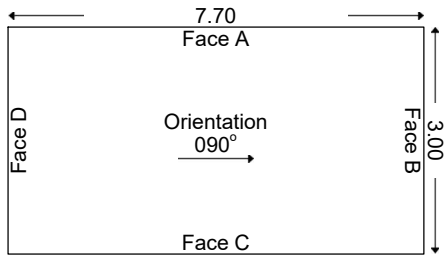
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP194E
Client: South Tees Development Corporation	**Location:** E:454444.765 N:520997.809		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.208	**Start Date:** 29/04/2020	**Sheet:** 1 of 4

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				12.01		(1.20) 1.20	MADE GROUND (Grey gravel and cobbles. Gravel is fine to coarse subangular and includes slag and red brick. Slag content is 25-50%. Cobbles are subangular and include slag, concrete, metal, wood and red and yellow brick. Slag content is 50-75%. Slag is vesicular grey).
							at c.1.20m BGL ... concrete slab. Engineer notes voided beneath to 4.00m BGL. *Terminated at 1.20m BGL - due to concrete obstruction.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base moderately stable throughout excavation.

ADDITIONAL INFORMATION

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

GENERAL REMARKS
(1) Trial pit excavated across slope exposing various subsurface structures - refer to following sketch.

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

Print Date and Time: 18/06/2020 08:04:22

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP194E
Client: South Tees Development Corporation	**Location:** E:454444.765 N:520997.809		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.208	**Start Date:** 29/04/2020	**Sheet:** 2 of 4

Figure PRAIRIE_AUK_TP194E.1
PRAIRIE_AUK_TP194

Figure PRAIRIE_AUK_TP194E.2
PRAIRIE_AUK_TP194

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP194E
Client: South Tees Development Corporation	**Location:** E:454444.765 N:520997.809		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.208	**Start Date:** 29/04/2020	**Sheet:** 3 of 4

Figure PRAIRIE_AUK_TP194E.3
PRAIRIE_AUK_TP194

Figure PRAIRIE_AUK_TP194E.4
PRAIRIE_AUK_TP194

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP194E
Client: South Tees Development Corporation	**Location:** E:454444.765 N:520997.809		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 13.208	**Start Date:** 29/04/2020	**Sheet:** 4 of 4

Figure PRAIRIE_AUK_TP194E.5
PRAIRIE_AUK_TP194 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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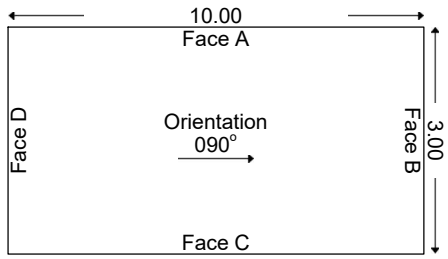
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP195
Client: South Tees Development Corporation	**Location:** E:454479.190 N:520939.302		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.556	**Start Date:** 28/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				12.46		0.10	MADE GROUND (Brown grey very sandy gravel with many rootlets. Sand is fine to coarse and includes ash. Gravel is fine to coarse subangular and includes slag, sandstone and concrete. Slag content is 25-50%. Slag is vesicular grey).
						(0.60)	
				11.86		0.70	MADE GROUND (Brown grey very sandy gravel with high cobble content. Sand is fine to coarse and includes ash. Gravel is fine to coarse subangular and includes slag, concrete and red and yellow brick. Slag content is 0-25%. Cobbles are angular and include red and yellow brick and concrete. Slag is vesicular grey). at c.0.70m BGL ... concrete slab - extend pit east.
						(0.40)	
				11.46		1.10	MADE GROUND (Brown grey very sandy gravel with high cobble content. Sand is fine to coarse and includes ash. Gravel is fine to coarse subangular and includes slag, concrete and red and yellow brick. Slag content is 0-25%. Cobbles are angular and include red and yellow brick and concrete. Slag is vesicular grey). at c.1.10m BGL ... concrete slab - extend pit east.
						(1.00)	
				10.46		2.10	MADE GROUND (Brown grey very sandy gravel with high cobble content. Sand is fine to coarse and includes ash. Gravel is fine to coarse subangular and includes slag, concrete and red and yellow brick. Slag content is 0-25%. Cobbles are angular and include red and yellow brick and concrete. Slag is vesicular grey). at c.2.10m BGL ... concrete slab. *Terminated at 2.10m BGL - due to concrete obstruction.*

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

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

GENERAL REMARKS
(1) Trial pit excavated on slope.

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

Print Date and Time: 18/06/2020 08:04:25

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP195
Client: South Tees Development Corporation	**Location:** E:454479.190 N:520939.302		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.556	**Start Date:** 28/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP195.1
PRAIRIE_AUK_TP195

Figure PRAIRIE_AUK_TP195.2
PRAIRIE_AUK_TP195

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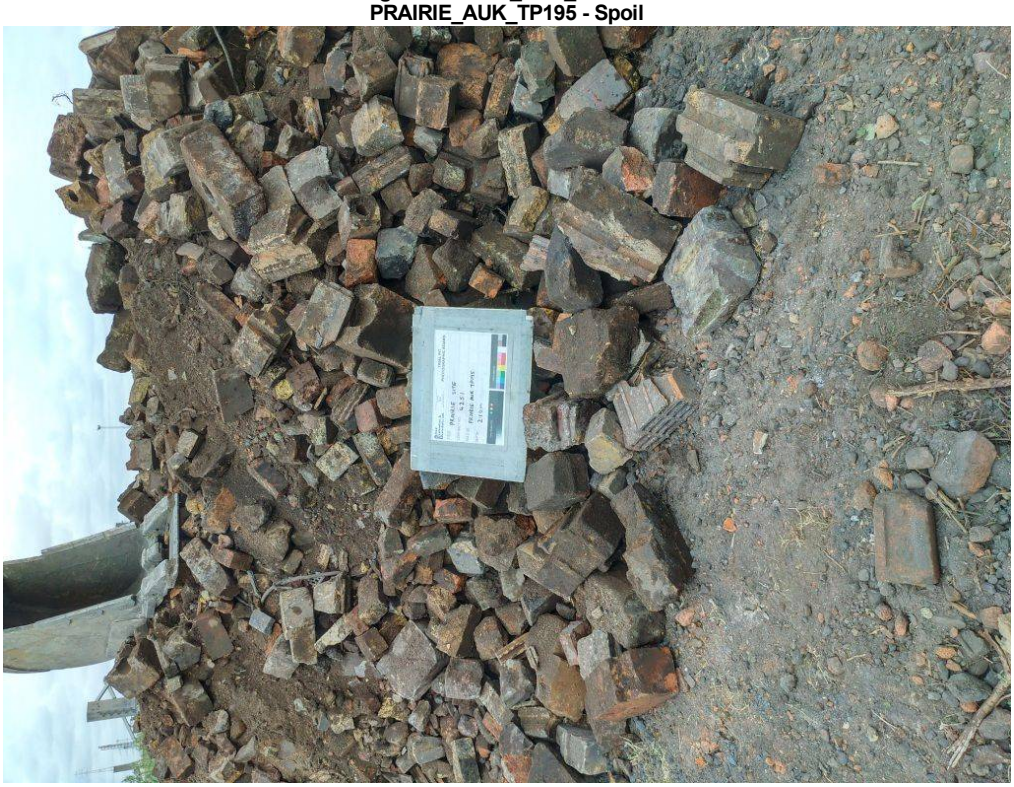
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP195
Client: South Tees Development Corporation	**Location:** E:454479.190 N:520939.302		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.556	**Start Date:** 28/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP195.3
PRAIRIE_AUK_TP195

Figure PRAIRIE_AUK_TP195.4
PRAIRIE_AUK_TP195 - Spoil



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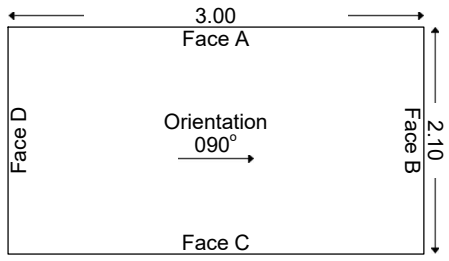
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP196A
Client: South Tees Development Corporation	**Location:** E:454436.008 N:520967.820		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 11.190	**Start Date:** 29/04/2020	**Sheet:** 1 of 4

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				9.79		(1.40) 1.40	MADE GROUND (Brown grey very sandy gravel with medium cobble content. Sand is fine to coarse and includes predominantly ash. Gravel is fine to coarse subangular and includes slag, sandstone, brick and concrete. Slag content is 25-50%. Cobbles are angular and include red brick, concrete and slag. Slag content 0-25%. Slag is vesicular grey). at c.0.50m BGL ... 300mm cast iron pipe running 000 degrees.
1.40	ES1			9.59		1.60	MADE GROUND (Brown grey sandy gravel with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse subangular and includes slag. Gravel slag content is 75-100%. Cobbles are angular and include slag. Cobble slag content 75-100%. Slag is vesicular grey/grey green).
				9.19		(0.40) 2.00	Firm brown grey mottled black CLAY. Hydrocarbon contamination from strata above.
							Terminated at 2.00m BGL - due to concrete obstruction.

PLAN



GROUNDWATER
No groundwater encountered.

STABILITY
Pit sides and base moderately stable throughout excavation.

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

GENERAL REMARKS
(1) Trial pit excavated on slope.

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

Print Date and Time: 18/06/2020 08:04:34

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP196A
Client: South Tees Development Corporation	**Location:** E:454436.008 N:520967.820		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 11.190	**Start Date:** 29/04/2020	**Sheet:** 2 of 4

Figure PRAIRIE_AUK_TP196A.1
PRAIRIE_AUK_TP196

Figure PRAIRIE_AUK_TP196A.2
PRAIRIE_AUK_TP196

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP196A
Client: South Tees Development Corporation	**Location:** E:454436.008 N:520967.820		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 11.190	**Start Date:** 29/04/2020	**Sheet:** 3 of 4

Figure PRAIRIE_AUK_TP196A.3
PRAIRIE_AUK_TP196

Figure PRAIRIE_AUK_TP196A.4
PRAIRIE_AUK_TP196 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP196A
Client: South Tees Development Corporation	**Location:** E:454436.008 N:520967.820		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 11.190	**Start Date:** 29/04/2020	**Sheet:** 4 of 4

Figure PRAIRIE_AUK_TP196A.5
PRAIRIE_AUK_TP196 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

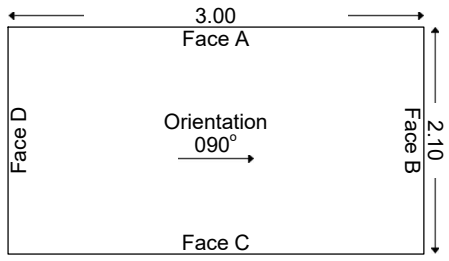
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP196B
Client: South Tees Development Corporation	**Location:** E:454436.008 N:520967.820		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 11.190	**Start Date:** 29/04/2020	**Sheet:** 1 of 4

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				9.99		(1.20) 1.20	MADE GROUND (Grey sandy gravel and cobbles. Sand is fine to coarse. Gravel is fine to coarse subangular and includes slag. Gravel slag content 50-75%. Cobbles are angular and include slag. Cobble slag content is 75-100%. Slag is vesicular).
			≈	8.29		(1.70) 2.90	MADE GROUND (Grey gravel and cobbles with low to medium boulder content. Gravel is fine to coarse subangular and includes slag. Gravel slag content is 25-50%. Cobbles are subangular and include slag, concrete and metal. Cobble slag content is 50-75%. Boulders are subangular and include concrete, metal and wood. Slag is vesicular).
							Terminated at 2.90m BGL - due to concrete obstruction.

PLAN



GROUNDWATER
Saturated strata at 1.80m BGL (heavy inflow).

STABILITY
Pit sides and base moderately stable throughout excavation.

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

GENERAL REMARKS
(1) Trial pit excavated on slope.

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

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP196B
Client: South Tees Development Corporation	**Location:** E:454436.008 N:520967.820		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 11.190	**Start Date:** 29/04/2020	**Sheet:** 2 of 4

Figure PRAIRIE_AUK_TP196B.1
PRAIRIE_AUK_TP196

Figure PRAIRIE_AUK_TP196B.2
PRAIRIE_AUK_TP196

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP196B
Client: South Tees Development Corporation	**Location:** E:454436.008 N:520967.820		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 11.190	**Start Date:** 29/04/2020	**Sheet:** 3 of 4

Figure PRAIRIE_AUK_TP196B.3
PRAIRIE_AUK_TP196

Figure PRAIRIE_AUK_TP196B.4
PRAIRIE_AUK_TP196 - Spoil

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP196B
Client: South Tees Development Corporation	**Location:** E:454436.008 N:520967.820		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 11.190	**Start Date:** 29/04/2020	**Sheet:** 4 of 4

Figure PRAIRIE_AUK_TP196B.5
PRAIRIE_AUK_TP196 - Spoil

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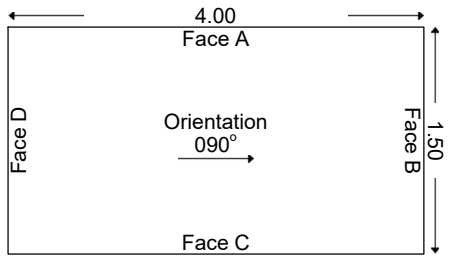
TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP197
Client: South Tees Development Corporation	**Location:** E: N:		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):**	**Start Date:** 29/04/2020	**Sheet:** 1 of 4

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
						(1.80) 1.80	MADE GROUND (Brown grey very sandy gravel with medium cobble content. Sand is fine to coarse and includes ash. Gravel is fine to coarse subangular and include slag, sandstone, red brick and concrete. Gravel slag content is 25-50%. Cobbles are angular and include red brick, concrete and slag. Cobble slag content is 0-25%. Slag is vesicular grey).
			≈			(1.00) 2.80	MADE GROUND (Brown grey very gravel and cobbles with low boulder content and metal (girders). Sand is fine to coarse and includes ash. Gravel is fine to coarse subangular and includes slag, sandstone, red brick and concrete. Gravel slag content is 25-50%. Cobbles are angular and include red brick, concrete, slag, wood and metal. Cobble slag content is 0-25%. Boulders are angular and include concrete. Slag is vesicular grey).
							Terminated at 2.80m BGL - due to concrete obstruction.

PLAN



GROUNDWATER
Perched water at 1.80m BGL (heavy inflow).

STABILITY
Pit sides and base moderately stable throughout excavation.

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

GENERAL REMARKS
(1) Trial pit excavated on slope.
(2) No samples taken.
(3) Trial pit excavated across slope exposing various subsurface structures - refer to following sketch.

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

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP197
Client: South Tees Development Corporation	**Location:** E: N:		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):**	**Start Date:** 29/04/2020	**Sheet:** 2 of 4

Figure PRAIRIE_AUK_TP197.1
PRAIRIE_AUK_TP197

Figure PRAIRIE_AUK_TP197.2
PRAIRIE_AUK_TP197

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP197
Client: South Tees Development Corporation	**Location:** E: N:		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):**	**Start Date:** 29/04/2020	**Sheet:** 3 of 4

Figure PRAIRIE_AUK_TP197.3
PRAIRIE_AUK_TP197

Figure PRAIRIE_AUK_TP197.4
PRAIRIE_AUK_TP197

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP197
Client: South Tees Development Corporation	**Location:** E: N:		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):**	**Start Date:** 29/04/2020	**Sheet:** 4 of 4

Figure PRAIRIE_AUK_TP197.5
PRAIRIE_AUK_TP197 - Spoil

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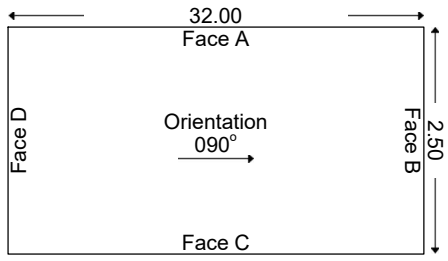
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP198
Client: South Tees Development Corporation	**Location:** E:454458.796 N:520990.155		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.937	**Start Date:** 27/04/2020	**Sheet:** 1 of 6

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				12.74		0.20	MADE GROUND (Brown grey very sandy gravel with many rootlets. Sand is fine to coarse. Gravel is fine to coarse subangular and includes slag, sandstone and concrete. Slag content is 25-50%. Slag is vesicular grey).
						(1.00)	
				11.74		1.20	MADE GROUND (Red brown black sandy gravel with high cobble and low boulder content and metal and wood. Sand is fine to coarse. Gravel is fine to coarse angular to subangular and includes clinker, ash, concrete, red brick and slag. Slag content is 0-25%. Cobbles are angular and include red and yellow brick and concrete (rebar 10-20mm). Boulders are angular and include red and yellow brick sections and concrete (rebar 10-20mm). Slag is vesicular grey green).
						(1.40)	
				10.34		2.60	MADE GROUND (Red brown black sandy gravel with high cobble content and fragments of wood. Sand is fine to coarse. Gravel is fine to coarse angular to subangular and includes clinker, ash, coal, concrete and red brick. Cobbles are angular and include red and yellow brick, metal, wood and concrete). at c.1.20m BGL ... concrete, extend pit east. at c.2.60m BGL ... concrete, extend pit east.
							Terminated at 2.60m BGL - due to concrete obstruction.

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base moderately stable throughout excavation.

ADDITIONAL INFORMATION

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

GENERAL REMARKS
(1) Trial pit excavated across slope exposing various subsurface structures - refer to following sketch.
(2) At 2.60m BGL - pit extended north from western end. Same ground conditions encountered to 1.60m BGL.

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

Print Date and Time: 18/06/2020 08:04:59

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP198
Client: South Tees Development Corporation	**Location:** E:454458.796 N:520990.155		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.937	**Start Date:** 27/04/2020	**Sheet:** 2 of 6

Figure PRAIRIE_AUK_TP198.1
PRAIRIE_AUK_TP198

Figure PRAIRIE_AUK_TP198.2
PRAIRIE_AUK_TP198

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TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP198
Client: South Tees Development Corporation	**Location:** E:454458.796 N:520990.155		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.937	**Start Date:** 27/04/2020	**Sheet:** 3 of 6

Figure PRAIRIE_AUK_TP198.3
PRAIRIE_AUK_TP198

Figure PRAIRIE_AUK_TP198.4
PRAIRIE_AUK_TP198

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP198
Client: South Tees Development Corporation	**Location:** E:454458.796 N:520990.155		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.937	**Start Date:** 27/04/2020	**Sheet:** 4 of 6

Figure PRAIRIE_AUK_TP198.5
PRAIRIE_AUK_TP198

Figure PRAIRIE_AUK_TP198.6
PRAIRIE_AUK_TP198

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP198
Client: South Tees Development Corporation	**Location:** E:454458.796 N:520990.155		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.937	**Start Date:** 27/04/2020	**Sheet:** 5 of 6

Figure PRAIRIE_AUK_TP198.7
PRAIRIE_AUK_TP198

Figure PRAIRIE_AUK_TP198.8
PRAIRIE_AUK_TP198

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP198
Client: South Tees Development Corporation	**Location:** E:454458.796 N:520990.155		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 12.937	**Start Date:** 27/04/2020	**Sheet:** 6 of 6

Figure PRAIRIE_AUK_TP198.9
PRAIRIE_AUK_TP198 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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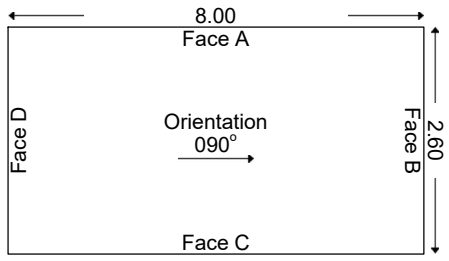
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP199
Client: South Tees Development Corporation	**Location:** E: N:		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):**	**Start Date:** 27/04/2020	**Sheet:** 1 of 4

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
						0.20	MADE GROUND (Brown grey very sandy gravel. Sand is fine to coarse. Gravel is fine to coarse subangular and includes slag, sandstone and concrete with many rootlets. Slag content is 25-50%. Slag is vesicular grey).
						(2.80)	MADE GROUND (Red brown black sandy gravel with high cobble and low boulder content and fragments of wood and metal. Sand is fine to coarse. Gravel is fine to coarse angular to subangular and includes clinker, ash, coal, concrete, wood, red brick and slag. Slag content is 0-25%. Cobbles are angular and includes red and yellow brick and concrete (rebar 10-50mm). Boulders are angular and include red and yellow brick sections and concrete (rebar 10-30mm). Slag is vesicular grey green).
						3.00	
						(0.80)	MADE GROUND (Concrete and red brick floor).
						3.80	
						(1.20)	MADE GROUND (Red brown black sandy gravel with high cobble content and fragments/sections of metal and wood. Sand is fine to coarse. Gravel is fine to coarse angular to subangular and includes clinker, ash, coal, concrete and red brick. Cobbles are angular and include red and yellow brick and concrete).
						5.00	
						5.20	Firm to stiff red brown grey slightly sandy CLAY. Sand is fine to medium.
							Complete at 5.20m BGL.

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base moderately stable throughout excavation.

ADDITIONAL INFORMATION

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

GENERAL REMARKS
(1) Various subsurface structures exposed during excavation - refer to following sketch.
(2) No samples taken.

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

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP199
Client: South Tees Development Corporation	**Location:** E: N:		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):**	**Start Date:** 27/04/2020	**Sheet:** 2 of 4

Figure PRAIRIE_AUK_TP199.1
PRAIRIE_AUK_TP199

Figure PRAIRIE_AUK_TP199.2
PRAIRIE_AUK_TP199

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP199
Client: South Tees Development Corporation	**Location:** E: N:		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):**	**Start Date:** 27/04/2020	**Sheet:** 3 of 4

Figure PRAIRIE_AUK_TP199.3
PRAIRIE_AUK_TP199

Figure PRAIRIE_AUK_TP199.4
PRAIRIE_AUK_TP199 - Spoil

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP199
Client: South Tees Development Corporation	**Location:** E: N:		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):**	**Start Date:** 27/04/2020	**Sheet:** 4 of 4

Figure PRAIRIE_AUK_TP199.5
PRAIRIE_AUK_TP199 - Spoil

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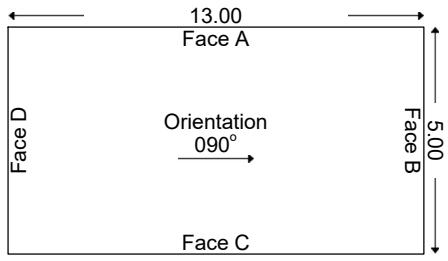
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP200A
Client: South Tees Development Corporation	**Location:** E:454446.479 N:521086.026		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.527	**Start Date:** 28/04/2020	**Sheet:** 1 of 5

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				10.33		0.20	MADE GROUND (Brown grey very sandy gravel with medium cobble content with many rootlets. Sand is fine to coarse and includes ash. Gravel is fine to coarse subangular and includes slag, sandstone and concrete. Slag content is 25-50%. Cobbles are angular and include red brick. Slag is vesicular grey).
						(0.80)	
				9.53		1.00	MADE GROUND (Brown grey very sandy gravel with medium cobble content. Sand is fine to coarse and includes ash. Gravel is fine to coarse subangular and includes slag, concrete and red and yellow brick. Slag content is 25-50%. Cobbles are angular and include red and yellow brick and concrete. Slag is vesicular grey). at c.0.20m BGL ... concrete encountered - extended pit west.
						(1.50)	
				8.03		2.50	MADE GROUND (Black grey sandy gravel. Sand is fine to coarse and includes ash. Gravel is fine to coarse subangular and includes ash, clinker, coke and red brick). at c.2.00m BGL ... concrete in western end of pit - pit extended.
				7.73		2.80	Firm brown grey yellow sandy CLAY. Sand is fine to medium.
							Complete at 2.80m BGL.

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION

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

GENERAL REMARKS
(1) Trial pit extended west on slope.
(2) Structures exposed when extending pit west which were backfilled with material the same as between 0.20-1.00m BGL but with medium boulder content (concrete). Structures bottomed out at 3.50m BGL.
(3) Various structures exposed during excavation - refer to sketch following PRAIRIE_AUK_TP200B.
(4) No samples taken.

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

Print Date and Time: 18/06/2020 08:05:29

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP200A
Client: South Tees Development Corporation	**Location:** E:454446.479 N:521086.026		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.527	**Start Date:** 28/04/2020	**Sheet:** 2 of 5

Figure PRAIRIE_AUK_TP200A.1
PRAIRIE_AUK_TP200

Figure PRAIRIE_AUK_TP200A.2
PRAIRIE_AUK_TP200

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP200A
Client: South Tees Development Corporation	**Location:** E:454446.479 N:521086.026		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.527	**Start Date:** 28/04/2020	**Sheet:** 3 of 5

Figure PRAIRIE_AUK_TP200A.3
PRAIRIE_AUK_TP200

Figure PRAIRIE_AUK_TP200A.4
PRAIRIE_AUK_TP200

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP200A
Client: South Tees Development Corporation	**Location:** E:454446.479 N:521086.026		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.527	**Start Date:** 28/04/2020	**Sheet:** 4 of 5

Figure PRAIRIE_AUK_TP200A.5
PRAIRIE_AUK_TP200

Figure PRAIRIE_AUK_TP200A.6
PRAIRIE_AUK_TP200

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP200A
Client: South Tees Development Corporation	**Location:** E:454446.479 N:521086.026		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.527	**Start Date:** 28/04/2020	**Sheet:** 5 of 5

Figure PRAIRIE_AUK_TP200A.7
PRAIRIE_AUK_TP200 - Spoil

Figure PRAIRIE_AUK_TP200A.8
PRAIRIE_AUK_TP200 - Spoil

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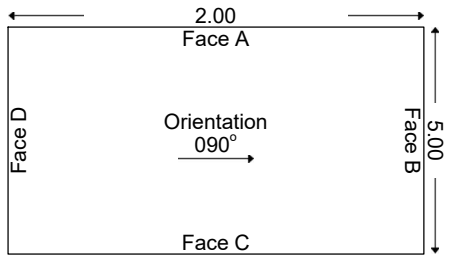
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP200B
Client: South Tees Development Corporation	**Location:** E:454446.479 N:521086.026		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.527	**Start Date:** 28/04/2020	**Sheet:** 1 of 5

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				10.33		0.20	MADE GROUND (Brown grey very sandy gravel with medium cobble content with many rootlets. Sand is fine to coarse and includes ash. Gravel is fine to coarse subangular and includes slag, sandstone and concrete. Slag content is 25-50%. Cobbles are angular and include red brick. Slag is vesicular grey).
						(3.30)	MADE GROUND (Brown grey very sandy gravel with medium cobble and boulder content. Sand is fine to coarse and includes ash. Gravel is fine to coarse subangular and includes slag, concrete and red and yellow brick. Slag content is 25-50%. Cobbles are angular and include red and yellow brick and concrete. Boulders are angular and include concrete. Slag is vesicular grey).
			1	7.03		3.50	
							Complete at 3.50m BGL.

PLAN



GROUNDWATER
Perched water at 3.50m BGL (slight inflow).

STABILITY
Pit sides and base stable throughout excavation.

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

GENERAL REMARKS

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

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP200B
Client: South Tees Development Corporation	**Location:** E:454446.479 N:521086.026		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.527	**Start Date:** 28/04/2020	**Sheet:** 2 of 5

Figure PRAIRIE_AUK_TP200B.1
PRAIRIE_AUK_TP200

Figure PRAIRIE_AUK_TP200B.2
PRAIRIE_AUK_TP200

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP200B
Client: South Tees Development Corporation	**Location:** E:454446.479 N:521086.026		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.527	**Start Date:** 28/04/2020	**Sheet:** 3 of 5

Figure PRAIRIE_AUK_TP200B.3
PRAIRIE_AUK_TP200

Figure PRAIRIE_AUK_TP200B.4
PRAIRIE_AUK_TP200

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP200B
Client: South Tees Development Corporation	**Location:** E:454446.479 N:521086.026		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.527	**Start Date:** 28/04/2020	**Sheet:** 4 of 5

Figure PRAIRIE_AUK_TP200B.5
PRAIRIE_AUK_TP200

Figure PRAIRIE_AUK_TP200B.6
PRAIRIE_AUK_TP200

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP200B
Client: South Tees Development Corporation	**Location:** E:454446.479 N:521086.026		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 10.527	**Start Date:** 28/04/2020	**Sheet:** 5 of 5

Figure PRAIRIE_AUK_TP200B.7
PRAIRIE_AUK_TP200 - Spoil

Figure PRAIRIE_AUK_TP200B.8
PRAIRIE_AUK_TP200 - Spoil

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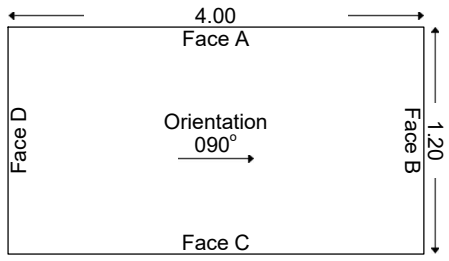
TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP201
Client: South Tees Development Corporation	**Location:** E:454512.591 N:520927.507		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 15.534	**Start Date:** 28/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
				15.33		0.20	MADE GROUND (Brown grey very sandy gravel with many rootlets. Sand is fine to coarse and includes ash. Gravel is fine to coarse subangular slag, sandstone and concrete. Slag content is 25-50%. Slag is vesicular grey).
						(1.20)	MADE GROUND (Brown black grey compacted ash/clinker. Recovered as a sandy gravel. Sand is fine to coarse and predominantly ash. Gravel is fine to coarse subangular and includes ash and clinker).
				14.13		1.40	
						(1.60)	MADE GROUND (Brown grey yellow very sandy gravel with high cobble content. Sand is fine to coarse and includes ash. Gravel is fine to coarse subangular and includes slag, concrete, sandstone and red and yellow brick. Slag content is 0-25%. Cobbles are angular and include red and yellow brick and concrete. Slag is vesicular grey).
				12.53		3.00	
3.60	ES1					(1.40)	MADE GROUND (Yellow grey very clayey sandy gravel with high cobble content. Sand is fine to coarse and is predominantly ash. Gravel is fine to coarse subangular and includes ash, clinker, coke, red brick and sandstone. Cobbles are angular and include sandstone and concrete. Engineer notes strata is mixed slightly (in-situ) with strata above due to gradient of slope).
				11.13		4.40	
							Complete at 4.40m BGL.

PLAN



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

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

GENERAL REMARKS

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

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TRIAL PIT RECORD

Status:- **PRELIM3**

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP201
Client: South Tees Development Corporation	**Location:** E:454512.591 N:520927.507		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 15.534	**Start Date:** 28/04/2020	**Sheet:** 2 of 3

Figure PRAIRIE_AUK_TP201.1
PRAIRIE_AUK_TP201

Figure PRAIRIE_AUK_TP201.2
PRAIRIE_AUK_TP201

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TRIAL PIT RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_TP201
Client: South Tees Development Corporation	**Location:** E:454512.591 N:520927.507		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	**Ground Level (m):** 15.534	**Start Date:** 28/04/2020	**Sheet:** 3 of 3

Figure PRAIRIE_AUK_TP201.3
PRAIRIE_AUK_TP201

Figure PRAIRIE_AUK_TP201.4
PRAIRIE_AUK_TP201 - Spoil

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BOREHOLE RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_BH101
Client: South Tees Development Corporation	**Location:** E:454312.599 N:521393.254		
Method (Equipment): Cable Percussion (Dando 2000)	**Ground Level (m):** 8.644	**Start Date:** 27/04/2020	**Sheet:** 1 of 3

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		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).	
				6.74		(1.50) 1.90	MADE GROUND (Red brown sandy gravel with medium cobble content and fragments of metal. Gravel is fine to coarse subangular and includes brick, concrete, slag and refractory brick).	
			1	5.64		(1.10) 3.00	Firm yellow brown mottled grey sandy CLAY. (Possible Made Ground).	
3.00	ES1						Soft to firm thinly laminated brown slightly sandy slightly gravelly CLAY with fine yellow brown sand on the laminae.	
3.00-3.45	U2	(45)						
3.00		0.2ppm						
3.45	J3							
4.00-4.45	B5							
4.00-4.45	SJ4	N13						
4.50	J6							
5.00-5.45	U7	(60)						
5.45	J8							
6.00-6.45	B10							
6.00-6.45	SJ9	N17				(7.60)		
7.50	J11							

Boring Progress and Water Observations				
Date	Depth	Casing	Casing Dia (mm)	Water Standing
27/04/2020	0.00	0.00	200	

Chiselling		Water Added
From - To	Duration (hh:mm)	From - To

General Remarks

(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 and 1No. 50mm diameter slotted standpipe installed to 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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BOREHOLE RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_BH101
Client: South Tees Development Corporation	**Location:** E:454312.599 N:521393.254		
Method (Equipment): Cable Percussion (Dando 2000)	**Ground Level (m):** 8.644	**Start Date:** 27/04/2020	**Sheet:** 2 of 3

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description	
8.00-8.45	U12	(65)					Soft to firm thinly laminated brown slightly sandy slightly gravelly CLAY with fine yellow brown sand on the laminae. *(continued)*	
8.45	J13							
9.00	J14							
9.50-9.95	B16							
9.50-9.95	SJ15	N18						
10.50	J17			-1.96		10.60		
11.00-11.45	U18	(100)					Firm to stiff red brown slightly sandy gravelly CLAY. Gravel is fine to coarse subangular and includes sandstone, mudstone, siltstone and coal.	
11.45	J19					(1.70)		
12.00	J20			-3.66		12.30		
12.50-12.95	B22						Stiff to very stiff brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded and includes sandstone, mudstone and siltstone.	
12.50-12.95	SJ21	100/285mm						
13.50	J23					(2.50)		
14.00-14.45	B25							
14.00-14.45	SJ24	100/285mm						
				-6.16		14.80		
15.00	J26						Firm dark brown very sandy slightly gravelly CLAY. Gravel is fine to coarse subangular and includes sandstone, mudstone and siltstone.	
15.50-15.95	B28					(1.40)		
15.50-15.95	SJ27	100/245mm						

Boring Progress and Water Observations				
Date	Depth	Casing	Casing Dia (mm)	Water Standing
27/04/2020	10.50	10.03	200	Dry
28/04/2020	10.50	10.03	200	9.82

Chiselling		Water Added
From - To	Duration (hh:mm)	From - To

General Remarks

(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 and 1No. 50mm diameter slotted standpipe installed to 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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BOREHOLE RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_BH101
Client: South Tees Development Corporation	**Location:** E:454312.599 N:521393.254		
Method (Equipment): Cable Percussion (Dando 2000)	**Ground Level (m):** 8.644	**Start Date:** 27/04/2020	**Sheet:** 3 of 3

SAMPLES & TESTS			Water	STRATA				
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description	Instrument/ Backfill
				-7.56		16.20		
16.50	J29					(1.50)	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	B31							
17.00-17.45	SJ30	N55						
				-9.06		17.70		
18.00	J32					(0.70)	Weak red brown MUDSTONE with gypsum interbeds.	
18.00	B34							
18.00	SJ33	100/25mm		-9.76		18.40		
18.40	SJ35	100/20mm					*Complete at 18.40m BGL.*	

Boring Progress and Water Observations				
Date	Depth	Casing	Casing Dia (mm)	Water Standing
28/04/2020	17.50	16.80	200	12.06
29/04/2020	17.50	16.80	200	10.47
29/04/2020	18.40	18.20	200	11.02

Chiselling		Water Added
From - To	Duration (hh:mm)	From - To
16.20 - 17.00	3:30	
17.70 - 18.00	1:00	

General Remarks

(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 and 1No. 50mm diameter slotted standpipe installed to 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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BOREHOLE RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_BH102
Client: South Tees Development Corporation	**Location:** E:454597.680 N:521503.836		
Method (Equipment): Cable Percussion (Dando 2000)	**Ground Level (m):** 8.213	**Start Date:** 09/04/2020	**Sheet:** 1 of 1

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description	
				7.31		(0.90) 0.90	MADE GROUND (Brown slightly gravelly sand. Sand is fine to coarse. Gravel is fine to coarse subangular and includes brick and slag).	
						(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).	
6.00-7.00	B1							
7.00-8.00	B2						at c.7.00-8.00m BGL ... driller notes 'large crushed metal'.	
				0.21		8.00		

Complete at 8.00m BGL.

Boring Progress and Water Observations				
Date	Depth	Casing	Casing Dia (mm)	Water Standing
09/04/2020	0.00	0.00	200	
09/04/2020	6.00	6.00	200	1.00
14/04/2020	6.00	6.00	200	1.06
14/04/2020	8.00	7.20	200	0.96

Chiselling		Water Added
From - To	Duration (hh:mm)	From - To
6.00 - 8.00	6:00	

General Remarks

(1) Description derived from drillers daily report.
(2) Advanced through trial pit PRAIRIE_AUK_TP121. Descriptions between 0.00-4.50m BGL derived from PRAIRIE_AUK_TP121.
(3) 50mm diameter slotted standpipe installed to 7.20m BGL.
(4) Borehole collapsed back from 8.00-7.20m BGL.

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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BOREHOLE RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_BH103
Client: South Tees Development Corporation	**Location:** E:454800.537 N:521660.804		
Method (Equipment): Cable Percussion (Dando 2000)	**Ground Level (m):** 7.683	**Start Date:** 07/04/2020	**Sheet:** 1 of 2

SAMPLES & TESTS			Water	STRATA				
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description	Instrument/ Backfill
				7.58		0.10	MADE GROUND (Brown sandy gravelly topsoil. Sand is fine to coarse. Gravel is fine to coarse subangular and includes concrete, brick and roadstone).	
						(1.50)	MADE GROUND (Firm yellow brown mottled grey slightly sandy gravelly clay with low cobble content. Fragments of wood. Gravel is fine to coarse subangular to subrounded and includes brick and sandstone. Cobbles are subangular and include brick).	
				6.08		1.60		
						(0.50)	MADE GROUND (Black gravelly sand with low cobble content. Sand is fine to coarse. Gravel is fine to coarse subangular and includes ash, macadam, coke and slag. Slag content is <50%. Slag is iron rich in places (rust). Cobbles are subangular and include fused coke).	
				5.58		2.10		
						(0.70)	(1) Firm grey brown slightly sandy ALLUVIUM.	
2.50	ES1							
2.50	U2	(30)						
2.50	PID	<0.1ppm		4.88		2.80		
2.95	J3						Firm laminated grey dark brown sandy silty CLAY with occasional sand lenses. Sand is fine to medium.	
3.50	J4							
3.50-3.95	B6							
3.50-3.95	SJ5	N20						
4.50	J7							
4.50-4.95	U8	(25)						
4.95	J9							
						(5.50)		
5.50	J10							
5.50-5.95	B12							
5.50-5.95	SJ11	N21						
6.50	J13							
7.00-7.45	U14	(25)						
7.00-7.50	B16							
7.45	J15							

Boring Progress and Water Observations				
Date	Depth	Casing	Casing Dia (mm)	Water Standing
08/04/2020	0.00	0.00	200	

Chiselling		Water Added
From - To	Duration (hh:mm)	From - To

General Remarks

(1) Description derived from drillers daily report.
(2) Advanced through trial pit PRAIRIE_AUK_TP107. Descriptions between 0.00-2.50m BGL derived from PRAIRIE_AUK_TP107.
(3) 50mm diameter slotted standpipe installed between 3.00-8.50m BGL.

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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BOREHOLE RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_BH103
Client: South Tees Development Corporation	**Location:** E:454800.537 N:521660.804		
Method (Equipment): Cable Percussion (Dando 2000)	**Ground Level (m):** 7.683	**Start Date:** 07/04/2020	**Sheet:** 2 of 2

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description	
8.00	J17			-0.62		8.30		
8.50-8.95	B19						Firm to stiff brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to medium subrounded and includes sandstone, mudstone and limestone.	
8.50-8.95	SJ18	N37						
9.50	J20					(2.40)		
10.00-10.45	U21	(75)						
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	B25							
11.50-11.95	SJ24	N80				(2.00)		
12.50	J26			-5.02		12.70		
13.00-13.45	B28						Extremely weak thinly laminated red sandy MUDSTONE residual.	
13.00	SJ27	100/200mm				(1.10)		
13.50	J29							
13.50	SJ30	100/130mm		-6.12		13.80		
							Complete at 13.80m BGL.	

Boring Progress and Water Observations				
Date	Depth	Casing	Casing Dia (mm)	Water Standing
08/04/2020	11.00	10.80	200	Dry
09/04/2020	11.00	10.80	200	Dry
09/04/2020	13.80	10.80	200	Dry

Chiselling		Water Added
From - To	Duration (hh:mm)	From - To
13.20 - 13.50	1:00	

General Remarks

(1) Description derived from drillers daily report.
(2) Advanced through trial pit PRAIRIE_AUK_TP107. Descriptions between 0.00-2.50m BGL derived from PRAIRIE_AUK_TP107.
(3) 50mm diameter slotted standpipe installed between 3.00-8.50m BGL.

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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BOREHOLE RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_BH104
Client: South Tees Development Corporation	**Location:** E:455006.172 N:521693.493		
Method (Equipment): Percussion/Rotary (Dando 2000/Boart Longyear DB540)	**Ground Level (m):** 8.696	**Start Date:** 03/04/2020	**Sheet:** 1 of 2

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description	
				8.65		0.05	MADE GROUND (Brown sandy topsoil. Sand is fine to coarse).	
						(0.55)	MADE GROUND (Strong grey concrete).	
				8.10		0.60		
						(0.90)	MADE GROUND (Grey brown sandy gravel with low cobble content. Gravel is fine to coarse subangular to subrounded and includes slag and concrete. Slag content is <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 brick. Cobbles are subangular and include brick and slag).	
				4.50		4.20		
				4.30		4.40	MADE GROUND (Firm grey brown slightly sandy slightly gravelly clay with some partially decomposed plant remains. Gravel is fine to coarse subangular and include slag and brick. Organic odour noted).	
						(1.10)	(1) Stiff red brown slightly sandy slightly gravelly CLAY.	
				3.20		5.50		
5.50	ES1						Firm to stiff brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subrounded and includes sandstone, mudstone, coal and limestone.	
5.50-5.95	U2	(100)						
5.50	PID	0.2ppm						
5.95	J3							
6.50	J4							
7.00-7.45	B6							
7.00-7.45	SJ5	N32						

Boring Progress and Water Observations				
Date	Depth	Casing	Casing Dia (mm)	Water Standing
03/04/2020	0.00	0.00	200	

Chiselling		Water Added
From - To	Duration (hh:mm)	From - To

General Remarks

(1) Description derived from drillers daily report.
(2) Advanced through trial pit PRAIRIE_AUK_TP105. Descriptions between 0.00-5.50m BGL derived from PRAIRIE_AUK_TP105.
(3) 50mm diameter slotted standpipe installed between 14.50-18.50m BGL.

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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BOREHOLE RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_BH104
Client: South Tees Development Corporation	**Location:** E:455006.172 N:521693.493		
Method (Equipment): Percussion/Rotary (Dando 2000/Boart Longyear DB540)	**Ground Level (m):** 8.696	**Start Date:** 03/04/2020	**Sheet:** 2 of 2

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description	
8.00	J7					(5.40)	Firm to stiff brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subrounded and includes sandstone, mudstone, coal and limestone. *(continued)*	
8.50-8.95	U8	(100)						
8.95	J9							
9.50	J10							
10.00-10.45	B12							
10.00-10.45	SJ11	N36		-2.20		10.90		
11.00	J13						Extremely weak thinly laminated sandy red brown MUDSTONE residual.	
11.00-11.50	B14							
11.50	U*15	(100)						
12.00-12.45	B17							
12.00-12.45	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.	

Boring Progress and Water Observations				
Date	Depth	Casing	Casing Dia (mm)	Water Standing
03/04/2020	13.00	12.30	200	Dry
06/04/2020	13.00	12.30	200	Dry
06/04/2020	13.50	12.80	200	Dry

Chiselling		Water Added
From - To	Duration (hh:mm)	From - To
11.70 - 12.00	0:00	

General Remarks

(1) Description derived from drillers daily report.
(2) Advanced through trial pit PRAIRIE_AUK_TP105. Descriptions between 0.00-5.50m BGL derived from PRAIRIE_AUK_TP105.
(3) 50mm diameter slotted standpipe installed between 14.50-18.50m BGL.

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:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_BH104
Client: South Tees Development Corporation	**Location:** E:455006.172 N:521693.493		
Method (Equipment): Percussion/Rotary (Dando 2000/Boart Longyear DB540)	**Ground Level (m):** 8.696	**Start Date:** 03/04/2020	**Sheet:** 1 of 3

RUN DETAILS			Water	STRATA				
Depth & (Core Ø)	TCR (SCR) RQD	Fracture Index		Reduced Level	Legend	Depth (Thickness)	Description: Discontinuity Detail	Description: Main	Instrument/ Backfill
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.	
(92mm)		7					13.90-14.50m ... subhorizontal (5-30 degrees) medium spaced undulating rough open clean and infilled (sand and gravel) discontinuities.		
14.50						(2.00)			
(92mm)	100 (45) 15	NI					14.50-15.15m ... non-intact.		
		8					15.15-15.50m ... subhorizontal (5-30 degrees) medium spaced undulating rough moderately open clean discontinuities.		
15.50				-6.80		15.50			
(92mm)	67 (0) 0	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).	
17.00						(3.00)			
(92mm)	0 (0) 0	NR					17.00-17.50m ... no recovery.		
17.50									

Drilling Progress and Water Observations			
Date	Depth	Casing	Water Standing
07/04/2020	13.50	12.80	Dry

Standard Penetration Test		
Depth	Type	Result

Flush		
From - To	Type	Returns (%)
13.50 - 14.50	Water	100
14.50 - 15.50	Water	100
15.50 - 17.00	Water	100
17.00 - 17.50	Water	100
17.50 - 18.50	Water	100

General Remarks

(1) Description derived from drillers daily report.
(2) Advanced through trial pit PRAIRIE_AUK_TP105. Descriptions between 0.00-5.50m BGL derived from PRAIRIE_AUK_TP105.
(3) 50mm diameter slotted standpipe installed between 14.50-18.50m BGL.

All dimensions in metres Scale 1:25	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:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_BH104
Client: South Tees Development Corporation	**Location:** E:455006.172 N:521693.493		
Method (Equipment): Percussion/Rotary (Dando 2000/Boart Longyear DB540)	**Ground Level (m):** 8.696	**Start Date:** 03/04/2020	**Sheet:** 2 of 3

RUN DETAILS				STRATA					
Depth & (Core Ø)	TCR (SCR) RQD	Fracture Index	Water	Reduced Level	Legend	Depth (Thickness)	Description: Discontinuity Detail	Description: Main	Instrument/ Backfill
(92mm)	100 (0) 0	NI		-9.80		18.50	17.50-18.50m ... 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). *(continued)*	
								Complete at 18.50m BGL.	

Drilling Progress and Water Observations			
Date	Depth	Casing	Water Standing
07/04/2020	18.50	13.50	7.23

Standard Penetration Test		
Depth	Type	Result

Flush		
From - To	Type	Returns (%)

General Remarks

(1) Description derived from drillers daily report.
(2) Advanced through trial pit PRAIRIE_AUK_TP105. Descriptions between 0.00-5.50m BGL derived from PRAIRIE_AUK_TP105.
(3) 50mm diameter slotted standpipe installed between 14.50-18.50m BGL.

All dimensions in metres Scale 1:25	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:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_BH104
Client: South Tees Development Corporation	**Location:** E:455006.172 N:521693.493		
Method (Equipment): Percussion/Rotary (Dando 2000/Boart Longyear DB540)	**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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BOREHOLE RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_BH105
Client: South Tees Development Corporation	**Location:** E:454599.377 N:521402.034		
Method (Equipment): Cable Percussion (Dando 2000)	**Ground Level (m):** 8.257	**Start Date:** 16/04/2020	**Sheet:** 1 of 2

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description	
				8.16		0.10	MADE GROUND (Brown sandy topsoil).	
						(1.00)	MADE GROUND (Black brown sand and 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 includes brick, concrete and slag. Cobbles are subangular and include brick	
				7.16		1.10		
						(0.50)	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 and ash. Cobbles are subangular and include coal and slag).	
				6.66		1.60		
						(0.90)	Firm light orange brown sandy CLAY.	
				5.76		2.50		
			1			(0.50)	Firm to stiff grey brown slightly sandy CLAY.	
				5.26		3.00		
3.00	ES1						Firm laminated grey brown sandy silty CLAY.	
3.00	U2	(80)						
3.00	PID	<0.1ppm						
3.45	J3							
4.00-4.45	B5							
4.00-4.45	SJ4	N13	2					
						(3.70)		
5.00-5.45	U6	(80)						
5.45	J7							
6.00	J8							
6.50-6.95	SJ9	N19						
6.50-6.95	B10			1.56		6.70		
							Firm to stiff red brown slightly sandy gravelly CLAY. Gravel is fine to coarse subrounded and includes sandstone, mudstone, coal and limestone.	
7.50	J11					(1.90)		

Boring Progress and Water Observations				
Date	Depth	Casing	Casing Dia (mm)	Water Standing
16/04/2020	0.00	0.00	200	

Chiselling		Water Added
From - To	Duration (hh:mm)	From - To

General Remarks

(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).

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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BOREHOLE RECORD

Status:- PRELIM3

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

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description	
8.00-8.45	U12	(90)					Firm to stiff red brown slightly sandy gravelly CLAY. Gravel is fine to coarse subrounded and includes sandstone, mudstone, coal and limestone. *(continued)*	
8.45	J13		▼2	-0.34		8.60		
9.00	J14						Very dense grey brown slightly clayey very sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded and includes sandstone, mudstone and limestone.	
9.00-9.50	B15							
9.50	SJ16	100/185mm						
9.50-9.95	B17					(2.40)		
10.50	J18			-2.74		11.00		
11.00	SJ19	100/70mm					Extremely weak dark red MUDSTONE residual with some gypsum interbeds. (Recovered as gravelly sand).	
11.00-11.20	B20							
11.20	SJ21	100/55mm				(1.00)		
				-3.74		12.00		
							Complete at 12.00m BGL.	

Boring Progress and Water Observations				
Date	Depth	Casing	Casing Dia (mm)	Water Standing
16/04/2020	11.00	10.80	200	5.09
17/04/2020	11.00	10.80	200	7.36
17/04/2020	11.40	11.00	200	7.89
20/04/2020	11.40	11.00	200	7.82
20/04/2020	12.00	11.80	200	7.92

Chiselling		Water Added
From - To	Duration (hh:mm)	From - To
11.00 - 11.20	1:00	

General Remarks

(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).

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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BOREHOLE RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_BH106
Client: South Tees Development Corporation	**Location:** E:454999.256 N:521391.908		
Method (Equipment): Cable Percussion (Dando 2000)	**Ground Level (m):** 8.711	**Start Date:** 06/04/2020	**Sheet:** 1 of 2

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

Boring Progress and Water Observations				
Date	Depth	Casing	Casing Dia (mm)	Water Standing
06/04/2020	0.00	0.00	200	

Chiselling		Water Added
From - To	Duration (hh:mm)	From - To

General Remarks

(1) Description derived from drillers daily report.
(2) Advanced through trial pit PRAIRIE_AUK_TP131. Descriptions between 0.00-4.50m BGL derived from PRAIRIE_AUK_TP131.
(3) 50mm diameter slotted standpipe installed to 4.00-10.00m BGL.

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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BOREHOLE RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_BH106
Client: South Tees Development Corporation	**Location:** E:454999.256 N:521391.908		
Method (Equipment): Cable Percussion (Dando 2000)	**Ground Level (m):** 8.711	**Start Date:** 06/04/2020	**Sheet:** 2 of 2

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description	
8.00	J7						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. *(continued)*	
8.50-8.95	U8	(100)		-0.19		8.90		
8.95	J9						Extremely weak thinly to thickly laminated dark grey slightly sandy MUDSTONE residual.	
9.50	J10					(1.90)		
10.00-10.45	B12							
10.00-10.45	SJ11	N52						
10.50	J13						at c.10.50-10.80m BGL ... blue light grey in colour.	
10.50		100/40mm		-2.09		10.80		
							Complete at 10.80m BGL.	

Boring Progress and Water Observations				
Date	Depth	Casing	Casing Dia (mm)	Water Standing
06/04/2020	10.80	10.30	200	Dry

Chiselling		Water Added
From - To	Duration (hh:mm)	From - To
10.20 - 10.50	1:00	

General Remarks

(1) Description derived from drillers daily report.
(2) Advanced through trial pit PRAIRIE_AUK_TP131. Descriptions between 0.00-4.50m BGL derived from PRAIRIE_AUK_TP131.
(3) 50mm diameter slotted standpipe installed to 4.00-10.00m BGL.

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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BOREHOLE RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_BH107
Client: South Tees Development Corporation	**Location:** E:454402.534 N:521065.535		
Method (Equipment): Cable Percussion (Dando 2000)	**Ground Level (m):** 10.158	**Start Date:** 24/04/2020	**Sheet:** 1 of 2

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description	
				10.06		0.10	MADE GROUND (Brown clayey sand with many rootlets. Sand is fine to coarse and includes ash).	
						(0.70)	MADE GROUND (Brown 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%).	
				9.36		0.80		
						(0.90)	MADE GROUND (Grey cobbles and boulders. Cobbles are subangular and includes slag. Boulders are subangular and includes slag. Slag is vesicular).	
				8.46		1.70		
						(1.30)	Firm becoming stiff brown red grey CLAY with occasional sand lenses and interlaminated silt and clay laminae.	
				7.16		3.00		
3.00	ES1						Firm to stiff fissured brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium subangular and includes sandstone.	
3.00-3.45	U2	(60)						
3.00	PID	0.1ppm						
3.45	J3							
4.00-4.45	B5							
4.00-4.45	SJ4	N17						
4.50	J6							
5.00-5.45	U7	(65)				(4.10)		
5.45	J8							
6.00	J9							
6.50-6.95	SJ10	N17						
6.50-6.95	B11							
				3.06		7.10		
							Firm to stiff red brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular and includes sandstone, mudstone and siltstone.	
7.50	J12							
7.50-8.00	B13					(1.60)		

Boring Progress and Water Observations				
Date	Depth	Casing	Casing Dia (mm)	Water Standing
24/04/2020	0.00	0.00	200	

Chiselling		Water Added
From - To	Duration (hh:mm)	From - To

General Remarks

(1) Description derived from drillers daily report.
(2) Advanced through trial pit PRAIRIE_AUK_TP181. Descriptions between 0.00-3.00m BGL derived from PRAIRIE_AUK_TP181.
(3) 50mm diameter slotted standpipe installed to 4.00-8.00m BGL.

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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BOREHOLE RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_BH107
Client: South Tees Development Corporation	**Location:** E:454402.534 N:521065.535		
Method (Equipment): Cable Percussion (Dando 2000)	**Ground Level (m):** 10.158	**Start Date:** 24/04/2020	**Sheet:** 2 of 2

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description	
8.00-8.45	U14	(100)					Firm to stiff red brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular and includes sandstone, mudstone and siltstone. *(continued)*	
8.45	J15			1.46		8.70		
							Very weak red brown MUDSTONE with bands of white gypsum.	
9.00-9.45	SJ16	100/40mm				(0.80)		
9.00-9.45	B17			0.66		9.50		
							Complete at 9.50m BGL.	

Boring Progress and Water Observations

Date	Depth	Casing	Casing Dia (mm)	Water Standing
24/04/2020	9.50	8.80	200	Dry

Chiselling

From - To	Duration (hh:mm)
8.70 - 9.00	1:00

Water Added

From - To

General Remarks

(1) Description derived from drillers daily report.
(2) Advanced through trial pit PRAIRIE_AUK_TP181. Descriptions between 0.00-3.00m BGL derived from PRAIRIE_AUK_TP181.
(3) 50mm diameter slotted standpipe installed to 4.00-8.00m BGL.

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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BOREHOLE RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_BH108
Client: South Tees Development Corporation	**Location:** E:454619.192 N:521200.662		
Method (Equipment): Percussion/Rotary (Dando 2000/Comacchio Geo 305)	**Ground Level (m):** 8.863	**Start Date:** 15/04/2020	**Sheet:** 1 of 2

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description	
				8.26		(0.60) 0.60	MADE GROUND (Black gravelly fine to coarse sand. Gravel is fine to coarse subangular and includes ash, macadam, concrete).	
				8.06		0.80	MADE GROUND (Concrete/slag).	
				6.36		(1.70) 2.50	Firm orange brown mottled grey slightly sandy CLAY.	
2.50 2.50-2.95 2.50 2.95 3.50-3.95 3.50-3.95 4.00 4.50-4.95	ES1 U2 PID J3 SJ4 B5 J6 U7	 (75) <0.1ppm N13 (90)		4.06		(2.30) 4.80	Firm laminated red dark brown sandy silty CLAY. Sand is fine to medium.	
4.95 5.00 5.50-5.95 5.50-5.95	J8 J9 B11 SJ10	 N49		3.06		(1.00) 5.80	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.	
6.50 7.00-7.45 7.00-7.45	J12 SJ13 B14	 N76		1.16		(1.90) 7.70	Stiff to very stiff dark brown slightly sandy gravelly CLAY. Gravel is fine to coarse subangular and includes sandstone, mudstone and limestone.	

Boring Progress and Water Observations				
Date	Depth	Casing	Casing Dia (mm)	Water Standing
15/04/2020	0.00	0.00	200	

Chiselling		Water Added
From - To	Duration (hh:mm)	From - To

General Remarks

(1) Description derived from drillers daily report.
(2) Advanced through trial pit PRAIRIE_AUK_TP156A. Descriptions between 0.00-4.50m BGL derived from PRAIRIE_AUK_TP156A.
(3) 1No. 19mm diameter piezometer standpipe and 1No. 50mm diameter slotted standpipe installed to 6.00m and 10.00-14.00m BGL respectively.

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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BOREHOLE RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_BH108
Client: South Tees Development Corporation	**Location:** E:454619.192 N:521200.662		
Method (Equipment): Percussion/Rotary (Dando 2000/Comacchio Geo 305)	**Ground Level (m):** 8.863	**Start Date:** 15/04/2020	**Sheet:** 2 of 2

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description	
8.00	J15						Extremely weak thinly laminated grey MUDSTONE destructured with many interlaminations of extremely weak gypsum. (Recovered as clayey slightly sandy gravel). *(continued)*	
8.50-8.95	SJ16	100/55mm				(1.80)		
8.50-8.95	B17							
9.00	SJ18	100/40mm						
9.00-9.45	B19							
				-0.64		9.50		
							Boring complete at 9.50m BGL - continued by rotary drilling.	

Boring Progress and Water Observations				
Date	Depth	Casing	Casing Dia (mm)	Water Standing
15/04/2020	9.50	8.80	200	Dry

Chiselling		Water Added
From - To	Duration (hh:mm)	From - To
8.70 - 9.00	1:00	

General Remarks

(1) Description derived from drillers daily report.
(2) Advanced through trial pit PRAIRIE_AUK_TP156A. Descriptions between 0.00-4.50m BGL derived from PRAIRIE_AUK_TP156A.
(3) 1No. 19mm diameter piezometer standpipe and 1No. 50mm diameter slotted standpipe installed to 6.00m and 10.00-14.00m BGL respectively.

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:- PRELIM3

Project: Prairie Site Ground Investigation Works		**Exploratory Hole No.** PRAIRIE_AUK_BH108
Client: South Tees Development Corporation	**Location:** E:454619.192 N:521200.662	
Method (Equipment): Percussion/Rotary (Dando 2000/Comacchio Geo 305)	**Ground Level (m):** 8.863 / **Start Date:** 15/04/2020	**Sheet:** 1 of 3

RUN DETAILS				STRATA					
Depth & (Core Ø)	TCR (SCR) RQD	Fracture Index	Water	Reduced Level	Legend	Depth (Thickness)	Description: Discontinuity Detail	Description: Main	Instrument/ Backfill
9.50	0 (0) 0	NR		-0.64		9.50	9.50-11.00m ... no recovery.	(1) Red MUDSTONE. (Driller describes as 'very weak' and broken down).	
(92mm) 10.00									
	0 (0) 0					(1.50)			
(92mm) 10.50									
	0 (0) 0								
(92mm) 11.00				-2.14		11.00			
	80 (35) 18	NI					11.00-11.45m ... non-intact.	Extremely weak red brown MUDSTONE residual. (Recovered as sandy clay).	
						(0.45)			
				-2.59		11.45			
(92mm)		12					11.45-11.80m ... horizontal to subhorizontal (0-10 degrees) closely to very closely spaced undulating rough stained (brown) discontinuities.	Medium strong to strong red brown MUDSTONE partially weathered to unweathered with many interbeds of gypsum.	
		NR					11.80-12.00m ... no recovery.		
12.00									
	100 (55) 44	12					12.00-12.30m ... horizontal to subhorizontal (0-10 degrees) closely to very closely spaced undulating rough stained (brown) discontinuities.		
		NI					12.30-12.86m ... non-intact.		
(92mm)						(2.15)			
		12					12.86-13.60m ... horizontal to subhorizontal (0-10 degrees) closely to very closely spaced undulating rough stained (brown) discontinuities.		
13.00									
	52 (52) 52								

Drilling Progress and Water Observations

Date	Depth	Casing	Water Standing
04/05/2020	9.50	9.00	Dry

Standard Penetration Test

Depth	Type	Result

Flush

From - To	Type	Returns (%)
9.50 - 10.00	W	50
10.00 - 10.50	W	50
10.50 - 11.00	W	50
11.00 - 12.00	W	50
12.00 - 13.00	W	50
13.00 - 14.00	W	100

General Remarks

(1) Description derived from drillers daily report.
(2) Advanced through trial pit PRAIRIE_AUK_TP156A. Descriptions between 0.00-4.50m BGL derived from PRAIRIE_AUK_TP156A.
(3) 1No. 19mm diameter piezometer standpipe and 1No. 50mm diameter slotted standpipe installed to 6.00m and 10.00-14.00m BGL respectively.

All dimensions in metres Scale 1:25	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:- PRELIM3

Project: Prairie Site Ground Investigation Works		**Exploratory Hole No.** PRAIRIE_AUK_BH108
Client: South Tees Development Corporation	**Location:** E:454619.192 N:521200.662	
Method (Equipment): Percussion/Rotary (Dando 2000/Comacchio Geo 305)	**Ground Level (m):** 8.863 / **Start Date:** 15/04/2020	**Sheet:** 2 of 3

RUN DETAILS				STRATA					
Depth & (Core Ø)	TCR (SCR) RQD	Fracture Index	Water	Reduced Level	Legend	Depth (Thickness)	Description: Discontinuity Detail	Description: Main	Instrument/ Backfill
(92mm)		NR		-4.74		13.60	13.60-14.00m ... no recovery.	(1) Red MARL/SANDSTONE with gypsum.	
				-5.14		(0.40) 14.00		*Complete at 14.00m BGL.*	

Drilling Progress and Water Observations			
Date	Depth	Casing	Water Standing
04/05/2020	14.00	11.00	10.86

Standard Penetration Test		
Depth	Type	Result

Flush		
From - To	Type	Returns (%)

General Remarks

(1) Description derived from drillers daily report.
(2) Advanced through trial pit PRAIRIE_AUK_TP156A. Descriptions between 0.00-4.50m BGL derived from PRAIRIE_AUK_TP156A.
(3) 1No. 19mm diameter piezometer standpipe and 1No. 50mm diameter slotted standpipe installed to 6.00m and 10.00-14.00m BGL respectively.

All dimensions in metres Scale 1:25	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:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_BH108
Client: South Tees Development Corporation	**Location:** E:454619.192 N:521200.662		
Method (Equipment): Percussion/Rotary (Dando 2000/Comacchio Geo 305)	**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:- PRELIM3

Project: Prairie Site Ground Investigation Works		**Exploratory Hole No.** PRAIRIE_AUK_BH109
Client: South Tees Development Corporation	**Location:** E:454511.473 N:520862.590	
Method (Equipment): Percussion/Rotary (Dando 2000/Boart Longyear DB540)	**Ground Level (m):** 12.085 / **Start Date:** 23/04/2020	**Sheet:** 1 of 1

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description	
0.30	J1			11.69		(0.40) 0.40	MADE GROUND (Dark brown sandy topsoil with some rootlets).	
0.50	ES2						MADE GROUND (Firm to stiff orange brown mottled grey and black slightly sandy clay. Strong hydrocarbon odour noted). (Possibly Natural Ground).	
0.50	J3							
0.50	PID	2.9ppm				(0.80)		
0.50-1.00	B4							
1.00	ES5			10.89		1.20		
1.00	PID	12.8ppm					MADE GROUND (Firm indistinctly laminated grey brown sandy slightly gravelly CLAY. Gravel is firm to coarse subangular to subrounded and includes sandstone. Strong hydrocarbon odour noted). (Possibly Natural Ground).	
1.20-1.65	U6	(75)						
1.65	J7					(1.10)		
1.70	ES8							
1.70	PID	27.6ppm						
2.00-2.45	SJ9	N15						
2.00-2.45	B10			9.79		2.30		
2.50	ES11						Firm thinly laminated brown slightly sandy CLAY with fine yellow brown sandy on the laminae.	
2.50	J12							
2.50	PID	10.8ppm						
3.00-3.45	U13	(60)						
3.45	J14					(2.50)		
3.50	ES15							
3.50	PID	26.1ppm						
4.00-4.45	SJ16	N21						
4.00-4.45	B17							
4.50	J18			7.29		4.80		
5.00-5.45	U19	(90)		6.79		(0.50) 5.30	(1) Firm to stiff laminated red brown silty CLAY.	
5.45	J20			6.29		(0.50) 5.80	Stiff red brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded and includes sandstone, mudstone and siltstone.	
5.50-5.80	B21							
6.00-6.45	SJ22	100/110mm					Very weak dark blue grey MUDSTONE.	
6.00-6.45	B23					(1.00)		
6.50	SJ24	100/45mm		5.28		6.80		
							Boring complete at 6.80m BGL - continued by rotary drilling.	

Boring Progress and Water Observations				
Date	Depth	Casing	Casing Dia (mm)	Water Standing
23/04/2020	0.00	0.00	200	
23/04/2020	6.80	5.80	200	Dry

Chiselling		Water Added
From - To	Duration (hh:mm)	From - To
6.20 - 6.50	1:00	

General Remarks

(1) Description derived from drillers daily report.
(2) Advanced adjacent to trial pit PRAIRIE_AUK_TP175.
(3) 50mm diameter slotted standpipe installed between 7.80-11.80m BGL.

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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DRILLHOLE RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_BH109
Client: South Tees Development Corporation	**Location:** E:454511.473 N:520862.590		
Method (Equipment): Percussion/Rotary (Dando 2000/Boart Longyear DB540)	**Ground Level (m):** 12.085	**Start Date:** 23/04/2020	**Sheet:** 1 of 3

RUN DETAILS			Water	STRATA				
Depth & (Core Ø)	TCR (SCR) RQD	Fracture Index		Reduced Level	Legend	Depth (Thickness)	Description: Discontinuity Detail	Description: Main
6.80 (140mm) 7.30	0 (0) 0	NR		5.28		6.80	6.80-7.30m ... no recovery.	Weak locally medium strong dark blue grey MUDSTONE distinctly weathered locally destructured.
(140mm) 7.80	100 (10) 0	15				(1.90)	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. 7.70-7.85m ... non-intact.	
(140mm) 8.80	100 (50) 10			3.39		8.70	7.95-8.22m ... 1No. vertical (85 degrees) undulating smooth stained (grey) discontinuity. 8.22-8.35m ... non-intact. 8.35-8.42m ... 1No. subvertical (80 degrees) planar smooth stained (grey) discontinuity. 8.52-8.65m ... 2No. subvertical (80 degrees) extremely closely spaced planar smooth discontinuities.	
(140mm) 10.30	73 (54) 34	7			× × ×	(3.10)	8.70-8.90m ... 1No. vertical (85 degrees) planar locally undulating rough stained (grey) discontinuity. 8.70-9.90m ... horizontal to subhorizontal (0-10 degrees) medium locally closely spaced planar locally undulating rough locally smeared (clay) and stained (grey) discontinuities. 9.38-9.54m ... 1No. vertical (85 degrees) planar rough open stained (grey) discontinuity. 9.83-9.90m ... 1No. subvertical (80 degrees) planar rough stained (red brown) discontinuity.	Medium strong light grey SILTSTONE unweathered locally partially weathered.
(140mm) 10.80	0 (0) 0	NR					9.90-10.80m ... no recovery.	

Instrument/Backfill: Cement Bentonite Grout; Plain Pipe; Slotted Pipe; Bentonite Seal; Gravel Filter

Drilling Progress and Water Observations			
Date	Depth	Casing	Water Standing
30/04/2020	6.80	6.80	Dry

Standard Penetration Test		
Depth	Type	Result

Flush		
From - To	Type	Returns (%)
6.80 - 7.30	Water	80
7.30 - 7.80	Water	80
7.80 - 8.80	Water	80
8.80 - 10.30	Water	80
10.30 - 10.80	Water	80
10.80 - 11.80	Water	80

General Remarks

(1) Description derived from drillers daily report.
(2) Advanced adjacent to trial pit PRAIRIE_AUK_TP175.
(3) 50mm diameter slotted standpipe installed between 7.80-11.80m BGL.

All dimensions in metres Scale 1:25	For explanation of symbols and abbreviations see Key Sheets	Checked by:	Logged by: K. Russell-Clamp	Contract No. **4251**

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DRILLHOLE RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_BH109
Client: South Tees Development Corporation	**Location:** E:454511.473 N:520862.590		
Method (Equipment): Percussion/Rotary (Dando 2000/Boart Longyear DB540)	**Ground Level (m):** 12.085	**Start Date:** 23/04/2020	**Sheet:** 2 of 3

RUN DETAILS				STRATA					
Depth & (Core Ø)	TCR (SCR) RQD	Fracture Index	Water	Reduced Level	Legend	Depth (Thickness)	Description: Discontinuity Detail	Description: Main	Instrument/ Backfill
(140mm)	100 (67) 57	7		0.29	× × ×	11.80	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.	Medium strong light grey SILTSTONE unweathered locally partially weathered. *(continued)*	
								Complete at 11.80m BGL.	

Drilling Progress and Water Observations			
Date	Depth	Casing	Water Standing
30/04/2020	11.80	6.80	9.37

Standard Penetration Test		
Depth	Type	Result

Flush		
From - To	Type	Returns (%)

General Remarks

(1) Description derived from drillers daily report.
(2) Advanced adjacent to trial pit PRAIRIE_AUK_TP175.
(3) 50mm diameter slotted standpipe installed between 7.80-11.80m BGL.

All dimensions in metres Scale 1:25	For explanation of symbols and abbreviations see Key Sheets	Checked by:	Logged by: K. Russell-Clamp	Contract No. **4251**

Print Date and Time: 18/06/2020 08:07:32

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

DRILLHOLE RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_BH109
Client: South Tees Development Corporation	**Location:** E:454511.473 N:520862.590		
Method (Equipment): Percussion/Rotary (Dando 2000/Boart Longyear DB540)	**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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BOREHOLE RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_BH110
Client: South Tees Development Corporation	**Location:** E:454320.946 N:521308.856		
Method (Equipment): Percussion/Rotary (Dando 2000/Comacchio Geo 305)	**Ground Level (m):** 7.798	**Start Date:** 20/04/2020	**Sheet:** 1 of 2

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description	
				6.30		(1.50) 1.50	MADE GROUND (Black sand and gravel with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse subangular and includes slag, coke and clinker. Cobbles are subangular and include concrete, slag and brick. Slag content is 0-25%. Slag	
				4.80		(1.50) 3.00	Firm indistinctly laminated orange brown mottled grey slightly sandy CLAY.	
3.00	ES1							
3.00-3.45	U2	(35)					Firm thinly laminated brown slightly sandy CLAY with fine yellow brown sand on the laminae.	
3.00	PID	<0.1ppm						
3.45	J3							
4.00	J4					(2.00)		
4.00-4.45	B5							
				2.80		5.00		
5.00-5.45	U6	(45)					Soft to firm thinly laminated dark brown slightly sandy CLAY with fine yellow brown sand on the laminae.	
5.45	J7							
6.00	J8					(2.30)		
6.50-6.95	SJ9	N13						
6.50-6.95	B10							
				0.50		7.30		
7.50	J11						Firm to stiff red brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular and includes sandstone, mudstone, siltstone and coal.	

Boring Progress and Water Observations				
Date	Depth	Casing	Casing Dia (mm)	Water Standing
20/04/2020	0.00	0.00	200	
20/04/2020	5.00	4.80	200	Dry
21/04/2020	5.00	4.80	200	4.36

Chiselling		Water Added
From - To	Duration (hh:mm)	From - To

General Remarks

(1) Description derived from drillers daily report.
(2) Advanced through trial pit PRAIRIE_AUK_TP149. Descriptions between 0.00-3.00m BGL derived from PRAIRIE_AUK_TP149.
(3) Water strike at 10.30m - water level rose to 8.47m BGL (20 mins).
(4) 50mm diameter standpipe installed to 20.80m BGL.

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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BOREHOLE RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_BH110
Client: South Tees Development Corporation	**Location:** E:454320.946 N:521308.856		
Method (Equipment): Percussion/Rotary (Dando 2000/Comacchio Geo 305)	**Ground Level (m):** 7.798	**Start Date:** 20/04/2020	**Sheet:** 2 of 2

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description	
8.00-8.45	U12	(75)	1			(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)*	
8.45	J13							
9.00	J14			-1.50		9.30		
9.50-9.95	SJ15	N59					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.	
9.50-9.95	B16		1					
10.50	J17					(2.90)		
11.00-11.45	U18	(100)						
11.45	J19							
12.00	J20			-4.40		12.20		
12.50-12.95	SJ21	N98				(0.80)	Stiff to very stiff dark red brown sandy gravelly CLAY. Gravel is fine to coarse subangular and includes sandstone, mudstone, and siltstone.	
12.50-12.95	B22			-5.20		13.00		
13.50	J23					(1.40)	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.	
14.00-14.45	B25							
14.00	SJ24	100/220mm		-6.60		14.40		
14.50	J26					(1.40)	Very weak red brown MUDSTONE destructured with interbeds of gypsum.	
15.00-15.45	B28							
15.00	SJ27	100/70mm						
15.50	SJ29	100/50mm		-8.00		15.80		
15.80-16.30	C30						*Boring complete at 15.80m BGL - continued by rotary drilling.*	

Boring Progress and Water Observations

Date	Depth	Casing	Casing Dia (mm)	Water Standing
21/04/2020	13.00	12.80	200	Dry
22/04/2020	13.00	12.80	200	6.74
22/04/2020	15.80	15.30	200	7.39

Chiselling

From - To	Duration (hh:mm)
13.00 - 15.50	6:00

Water Added

From - To

General Remarks

(1) Description derived from drillers daily report.
(2) Advanced through trial pit PRAIRIE_AUK_TP149. Descriptions between 0.00-3.00m BGL derived from PRAIRIE_AUK_TP149.
(3) Water strike at 10.30m - water level rose to 8.47m BGL (20 mins).
(4) 50mm diameter standpipe installed to 20.80m BGL.

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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DRILLHOLE RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works		**Exploratory Hole No.** PRAIRIE_AUK_BH110
Client: South Tees Development Corporation	**Location:** E:454320.946 N:521308.856	
Method (Equipment): Percussion/Rotary (Dando 2000/Comacchio Geo 305)	**Ground Level (m):** 7.798 / **Start Date:** 20/04/2020	**Sheet:** 1 of 3

RUN DETAILS				STRATA					
Depth & (Core Ø)	TCR (SCR) RQD	Fracture Index	Water	Reduced Level	Legend	Depth (Thickness)	Description: Discontinuity Detail	Description: Main	Instrument/ Backfill
15.80 (92mm) 16.30	0 (0) 0	NR		-8.00		15.80	15.80-17.00m ... no recovery.	(1) Red MUDSTONE/SANDSTONE. (Driller describes as 'very weak').	
16.30 (92mm) 16.80	0 (0) 0					(1.20)			
16.80 (92mm) 17.80	80 (32) 21	10		-9.20		17.00	17.00-17.07m ... non-intact. 17.00-17.60m ... horizontal to subhorizontal (0-10 degrees) closely to very closely spaced undulating rough stained (red brown) discontinuities. 17.07-17.20m ... 1No. subvertical (80 degrees) undulating rough stained (red brown) discontinuity. 17.20-17.35m ... non-intact.	Moderately weak to strong red brown MUDSTONE partially weathered, locally destructured, with many interbeds of gypsum.	
		NI					17.60-17.90m ... non-intact.		
17.80 (92mm) 19.30	100 (37) 23	10					17.90-18.40m ... horizontal to subhorizontal (0-10 degrees) closely to very closely spaced undulating rough stained (red brown) discontinuities. 17.96-18.07m ... non-intact. 18.14-18.30m ... 1No. subvertical (80 degrees) planar smooth closed stained (red brown) discontinuity.		
		NI					18.40-18.70m ... non-intact.		
		10				(3.80)	18.70-18.80m ... 1No. subvertical (80 degrees) planar smooth open stained (red brown) discontinuity. 18.70-19.30m ... horizontal to subhorizontal (0-10 degrees) closely to very closely spaced undulating rough stained (red brown) discontinuities. 18.80-18.95m ... non-intact.		
19.30	67 (35) 27	NR					19.30-19.80m ... no recovery.		

Drilling Progress and Water Observations			
Date	Depth	Casing	Water Standing
01/05/2020	15.80	15.80	14.28
01/05/2020	19.30	15.80	12.37
04/05/2020	19.30	15.80	

Standard Penetration Test		
Depth	Type	Result

Flush		
From - To	Type	Returns (%)
15.80 - 16.30	W	100
16.30 - 16.80	W	100
16.80 - 17.80	W	100
17.80 - 19.30	W	100
19.30 - 20.80	W	100

General Remarks

(1) Description derived from drillers daily report.
(2) Advanced through trial pit PRAIRIE_AUK_TP149. Descriptions between 0.00-3.00m BGL derived from PRAIRIE_AUK_TP149.
(3) Water strike at 10.30m - water level rose to 8.47m BGL (20 mins).
(4) 50mm diameter standpipe installed to 20.80m BGL.

All dimensions in metres Scale 1:25	For explanation of symbols and abbreviations see Key Sheets	Checked by:	Logged by: K. Russell-Clamp	Contract No. **4251**

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DRILLHOLE RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works		**Exploratory Hole No.** PRAIRIE_AUK_BH110
Client: South Tees Development Corporation	**Location:** E:454320.946 N:521308.856	
Method (Equipment): Percussion/Rotary (Dando 2000/Comacchio Geo 305)	**Ground Level (m):** 7.798 / **Start Date:** 20/04/2020	**Sheet:** 2 of 3

RUN DETAILS				STRATA					
Depth & (Core Ø)	TCR (SCR) RQD	Fracture Index	Water	Reduced Level	Legend	Depth (Thickness)	Description: Discontinuity Detail	Description: Main	Instrument/ Backfill
(92mm)		10		-13.00		20.80	19.80-20.06m ... non-intact. 19.80-20.80m ... horizontal to subhorizontal (0-10 degrees) closely to very closely spaced undulating rough stained (red brown) discontinuities. 20.13-20.20m ... 1No. oblique (30 degrees) undulating rough open stained (red brown) discontinuity. 20.62-20.72m ... non-intact.	Moderately weak to strong red brown MUDSTONE partially weathered, locally destructured, with many interbeds of gypsum. *(continued)*	
								Complete at 20.80m BGL.	

Drilling Progress and Water Observations			
Date	Depth	Casing	Water Standing
04/05/2020	20.80	15.80	15.20

Standard Penetration Test		
Depth	Type	Result

Flush		
From - To	Type	Returns (%)

General Remarks

(1) Description derived from drillers daily report.
(2) Advanced through trial pit PRAIRIE_AUK_TP149. Descriptions between 0.00-3.00m BGL derived from PRAIRIE_AUK_TP149.
(3) Water strike at 10.30m - water level rose to 8.47m BGL (20 mins).
(4) 50mm diameter standpipe installed to 20.80m BGL.

All dimensions in metres Scale 1:25	For explanation of symbols and abbreviations see Key Sheets	Checked by:	Logged by: K. Russell-Clamp	Contract No. **4251**

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DRILLHOLE RECORD

Status:- PRELIM3

Project: Prairie Site Ground Investigation Works			**Exploratory Hole No.** PRAIRIE_AUK_BH110
Client: South Tees Development Corporation	**Location:** E:454320.946 N:521308.856		
Method (Equipment): Percussion/Rotary (Dando 2000/Comacchio Geo 305)	**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

APPENDIX D

Statistical Analysis

Slag Dominant Made Ground Analysis Summary					
Analyte	**Number of Detections**	**Maximum Concentration (mg/kg)**	**Minimum Concentration (mg/kg)**	**Mean Concentration (mg/kg)**	**Standard Deviation**
Aluminium	15	15	77000	8100	38721
Antimony	15	13	11	0.5	3.48
Arsenic	15	15	24	1.6	10.91
Barium	15	15	1300	160	412
Beryllium	15	15	9.7	0.4	4.84
Boron, Water Soluble	15	15	16	1.3	3.91
Cadmium	15	14	0.8	0.05	0.33
Chromium	15	15	750	9.1	176
Chromium, Hexavalent	15	0	0.5	0.5	0.50
Copper	15	15	220	10	53.57
Iron	15	15	180000	8900	54093
Lead	15	15	330	4.6	46.84
Magnesium	15	15	41000	14000	27643
Manganese	15	15	37000	870	8469.29
Mercury	15	11	0.68	0.025	0.17
Molybdenum	15	13	4.9	0.2	1.79
Nickel	15	15	35	2.9	12.60
Silicon	15	15	160000	38000	79357
Vanadium	15	15	3300	31	505
Zinc	15	15	550	33	132
pH	15	12.2	9.7	11.01	0.80
Cyanide, Total	15	50	0.1	8.44	13.67
Cyanide, Free	3	0.5	0.05	0.10	0.12
Thiocyanate	9	3.7	0.3	0.94	0.96
Organic matter	15	4.5	0.5	1.66	0.93
Sulphate Aqueous Extract as SO4	15	1100	17	463	311
Sulphur (free)	12	120	0.375	24.38	37.69
Phenols (monohydric)	7	0.6	0.3	0.42	0.10
Total PAH	14	2600	0.05	254	652
Where <MDL a value of 50% the MDL is used in statistical calculations					

Granular Made Ground Analysis Summary					
Analyte	Number of Detections	Maximum Concentration (mg/kg)	Minimum Concentration (mg/kg)	Mean Concentration (mg/kg)	Standard Deviation
Aluminium	77	53000	890	17299	10790
Antimony	72	69	0.5	6.11	8.93
Arsenic	77	2100	1.8	55.53	236
Barium	77	1100	40	337	207
Beryllium	75	7	0.1	2.04	1.40
Boron, Water Soluble	77	39	0.4	2.93	4.43
Cadmium	73	24	0.05	1.63	3.68
Chromium	77	740	1.7	131.88	142.58
Chromium, Hexavalent	0	0.5	0.5	0.50	0.00
Copper	77	20000	5.9	363	2261
Iron	77	450000	2700	81921	70506
Lead	77	1800	9.3	204	338
Magnesium	77	40000	1500	13240	8096
Manganese	77	99000	61	10540	16279
Mercury	66	4.1	0.025	0.50	0.84
Molybdenum	74	73	0.2	4.99	9.50
Nickel	77	200	1.6	36.10	31.46
Silicon	76	230000	9400	72722	42388
Vanadium	77	1700	7.9	332	395
Zinc	77	4200	37	499	803
pH	77	12.2	7.5	10.22	1.30
Cyanide, Total	74	3300	0.05	81.52	402
Cyanide, Free	19	4.5	0.05	0.18	0.52
Thiocyanate	36	69	0.3	2.18	8.14
Organic matter	77	14	0.4	3.71	3.31
Sulphate Aqueous Extract as SO4	77	1800	10	331	338
Sulphur (free)	44	1000	0.375	24.91	116
Phenols (monohydric)	15	210	0.3	15.49	52.04
Total PAH	70	110000	0.05	1722	12974
Where <MDL a value of 50% the MDL is used in statistical calculations					

Cohesive Made Ground Analysis Summary					
Analyte	Number of Detections	Maximum Concentration (mg/kg)	Minimum Concentration (mg/kg)	Mean Concentration (mg/kg)	Standard Deviation
Aluminium	6	19000	2700	13617	5413
Antimony	5	36	0.5	7.67	12.70
Arsenic	6	130	9.2	34.17	43.12
Barium	6	630	92	325	175
Beryllium	5	2	0.1	1.33	0.63
Boron, Water Soluble	6	2.6	1	1.92	0.54
Cadmium	5	5.7	0.05	1.21	2.01
Chromium	6	310	25	86.83	101.27
Chromium, Hexavalent	0	0.5	0.5	0.50	0.00
Copper	6	1400	23	269.17	506
Iron	6	650000	33000	144000	226460
Lead	6	550	36	144	184
Magnesium	6	9500	2600	5917	2486
Manganese	6	4000	440	1537	1191
Mercury	5	0.23	0.025	0.11	0.06
Molybdenum	6	61	0.7	11.07	22.33
Nickel	6	320	22	79.17	108
Silicon	6	190000	16000	123000	74124
Vanadium	6	210	40	99.83	59.50
Zinc	6	890	81	298	276
pH	6	10.7	8.5	9.40	0.85
Cyanide, Total	4	22	0.05	3.87	8.11
Cyanide, Free	1	0.1	0.05	0.06	0.02
Thiocyanate	3	0.7	0.3	0.48	0.19
Organic matter	6	6.4	1.2	2.85	1.74
Sulphate Aqueous Extract as SO4	6	770	130	305	212
Sulphur (free)	3	11	0.375	3.72	4.23
Phenols (monohydric)	2	0.8	0.4	0.60	0.20
Total PAH	5	14	0.49	4.26	4.97
Where <MDL a value of 50% the MDL is used in statistical calculations					

Tidal Flat Deposits Analysis Summary					
Analyte	**Number of Detections**	**Maximum Concentration (mg/kg)**	**Minimum Concentration (mg/kg)**	**Mean Concentration (mg/kg)**	**Standard Deviation**
Aluminium	10	21000	9000	13120	3276
Antimony	9	17	0.5	3.44	4.77
Arsenic	10	78	6.2	23.78	25.89
Barium	10	430	84	239	96.87
Beryllium	10	2.5	0.6	1.28	0.48
Boron, Water Soluble	10	3.1	0.5	1.43	0.70
Cadmium	9	2.7	0.05	0.51	0.74
Chromium	10	180	20	53.40	47.61
Chromium, Hexavalent	0	0.5	0.5	0.50	0.00
Copper	10	650	17	123	196
Iron	10	320000	23000	77500	87891
Lead	10	310	23	71.30	82.72
Magnesium	10	9500	2300	5360	2250
Manganese	10	4100	370	1449	1105
Mercury	6	0.19	0.025	0.08	0.06
Molybdenum	9	29	0.2	3.99	8.47
Nickel	10	200	11	53.80	52.10
Silicon	10	190000	48000	144100	43480
Vanadium	10	230	27	74.90	66.68
Zinc	10	510	58	186.60	144.43
pH	10	10.4	7.2	8.96	0.82
Cyanide, Total	8	120	0.05	12.77	35.75
Cyanide, Free	1	0.2	0.05	0.07	0.05
Thiocyanate	2	1.8	0.3	0.54	0.50
Sulphate Aqueous Extract as SO_4	10	8.6	0.4	3.63	2.61
Sulphur	10	540	35	215	159
Phenols (monohydric)	2	3.9	0.4	2.15	1.75
USEPA 16 PAH	6	1700	0.05	214	562
*Where <MDL a value of 50% the MDL is used in statistical calculations					

Statistical analysis not conducted on Glaciolacustrine Deposits and Glacial Till due to limited sample numbers.

APPENDIX E

Draft Laboratory Certificates

Certificate of Analysis

Certificate Number	20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-	11-Jun-20
Client	Allied Exploration & Geotechnics Limited Unit 25 Stella Gill Industrial Estate Pelton Fell DH2 2RG	

Our Reference	20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-(
Client Reference	4251
Order No	(not supplied)
Contract Title	Prairie Site Ground Investigation Works
Description	119 Soil samples, 24 Leachate samples, 15 Water samples.
Date Received	06-Apr-20
Date Started	06-Apr-20
Date Completed	11-Jun-20
Test Procedures	Identified by prefix DETSn (details on request).
Notes	Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Adam Fenwick
Contracts Manager

mCERTS
THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

UKAS TESTING
2139

Summary of Chemical Analysis
Matrix Descriptions

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

Sample ID	Other ID	Depth	Lab No	Completed	Matrix Description
PRAIRIE_AUK_TP132_SO_0130	4	1.3	1663605	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP131_SO_0180	5	1.8	1663606	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP101_SO_0100	5	1	1663734	03/06/2020	Dark brown gravelly SAND (Possible made ground - brick)
PRAIRIE_AUK_TP101_SO_0220	9	2.2	1663735	03/06/2020	Dark brown sandy, clayey GRAVEL (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP104_SO_0150	5	1.5	1663736	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP105_SO_0250	11	2.5	1663737	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_BH104_SO_0550	1	5.5	1663978	03/06/2020	Dark brown gravelly, sandy CLAY
PRAIRIE_AUK_TP172_SO_0080	3	0.8	1665133	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP175_SO_0080	3	0.8	1665134	03/06/2020	Dark brown sandy GRAVEL (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP175_SO_0180	6	1.8	1665135	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP178_SO_0080	3	0.8	1665136	03/06/2020	Dark brown sandy GRAVEL (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_BH106_SO_0550	1	5.5	1665137	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP107_SO_0180	6	1.8	1665138	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP107_SO_0080	11	0.8	1665139	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP108_SO_0100	5	1	1665140	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP108_SO_0200	8	2	1665141	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP113_SO_0130	5	1.3	1665142	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_BH103_SO_0250	1	2.5	1665286	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP115_SO_0190	6	1.9	1665288	03/06/2020	Dark grey sandy GRAVEL (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP122_SO_0100	3	1	1665290	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP123_SO_0060	3	0.6	1665291	03/06/2020	Dark brown gravelly, clayey SAND
PRAIRIE_AUK_TP185_SO_0430	5	4.3	1665292	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP186_SO_0050	3	0.5	1665293	03/06/2020	Dark brown gravelly, sandy CLAY (Possible made ground - brick)
PRAIRIE_AUK_TP188_SO_0100	3	1	1665295	03/06/2020	Dark brown gravelly SAND
PRARIE_AUK_TP121_SO_0150	4	1.5	1665450	03/06/2020	Dark brown sandy, clayey GRAVEL (sample matrix outside MCERTS scope of accreditation)
PRARIE_AUK_TP138_SO_0120	3	1.2	1665451	03/06/2020	Dark brown gravelly SAND (Possible made ground - brick)
PRARIE_AUK_TP149_SO_0130	3	1.3	1665452	03/06/2020	Dark brown gravelly, clayey SAND
PRARIE_AUK_TP168_SO_0005	1	0.05	1665453	03/06/2020	Dark brown gravelly, clayey SAND

Summary of Chemical Analysis
Matrix Descriptions

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

Sample ID	Other ID	Depth	Lab No	Completed	Matrix Description
PRARIE_AUK_TP173_SO_0090	3	0.9	1665454	03/06/2020	Dark brown gravelly, clayey SAND
PRARIE_AUK_SURFACE1_SO_0000	1		1665455	03/06/2020	Cream, gravelly, sandy and CLAY
PRAIRIE_AUK_TP114_SO_0090	6	0.9	1665588	03/06/2020	U/S (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP124_SO_0150	5	1.5	1665589	03/06/2020	Dark brown gravelly, very sandy CLAY
PRAIRIE_AUK_TP174_SO_0080	3	0.8	1665590	03/06/2020	Dark brown gravelly, very sandy CLAY
PRAIRIE_AUK_TP174_SO_0160	6	1.6	1665591	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP176_SO_0090	3	0.9	1665592	03/06/2020	Dark brown gravelly, very sandy CLAY
PRAIRIE_AUK_TP177_SO_0060	2	0.6	1665593	03/06/2020	Dark brown gravelly, very sandy CLAY
PRAIRIE_AUK_TP189_SO_0300	7	3	1665594	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP179_SO_0140	4	1.4	1665610	03/06/2020	U/S (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP179_SO_0200	7	2	1665611	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP181_SO_0060	3	0.6	1665612	03/06/2020	Dark brown gravelly, very, sandy CLAY
PRAIRIE_AUK_TP182_SO_0090	3	0.9	1665613	03/06/2020	U/S (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP145_SO_0160	4	1.6	1665990	03/06/2020	Dark brown gravelly, sandy CLAY
PRAIRIE_AUK_TP146C_SO_0130	5	1.3	1665991	03/06/2020	Dark brown gravelly, sandy CLAY
PRAIRIE_AUK_TP156A_SO_0030	2	0.3	1665992	03/06/2020	Dark brown gravelly, very sandy CLAY
PRAIRIE_AUK_TP162_SO_0170	3A	1.7	1665993	03/06/2020	Dark brown gravelly, very sandy CLAY including some rootlets
PRAIRIE_AUK_TP180_SO_0030	3	0.3	1665994	03/06/2020	Dark brown gravelly, very sandy CLAY including some rootlets
PRAIRIE_AUK_TP163_SO_0120	3	1.2	1665995	03/06/2020	U/S (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP135_SO_0130	5	1.3	1666343	03/06/2020	Dark brown clayey, sandy GRAVEL (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP136_SO_0080	3	0.8	1666344	03/06/2020	Dark brown sandy, clayey GRAVEL (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP136_SO_0290	10	2.9	1666345	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP165_SO_0100	3	1	1666346	03/06/2020	Dark brown gravelly, clayey SAND
PRAIRIE_AUK_TP167_SO_0250	6	2.5	1666347	03/06/2020	Dark brown gravelly, clayey SAND
PRAIRIE_AUK_TP169_SO_0150	3	1.5	1666348	03/06/2020	Dark brown gravelly, clayey SAND
PRAIRIE_AUK_BH108_SO_0250	1	2.5	1666610	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP139B_SO_0030	3	0.3	1666611	03/06/2020	Dark brown very sandy GRAVEL (Possible made ground - brick) (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP139B_SO_0330	6	3.3	1666612	03/06/2020	Dark brown sandy CLAY

Summary of Chemical Analysis
Matrix Descriptions

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

Sample ID	Other ID	Depth	Lab No	Completed	Matrix Description
PRAIRIE_AUK_TP148A_SO_0140	5	1.4	1666613	03/06/2020	Dark brown very sandy GRAVEL (Possible made ground - brick) (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP150_SO_0150	3	1.5	1666614	03/06/2020	Dark brown very sandy GRAVEL (Possible made ground - brick) (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP159_SO_0060	3	0.6	1666615	03/06/2020	Dark brown very sandy GRAVEL (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP190A_SO_0110	3	1.1	1666616	03/06/2020	Dark brown gravelly, clayey SAND
PRAIRIE_AUK_BH105_SO_0300	1	3	1667231	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP126_SO_0260	5	2.6	1667232	03/06/2020	Dark brown gravelly, sandy CLAY
PRAIRIE_AUK_TP128_SO_0090	3	0.9	1667233	03/06/2020	U/S (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP129_SO_0210	4A	2.1	1667234	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP130_SO_0100	4A	1	1667235	03/06/2020	Dark brown gravelly, clayey SAND
PRAIRIE_AUK_TP147_SO_0150	4	1.5	1667236	03/06/2020	Dark brown gravelly, sandy CLAY
PRAIRIE_AUK_TP158_SO_0130	3	1.3	1667237	03/06/2020	Dark brown gravelly, clayey SAND
PRAIRIE_AUK_TP157_SO_0080	2	0.8	1667238	03/06/2020	Dark brown gravelly, clayey SAND
PRAIRIE_AUK_TP120A_SO_0100	3	1	1667501	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP134_SO_0100	3	1	1667502	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP134_SO_0200	6	2	1667503	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP161_SO_0100	3	1	1667504	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP166_SO_0045	3	0.45	1667505	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP166_SO_0120	8	1.2	1667506	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP171_SO_0075	3	0.75	1667507	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP187_SO_0070	3	0.7	1667508	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_BH110_SO_0300	1	3	1668118	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP102_SO_0100	4	1	1668119	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP102_SO_0300	11	3	1668120	03/06/2020	Dark brown gravelly, sandy CLAY
PRAIRIE_AUK_TP103_SO_0100	3	1	1668121	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP109_SO_0100	3	1	1668122	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP110_SO_0100	3	1	1668123	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP110_SO_0200	7	2	1668124	03/06/2020	Dark brown gravelly, sandy CLAY
PRAIRIE_AUK_TP111_SO_0150	4	1.5	1668125	03/06/2020	Dark brown gravelly SAND

Summary of Chemical Analysis
Matrix Descriptions

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

Sample ID	Other ID	Depth	Lab No	Completed	Matrix Description
PRAIRIE_AUK_TP112_SO_0150	4	1.5	1668126	03/06/2020	Dark brown gravelly SAND (Possible made ground - brick)
PRAIRIE_AUK_TP119_SO_0150	3	1.5	1668127	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP119_SO_0250	7	2.5	1668128	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP133_SO_0050	2	0.5	1668129	03/06/2020	Dark brown, gravelly SAND
PRAIRIE_AUK_TP152_SO_0200	6	2	1668130	03/06/2020	Dark brown gravelly, very sandy CLAY
PRAIRIE_AUK_TP153_SO_0110	4	1.1	1668131	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP154_SO_0085	3	0.85	1668132	03/06/2020	Dark brown very gravelly SAND
PRAIRIE_AUK_TP155_SO_0070	3	0.7	1668133	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP160_SO_0075	4	0.75	1668134	03/06/2020	Dark brown gravelly SAND (Possible made ground - brick)
PRAIRIE_AUK_TP170_SO_0100	4	1	1668135	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP164_SO_0070	3	0.7	1668557	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP164_SO_0130	5	1.3	1668558	03/06/2020	Dark brown gravelly, slightly clayey SAND
PRAIRIE_AUK_TP184_SO_0030	2	0.3	1668559	03/06/2020	Dark brown sandy GRAVEL including odd rootlets (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP106_SO_0100	3	1	1668560	03/06/2020	Dark brown gravelly, sandy CLAY
PRAIRIE_AUK_TP116_SO_0130	3	1.3	1668561	03/06/2020	Dark brown gravelly, clayey SAND
PRAIRIE_AUK_TP117_SO_0300	8	3	1668562	03/06/2020	Dark brown sandy, clayey GRAVEL (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP118_SO_0120	3	1.2	1668563	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP127_SO_0030	3	0.3	1668564	03/06/2020	Dark brown gravelly SAND (Possible made ground - brick)
PRAIRIE_AUK_TP127A_SO_0280	3	2.8	1668565	03/06/2020	Brown sandy CLAY
PRAIRIE_AUK_TP140_SO_0100	3	1	1668566	03/06/2020	Dark brown gravelly, clayey SAND
PRAIRIE_AUK_TP141_SO_0200	4	2	1668567	03/06/2020	U/S (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP142_SO_0090	3	0.9	1668568	03/06/2020	U/S (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP142_SO_0150	4	1.5	1668569	03/06/2020	U/S (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP143_SO_0080	3	0.8	1668570	03/06/2020	Dark brown gravelly, clayey SAND
PRAIRIE_AUK_TP143_SO_0160	6	1.6	1668571	03/06/2020	Dark brown gravelly, sandy CLAY
PRAIRIE_AUK_TP151_SO_0120	5	1.2	1668572	03/06/2020	Dark brown gravelly, clayey SAND
PRAIRIE_AUK_TP139_SO_0110	4	1.1	1668657	03/06/2020	Dark brown very gravelly, sandy CLAY
PRAIRIE_AUK_TP144_SO_0080	3	0.8	1668869	03/06/2020	Dark brown very sandy, clayey GRAVEL (sample matrix outside MCERTS scope of accreditation)

Summary of Chemical Analysis

Matrix Descriptions

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

Sample ID	Other ID	Depth	Lab No	Completed	Matrix Description
PRAIRIE_AUK_TP112_SO_0210	7	2.1	1669251	03/06/2020	Dark brown sandy GRAVEL (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP194A_SO_0140	1	1.4	1670142	03/06/2020	U/S (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP196A_SO_0140	1	1.4	1670143	03/06/2020	U/S (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP201_SO_0360	1	3.6	1670144	03/06/2020	Dark brown gravelly, clayey SAND
PRAIRIE_AUK_TP193_SO_0080	1	0.8	1670502	03/06/2020	U/S (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_BH101_SO_0300	1	3	1675450	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_BH107_SO_0300	1	3	1675451	03/06/2020	Dark brown sandy CLAY

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-0
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1663605	1663606	1663734
				PRAIRIE_AUK_TP13	PRAIRIE_AUK_TP13	PRAIRIE_AUK_TP10
			Sample ID	2_SO_0130	1_SO_0180	1_SO_0100
			Depth	1.30	1.80	1.00
			Other ID	4	5	5
			Sample Type	ES	ES	ES
			Sampling Date	02/04/2020	02/04/2020	01/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Asbestos Quantification	DETSC 1102	0.001	%			0.001
Metals						
Aluminium	DETSC 2301*	1	mg/kg	12000	15000	36000
Antimony	DETSC 2301*	1	mg/kg	7.7	9.1	1.4
Arsenic	DETSC 2301#	0.2	mg/kg	5.2	13	13
Barium	DETSC 2301#	1.5	mg/kg	220	1300	390
Beryllium	DETSC 2301#	0.2	mg/kg	0.7	1.4	4.4
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	5.4	1.3	3.1
Cadmium	DETSC 2301#	0.1	mg/kg	0.4	0.3	0.4
Chromium	DETSC 2301#	0.15	mg/kg	410	620	30
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	36	100	55
Iron	DETSC 2301	25	mg/kg	140000	99000	18000
Lead	DETSC 2301#	0.3	mg/kg	88	46	330
Magnesium	DETSC 2301*	1	mg/kg	41000	33000	23000
Manganese	DETSC 2301#	20	mg/kg	18000	17000	2900
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	0.07	0.25
Molybdenum	DETSC 2301#	0.4	mg/kg	3.9	1.5	1.0
Nickel	DETSC 2301#	1	mg/kg	17	12	9.7
Silicon	DETSC 2301*	10	mg/kg	42000	46000	67000
Vanadium	DETSC 2301#	0.8	mg/kg	430	3300	74
Zinc	DETSC 2301#	1	mg/kg	130	56	170
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	12.2	12.1	10.0
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.7	0.4	0.6
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6	< 0.6	2.4
Organic matter	DETSC 2002#	0.1	%	1.0	1.6	4.5
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	17	24	850
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	1.9	120

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-0
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1663605	1663606	1663734
			Sample ID	PRAIRIE_AUK_TP13 2_SO_0130	PRAIRIE_AUK_TP13 1_SO_0180	PRAIRIE_AUK_TP10 1_SO_0100
			Depth	1.30	1.80	1.00
			Other ID	4	5	5
			Sample Type	ES	ES	ES
			Sampling Date	02/04/2020	02/04/2020	01/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	4.9	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	43	11	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	48	12	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	1.1	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	1.1	< 0.5	0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	1.9	< 0.6	19
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	7.7	< 1.4	38
Aromatic C5-C35	DETSC 3072*	10	mg/kg	12	< 10	58
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	60	12	58
EPH (C10-C40)	DETSC 3311#	10	mg/kg	290	68	1100
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	0.08	< 0.03	0.09
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.05
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.09	< 0.03	1.4
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	1.4
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.6	0.42	22
Anthracene	DETSC 3303	0.03	mg/kg	0.08	0.08	2.7
Fluoranthene	DETSC 3303#	0.03	mg/kg	1.4	0.97	37
Pyrene	DETSC 3303#	0.03	mg/kg	0.91	0.74	31
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.24	0.33	7.8
Chrysene	DETSC 3303	0.03	mg/kg	0.44	0.40	7.1
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.44	0.45	6.7
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.18	0.18	2.6
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.14	0.22	3.7
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.14	0.13	2.0
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.04	0.04	0.55
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.19	0.16	2.3
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	6.0	4.1	130

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-0

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

			Lab No	1663605	1663606	1663734
			Sample ID	PRAIRIE_AUK_TP13 2_SO_0130	PRAIRIE_AUK_TP13 1_SO_0180	PRAIRIE_AUK_TP10 1_SO_0100
			Depth	1.30	1.80	1.00
			Other ID	4	5	5
			Sample Type	ES	ES	ES
			Sampling Date	02/04/2020	02/04/2020	01/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg			
PCB 52	DETSC 3401#	0.01	mg/kg			
PCB 101	DETSC 3401#	0.01	mg/kg			
PCB 118	DETSC 3401#	0.01	mg/kg			
PCB 153	DETSC 3401#	0.01	mg/kg			
PCB 138	DETSC 3401#	0.01	mg/kg			
PCB 180	DETSC 3401#	0.01	mg/kg			
PCB 7 Total	DETSC 3401#	0.01	mg/kg			
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	0.4	0.3	0.4

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-083
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

	Lab No	1663735	1663736	1663737
		PRAIRIE_AUK_TP10	PRAIRIE_AUK_TP10	PRAIRIE_AUK_TP10
	Sample ID	1_SO_0220	4_SO_0150	5_SO_0250
	Depth	2.20	1.50	2.50
	Other ID	9	5	11
	Sample Type	ES	ES	ES
	Sampling Date	01/04/2020	01/04/2020	01/04/2020
	Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
Asbestos Quantification	DETSC 1102	0.001	%			
Metals						
Aluminium	DETSC 2301*	1	mg/kg	32000	31000	16000
Antimony	DETSC 2301*	1	mg/kg	1.5	3.4	2.0
Arsenic	DETSC 2301#	0.2	mg/kg	18	23	14
Barium	DETSC 2301#	1.5	mg/kg	280	390	400
Beryllium	DETSC 2301#	0.2	mg/kg	4.0	3.5	1.7
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	4.3	3.4	2.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.5	0.5	0.4
Chromium	DETSC 2301#	0.15	mg/kg	39	120	38
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	54	61	44
Iron	DETSC 2301	25	mg/kg	31000	56000	46000
Lead	DETSC 2301#	0.3	mg/kg	89	110	45
Magnesium	DETSC 2301*	1	mg/kg	14000	25000	7900
Manganese	DETSC 2301#	20	mg/kg	1500	7700	1100
Mercury	DETSC 2325#	0.05	mg/kg	0.24	0.34	0.09
Molybdenum	DETSC 2301#	0.4	mg/kg	1.6	1.4	1.1
Nickel	DETSC 2301#	1	mg/kg	23	21	38
Silicon	DETSC 2301*	10	mg/kg	120000	64000	180000
Vanadium	DETSC 2301#	0.8	mg/kg	91	290	48
Zinc	DETSC 2301#	1	mg/kg	200	180	160
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	10.1	10.9	9.1
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.2	0.3	< 0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.7	< 0.6	0.6
Organic matter	DETSC 2002#	0.1	%	2.8	2.4	1.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	590	490	770
Sulphur (free)	DETSC 3049#	0.75	mg/kg	16	5.0	8.0

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-083
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1663735	1663736	1663737
				PRAIRIE_AUK_TP10	PRAIRIE_AUK_TP10	PRAIRIE_AUK_TP10
			Sample ID	1_SO_0220	4_SO_0150	5_SO_0250
			Depth	2.20	1.50	2.50
			Other ID	9	5	11
			Sample Type	ES	ES	ES
			Sampling Date	01/04/2020	01/04/2020	01/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	2.7	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	3.6	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	20	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	27	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	2.1
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	3.1
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	1.5	< 0.6	7.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	16	< 1.4	9.7
Aromatic C5-C35	DETSC 3072*	10	mg/kg	18	< 10	23
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	45	< 10	23
EPH (C10-C40)	DETSC 3311#	10	mg/kg	110	120	78
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	0.08	< 0.03	0.06
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.15	0.05	0.62
Fluorene	DETSC 3303	0.03	mg/kg	0.11	0.06	0.57
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.1	1.1	3.1
Anthracene	DETSC 3303	0.03	mg/kg	0.21	0.14	0.53
Fluoranthene	DETSC 3303#	0.03	mg/kg	1.4	1.9	3.0
Pyrene	DETSC 3303#	0.03	mg/kg	1.0	1.6	2.3
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.39	0.66	0.74
Chrysene	DETSC 3303	0.03	mg/kg	0.49	0.79	0.85
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.36	0.75	0.92
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.15	0.31	0.30
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.23	0.43	0.55
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.10	0.20	0.28
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.03	0.06	0.08
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.11	0.27	0.35
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	5.9	8.3	14

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-083
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1663735	1663736	1663737
			Sample ID	PRAIRIE_AUK_TP10 1_SO_0220	PRAIRIE_AUK_TP10 4_SO_0150	PRAIRIE_AUK_TP10 5_SO_0250
			Depth	2.20	1.50	2.50
			Other ID	9	5	11
			Sample Type	ES	ES	ES
			Sampling Date	01/04/2020	01/04/2020	01/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg			
PCB 52	DETSC 3401#	0.01	mg/kg			
PCB 101	DETSC 3401#	0.01	mg/kg			
PCB 118	DETSC 3401#	0.01	mg/kg			
PCB 153	DETSC 3401#	0.01	mg/kg			
PCB 138	DETSC 3401#	0.01	mg/kg			
PCB 180	DETSC 3401#	0.01	mg/kg			
PCB 7 Total	DETSC 3401#	0.01	mg/kg			
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,21,20-09141,20-09144,20-09146,20-09147,20-09149
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1663978	1665133	1665134
				PRAIRIE_AUK_BH10	PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP17
			Sample ID	4_SO_0550	2_SO_0080	5_SO_0080
			Depth	5.50	0.80	0.80
			Other ID	1	3	3
			Sample Type	ES	ES	ES
			Sampling Date	03/04/2020	06/04/2020	06/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Asbestos Quantification	DETSC 1102	0.001	%		0.001	
Metals						
Aluminium	DETSC 2301*	1	mg/kg	9700	12000	18000
Antimony	DETSC 2301*	1	mg/kg	< 1.0	1.9	3.7
Arsenic	DETSC 2301#	0.2	mg/kg	5.9	20	13
Barium	DETSC 2301#	1.5	mg/kg	120	650	350
Beryllium	DETSC 2301#	0.2	mg/kg	0.7	1.5	2.8
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.1	7.7	3.3
Cadmium	DETSC 2301#	0.1	mg/kg	0.1	1.4	0.6
Chromium	DETSC 2301#	0.15	mg/kg	20	19	130
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	19	95	54
Iron	DETSC 2301	25	mg/kg	24000	34000	57000
Lead	DETSC 2301#	0.3	mg/kg	11	120	1500
Magnesium	DETSC 2301*	1	mg/kg	11000	8800	12000
Manganese	DETSC 2301#	20	mg/kg	450	38000	8400
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	4.1	0.37
Molybdenum	DETSC 2301#	0.4	mg/kg	0.8	2.7	1.8
Nickel	DETSC 2301#	1	mg/kg	23	25	18
Silicon	DETSC 2301*	10	mg/kg	120000	80000	79000
Vanadium	DETSC 2301#	0.8	mg/kg	28	39	280
Zinc	DETSC 2301#	1	mg/kg	48	280	170
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	8.1	10.0	10.4
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1	52	6.7
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	0.5	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6	3.6	0.9
Organic matter	DETSC 2002#	0.1	%	1.0	4.4	3.1
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	100	450	390
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	15	1000

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,21,20-09141,20-09144,20-09146,20-09147,20-09149
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1663978	1665133	1665134
				PRAIRIE_AUK_BH10	PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP17
			Sample ID	4_SO_0550	2_SO_0080	5_SO_0080
			Depth	5.50	0.80	0.80
			Other ID	1	3	3
			Sample Type	ES	ES	ES
			Sampling Date	03/04/2020	06/04/2020	06/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	0.13
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	2.1
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	93
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	350
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	67
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	510
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	0.15
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	0.22
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	1.3
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	250
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	2.3	2100
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	21	830
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	33	210
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	57	3400
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	57	3900
EPH (C10-C40)	DETSC 3311#	10	mg/kg	< 10	360	10000
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	0.35	24
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	0.92	19
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.99	98
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	1.6	74
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03	8.0	98
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	8.0	30
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	12	41
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	11	30
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	6.5	13
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03	4.8	12
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	5.6	12
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	2.8	59
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	3.9	120
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	2.4	53
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	0.61	15
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	2.9	64
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10	72	760

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,21,20-09141,20-09144,20-09146,20-09147,20-09149
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

				Lab No	1663978	1665133	1665134
				Sample ID	PRAIRIE_AUK_BH10 4_SO_0550	PRAIRIE_AUK_TP17 2_SO_0080	PRAIRIE_AUK_TP17 5_SO_0080
				Depth	5.50	0.80	0.80
				Other ID	1	3	3
				Sample Type	ES	ES	ES
				Sampling Date	03/04/2020	06/04/2020	06/04/2020
				Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
PCBs							
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg				
PCB 52	DETSC 3401#	0.01	mg/kg				
PCB 101	DETSC 3401#	0.01	mg/kg				
PCB 118	DETSC 3401#	0.01	mg/kg				
PCB 153	DETSC 3401#	0.01	mg/kg				
PCB 138	DETSC 3401#	0.01	mg/kg				
PCB 180	DETSC 3401#	0.01	mg/kg				
PCB 7 Total	DETSC 3401#	0.01	mg/kg				
Phenols							
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg		1.4	< 0.3	5.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

	Lab No	1665135	1665136	1665137
	Sample ID	PRAIRIE_AUK_TP17 5_SO_0180	PRAIRIE_AUK_TP17 8_SO_0080	PRAIRIE_AUK_BH10 6_SO_0550
	Depth	1.80	0.80	5.50
	Other ID	6	3	1
	Sample Type	ES	ES	ES
	Sampling Date	06/04/2020	06/04/2020	06/04/2020
	Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	14000	16000	15000
Antimony	DETSC 2301*	1	mg/kg	1.2	2.4	1.5
Arsenic	DETSC 2301#	0.2	mg/kg	8.4	18	6.4
Barium	DETSC 2301#	1.5	mg/kg	340	250	160
Beryllium	DETSC 2301#	0.2	mg/kg	1.2	2.2	1.2
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.8	1.5	1.1
Cadmium	DETSC 2301#	0.1	mg/kg	0.2	0.4	0.2
Chromium	DETSC 2301#	0.15	mg/kg	28	18	52
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	31	91	32
Iron	DETSC 2301	25	mg/kg	35000	70000	32000
Lead	DETSC 2301#	0.3	mg/kg	30	70	20
Magnesium	DETSC 2301*	1	mg/kg	6000	5900	14000
Manganese	DETSC 2301#	20	mg/kg	900	670	1200
Mercury	DETSC 2325#	0.05	mg/kg	0.19	0.13	0.78
Molybdenum	DETSC 2301#	0.4	mg/kg	< 0.4	3.6	0.6
Nickel	DETSC 2301#	1	mg/kg	34	41	25
Silicon	DETSC 2301*	10	mg/kg	180000	66000	140000
Vanadium	DETSC 2301#	0.8	mg/kg	33	96	150
Zinc	DETSC 2301#	1	mg/kg	83	160	69
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%		26	
pH	DETSC 2008#		pH	8.4	8.0	11.1
Calorific Value	DETSC 5008	1	MJ/kg		13.5	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	2.0	2.5	0.2
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6	< 0.6	< 0.6
Organic matter	DETSC 2002#	0.1	%	3.2	12	1.9
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	35	61	310
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	< 0.75	0.92

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665135	1665136	1665137
				PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP17	PRAIRIE_AUK_BH10
			Sample ID	5_SO_0180	8_SO_0080	6_SO_0550
			Depth	1.80	0.80	5.50
			Other ID	6	3	1
			Sample Type	ES	ES	ES
			Sampling Date	06/04/2020	06/04/2020	06/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	0.37	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	7.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	31	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	39	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	0.48	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	0.24	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	0.64	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	85	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	310	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	160	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	96	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	650	< 10	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	690	< 10	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	1200	< 10	< 10
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	440	0.06	0.11
Acenaphthylene	DETSC 3303#	0.03	mg/kg	31	0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	340	0.09	0.13
Fluorene	DETSC 3303	0.03	mg/kg	220	0.09	0.12
Phenanthrene	DETSC 3303#	0.03	mg/kg	290	0.12	0.22
Anthracene	DETSC 3303	0.03	mg/kg	53	< 0.03	0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	87	0.11	0.13
Pyrene	DETSC 3303#	0.03	mg/kg	62	0.08	0.10
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	27	0.07	0.05
Chrysene	DETSC 3303	0.03	mg/kg	23	0.06	0.05
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	23	0.06	0.05
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	10	< 0.03	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	20	0.04	0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	8.6	< 0.03	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	2.5	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	10	< 0.03	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	1700	0.76	0.97

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665135	1665136	1665137
			Sample ID	PRAIRIE_AUK_TP17 5_SO_0180	PRAIRIE_AUK_TP17 8_SO_0080	PRAIRIE_AUK_BH10 6_SO_0550
			Depth	1.80	0.80	5.50
			Other ID	6	3	1
			Sample Type	ES	ES	ES
			Sampling Date	06/04/2020	06/04/2020	06/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg			
PCB 52	DETSC 3401#	0.01	mg/kg			
PCB 101	DETSC 3401#	0.01	mg/kg			
PCB 118	DETSC 3401#	0.01	mg/kg			
PCB 153	DETSC 3401#	0.01	mg/kg			
PCB 138	DETSC 3401#	0.01	mg/kg			
PCB 180	DETSC 3401#	0.01	mg/kg			
PCB 7 Total	DETSC 3401#	0.01	mg/kg			
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	3.9	0.5	< 0.3

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665138	1665139	1665140
				PRAIRIE_AUK_TP10	PRAIRIE_AUK_TP10	PRAIRIE_AUK_TP10
			Sample ID	7_SO_0180	7_SO_0080	8_SO_0100
			Depth	1.80	0.80	1.00
			Other ID	6	11	5
			Sample Type	ES	ES	ES
			Sampling Date	06/04/2020	06/04/2020	06/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Asbestos Quantification	DETSC 1102	0.001	%			0.001
Metals						
Aluminium	DETSC 2301*	1	mg/kg	12000	12000	23000
Antimony	DETSC 2301*	1	mg/kg	4.8	< 1.0	5.3
Arsenic	DETSC 2301#	0.2	mg/kg	33	9.2	11
Barium	DETSC 2301#	1.5	mg/kg	270	290	650
Beryllium	DETSC 2301#	0.2	mg/kg	2.6	1.2	2.3
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.3	2.6	1.5
Cadmium	DETSC 2301#	0.1	mg/kg	1.4	0.2	1.5
Chromium	DETSC 2301#	0.15	mg/kg	90	25	340
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	120	23	40
Iron	DETSC 2301	25	mg/kg	87000	33000	57000
Lead	DETSC 2301#	0.3	mg/kg	120	36	120
Magnesium	DETSC 2301*	1	mg/kg	7400	3800	21000
Manganese	DETSC 2301#	20	mg/kg	3200	440	14000
Mercury	DETSC 2325#	0.05	mg/kg	0.07	< 0.05	0.06
Molybdenum	DETSC 2301#	0.4	mg/kg	4.0	0.7	3.5
Nickel	DETSC 2301#	1	mg/kg	58	30	16
Silicon	DETSC 2301*	10	mg/kg	50000	190000	54000
Vanadium	DETSC 2301#	0.8	mg/kg	280	40	950
Zinc	DETSC 2301#	1	mg/kg	350	98	230
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			8.1
pH	DETSC 2008#		pH	9.7	8.6	11.7
Calorific Value	DETSC 5008	1	MJ/kg			< 1.0
Cyanide, Total	DETSC 2130#	0.1	mg/kg	1.6	22	0.5
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6	< 0.6	< 0.6
Organic matter	DETSC 2002#	0.1	%	13	1.2	1.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	200	270	330
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	< 0.75	5.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665138	1665139	1665140
				PRAIRIE_AUK_TP10	PRAIRIE_AUK_TP10	PRAIRIE_AUK_TP10
			Sample ID	7_SO_0180	7_SO_0080	8_SO_0100
			Depth	1.80	0.80	1.00
			Other ID	6	11	5
			Sample Type	ES	ES	ES
			Sampling Date	06/04/2020	06/04/2020	06/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	31
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	32
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	5.1
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	67
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	72
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	< 10	100
EPH (C10-C40)	DETSC 3311#	10	mg/kg	< 10	< 10	420
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	0.06	0.23	0.06
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.04	0.06	0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.07	0.14	0.15
Fluorene	DETSC 3303	0.03	mg/kg	0.06	0.17	0.13
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.42	0.44	1.3
Anthracene	DETSC 3303	0.03	mg/kg	0.08	0.07	0.30
Fluoranthene	DETSC 3303#	0.03	mg/kg	1.2	0.57	4.1
Pyrene	DETSC 3303#	0.03	mg/kg	1.1	0.46	4.2
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.71	0.26	3.3
Chrysene	DETSC 3303	0.03	mg/kg	0.66	0.28	2.1
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	1.0	0.32	4.0
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.41	0.13	1.8
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.54	0.21	2.4
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.31	0.10	1.1
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.10	< 0.03	0.28
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.35	0.11	1.3
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	7.1	3.5	26

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665138	1665139	1665140
			Sample ID	PRAIRIE_AUK_TP107_SO_0180	PRAIRIE_AUK_TP107_SO_0080	PRAIRIE_AUK_TP108_SO_0100
			Depth	1.80	0.80	1.00
			Other ID	6	11	5
			Sample Type	ES	ES	ES
			Sampling Date	06/04/2020	06/04/2020	06/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg			
PCB 52	DETSC 3401#	0.01	mg/kg			
PCB 101	DETSC 3401#	0.01	mg/kg			
PCB 118	DETSC 3401#	0.01	mg/kg			
PCB 153	DETSC 3401#	0.01	mg/kg			
PCB 138	DETSC 3401#	0.01	mg/kg			
PCB 180	DETSC 3401#	0.01	mg/kg			
PCB 7 Total	DETSC 3401#	0.01	mg/kg			
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665141	1665142	1665286
				PRAIRIE_AUK_TP10	PRAIRIE_AUK_TP11	PRAIRIE_AUK_BH10
			Sample ID	8_SO_0200	3_SO_0130	3_SO_0250
			Depth	2.00	1.30	2.50
			Other ID	8	5	1
			Sample Type	ES	ES	ES
			Sampling Date	06/04/2020	06/04/2020	08/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Asbestos Quantification	DETSC 1102	0.001	%	0.002	0.006	
Metals						
Aluminium	DETSC 2301*	1	mg/kg	10000	21000	14000
Antimony	DETSC 2301*	1	mg/kg	11	4.5	1.5
Arsenic	DETSC 2301#	0.2	mg/kg	31	18	11
Barium	DETSC 2301#	1.5	mg/kg	830	320	270
Beryllium	DETSC 2301#	0.2	mg/kg	1.0	2.7	1.4
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.9	4.3	1.7
Cadmium	DETSC 2301#	0.1	mg/kg	5.8	1.3	0.3
Chromium	DETSC 2301#	0.15	mg/kg	620	150	30
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	89	72	39
Iron	DETSC 2301	25	mg/kg	100000	75000	42000
Lead	DETSC 2301#	0.3	mg/kg	320	140	50
Magnesium	DETSC 2301*	1	mg/kg	23000	18000	9500
Manganese	DETSC 2301#	20	mg/kg	16000	7800	1200
Mercury	DETSC 2325#	0.05	mg/kg	0.06	0.08	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	6.7	2.3	0.8
Nickel	DETSC 2301#	1	mg/kg	40	24	34
Silicon	DETSC 2301*	10	mg/kg	49000	63000	160000
Vanadium	DETSC 2301#	0.8	mg/kg	1600	280	47
Zinc	DETSC 2301#	1	mg/kg	520	280	130
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	4.8		
pH	DETSC 2008#		pH	11.9	11.3	9.7
Calorific Value	DETSC 5008	1	MJ/kg	< 1.0		
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.7	5.9	0.5
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6	< 0.6	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.9	4.0	3.7
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	160	320	470
Sulphur (free)	DETSC 3049#	0.75	mg/kg	3.5	2.3	3.4

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665141	1665142	1665286
				PRAIRIE_AUK_TP10	PRAIRIE_AUK_TP11	PRAIRIE_AUK_BH10
			Sample ID	8_SO_0200	3_SO_0130	3_SO_0250
			Depth	2.00	1.30	2.50
			Other ID	8	5	1
			Sample Type	ES	ES	ES
			Sampling Date	06/04/2020	06/04/2020	08/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	13	46	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	14	46	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	1.6	0.8	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	7.9	7.1	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	36	76	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	46	84	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	60	130	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	180	230	< 10
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	0.20	0.21	0.29
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.56	0.15	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.48	0.13	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	0.94	0.23	0.04
Phenanthrene	DETSC 3303#	0.03	mg/kg	4.2	1.8	0.12
Anthracene	DETSC 3303	0.03	mg/kg	1.9	0.52	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	9.7	5.0	0.10
Pyrene	DETSC 3303#	0.03	mg/kg	8.6	6.0	0.07
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	7.8	3.0	0.03
Chrysene	DETSC 3303	0.03	mg/kg	4.8	2.3	0.04
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	12	3.1	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	6.2	1.2	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	8.4	2.3	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	3.1	0.79	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.72	0.23	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	2.9	1.0	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	73	28	0.62

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

	Lab No	1665141	1665142	1665286
	Sample ID	PRAIRIE_AUK_TP10 8_SO_0200	PRAIRIE_AUK_TP11 3_SO_0130	PRAIRIE_AUK_BH10 3_SO_0250
	Depth	2.00	1.30	2.50
	Other ID	8	5	1
	Sample Type	ES	ES	ES
	Sampling Date	06/04/2020	06/04/2020	08/04/2020
	Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**	
PCBs				
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg	
PCB 52	DETSC 3401#	0.01	mg/kg	
PCB 101	DETSC 3401#	0.01	mg/kg	
PCB 118	DETSC 3401#	0.01	mg/kg	
PCB 153	DETSC 3401#	0.01	mg/kg	
PCB 138	DETSC 3401#	0.01	mg/kg	
PCB 180	DETSC 3401#	0.01	mg/kg	
PCB 7 Total	DETSC 3401#	0.01	mg/kg	
Phenols				
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	0.4

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665288	1665290	1665291
				PRAIRIE_AUK_TP11	PRAIRIE_AUK_TP12	PRAIRIE_AUK_TP12
			Sample ID	5_SO_0190	2_SO_0100	3_SO_0060
			Depth	1.90	1.00	0.60
			Other ID	6	3	3
			Sample Type	ES	ES	ES
			Sampling Date	08/04/2020	08/04/2020	08/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Asbestos Quantification	DETSC 1102	0.001	%		0.002	
Metals						
Aluminium	DETSC 2301*	1	mg/kg	35000	10000	16000
Antimony	DETSC 2301*	1	mg/kg	1.4	6.6	5.0
Arsenic	DETSC 2301#	0.2	mg/kg	4.2	10	14
Barium	DETSC 2301#	1.5	mg/kg	370	160	240
Beryllium	DETSC 2301#	0.2	mg/kg	3.9	1.2	1.2
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	4.4	2.0	3.7
Cadmium	DETSC 2301#	0.1	mg/kg	< 0.1	2.6	0.5
Chromium	DETSC 2301#	0.15	mg/kg	66	85	190
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	10	170	68
Iron	DETSC 2301	25	mg/kg	14000	180000	86000
Lead	DETSC 2301#	0.3	mg/kg	4.6	91	56
Magnesium	DETSC 2301*	1	mg/kg	33000	6000	16000
Manganese	DETSC 2301#	20	mg/kg	4100	2400	9400
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	< 0.05	0.29
Molybdenum	DETSC 2301#	0.4	mg/kg	0.4	12	3.2
Nickel	DETSC 2301#	1	mg/kg	2.9	65	19
Silicon	DETSC 2301*	10	mg/kg	77000	39000	95000
Vanadium	DETSC 2301#	0.8	mg/kg	230	71	360
Zinc	DETSC 2301#	1	mg/kg	33	3000	200
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%		2.1	
pH	DETSC 2008#		pH	11.4	11.2	11.9
Calorific Value	DETSC 5008	1	MJ/kg		< 1.0	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	1.6	9.5	29
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.8	< 0.6	6.3
Organic matter	DETSC 2002#	0.1	%	0.8	1.5	2.1
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	400	230	170
Sulphur (free)	DETSC 3049#	0.75	mg/kg	4.5	< 0.75	7.9

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665288	1665290	1665291
				PRAIRIE_AUK_TP11	PRAIRIE_AUK_TP12	PRAIRIE_AUK_TP12
			Sample ID	5_SO_0190	2_SO_0100	3_SO_0060
			Depth	1.90	1.00	0.60
			Other ID	6	3	3
			Sample Type	ES	ES	ES
			Sampling Date	08/04/2020	08/04/2020	08/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	40
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	290
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	24	190
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	24	520
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	16
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	99
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	100
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	220
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	24	730
EPH (C10-C40)	DETSC 3311#	10	mg/kg	< 10	120	1500
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.30
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.30
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.30
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.30
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.05	0.08	0.48
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.30
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.11	0.11	0.92
Pyrene	DETSC 3303#	0.03	mg/kg	0.09	0.09	0.72
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.05	0.04	0.56
Chrysene	DETSC 3303	0.03	mg/kg	0.05	0.06	0.50
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.05	0.06	0.53
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.03	< 0.30
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.30
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	0.03	0.36
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.30
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.30
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	0.39	0.44	< 3.37

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

	Lab No	1665288	1665290	1665291
	Sample ID	PRAIRIE_AUK_TP11 5_SO_0190	PRAIRIE_AUK_TP12 2_SO_0100	PRAIRIE_AUK_TP12 3_SO_0060
	Depth	1.90	1.00	0.60
	Other ID	6	3	3
	Sample Type	ES	ES	ES
	Sampling Date	08/04/2020	08/04/2020	08/04/2020
	Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**	
PCBs				
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg	< 0.01
PCB 52	DETSC 3401#	0.01	mg/kg	< 0.01
PCB 101	DETSC 3401#	0.01	mg/kg	< 0.01
PCB 118	DETSC 3401#	0.01	mg/kg	< 0.01
PCB 153	DETSC 3401#	0.01	mg/kg	< 0.01
PCB 138	DETSC 3401#	0.01	mg/kg	< 0.01
PCB 180	DETSC 3401#	0.01	mg/kg	< 0.01
PCB 7 Total	DETSC 3401#	0.01	mg/kg	< 0.01
Phenols				
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

	Lab No	1665292	1665293	1665295
	Sample ID	PRAIRIE_AUK_TP18 5_SO_0430	PRAIRIE_AUK_TP18 6_SO_0050	PRAIRIE_AUK_TP18 8_SO_0100
	Depth	4.30	0.50	1.00
	Other ID	5	3	3
	Sample Type	ES	ES	ES
	Sampling Date	08/04/2020	07/04/2020	08/04/2020
	Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	11000	15000	11000
Antimony	DETSC 2301*	1	mg/kg	1.3	4.7	3.9
Arsenic	DETSC 2301#	0.2	mg/kg	8.1	150	28
Barium	DETSC 2301#	1.5	mg/kg	220	340	270
Beryllium	DETSC 2301#	0.2	mg/kg	0.9	1.4	1.1
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.6	1.0	2.4
Cadmium	DETSC 2301#	0.1	mg/kg	0.3	3.7	0.2
Chromium	DETSC 2301#	0.15	mg/kg	23	55	69
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	32	100	53
Iron	DETSC 2301	25	mg/kg	42000	78000	60000
Lead	DETSC 2301#	0.3	mg/kg	23	68	26
Magnesium	DETSC 2301*	1	mg/kg	7500	8400	7100
Manganese	DETSC 2301#	20	mg/kg	490	75000	21000
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	0.60	0.11
Molybdenum	DETSC 2301#	0.4	mg/kg	0.8	38	2.5
Nickel	DETSC 2301#	1	mg/kg	31	46	27
Silicon	DETSC 2301*	10	mg/kg	170000	14000	48000
Vanadium	DETSC 2301#	0.8	mg/kg	28	240	150
Zinc	DETSC 2301#	1	mg/kg	160	150	81
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	4.4		13
pH	DETSC 2008#		pH	8.4	10.7	10.6
Calorific Value	DETSC 5008	1	MJ/kg	< 1.0		12.0
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.5	19	2.6
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	0.5	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6	< 0.6	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.9	3.0	5.0
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	120	270	220
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	2.7	2.1

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665292	1665293	1665295
				PRAIRIE_AUK_TP18	PRAIRIE_AUK_TP18	PRAIRIE_AUK_TP18
			Sample ID	5_SO_0430	6_SO_0050	8_SO_0100
			Depth	4.30	0.50	1.00
			Other ID	5	3	3
			Sample Type	ES	ES	ES
			Sampling Date	08/04/2020	07/04/2020	08/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	1.6	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	5.2	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	8.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	16	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	16	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	< 10	130	140
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	0.61	0.31
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	0.59	0.17
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.40	0.13
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	0.42	0.20
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03	2.5	2.6
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	1.3	0.67
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	6.5	4.2
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	5.7	3.2
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	2.7	1.4
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03	2.2	1.2
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	3.0	1.3
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	1.3	0.57
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	2.1	0.79
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	0.93	0.27
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	0.25	0.10
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	1.1	0.33
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10	31	17

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665292	1665293	1665295
			Sample ID	PRAIRIE_AUK_TP18 5_SO_0430	PRAIRIE_AUK_TP18 6_SO_0050	PRAIRIE_AUK_TP18 8_SO_0100
			Depth	4.30	0.50	1.00
			Other ID	5	3	3
			Sample Type	ES	ES	ES
			Sampling Date	08/04/2020	07/04/2020	08/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg			
PCB 52	DETSC 3401#	0.01	mg/kg			
PCB 101	DETSC 3401#	0.01	mg/kg			
PCB 118	DETSC 3401#	0.01	mg/kg			
PCB 153	DETSC 3401#	0.01	mg/kg			
PCB 138	DETSC 3401#	0.01	mg/kg			
PCB 180	DETSC 3401#	0.01	mg/kg			
PCB 7 Total	DETSC 3401#	0.01	mg/kg			
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665450	1665451	1665452
				PRARIE_AUK_TP121	PRARIE_AUK_TP138	PRARIE_AUK_TP149
			Sample ID	_SO_0150	_SO_0120	_SO_0130
			Depth	1.50	1.20	1.30
			Other ID	4	3	3
			Sample Type	ES	ES	ES
			Sampling Date	09/04/2020	09/04/2020	09/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Asbestos Quantification	DETSC 1102	0.001	%		0.020	< 0.001
Metals						
Aluminium	DETSC 2301*	1	mg/kg	8100	12000	8600
Antimony	DETSC 2301*	1	mg/kg	11	3.2	2.5
Arsenic	DETSC 2301#	0.2	mg/kg	1.6	15	37
Barium	DETSC 2301#	1.5	mg/kg	210	200	1100
Beryllium	DETSC 2301#	0.2	mg/kg	0.4	0.8	1.1
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	3.6	2.1	2.5
Cadmium	DETSC 2301#	0.1	mg/kg	0.2	0.5	0.7
Chromium	DETSC 2301#	0.15	mg/kg	750	150	33
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	21	26	110
Iron	DETSC 2301	25	mg/kg	180000	47000	48000
Lead	DETSC 2301#	0.3	mg/kg	14	53	180
Magnesium	DETSC 2301*	1	mg/kg	32000	12000	8000
Manganese	DETSC 2301#	20	mg/kg	37000	5100	2000
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	2.1	1.4
Molybdenum	DETSC 2301#	0.4	mg/kg	3.6	2.0	2.6
Nickel	DETSC 2301#	1	mg/kg	3.6	13	27
Silicon	DETSC 2301*	10	mg/kg	38000	88000	46000
Vanadium	DETSC 2301#	0.8	mg/kg	1700	140	90
Zinc	DETSC 2301#	1	mg/kg	56	160	350
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	12.1	11.5	10.3
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	23	9.9	11
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	0.3	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	1.2	0.7	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.5	1.3	2.8
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	32	150	290
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	2.4	1.5

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

				Lab No	1665450	1665451	1665452
				Sample ID	PRARIE_AUK_TP121 _SO_0150	PRARIE_AUK_TP138 _SO_0120	PRARIE_AUK_TP149 _SO_0130
				Depth	1.50	1.20	1.30
				Other ID	4	3	3
				Sample Type	ES	ES	ES
				Sampling Date	09/04/2020	09/04/2020	09/04/2020
				Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
Petroleum Hydrocarbons							
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	11	12
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	13	13
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	7.9	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	30	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	38	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	51	13
EPH (C10-C40)	DETSC 3311#	10	mg/kg	< 10	280	96
PAHs							
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	0.04	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.05	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	0.04	0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.10	0.44	0.35
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	0.08	0.06
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.39	2.1	0.87
Pyrene	DETSC 3303#	0.03	mg/kg	0.49	2.1	0.70
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.18	1.4	0.36
Chrysene	DETSC 3303	0.03	mg/kg	0.26	1.2	0.35
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.27	1.8	0.32
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.10	0.78	0.14
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.12	1.2	0.18
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.09	0.58	0.09
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	0.20	0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.09	1.0	0.09
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	2.1	13	3.5

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665450	1665451	1665452
				PRARIE_AUK_TP121	PRARIE_AUK_TP138	PRARIE_AUK_TP149
			Sample ID	_SO_0150	_SO_0120	_SO_0130
			Depth	1.50	1.20	1.30
			Other ID	4	3	3
			Sample Type	ES	ES	ES
			Sampling Date	09/04/2020	09/04/2020	09/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg		< 0.01	
PCB 52	DETSC 3401#	0.01	mg/kg		0.26	
PCB 101	DETSC 3401#	0.01	mg/kg		0.44	
PCB 118	DETSC 3401#	0.01	mg/kg		0.40	
PCB 153	DETSC 3401#	0.01	mg/kg		0.24	
PCB 138	DETSC 3401#	0.01	mg/kg		0.40	
PCB 180	DETSC 3401#	0.01	mg/kg		0.05	
PCB 7 Total	DETSC 3401#	0.01	mg/kg		1.8	
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665453	1665454
				PRARIE_AUK_TP168	PRARIE_AUK_TP173
			Sample ID	_SO_0005	_SO_0090
			Depth	0.05	0.90
			Other ID	1	3
			Sample Type	ES	ES
			Sampling Date	09/04/2020	09/04/2020
			Sampling Time	n/s	n/s
Test	**Method**	**LOD**	**Units**		
Asbestos Quantification	DETSC 1102	0.001	%	< 0.001	< 0.001
Metals					
Aluminium	DETSC 2301*	1	mg/kg	19000	21000
Antimony	DETSC 2301*	1	mg/kg	3.9	6.1
Arsenic	DETSC 2301#	0.2	mg/kg	44	78
Barium	DETSC 2301#	1.5	mg/kg	210	210
Beryllium	DETSC 2301#	0.2	mg/kg	2.1	2.5
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.5	3.1
Cadmium	DETSC 2301#	0.1	mg/kg	0.6	0.5
Chromium	DETSC 2301#	0.15	mg/kg	61	93
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	78	320
Iron	DETSC 2301	25	mg/kg	91000	150000
Lead	DETSC 2301#	0.3	mg/kg	93	70
Magnesium	DETSC 2301*	1	mg/kg	10000	7700
Manganese	DETSC 2301#	20	mg/kg	2100	4100
Mercury	DETSC 2325#	0.05	mg/kg	0.15	0.09
Molybdenum	DETSC 2301#	0.4	mg/kg	2.1	5.6
Nickel	DETSC 2301#	1	mg/kg	38	86
Silicon	DETSC 2301*	10	mg/kg	62000	48000
Vanadium	DETSC 2301#	0.8	mg/kg	200	230
Zinc	DETSC 2301#	1	mg/kg	330	380
Inorganics					
Loss on Ignition at 440oC	DETSC 2003#	0.01	%		
pH	DETSC 2008#		pH	9.0	8.7
Calorific Value	DETSC 5008	1	MJ/kg		
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.6	120
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	0.2
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6	1.8
Organic matter	DETSC 2002#	0.1	%	12	8.6
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	77	540
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	2.4

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665453	1665454
				PRARIE_AUK_TP168	PRARIE_AUK_TP173
			Sample ID	_SO_0005	_SO_0090
			Depth	0.05	0.90
			Other ID	1	3
			Sample Type	ES	ES
			Sampling Date	09/04/2020	09/04/2020
			Sampling Time	n/s	n/s
Test	**Method**	**LOD**	**Units**		
Petroleum Hydrocarbons					
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	7.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	< 10	< 10
PAHs					
Naphthalene	DETSC 3303#	0.03	mg/kg	0.06	2.0
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	0.09
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.05	0.57
Fluorene	DETSC 3303	0.03	mg/kg	0.03	0.20
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.28	0.37
Anthracene	DETSC 3303	0.03	mg/kg	0.04	0.05
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.43	0.30
Pyrene	DETSC 3303#	0.03	mg/kg	0.37	0.23
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.18	0.09
Chrysene	DETSC 3303	0.03	mg/kg	0.25	0.14
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.24	0.11
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.10	0.05
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.12	0.05
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.08	0.04
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.09	0.04
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	2.3	4.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665453	1665454
				PRARIE_AUK_TP168	PRARIE_AUK_TP173
			Sample ID	_SO_0005	_SO_0090
			Depth	0.05	0.90
			Other ID	1	3
			Sample Type	ES	ES
			Sampling Date	09/04/2020	09/04/2020
			Sampling Time	n/s	n/s
Test	**Method**	**LOD**	**Units**		
PCBs					
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg		
PCB 52	DETSC 3401#	0.01	mg/kg		
PCB 101	DETSC 3401#	0.01	mg/kg		
PCB 118	DETSC 3401#	0.01	mg/kg		
PCB 153	DETSC 3401#	0.01	mg/kg		
PCB 138	DETSC 3401#	0.01	mg/kg		
PCB 180	DETSC 3401#	0.01	mg/kg		
PCB 7 Total	DETSC 3401#	0.01	mg/kg		
Phenols					
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665455	1665588
				PRARIE_AUK_SURFACE	PRAIRIE_AUK_TP11
			Sample ID	1_SO_0000	4_SO_0090
			Depth		0.90
			Other ID	1	6
			Sample Type	ES	ES
			Sampling Date	09/04/2020	07/04/2020
			Sampling Time	n/s	n/s
Test	**Method**	**LOD**	**Units**		
Asbestos Quantification	DETSC 1102	0.001	%		
Metals					
Aluminium	DETSC 2301*	1	mg/kg	4800	12000
Antimony	DETSC 2301*	1	mg/kg	< 1.0	4.6
Arsenic	DETSC 2301#	0.2	mg/kg	1.8	51
Barium	DETSC 2301#	1.5	mg/kg	130	140
Beryllium	DETSC 2301#	0.2	mg/kg	0.5	1.3
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.9	0.8
Cadmium	DETSC 2301#	0.1	mg/kg	0.1	3.9
Chromium	DETSC 2301#	0.15	mg/kg	1.7	66
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	5.9	110
Iron	DETSC 2301	25	mg/kg	2700	69000
Lead	DETSC 2301#	0.3	mg/kg	10	330
Magnesium	DETSC 2301*	1	mg/kg	4700	3900
Manganese	DETSC 2301#	20	mg/kg	1500	2000
Mercury	DETSC 2325#	0.05	mg/kg	0.22	0.35
Molybdenum	DETSC 2301#	0.4	mg/kg	< 0.4	2.5
Nickel	DETSC 2301#	1	mg/kg	1.6	47
Silicon	DETSC 2301*	10	mg/kg	9500	U/S
Vanadium	DETSC 2301#	0.8	mg/kg	7.9	110
Zinc	DETSC 2301#	1	mg/kg	47	4200
Inorganics					
Loss on Ignition at 440oC	DETSC 2003#	0.01	%		
pH	DETSC 2008#		pH	10.8	8.3
Calorific Value	DETSC 5008	1	MJ/kg		
Cyanide, Total	DETSC 2130#	0.1	mg/kg	21	0.6
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.5	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	6.6	2.2
Organic matter	DETSC 2002#	0.1	%	1.3	2.5
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	670	44
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	13

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665455	1665588
				PRARIE_AUK_SURFACE	PRAIRIE_AUK_TP11
			Sample ID	1_SO_0000	4_SO_0090
			Depth		0.90
			Other ID	1	6
			Sample Type	ES	ES
			Sampling Date	09/04/2020	07/04/2020
			Sampling Time	n/s	n/s
Test	**Method**	**LOD**	**Units**		
Petroleum Hydrocarbons					
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 1.00
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 1.00
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	1.5
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 763.0
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	6.0
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	5.6
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	15
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	130
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	97
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	150
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	83
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	490
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	1300
EPH (C10-C40)	DETSC 3311#	10	mg/kg	< 10	
PAHs					
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	37000
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	5600
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	41
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	6200
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03	22000
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	5700
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	11000
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	9700
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	4600
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03	3600
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	91
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	49
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	92
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	31
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	8.4
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	29
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10	110000

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665455	1665588
				PRARIE_AUK_SURFACE	PRAIRIE_AUK_TP11
			Sample ID	1_SO_0000	4_SO_0090
			Depth		0.90
			Other ID	1	6
			Sample Type	ES	ES
			Sampling Date	09/04/2020	07/04/2020
			Sampling Time	n/s	n/s
Test	**Method**	**LOD**	**Units**		
PCBs					
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg		< 0.05
PCB 52	DETSC 3401#	0.01	mg/kg		< 0.05
PCB 101	DETSC 3401#	0.01	mg/kg		< 0.05
PCB 118	DETSC 3401#	0.01	mg/kg		< 0.05
PCB 153	DETSC 3401#	0.01	mg/kg		< 0.05
PCB 138	DETSC 3401#	0.01	mg/kg		< 0.05
PCB 180	DETSC 3401#	0.01	mg/kg		< 0.05
PCB 7 Total	DETSC 3401#	0.01	mg/kg		< 0.01
Phenols					
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	210

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665589	1665590	1665591
				PRAIRIE_AUK_TP12	PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP17
			Sample ID	4_SO_0150	4_SO_0080	4_SO_0160
			Depth	1.50	0.80	1.60
			Other ID	5	3	6
			Sample Type	ES	ES	ES
			Sampling Date	08/04/2020	08/04/2020	08/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Asbestos Quantification	DETSC 1102	0.001	%	0.002		
Metals						
Aluminium	DETSC 2301*	1	mg/kg	8300	9200	12000
Antimony	DETSC 2301*	1	mg/kg	3.8	5.6	< 1.0
Arsenic	DETSC 2301#	0.2	mg/kg	40	58	6.2
Barium	DETSC 2301#	1.5	mg/kg	350	250	84
Beryllium	DETSC 2301#	0.2	mg/kg	0.8	0.9	0.6
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	7.2	1.4	1.2
Cadmium	DETSC 2301#	0.1	mg/kg	3.1	0.3	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg	48	81	20
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	69	120	17
Iron	DETSC 2301	25	mg/kg	51000	120000	32000
Lead	DETSC 2301#	0.3	mg/kg	90	110	23
Magnesium	DETSC 2301*	1	mg/kg	9900	8600	2300
Manganese	DETSC 2301#	20	mg/kg	23000	99000	370
Mercury	DETSC 2325#	0.05	mg/kg	0.26	0.33	0.06
Molybdenum	DETSC 2301#	0.4	mg/kg	4.0	18	0.6
Nickel	DETSC 2301#	1	mg/kg	32	78	11
Silicon	DETSC 2301*	10	mg/kg	100000	36000	190000
Vanadium	DETSC 2301#	0.8	mg/kg	100	67	27
Zinc	DETSC 2301#	1	mg/kg	340	160	58
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	9.7	8.4	7.2
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	41	5.5	1.0
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.2	0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	1.7	1.3	1.2
Organic matter	DETSC 2002#	0.1	%	1.6	2.4	0.7
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	130	110	190
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	< 0.75	6.8

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665589	1665590	1665591
				PRAIRIE_AUK_TP12	PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP17
			Sample ID	4_SO_0150	4_SO_0080	4_SO_0160
			Depth	1.50	0.80	1.60
			Other ID	5	3	6
			Sample Type	ES	ES	ES
			Sampling Date	08/04/2020	08/04/2020	08/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg			
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	0.05	0.11	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.07	0.27	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.17	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	0.23	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.2	1.7	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	0.22	0.43	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	4.4	3.2	0.05
Pyrene	DETSC 3303#	0.03	mg/kg	3.8	2.6	0.04
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	1.6	0.96	0.03
Chrysene	DETSC 3303	0.03	mg/kg	1.8	0.93	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	1.7	0.92	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.86	0.39	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.66	0.60	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.62	0.30	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.21	0.09	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.72	0.35	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	18	13	< 0.10

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665589	1665590	1665591
				PRAIRIE_AUK_TP12	PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP17
			Sample ID	4_SO_0150	4_SO_0080	4_SO_0160
			Depth	1.50	0.80	1.60
			Other ID	5	3	6
			Sample Type	ES	ES	ES
			Sampling Date	08/04/2020	08/04/2020	08/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg			
PCB 52	DETSC 3401#	0.01	mg/kg			
PCB 101	DETSC 3401#	0.01	mg/kg			
PCB 118	DETSC 3401#	0.01	mg/kg			
PCB 153	DETSC 3401#	0.01	mg/kg			
PCB 138	DETSC 3401#	0.01	mg/kg			
PCB 180	DETSC 3401#	0.01	mg/kg			
PCB 7 Total	DETSC 3401#	0.01	mg/kg			
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

	Lab No	1665592	1665593	1665594
	Sample ID	PRAIRIE_AUK_TP17 6_SO_0090	PRAIRIE_AUK_TP17 7_SO_0060	PRAIRIE_AUK_TP18 9_SO_0300
	Depth	0.90	0.60	3.00
	Other ID	3	2	7
	Sample Type	ES	ES	ES
	Sampling Date	07/04/2020	07/04/2020	07/04/2020
	Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	30000	31000	19000
Antimony	DETSC 2301*	1	mg/kg	3.0	2.8	1.3
Arsenic	DETSC 2301#	0.2	mg/kg	83	37	9.9
Barium	DETSC 2301#	1.5	mg/kg	260	120	260
Beryllium	DETSC 2301#	0.2	mg/kg	3.7	4.0	1.5
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	4.2	2.9	1.0
Cadmium	DETSC 2301#	0.1	mg/kg	0.4	0.2	0.2
Chromium	DETSC 2301#	0.15	mg/kg	58	110	33
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	80	26	30
Iron	DETSC 2301	25	mg/kg	100000	80000	46000
Lead	DETSC 2301#	0.3	mg/kg	61	29	27
Magnesium	DETSC 2301*	1	mg/kg	13000	11000	13000
Manganese	DETSC 2301#	20	mg/kg	1600	1600	830
Mercury	DETSC 2325#	0.05	mg/kg	0.08	< 0.05	0.08
Molybdenum	DETSC 2301#	0.4	mg/kg	3.2	1.2	0.6
Nickel	DETSC 2301#	1	mg/kg	65	32	42
Silicon	DETSC 2301*	10	mg/kg	71000	61000	140000
Vanadium	DETSC 2301#	0.8	mg/kg	190	450	42
Zinc	DETSC 2301#	1	mg/kg	360	260	94
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	8.4	8.7	7.9
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.2	0.4	< 0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.8	0.8	< 0.6
Organic matter	DETSC 2002#	0.1	%	3.2	2.9	0.8
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	170	83	350
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	< 0.75	< 0.75

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665592	1665593	1665594
				PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP18
			Sample ID	6_SO_0090	7_SO_0060	9_SO_0300
			Depth	0.90	0.60	3.00
			Other ID	3	2	7
			Sample Type	ES	ES	ES
			Sampling Date	07/04/2020	07/04/2020	07/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	7.3	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg			
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	0.04	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.05	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	0.04	< 0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.17	0.06	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	0.06	< 0.03	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.67	0.14	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	0.62	0.16	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.10	0.05	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	0.15	0.08	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.06	0.05	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.03	< 0.03	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	2.0	0.53	< 0.10

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665592	1665593	1665594
			Sample ID	PRAIRIE_AUK_TP176_SO_0090	PRAIRIE_AUK_TP177_SO_0060	PRAIRIE_AUK_TP189_SO_0300
			Depth	0.90	0.60	3.00
			Other ID	3	2	7
			Sample Type	ES	ES	ES
			Sampling Date	07/04/2020	07/04/2020	07/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg			
PCB 52	DETSC 3401#	0.01	mg/kg			
PCB 101	DETSC 3401#	0.01	mg/kg			
PCB 118	DETSC 3401#	0.01	mg/kg			
PCB 153	DETSC 3401#	0.01	mg/kg			
PCB 138	DETSC 3401#	0.01	mg/kg			
PCB 180	DETSC 3401#	0.01	mg/kg			
PCB 7 Total	DETSC 3401#	0.01	mg/kg			
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	0.8	0.9	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665610	1665611	1665612
				PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP18
			Sample ID	9_SO_0140	9_SO_0200	1_SO_0060
			Depth	1.40	2.00	0.60
			Other ID	4	7	3
			Sample Type	ES	ES	ES
			Sampling Date	09/04/2020	09/04/2020	09/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Asbestos Quantification	DETSC 1102	0.001	%			
Metals						
Aluminium	DETSC 2301*	1	mg/kg	39000	15000	18000
Antimony	DETSC 2301*	1	mg/kg	4.6	1.3	4.7
Arsenic	DETSC 2301#	0.2	mg/kg	88	9.3	45
Barium	DETSC 2301#	1.5	mg/kg	79	190	280
Beryllium	DETSC 2301#	0.2	mg/kg	4.0	1.7	2.5
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.3	1.5	1.5
Cadmium	DETSC 2301#	0.1	mg/kg	0.2	0.1	0.5
Chromium	DETSC 2301#	0.15	mg/kg	120	29	23
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	32	29	130
Iron	DETSC 2301	25	mg/kg	160000	39000	41000
Lead	DETSC 2301#	0.3	mg/kg	27	34	380
Magnesium	DETSC 2301*	1	mg/kg	11000	4000	6400
Manganese	DETSC 2301#	20	mg/kg	1200	320	12000
Mercury	DETSC 2325#	0.05	mg/kg	0.32	0.05	0.10
Molybdenum	DETSC 2301#	0.4	mg/kg	2.1	0.5	2.6
Nickel	DETSC 2301#	1	mg/kg	98	30	23
Silicon	DETSC 2301*	10	mg/kg	100000	190000	56000
Vanadium	DETSC 2301#	0.8	mg/kg	360	33	83
Zinc	DETSC 2301#	1	mg/kg	200	99	210
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	7.5	7.6	8.6
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	120	4.8	20
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.3	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	2.1	< 0.6	0.9
Organic matter	DETSC 2002#	0.1	%	4.4	1.8	6.1
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	900	490	220
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	< 0.75	60

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665610	1665611	1665612
				PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP18
			Sample ID	9_SO_0140	9_SO_0200	1_SO_0060
			Depth	1.40	2.00	0.60
			Other ID	4	7	3
			Sample Type	ES	ES	ES
			Sampling Date	09/04/2020	09/04/2020	09/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	0.03	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	0.71	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	27	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	150	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	31	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	9.7	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	220	< 10	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	220	< 10	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg			
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	190	2.5	0.27
Acenaphthylene	DETSC 3303#	0.03	mg/kg	13	0.07	0.23
Acenaphthene	DETSC 3303#	0.03	mg/kg	200	1.0	1.5
Fluorene	DETSC 3303	0.03	mg/kg	100	0.47	1.1
Phenanthrene	DETSC 3303#	0.03	mg/kg	65	0.33	1.2
Anthracene	DETSC 3303	0.03	mg/kg	18	0.09	0.31
Fluoranthene	DETSC 3303#	0.03	mg/kg	12	0.08	0.56
Pyrene	DETSC 3303#	0.03	mg/kg	8.2	0.05	0.42
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	1.7	< 0.03	0.12
Chrysene	DETSC 3303	0.03	mg/kg	1.5	< 0.03	0.16
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.74	< 0.03	0.13
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.31	< 0.03	0.06
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.59	< 0.03	0.07
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.17	< 0.03	0.06
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.05	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.19	< 0.03	0.06
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	610	4.6	6.2

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665610	1665611	1665612
				PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP18
			Sample ID	9_SO_0140	9_SO_0200	1_SO_0060
			Depth	1.40	2.00	0.60
			Other ID	4	7	3
			Sample Type	ES	ES	ES
			Sampling Date	09/04/2020	09/04/2020	09/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg			
PCB 52	DETSC 3401#	0.01	mg/kg			
PCB 101	DETSC 3401#	0.01	mg/kg			
PCB 118	DETSC 3401#	0.01	mg/kg			
PCB 153	DETSC 3401#	0.01	mg/kg			
PCB 138	DETSC 3401#	0.01	mg/kg			
PCB 180	DETSC 3401#	0.01	mg/kg			
PCB 7 Total	DETSC 3401#	0.01	mg/kg			
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	1.6	0.6	1.0

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665613	1665990	1665991
				PRAIRIE_AUK_TP18	PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP146
			Sample ID	2_SO_0090	5_SO_0160	C_SO_0130
			Depth	0.90	1.60	1.30
			Other ID	3	4	5
			Sample Type	ES	ES	ES
			Sampling Date	09/04/2020	14/04/2020	14/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Asbestos Quantification	DETSC 1102	0.001	%			
Metals						
Aluminium	DETSC 2301*	1	mg/kg	21000	11000	16000
Antimony	DETSC 2301*	1	mg/kg	2.5	69	9.5
Arsenic	DETSC 2301#	0.2	mg/kg	33	64	14
Barium	DETSC 2301#	1.5	mg/kg	82	560	250
Beryllium	DETSC 2301#	0.2	mg/kg	3.0	1.9	1.9
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.4	2.5	3.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.2	0.8	1.0
Chromium	DETSC 2301#	0.15	mg/kg	51	120	19
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	23	20000	420
Iron	DETSC 2301	25	mg/kg	87000	45000	35000
Lead	DETSC 2301#	0.3	mg/kg	23	1200	210
Magnesium	DETSC 2301*	1	mg/kg	7000	11000	9000
Manganese	DETSC 2301#	20	mg/kg	1000	4900	1700
Mercury	DETSC 2325#	0.05	mg/kg	0.75	0.19	0.17
Molybdenum	DETSC 2301#	0.4	mg/kg	0.8	2.9	1.0
Nickel	DETSC 2301#	1	mg/kg	28	41	17
Silicon	DETSC 2301*	10	mg/kg	73000	23000	69000
Vanadium	DETSC 2301#	0.8	mg/kg	150	240	57
Zinc	DETSC 2301#	1	mg/kg	130	1500	350
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	8.0	11.2	9.6
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	3300	1.3	13
Cyanide, Free	DETSC 2130#	0.1	mg/kg	4.5	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	69	< 0.6	0.7
Organic matter	DETSC 2002#	0.1	%	7.0	2.8	5.8
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	650	200	590
Sulphur (free)	DETSC 3049#	0.75	mg/kg	26	< 0.75	5.2

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

				Lab No	1665613	1665990	1665991
				Sample ID	PRAIRIE_AUK_TP182_SO_0090	PRAIRIE_AUK_TP145_SO_0160	PRAIRIE_AUK_TP146C_SO_0130
				Depth	0.90	1.60	1.30
				Other ID	3	4	5
				Sample Type	ES	ES	ES
				Sampling Date	09/04/2020	14/04/2020	14/04/2020
				Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
Petroleum Hydrocarbons							
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg		0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg		0.25	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg		6.3	< 1.5	6.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg		42	< 1.2	16
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg		49	< 1.5	45
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg		3.6	< 3.4	99
Aliphatic C5-C35	DETSC 3072*	10	mg/kg		100	< 10	170
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg		0.04	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg		0.31	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg		13	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg		1700	< 0.9	1.3
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg		2500	< 0.5	1.6
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg		370	< 0.6	13
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg		82	< 1.4	55
Aromatic C5-C35	DETSC 3072*	10	mg/kg		4600	< 10	71
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg		4700	< 10	240
EPH (C10-C40)	DETSC 3311#	10	mg/kg				
PAHs							
Naphthalene	DETSC 3303#	0.03	mg/kg		3500	0.06	0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg		1300	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg		1300	0.04	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg		730	0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg		500	0.37	0.32
Anthracene	DETSC 3303	0.03	mg/kg		130	0.09	0.07
Fluoranthene	DETSC 3303#	0.03	mg/kg		120	1.5	1.0
Pyrene	DETSC 3303#	0.03	mg/kg		80	1.4	0.91
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg		6.9	0.61	0.43
Chrysene	DETSC 3303	0.03	mg/kg		5.2	0.61	0.40
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg		3.1	0.92	0.44
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg		1.6	0.30	0.19
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg		2.1	0.47	0.30
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg		0.66	0.21	0.12
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg		0.20	0.06	0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg		0.71	0.30	0.16
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg		7700	7.0	4.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665613	1665990	1665991
			Sample ID	PRAIRIE_AUK_TP182_SO_0090	PRAIRIE_AUK_TP145_SO_0160	PRAIRIE_AUK_TP146C_SO_0130
			Depth	0.90	1.60	1.30
			Other ID	3	4	5
			Sample Type	ES	ES	ES
			Sampling Date	09/04/2020	14/04/2020	14/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg			< 0.01
PCB 52	DETSC 3401#	0.01	mg/kg			< 0.01
PCB 101	DETSC 3401#	0.01	mg/kg			< 0.01
PCB 118	DETSC 3401#	0.01	mg/kg			< 0.01
PCB 153	DETSC 3401#	0.01	mg/kg			< 0.01
PCB 138	DETSC 3401#	0.01	mg/kg			< 0.01
PCB 180	DETSC 3401#	0.01	mg/kg			< 0.01
PCB 7 Total	DETSC 3401#	0.01	mg/kg			< 0.01
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	9.0	< 0.3	< 0.3

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665992	1665993	1665994
				PRAIRIE_AUK_TP156	PRAIRIE_AUK_TP16	PRAIRIE_AUK_TP18
			Sample ID	A_SO_0030	2_SO_0170	0_SO_0030
			Depth	0.30	1.70	0.30
			Other ID	2	3A	3
			Sample Type	ES	ES	ES
			Sampling Date	14/04/2020	14/04/2020	14/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Asbestos Quantification	DETSC 1102	0.001	%	0.001		
Metals						
Aluminium	DETSC 2301*	1	mg/kg	26000	16000	15000
Antimony	DETSC 2301*	1	mg/kg	6.5	18	5.6
Arsenic	DETSC 2301#	0.2	mg/kg	31	2100	12
Barium	DETSC 2301#	1.5	mg/kg	540	320	270
Beryllium	DETSC 2301#	0.2	mg/kg	2.6	2.3	1.5
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.5	2.2	2.4
Cadmium	DETSC 2301#	0.1	mg/kg	0.7	1.7	0.7
Chromium	DETSC 2301#	0.15	mg/kg	170	100	310
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	110	190	31
Iron	DETSC 2301	25	mg/kg	140000	360000	99000
Lead	DETSC 2301#	0.3	mg/kg	110	870	94
Magnesium	DETSC 2301*	1	mg/kg	17000	3500	23000
Manganese	DETSC 2301#	20	mg/kg	6100	2800	28000
Mercury	DETSC 2325#	0.05	mg/kg	0.69	0.73	0.47
Molybdenum	DETSC 2301#	0.4	mg/kg	2.2	73	2.8
Nickel	DETSC 2301#	1	mg/kg	40	160	16
Silicon	DETSC 2301*	10	mg/kg	43000	53000	67000
Vanadium	DETSC 2301#	0.8	mg/kg	700	310	1200
Zinc	DETSC 2301#	1	mg/kg	310	630	270
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	10.6	8.2	11.5
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	12	3.6	2.3
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6	< 0.6	< 0.6
Organic matter	DETSC 2002#	0.1	%	3.2	3.4	3.3
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	280	110	110
Sulphur (free)	DETSC 3049#	0.75	mg/kg	1.2	< 0.75	1.4

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665992	1665993	1665994
				PRAIRIE_AUK_TP156	PRAIRIE_AUK_TP16	PRAIRIE_AUK_TP18
			Sample ID	A_SO_0030	2_SO_0170	0_SO_0030
			Depth	0.30	1.70	0.30
			Other ID	2	3A	3
			Sample Type	ES	ES	ES
			Sampling Date	14/04/2020	14/04/2020	14/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	4.2	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	5.1	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	0.7	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	10	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	10	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg			
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	0.05	< 0.03	0.24
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.03	< 0.03	0.06
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.11
Fluorene	DETSC 3303	0.03	mg/kg	0.03	< 0.03	0.09
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.63	< 0.03	1.8
Anthracene	DETSC 3303	0.03	mg/kg	0.17	< 0.03	0.79
Fluoranthene	DETSC 3303#	0.03	mg/kg	3.0	0.03	2.2
Pyrene	DETSC 3303#	0.03	mg/kg	3.0	0.03	2.0
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	1.6	0.03	0.82
Chrysene	DETSC 3303	0.03	mg/kg	1.3	< 0.03	0.90
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	2.0	< 0.03	0.86
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.79	< 0.03	0.37
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	1.2	< 0.03	0.43
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.58	< 0.03	0.19
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.15	< 0.03	0.06
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.77	< 0.03	0.27
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	15	< 0.10	11

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665992	1665993	1665994
			Sample ID	PRAIRIE_AUK_TP156A_SO_0030	PRAIRIE_AUK_TP162_SO_0170	PRAIRIE_AUK_TP180_SO_0030
			Depth	0.30	1.70	0.30
			Other ID	2	3A	3
			Sample Type	ES	ES	ES
			Sampling Date	14/04/2020	14/04/2020	14/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg			
PCB 52	DETSC 3401#	0.01	mg/kg			
PCB 101	DETSC 3401#	0.01	mg/kg			
PCB 118	DETSC 3401#	0.01	mg/kg			
PCB 153	DETSC 3401#	0.01	mg/kg			
PCB 138	DETSC 3401#	0.01	mg/kg			
PCB 180	DETSC 3401#	0.01	mg/kg			
PCB 7 Total	DETSC 3401#	0.01	mg/kg			
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665995	1666343	1666344
				PRAIRIE_AUK_TP16	PRAIRIE_AUK_TP13	PRAIRIE_AUK_TP13
			Sample ID	3_SO_0120	5_SO_0130	6_SO_0080
			Depth	1.20	1.30	0.80
			Other ID	3	5	3
			Sample Type	ES	ES	ES
			Sampling Date	14/04/2020	15/04/2020	15/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Asbestos Quantification	DETSC 1102	0.001	%	< 0.001	< 0.001	
Metals						
Aluminium	DETSC 2301*	1	mg/kg	53000	25000	38000
Antimony	DETSC 2301*	1	mg/kg	< 1.0	4.5	< 1.0
Arsenic	DETSC 2301#	0.2	mg/kg	12	61	7.0
Barium	DETSC 2301#	1.5	mg/kg	170	500	160
Beryllium	DETSC 2301#	0.2	mg/kg	7.0	3.3	5.3
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.5	2.6	1.4
Cadmium	DETSC 2301#	0.1	mg/kg	0.1	0.8	0.2
Chromium	DETSC 2301#	0.15	mg/kg	12	52	9.1
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	40	100	15
Iron	DETSC 2301	25	mg/kg	6800	3200	8900
Lead	DETSC 2301#	0.3	mg/kg	15	220	5.0
Magnesium	DETSC 2301*	1	mg/kg	16000	15000	17000
Manganese	DETSC 2301#	20	mg/kg	1200	5300	870
Mercury	DETSC 2325#	0.05	mg/kg	0.07	0.37	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	0.5	5.4	0.5
Nickel	DETSC 2301#	1	mg/kg	2.5	33	5.9
Silicon	DETSC 2301*	10	mg/kg	63000	64000	64000
Vanadium	DETSC 2301#	0.8	mg/kg	41	120	31
Zinc	DETSC 2301#	1	mg/kg	39	270	54
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	10.4	10.3	11.4
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	1300	0.4	0.6
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.4	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	8.9	0.6	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.1	3.3	0.5
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	480	400	840
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	0.83	2.2

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665995	1666343	1666344
				PRAIRIE_AUK_TP16	PRAIRIE_AUK_TP13	PRAIRIE_AUK_TP13
			Sample ID	3_SO_0120	5_SO_0130	6_SO_0080
			Depth	1.20	1.30	0.80
			Other ID	3	5	3
			Sample Type	ES	ES	ES
			Sampling Date	14/04/2020	15/04/2020	15/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	0.35	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	1.7	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	96	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	40	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	7.1	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	150	< 10	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	150	< 10	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg			
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	0.85	0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	4.1	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	20	0.05	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	11	0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	7.8	0.57	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	11	0.18	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	11	2.3	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	7.5	3.4	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	1.6	1.1	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	1.4	1.2	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.70	1.3	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.30	0.53	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.53	0.87	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.13	0.37	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.04	0.10	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.14	0.47	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	78	12	< 0.10

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665995	1666343	1666344
			Sample ID	PRAIRIE_AUK_TP16 3_SO_0120	PRAIRIE_AUK_TP13 5_SO_0130	PRAIRIE_AUK_TP13 6_SO_0080
			Depth	1.20	1.30	0.80
			Other ID	3	5	3
			Sample Type	ES	ES	ES
			Sampling Date	14/04/2020	15/04/2020	15/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg			
PCB 52	DETSC 3401#	0.01	mg/kg			
PCB 101	DETSC 3401#	0.01	mg/kg			
PCB 118	DETSC 3401#	0.01	mg/kg			
PCB 153	DETSC 3401#	0.01	mg/kg			
PCB 138	DETSC 3401#	0.01	mg/kg			
PCB 180	DETSC 3401#	0.01	mg/kg			
PCB 7 Total	DETSC 3401#	0.01	mg/kg			
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	1.1	< 0.3	< 0.3

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1666345	1666346	1666347
				PRAIRIE_AUK_TP13	PRAIRIE_AUK_TP16	PRAIRIE_AUK_TP16
			Sample ID	6_SO_0290	5_SO_0100	7_SO_0250
			Depth	2.90	1.00	2.50
			Other ID	10	3	6
			Sample Type	ES	ES	ES
			Sampling Date	15/04/2020	15/04/2020	15/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Asbestos Quantification	DETSC 1102	0.001	%			
Metals						
Aluminium	DETSC 2301*	1	mg/kg	15000	5900	11000
Antimony	DETSC 2301*	1	mg/kg	1.2	2.5	2.5
Arsenic	DETSC 2301#	0.2	mg/kg	9.3	23	5.8
Barium	DETSC 2301#	1.5	mg/kg	310	150	220
Beryllium	DETSC 2301#	0.2	mg/kg	1.3	0.4	0.9
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.9	1.4	2.7
Cadmium	DETSC 2301#	0.1	mg/kg	0.2	0.4	0.2
Chromium	DETSC 2301#	0.15	mg/kg	26	120	120
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	29	28	17
Iron	DETSC 2301	25	mg/kg	40000	41000	42000
Lead	DETSC 2301#	0.3	mg/kg	35	43	31
Magnesium	DETSC 2301*	1	mg/kg	6200	10000	17000
Manganese	DETSC 2301#	20	mg/kg	700	18000	8400
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	0.11	0.13
Molybdenum	DETSC 2301#	0.4	mg/kg	0.4	1.6	1.0
Nickel	DETSC 2301#	1	mg/kg	37	15	12
Silicon	DETSC 2301*	10	mg/kg	170000	53000	64000
Vanadium	DETSC 2301#	0.8	mg/kg	31	470	410
Zinc	DETSC 2301#	1	mg/kg	100	120	78
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	8.6	11.4	11.3
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.3	1.0	2.2
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6	0.6	0.7
Organic matter	DETSC 2002#	0.1	%	2.6	13	1.6
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	120	170	220
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	1.4	1.9

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1666345	1666346	1666347
				PRAIRIE_AUK_TP13	PRAIRIE_AUK_TP16	PRAIRIE_AUK_TP16
			Sample ID	6_SO_0290	5_SO_0100	7_SO_0250
			Depth	2.90	1.00	2.50
			Other ID	10	3	6
			Sample Type	ES	ES	ES
			Sampling Date	15/04/2020	15/04/2020	15/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg			
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	0.42	0.20
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	0.06	0.06
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.05	0.09
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	0.07	0.12
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03	0.91	1.5
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	0.26	0.37
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	1.0	1.8
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	0.83	1.4
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	0.40	0.55
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03	0.51	0.69
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.49	0.69
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.18	0.26
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	0.26	0.32
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	0.15	0.20
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	0.05	0.06
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	0.19	0.24
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10	5.8	8.6

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1666345	1666346	1666347
			Sample ID	PRAIRIE_AUK_TP13 6_SO_0290	PRAIRIE_AUK_TP16 5_SO_0100	PRAIRIE_AUK_TP16 7_SO_0250
			Depth	2.90	1.00	2.50
			Other ID	10	3	6
			Sample Type	ES	ES	ES
			Sampling Date	15/04/2020	15/04/2020	15/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg			
PCB 52	DETSC 3401#	0.01	mg/kg			
PCB 101	DETSC 3401#	0.01	mg/kg			
PCB 118	DETSC 3401#	0.01	mg/kg			
PCB 153	DETSC 3401#	0.01	mg/kg			
PCB 138	DETSC 3401#	0.01	mg/kg			
PCB 180	DETSC 3401#	0.01	mg/kg			
PCB 7 Total	DETSC 3401#	0.01	mg/kg			
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1666348	1666610
				PRAIRIE_AUK_TP16	PRAIRIE_AUK_BH10
			Sample ID	9_SO_0150	8_SO_0250
			Depth	1.50	2.50
			Other ID	3	1
			Sample Type	ES	ES
			Sampling Date	15/04/2020	15/04/2020
			Sampling Time	n/s	n/s
Test	**Method**	**LOD**	**Units**		
Asbestos Quantification	DETSC 1102	0.001	%	< 0.001	
Metals					
Aluminium	DETSC 2301*	1	mg/kg	8600	17000
Antimony	DETSC 2301*	1	mg/kg	1.7	2.0
Arsenic	DETSC 2301#	0.2	mg/kg	7.3	10
Barium	DETSC 2301#	1.5	mg/kg	120	240
Beryllium	DETSC 2301#	0.2	mg/kg	0.5	1.6
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.2	1.4
Cadmium	DETSC 2301#	0.1	mg/kg	0.7	0.3
Chromium	DETSC 2301#	0.15	mg/kg	46	76
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	39	46
Iron	DETSC 2301	25	mg/kg	27000	46000
Lead	DETSC 2301#	0.3	mg/kg	68	38
Magnesium	DETSC 2301*	1	mg/kg	6300	12000
Manganese	DETSC 2301#	20	mg/kg	2000	1800
Mercury	DETSC 2325#	0.05	mg/kg	0.10	0.27
Molybdenum	DETSC 2301#	0.4	mg/kg	1.7	1.0
Nickel	DETSC 2301#	1	mg/kg	24	37
Silicon	DETSC 2301*	10	mg/kg	110000	160000
Vanadium	DETSC 2301#	0.8	mg/kg	75	200
Zinc	DETSC 2301#	1	mg/kg	150	140
Inorganics					
Loss on Ignition at 440oC	DETSC 2003#	0.01	%		
pH	DETSC 2008#		pH	9.8	10.0
Calorific Value	DETSC 5008	1	MJ/kg		
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.6	2.0
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.8	< 0.6
Organic matter	DETSC 2002#	0.1	%	13	2.6
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	110	180
Sulphur (free)	DETSC 3049#	0.75	mg/kg	1.1	< 0.75

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1666348	1666610
				PRAIRIE_AUK_TP16	PRAIRIE_AUK_BH10
			Sample ID	9_SO_0150	8_SO_0250
			Depth	1.50	2.50
			Other ID	3	1
			Sample Type	ES	ES
			Sampling Date	15/04/2020	15/04/2020
			Sampling Time	n/s	n/s
Test	**Method**	**LOD**	**Units**		
Petroleum Hydrocarbons					
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg		
PAHs					
Naphthalene	DETSC 3303#	0.03	mg/kg	0.38	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.09	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	0.13	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.9	0.04
Anthracene	DETSC 3303	0.03	mg/kg	0.50	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	2.1	0.08
Pyrene	DETSC 3303#	0.03	mg/kg	1.7	0.07
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.65	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	0.67	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.56	0.04
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.22	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.31	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.13	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.04	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.16	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	9.5	0.23

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1666348	1666610
			Sample ID	PRAIRIE_AUK_TP169_SO_0150	PRAIRIE_AUK_BH108_SO_0250
			Depth	1.50	2.50
			Other ID	3	1
			Sample Type	ES	ES
			Sampling Date	15/04/2020	15/04/2020
			Sampling Time	n/s	n/s
Test	**Method**	**LOD**	**Units**		
PCBs					
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg		
PCB 52	DETSC 3401#	0.01	mg/kg		
PCB 101	DETSC 3401#	0.01	mg/kg		
PCB 118	DETSC 3401#	0.01	mg/kg		
PCB 153	DETSC 3401#	0.01	mg/kg		
PCB 138	DETSC 3401#	0.01	mg/kg		
PCB 180	DETSC 3401#	0.01	mg/kg		
PCB 7 Total	DETSC 3401#	0.01	mg/kg		
Phenols					
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	0.5

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1666611	1666612
				PRAIRIE_AUK_TP139	PRAIRIE_AUK_TP139
			Sample ID	B_SO_0030	B_SO_0330
			Depth	0.30	3.30
			Other ID	3	6
			Sample Type	ES	ES
			Sampling Date	16/04/2020	16/04/2020
			Sampling Time	n/s	n/s
Test	**Method**	**LOD**	**Units**		
Asbestos Quantification	DETSC 1102	0.001	%	< 0.001	
Metals					
Aluminium	DETSC 2301*	1	mg/kg	26000	14000
Antimony	DETSC 2301*	1	mg/kg	5.4	1.4
Arsenic	DETSC 2301#	0.2	mg/kg	43	7.8
Barium	DETSC 2301#	1.5	mg/kg	810	330
Beryllium	DETSC 2301#	0.2	mg/kg	3.1	1.0
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	6.6	0.5
Cadmium	DETSC 2301#	0.1	mg/kg	1.9	0.2
Chromium	DETSC 2301#	0.15	mg/kg	77	24
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	94	29
Iron	DETSC 2301	25	mg/kg	84000	40000
Lead	DETSC 2301#	0.3	mg/kg	410	28
Magnesium	DETSC 2301*	1	mg/kg	21000	8700
Manganese	DETSC 2301#	20	mg/kg	16000	700
Mercury	DETSC 2325#	0.05	mg/kg	3.6	0.06
Molybdenum	DETSC 2301#	0.4	mg/kg	3.5	0.4
Nickel	DETSC 2301#	1	mg/kg	31	33
Silicon	DETSC 2301*	10	mg/kg	47000	160000
Vanadium	DETSC 2301#	0.8	mg/kg	140	30
Zinc	DETSC 2301#	1	mg/kg	1200	99
Inorganics					
Loss on Ignition at 440oC	DETSC 2003#	0.01	%		
pH	DETSC 2008#		pH	11.0	8.1
Calorific Value	DETSC 5008	1	MJ/kg		
Cyanide, Total	DETSC 2130#	0.1	mg/kg	220	2.0
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.4	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	3.1	< 0.6
Organic matter	DETSC 2002#	0.1	%	2.1	3.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	740	320
Sulphur (free)	DETSC 3049#	0.75	mg/kg	2.4	< 0.75

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1666611	1666612
				PRAIRIE_AUK_TP139	PRAIRIE_AUK_TP139
			Sample ID	B_SO_0030	B_SO_0330
			Depth	0.30	3.30
			Other ID	3	6
			Sample Type	ES	ES
			Sampling Date	16/04/2020	16/04/2020
			Sampling Time	n/s	n/s
Test	**Method**	**LOD**	**Units**		
Petroleum Hydrocarbons					
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg		
PAHs					
Naphthalene	DETSC 3303#	0.03	mg/kg	0.45	0.31
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.10	0.05
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.60	0.36
Fluorene	DETSC 3303	0.03	mg/kg	0.55	0.27
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.5	0.33
Anthracene	DETSC 3303	0.03	mg/kg	0.34	0.06
Fluoranthene	DETSC 3303#	0.03	mg/kg	1.6	0.11
Pyrene	DETSC 3303#	0.03	mg/kg	1.3	0.08
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.30	0.04
Chrysene	DETSC 3303	0.03	mg/kg	0.52	0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.43	0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.17	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.20	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.12	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.04	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.16	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	8.3	1.6

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1666611	1666612
				PRAIRIE_AUK_TP139	PRAIRIE_AUK_TP139
			Sample ID	B_SO_0030	B_SO_0330
			Depth	0.30	3.30
			Other ID	3	6
			Sample Type	ES	ES
			Sampling Date	16/04/2020	16/04/2020
			Sampling Time	n/s	n/s
Test	**Method**	**LOD**	**Units**		
PCBs					
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg		
PCB 52	DETSC 3401#	0.01	mg/kg		
PCB 101	DETSC 3401#	0.01	mg/kg		
PCB 118	DETSC 3401#	0.01	mg/kg		
PCB 153	DETSC 3401#	0.01	mg/kg		
PCB 138	DETSC 3401#	0.01	mg/kg		
PCB 180	DETSC 3401#	0.01	mg/kg		
PCB 7 Total	DETSC 3401#	0.01	mg/kg		
Phenols					
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1666613	1666614	1666615
				PRAIRIE_AUK_TP148	PRAIRIE_AUK_TP15	PRAIRIE_AUK_TP15
			Sample ID	A_SO_0140	0_SO_0150	9_SO_0060
			Depth	1.40	1.50	0.60
			Other ID	5	3	3
			Sample Type	ES	ES	ES
			Sampling Date	16/04/2020	16/04/2020	16/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Asbestos Quantification	DETSC 1102	0.001	%		0.009	0.002
Metals						
Aluminium	DETSC 2301*	1	mg/kg	20000	7700	15000
Antimony	DETSC 2301*	1	mg/kg	2.7	7.6	< 1.0
Arsenic	DETSC 2301#	0.2	mg/kg	24	30	6.1
Barium	DETSC 2301#	1.5	mg/kg	330	400	340
Beryllium	DETSC 2301#	0.2	mg/kg	2.3	0.8	3.2
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	3.7	1.9	2.0
Cadmium	DETSC 2301#	0.1	mg/kg	1.0	1.3	0.1
Chromium	DETSC 2301#	0.15	mg/kg	69	75	53
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	39	130	14
Iron	DETSC 2301	25	mg/kg	53000	180000	18000
Lead	DETSC 2301#	0.3	mg/kg	65	420	13
Magnesium	DETSC 2301*	1	mg/kg	14000	8200	12000
Manganese	DETSC 2301#	20	mg/kg	16000	2400	4600
Mercury	DETSC 2325#	0.05	mg/kg	1.3	2.6	0.13
Molybdenum	DETSC 2301#	0.4	mg/kg	2.9	5.8	0.7
Nickel	DETSC 2301#	1	mg/kg	23	54	5.8
Silicon	DETSC 2301*	10	mg/kg	51000	53000	59000
Vanadium	DETSC 2301#	0.8	mg/kg	110	110	160
Zinc	DETSC 2301#	1	mg/kg	200	830	65
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	11.3	10.1	10.7
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	22	8.2	0.9
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.1	0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	1.2	< 0.6	1.5
Organic matter	DETSC 2002#	0.1	%	2.7	2.1	2.0
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	630	350	550
Sulphur (free)	DETSC 3049#	0.75	mg/kg	63	3.5	12

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1666613	1666614	1666615
				PRAIRIE_AUK_TP148	PRAIRIE_AUK_TP15	PRAIRIE_AUK_TP15
			Sample ID	A_SO_0140	0_SO_0150	9_SO_0060
			Depth	1.40	1.50	0.60
			Other ID	5	3	3
			Sample Type	ES	ES	ES
			Sampling Date	16/04/2020	16/04/2020	16/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	18
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	18
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	< 10	18
EPH (C10-C40)	DETSC 3311#	10	mg/kg			
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	0.23	0.53	0.20
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	0.07	0.08
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.27	0.67	0.23
Fluorene	DETSC 3303	0.03	mg/kg	0.21	0.49	0.16
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.5	1.6	0.27
Anthracene	DETSC 3303	0.03	mg/kg	0.18	0.34	0.10
Fluoranthene	DETSC 3303#	0.03	mg/kg	2.2	2.1	1.1
Pyrene	DETSC 3303#	0.03	mg/kg	1.8	1.7	1.6
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.50	0.50	0.39
Chrysene	DETSC 3303	0.03	mg/kg	0.77	0.68	0.73
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.66	0.67	1.5
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.29	0.28	0.70
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.44	0.36	0.77
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.20	0.20	0.49
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.06	0.06	0.14
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.24	0.24	0.59
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	9.4	10	9.0

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1666613	1666614	1666615
				PRAIRIE_AUK_TP148	PRAIRIE_AUK_TP15	PRAIRIE_AUK_TP15
			Sample ID	A_SO_0140	0_SO_0150	9_SO_0060
			Depth	1.40	1.50	0.60
			Other ID	5	3	3
			Sample Type	ES	ES	ES
			Sampling Date	16/04/2020	16/04/2020	16/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg			
PCB 52	DETSC 3401#	0.01	mg/kg			
PCB 101	DETSC 3401#	0.01	mg/kg			
PCB 118	DETSC 3401#	0.01	mg/kg			
PCB 153	DETSC 3401#	0.01	mg/kg			
PCB 138	DETSC 3401#	0.01	mg/kg			
PCB 180	DETSC 3401#	0.01	mg/kg			
PCB 7 Total	DETSC 3401#	0.01	mg/kg			
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	0.3	< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

	Lab No	1666616	1667231	1667232
		PRAIRIE_AUK_TP19	PRAIRIE_AUK_BH10	PRAIRIE_AUK_TP12
	Sample ID	0A_SO_0110	5_SO_0300	6_SO_0260
	Depth	1.10	3.00	2.60
	Other ID	3	1	5
	Sample Type	ES	ES	ES
	Sampling Date	16/04/2020	16/04/2020	17/04/2020
	Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
Asbestos Quantification	DETSC 1102	0.001	%	0.003		
Metals						
Aluminium	DETSC 2301*	1	mg/kg	15000	13000	9800
Antimony	DETSC 2301*	1	mg/kg	1.6	2.0	4.1
Arsenic	DETSC 2301#	0.2	mg/kg	21	8.7	13
Barium	DETSC 2301#	1.5	mg/kg	560	170	160
Beryllium	DETSC 2301#	0.2	mg/kg	1.3	1.1	1.1
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	6.6	1.2	5.2
Cadmium	DETSC 2301#	0.1	mg/kg	1.5	0.2	0.5
Chromium	DETSC 2301#	0.15	mg/kg	24	34	50
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	54	40	86
Iron	DETSC 2301	25	mg/kg	34000	41000	110000
Lead	DETSC 2301#	0.3	mg/kg	160	40	82
Magnesium	DETSC 2301*	1	mg/kg	8900	10000	7500
Manganese	DETSC 2301#	20	mg/kg	24000	730	2200
Mercury	DETSC 2325#	0.05	mg/kg	1.8	0.07	0.22
Molybdenum	DETSC 2301#	0.4	mg/kg	3.6	1.0	2.2
Nickel	DETSC 2301#	1	mg/kg	24	37	28
Silicon	DETSC 2301*	10	mg/kg	62000	160000	23000
Vanadium	DETSC 2301#	0.8	mg/kg	49	41	160
Zinc	DETSC 2301#	1	mg/kg	630	140	440
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	10.8	8.5	10.3
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	240	< 0.1	7.9
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.6	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	4.7	< 0.6	1.2
Organic matter	DETSC 2002#	0.1	%	2.6	2.1	12
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	530	220	1200
Sulphur (free)	DETSC 3049#	0.75	mg/kg	1.1	< 0.75	24

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1666616	1667231	1667232
				PRAIRIE_AUK_TP19	PRAIRIE_AUK_BH10	PRAIRIE_AUK_TP12
			Sample ID	0A_SO_0110	5_SO_0300	6_SO_0260
			Depth	1.10	3.00	2.60
			Other ID	3	1	5
			Sample Type	ES	ES	ES
			Sampling Date	16/04/2020	16/04/2020	17/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg			
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	0.07	< 0.03	0.14
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.05
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.16	< 0.03	0.30
Fluorene	DETSC 3303	0.03	mg/kg	0.09	< 0.03	0.29
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.4	< 0.03	0.73
Anthracene	DETSC 3303	0.03	mg/kg	0.14	< 0.03	0.77
Fluoranthene	DETSC 3303#	0.03	mg/kg	3.0	0.04	0.56
Pyrene	DETSC 3303#	0.03	mg/kg	2.8	< 0.03	0.45
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.96	< 0.03	0.19
Chrysene	DETSC 3303	0.03	mg/kg	1.1	< 0.03	0.19
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	1.2	< 0.03	0.20
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.51	< 0.03	0.09
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.80	< 0.03	0.12
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.31	< 0.03	0.07
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.09	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.38	< 0.03	0.07
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	13	< 0.10	4.2

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1666616	1667231	1667232
				PRAIRIE_AUK_TP19	PRAIRIE_AUK_BH10	PRAIRIE_AUK_TP12
			Sample ID	0A_SO_0110	5_SO_0300	6_SO_0260
			Depth	1.10	3.00	2.60
			Other ID	3	1	5
			Sample Type	ES	ES	ES
			Sampling Date	16/04/2020	16/04/2020	17/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg			
PCB 52	DETSC 3401#	0.01	mg/kg			
PCB 101	DETSC 3401#	0.01	mg/kg			
PCB 118	DETSC 3401#	0.01	mg/kg			
PCB 153	DETSC 3401#	0.01	mg/kg			
PCB 138	DETSC 3401#	0.01	mg/kg			
PCB 180	DETSC 3401#	0.01	mg/kg			
PCB 7 Total	DETSC 3401#	0.01	mg/kg			
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

	Lab No	1667233	1667234	1667235
	Sample ID	PRAIRIE_AUK_TP12 8_SO_0090	PRAIRIE_AUK_TP12 9_SO_0210	PRAIRIE_AUK_TP13 0_SO_0100
	Depth	0.90	2.10	1.00
	Other ID	3	4A	4A
	Sample Type	ES	ES	ES
	Sampling Date	17/04/2020	17/04/2020	17/04/2020
	Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**	
Asbestos Quantification	DETSC 1102	0.001	%	< 0.001		
Metals						
Aluminium	DETSC 2301*	1	mg/kg	3300	11000	9200
Antimony	DETSC 2301*	1	mg/kg	< 1.0	1.4	2.9
Arsenic	DETSC 2301#	0.2	mg/kg	5.4	8.2	34
Barium	DETSC 2301#	1.5	mg/kg	89	430	130
Beryllium	DETSC 2301#	0.2	mg/kg	0.8	1.0	1.6
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.3	1.8	1.6
Cadmium	DETSC 2301#	0.1	mg/kg	< 0.1	0.4	0.4
Chromium	DETSC 2301#	0.15	mg/kg	8.8	25	69
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	35	29	56
Iron	DETSC 2301	25	mg/kg	4800	35000	60000
Lead	DETSC 2301#	0.3	mg/kg	27	40	100
Magnesium	DETSC 2301*	1	mg/kg	1500	4100	4400
Manganese	DETSC 2301#	20	mg/kg	61	1300	2200
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	< 0.05	0.18
Molybdenum	DETSC 2301#	0.4	mg/kg	< 0.4	0.6	1.7
Nickel	DETSC 2301#	1	mg/kg	12	39	38
Silicon	DETSC 2301*	10	mg/kg	140000	180000	93000
Vanadium	DETSC 2301#	0.8	mg/kg	10	33	170
Zinc	DETSC 2301#	1	mg/kg	39	140	280
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	8.6	8.8	9.3
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.6	0.5	3.0
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6	< 0.6	< 0.6
Organic matter	DETSC 2002#	0.1	%	3.6	2.1	5.3
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	25	270	100
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	< 0.75	< 0.75

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1667233	1667234	1667235
				PRAIRIE_AUK_TP12	PRAIRIE_AUK_TP12	PRAIRIE_AUK_TP13
			Sample ID	8_SO_0090	9_SO_0210	0_SO_0100
			Depth	0.90	2.10	1.00
			Other ID	3	4A	4A
			Sample Type	ES	ES	ES
			Sampling Date	17/04/2020	17/04/2020	17/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	0.20	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	25	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	2.1	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	28	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	2.2	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	320	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	1400	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	6.4	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	1700	< 10	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	1700	< 10	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg			
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	520	3.2	0.05
Acenaphthylene	DETSC 3303#	0.03	mg/kg	5.5	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	520	3.6	0.16
Fluorene	DETSC 3303	0.03	mg/kg	100	0.66	0.04
Phenanthrene	DETSC 3303#	0.03	mg/kg	5.1	0.09	0.18
Anthracene	DETSC 3303	0.03	mg/kg	1.1	0.09	0.04
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.34	< 0.03	0.24
Pyrene	DETSC 3303#	0.03	mg/kg	0.24	< 0.03	0.20
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.15	< 0.03	0.11
Chrysene	DETSC 3303	0.03	mg/kg	0.16	< 0.03	0.13
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.17	< 0.03	0.11
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.08	< 0.03	0.06
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.10	< 0.03	0.05
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.09	< 0.03	0.05
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.08	< 0.03	0.04
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	1200	7.7	1.4

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1667233	1667234	1667235
			Sample ID	PRAIRIE_AUK_TP128_SO_0090	PRAIRIE_AUK_TP129_SO_0210	PRAIRIE_AUK_TP130_SO_0100
			Depth	0.90	2.10	1.00
			Other ID	3	4A	4A
			Sample Type	ES	ES	ES
			Sampling Date	17/04/2020	17/04/2020	17/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg			
PCB 52	DETSC 3401#	0.01	mg/kg			
PCB 101	DETSC 3401#	0.01	mg/kg			
PCB 118	DETSC 3401#	0.01	mg/kg			
PCB 153	DETSC 3401#	0.01	mg/kg			
PCB 138	DETSC 3401#	0.01	mg/kg			
PCB 180	DETSC 3401#	0.01	mg/kg			
PCB 7 Total	DETSC 3401#	0.01	mg/kg			
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1667236	1667237	1667238
				PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP15	PRAIRIE_AUK_TP15
			Sample ID	7_SO_0150	8_SO_0130	7_SO_0080
			Depth	1.50	1.30	0.80
			Other ID	4	3	2
			Sample Type	ES	ES	ES
			Sampling Date	17/04/2020	17/04/2020	17/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Asbestos Quantification	DETSC 1102	0.001	%	< 0.001		< 0.001
Metals						
Aluminium	DETSC 2301*	1	mg/kg	19000	10000	9600
Antimony	DETSC 2301*	1	mg/kg	3.6	1.8	4.3
Arsenic	DETSC 2301#	0.2	mg/kg	14	9.1	10
Barium	DETSC 2301#	1.5	mg/kg	390	390	200
Beryllium	DETSC 2301#	0.2	mg/kg	1.9	1.7	1.0
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	3.2	7.4	3.5
Cadmium	DETSC 2301#	0.1	mg/kg	0.8	0.6	0.8
Chromium	DETSC 2301#	0.15	mg/kg	99	24	200
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	58	94	40
Iron	DETSC 2301	25	mg/kg	56000	32000	61000
Lead	DETSC 2301#	0.3	mg/kg	220	130	140
Magnesium	DETSC 2301*	1	mg/kg	14000	7700	14000
Manganese	DETSC 2301#	20	mg/kg	4100	1000	12000
Mercury	DETSC 2325#	0.05	mg/kg	0.83	0.56	2.2
Molybdenum	DETSC 2301#	0.4	mg/kg	1.8	1.2	2.6
Nickel	DETSC 2301#	1	mg/kg	20	13	11
Silicon	DETSC 2301*	10	mg/kg	87000	95000	70000
Vanadium	DETSC 2301#	0.8	mg/kg	190	37	410
Zinc	DETSC 2301#	1	mg/kg	340	710	470
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	10.9	9.9	12.0
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	29	57	25
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.5	0.2	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	2.5	3.3	1.5
Organic matter	DETSC 2002#	0.1	%	2.4	2.7	2.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	480	620	65
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	14	1.9

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1667236	1667237	1667238
				PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP15	PRAIRIE_AUK_TP15
			Sample ID	7_SO_0150	8_SO_0130	7_SO_0080
			Depth	1.50	1.30	0.80
			Other ID	4	3	2
			Sample Type	ES	ES	ES
			Sampling Date	17/04/2020	17/04/2020	17/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	1.3	< 0.5	0.6
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	4.8	1.3	6.3
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	23	7.2	22
Aromatic C5-C35	DETSC 3072*	10	mg/kg	29	< 10	29
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	29	< 10	29
EPH (C10-C40)	DETSC 3311#	10	mg/kg			
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	0.07	0.47	0.16
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.09	0.55	0.27
Fluorene	DETSC 3303	0.03	mg/kg	0.05	0.11	0.05
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.73	0.44	0.49
Anthracene	DETSC 3303	0.03	mg/kg	0.77	0.08	0.04
Fluoranthene	DETSC 3303#	0.03	mg/kg	2.0	1.2	0.72
Pyrene	DETSC 3303#	0.03	mg/kg	2.0	1.1	0.63
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	1.1	0.55	0.54
Chrysene	DETSC 3303	0.03	mg/kg	1.1	0.57	0.72
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	1.4	0.66	0.64
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.61	0.31	0.26
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.88	0.39	0.29
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.55	0.28	0.14
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.17	0.05	0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.65	0.34	0.15
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	12	7.1	5.1

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1667236	1667237	1667238
				PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP15	PRAIRIE_AUK_TP15
			Sample ID	7_SO_0150	8_SO_0130	7_SO_0080
			Depth	1.50	1.30	0.80
			Other ID	4	3	2
			Sample Type	ES	ES	ES
			Sampling Date	17/04/2020	17/04/2020	17/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg			< 0.01
PCB 52	DETSC 3401#	0.01	mg/kg			< 0.01
PCB 101	DETSC 3401#	0.01	mg/kg			< 0.01
PCB 118	DETSC 3401#	0.01	mg/kg			< 0.01
PCB 153	DETSC 3401#	0.01	mg/kg			< 0.01
PCB 138	DETSC 3401#	0.01	mg/kg			< 0.01
PCB 180	DETSC 3401#	0.01	mg/kg			< 0.01
PCB 7 Total	DETSC 3401#	0.01	mg/kg			< 0.01
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

	Lab No	1667501	1667502	1667503
		PRAIRIE_AUK_TP120	PRAIRIE_AUK_TP13	PRAIRIE_AUK_TP13
	Sample ID	A_SO_0100	4_SO_0100	4_SO_0200
	Depth	1.00	1.00	2.00
	Other ID	3	3	6
	Sample Type	ES	ES	ES
	Sampling Date	20/04/2020	20/04/2020	20/04/2020
	Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**	
Asbestos Quantification	DETSC 1102	0.001	%	0.001		
Metals						
Aluminium	DETSC 2301*	1	mg/kg	21000	8700	13000
Antimony	DETSC 2301*	1	mg/kg	4.0	18	1.5
Arsenic	DETSC 2301#	0.2	mg/kg	12	61	9.0
Barium	DETSC 2301#	1.5	mg/kg	330	200	300
Beryllium	DETSC 2301#	0.2	mg/kg	3.1	0.9	1.2
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	4.9	2.6	0.8
Cadmium	DETSC 2301#	0.1	mg/kg	0.8	0.6	0.3
Chromium	DETSC 2301#	0.15	mg/kg	190	240	29
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	56	100	29
Iron	DETSC 2301	25	mg/kg	58000	140000	43000
Lead	DETSC 2301#	0.3	mg/kg	89	160	30
Magnesium	DETSC 2301*	1	mg/kg	18000	15000	7300
Manganese	DETSC 2301#	20	mg/kg	8200	26000	850
Mercury	DETSC 2325#	0.05	mg/kg	0.19	0.09	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	5.8	4.6	0.5
Nickel	DETSC 2301#	1	mg/kg	19	29	38
Silicon	DETSC 2301*	10	mg/kg	72000	59000	170000
Vanadium	DETSC 2301#	0.8	mg/kg	360	680	36
Zinc	DETSC 2301#	1	mg/kg	190	180	99
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	11.3	11.3	8.7
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	2.2	1.4	0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.7	< 0.6	< 0.6
Organic matter	DETSC 2002#	0.1	%	2.9	2.5	2.3
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	250	130	78
Sulphur (free)	DETSC 3049#	0.75	mg/kg	33	6.0	< 0.75

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

				Lab No	1667501	1667502	1667503
				Sample ID	PRAIRIE_AUK_TP120 A_SO_0100	PRAIRIE_AUK_TP13 4_SO_0100	PRAIRIE_AUK_TP13 4_SO_0200
				Depth	1.00	1.00	2.00
				Other ID	3	3	6
				Sample Type	ES	ES	ES
				Sampling Date	20/04/2020	20/04/2020	20/04/2020
				Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
Petroleum Hydrocarbons							
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg		< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg		3.4	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg		27	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg		270	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg		300	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg		< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg		6.8	1.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg		100	15	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg		510	69	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg		610	86	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg		910	86	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg				
PAHs							
Naphthalene	DETSC 3303#	0.03	mg/kg		0.04	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg		0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg		0.13	0.09	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg		0.05	0.12	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg		1.4	0.93	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg		0.39	0.48	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg		8.2	1.5	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg		12	1.2	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg		6.6	0.62	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg		4.8	0.47	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg		7.3	0.66	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg		2.9	0.29	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg		5.8	0.52	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg		1.9	0.21	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg		0.53	0.06	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg		2.4	0.25	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg		54	7.4	< 0.10

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

	Lab No	1667501	1667502	1667503
	Sample ID	PRAIRIE_AUK_TP120 A_SO_0100	PRAIRIE_AUK_TP13 4_SO_0100	PRAIRIE_AUK_TP13 4_SO_0200
	Depth	1.00	1.00	2.00
	Other ID	3	3	6
	Sample Type	ES	ES	ES
	Sampling Date	20/04/2020	20/04/2020	20/04/2020
	Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**	
PCBs				
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg	
PCB 52	DETSC 3401#	0.01	mg/kg	
PCB 101	DETSC 3401#	0.01	mg/kg	
PCB 118	DETSC 3401#	0.01	mg/kg	
PCB 153	DETSC 3401#	0.01	mg/kg	
PCB 138	DETSC 3401#	0.01	mg/kg	
PCB 180	DETSC 3401#	0.01	mg/kg	
PCB 7 Total	DETSC 3401#	0.01	mg/kg	
Phenols				
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

	Lab No	1667504	1667505	1667506
		PRAIRIE_AUK_TP16	PRAIRIE_AUK_TP16	PRAIRIE_AUK_TP16
	Sample ID	1_SO_0100	6_SO_0045	6_SO_0120
	Depth	1.00	0.45	1.20
	Other ID	3	3	8
	Sample Type	ES	ES	ES
	Sampling Date	20/04/2020	20/04/2020	20/04/2020
	Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
Asbestos Quantification	DETSC 1102	0.001	%		0.001	
Metals						
Aluminium	DETSC 2301*	1	mg/kg	12000	28000	10000
Antimony	DETSC 2301*	1	mg/kg	5.5	5.1	1.2
Arsenic	DETSC 2301#	0.2	mg/kg	8.1	22	7.6
Barium	DETSC 2301#	1.5	mg/kg	260	700	200
Beryllium	DETSC 2301#	0.2	mg/kg	1.9	3.4	1.0
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.8	2.2	0.5
Cadmium	DETSC 2301#	0.1	mg/kg	0.2	0.9	0.2
Chromium	DETSC 2301#	0.15	mg/kg	150	140	23
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	150	160	26
Iron	DETSC 2301	25	mg/kg	53000	91000	33000
Lead	DETSC 2301#	0.3	mg/kg	59	190	23
Magnesium	DETSC 2301*	1	mg/kg	11000	21000	3500
Manganese	DETSC 2301#	20	mg/kg	3400	6600	840
Mercury	DETSC 2325#	0.05	mg/kg	0.08	0.28	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	1.8	5.7	< 0.4
Nickel	DETSC 2301#	1	mg/kg	15	53	40
Silicon	DETSC 2301*	10	mg/kg	80000	59000	180000
Vanadium	DETSC 2301#	0.8	mg/kg	160	340	28
Zinc	DETSC 2301#	1	mg/kg	110	210	66
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	11.4	10.0	7.9
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.5	0.5	< 0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6	< 0.6	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.6	2.5	1.8
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	100	260	84
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	3.9	< 0.75

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1667504	1667505	1667506
				PRAIRIE_AUK_TP16	PRAIRIE_AUK_TP16	PRAIRIE_AUK_TP16
			Sample ID	1_SO_0100	6_SO_0045	6_SO_0120
			Depth	1.00	0.45	1.20
			Other ID	3	3	8
			Sample Type	ES	ES	ES
			Sampling Date	20/04/2020	20/04/2020	20/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	30	9.9	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	31	11	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	0.7	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	4.4	19	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	29	65	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	33	84	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	64	95	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg			
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.15	0.25	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	0.08	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.32	1.2	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	0.33	1.1	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.19	0.67	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	0.19	0.60	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.89	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.11	0.37	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.13	0.71	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.09	0.29	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	0.08	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.11	0.38	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	1.6	6.6	< 0.10

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1667504	1667505	1667506
				PRAIRIE_AUK_TP16	PRAIRIE_AUK_TP16	PRAIRIE_AUK_TP16
			Sample ID	1_SO_0100	6_SO_0045	6_SO_0120
			Depth	1.00	0.45	1.20
			Other ID	3	3	8
			Sample Type	ES	ES	ES
			Sampling Date	20/04/2020	20/04/2020	20/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg			
PCB 52	DETSC 3401#	0.01	mg/kg			
PCB 101	DETSC 3401#	0.01	mg/kg			
PCB 118	DETSC 3401#	0.01	mg/kg			
PCB 153	DETSC 3401#	0.01	mg/kg			
PCB 138	DETSC 3401#	0.01	mg/kg			
PCB 180	DETSC 3401#	0.01	mg/kg			
PCB 7 Total	DETSC 3401#	0.01	mg/kg			
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1667507	1667508	1668118
				PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP18	PRAIRIE_AUK_BH11
			Sample ID	1_SO_0075	7_SO_0070	0_SO_0300
			Depth	0.75	0.70	3.00
			Other ID	3	3	1
			Sample Type	ES	ES	ES
			Sampling Date	20/04/2020	20/04/2020	20/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Asbestos Quantification	DETSC 1102	0.001	%			
Metals						
Aluminium	DETSC 2301*	1	mg/kg	18000	14000	12000
Antimony	DETSC 2301*	1	mg/kg	3.4	22	1.4
Arsenic	DETSC 2301#	0.2	mg/kg	30	46	7.5
Barium	DETSC 2301#	1.5	mg/kg	610	340	210
Beryllium	DETSC 2301#	0.2	mg/kg	3.2	3.2	1.1
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.9	1.1	0.6
Cadmium	DETSC 2301#	0.1	mg/kg	3.6	24	0.1
Chromium	DETSC 2301#	0.15	mg/kg	27	19	28
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	110	530	27
Iron	DETSC 2301	25	mg/kg	63000	110000	31000
Lead	DETSC 2301#	0.3	mg/kg	310	1800	24
Magnesium	DETSC 2301*	1	mg/kg	5700	5200	9400
Manganese	DETSC 2301#	20	mg/kg	1600	4200	570
Mercury	DETSC 2325#	0.05	mg/kg	0.06	0.13	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	4.2	6.4	0.7
Nickel	DETSC 2301#	1	mg/kg	46	55	37
Silicon	DETSC 2301*	10	mg/kg	90000	96000	170000
Vanadium	DETSC 2301#	0.8	mg/kg	120	81	31
Zinc	DETSC 2301#	1	mg/kg	1500	3800	91
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	8.5	8.8	7.7
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.5	11	< 0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6	< 0.6	< 0.6
Organic matter	DETSC 2002#	0.1	%	5.8	14	3.3
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	120	74	350
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	< 0.75	< 0.75

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1667507	1667508	1668118
				PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP18	PRAIRIE_AUK_BH11
			Sample ID	1_SO_0075	7_SO_0070	0_SO_0300
			Depth	0.75	0.70	3.00
			Other ID	3	3	1
			Sample Type	ES	ES	ES
			Sampling Date	20/04/2020	20/04/2020	20/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg			
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.09	0.06	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	0.05
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.20	0.29	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	0.17	0.28	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.11	0.15	0.06
Chrysene	DETSC 3303	0.03	mg/kg	0.12	0.16	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.17	0.24	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.08	0.10	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.12	0.18	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.06	0.09	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.07	0.11	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	1.2	1.7	0.11

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

				Lab No	1667507	1667508	1668118
				Sample ID	PRAIRIE_AUK_TP171_SO_0075	PRAIRIE_AUK_TP187_SO_0070	PRAIRIE_AUK_BH110_SO_0300
				Depth	0.75	0.70	3.00
				Other ID	3	3	1
				Sample Type	ES	ES	ES
				Sampling Date	20/04/2020	20/04/2020	20/04/2020
				Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
PCBs							
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg				
PCB 52	DETSC 3401#	0.01	mg/kg				
PCB 101	DETSC 3401#	0.01	mg/kg				
PCB 118	DETSC 3401#	0.01	mg/kg				
PCB 153	DETSC 3401#	0.01	mg/kg				
PCB 138	DETSC 3401#	0.01	mg/kg				
PCB 180	DETSC 3401#	0.01	mg/kg				
PCB 7 Total	DETSC 3401#	0.01	mg/kg				
Phenols							
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg		< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

	Lab No	1668119	1668120	1668121
		PRAIRIE_AUK_TP10	PRAIRIE_AUK_TP10	PRAIRIE_AUK_TP10
	Sample ID	2_SO_0100	2_SO_0300	3_SO_0100
	Depth	1.00	3.00	1.00
	Other ID	4	11	3
	Sample Type	ES	ES	ES
	Sampling Date	21/04/2020	21/04/2020	21/04/2020
	Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**	
Asbestos Quantification	DETSC 1102	0.001	%	< 0.001	
Metals						
Aluminium	DETSC 2301*	1	mg/kg	49000	19000	45000
Antimony	DETSC 2301*	1	mg/kg	1.3	1.8	1.5
Arsenic	DETSC 2301#	0.2	mg/kg	11	21	8.1
Barium	DETSC 2301#	1.5	mg/kg	460	630	440
Beryllium	DETSC 2301#	0.2	mg/kg	8.9	2.0	5.7
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.8	2.4	2.4
Cadmium	DETSC 2301#	0.1	mg/kg	0.1	0.5	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg	30	29	82
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	22	36	17
Iron	DETSC 2301	25	mg/kg	19000	36000	26000
Lead	DETSC 2301#	0.3	mg/kg	20	98	14
Magnesium	DETSC 2301*	1	mg/kg	28000	7400	25000
Manganese	DETSC 2301#	20	mg/kg	6700	1100	6200
Mercury	DETSC 2325#	0.05	mg/kg	0.06	0.08	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	0.6	0.7	0.6
Nickel	DETSC 2301#	1	mg/kg	7.2	25	11
Silicon	DETSC 2301*	10	mg/kg	72000	160000	68000
Vanadium	DETSC 2301#	0.8	mg/kg	100	65	110
Zinc	DETSC 2301#	1	mg/kg	84	300	43
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	10.1	8.5	9.2
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.2	0.2	0.2
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6	0.7	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.4	3.3	3.1
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	580	220	680
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	2.2	110

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668119	1668120	1668121
			Sample ID	PRAIRIE_AUK_TP102_SO_0100	PRAIRIE_AUK_TP102_SO_0300	PRAIRIE_AUK_TP103_SO_0100
			Depth	1.00	3.00	1.00
			Other ID	4	11	3
			Sample Type	ES	ES	ES
			Sampling Date	21/04/2020	21/04/2020	21/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	11	3.1
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	29	13
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	33	14
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	29	17
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	100	47
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	1.8	0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	13	8.2
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	16	30
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	5.9	97
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	36	140
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	140	180
EPH (C10-C40)	DETSC 3311#	10	mg/kg			
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.10
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.12
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	0.13
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03	0.11	2.6
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	0.81
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.06	0.16	36
Pyrene	DETSC 3303#	0.03	mg/kg	0.06	0.13	29
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.04	0.05	15
Chrysene	DETSC 3303	0.03	mg/kg	0.05	0.05	11
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.07	< 0.03	14
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	7.1
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	11
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.04	< 0.03	4.1
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	1.2
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.04	< 0.03	5.0
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	0.36	0.49	140

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668119	1668120	1668121
			Sample ID	PRAIRIE_AUK_TP10 2_SO_0100	PRAIRIE_AUK_TP10 2_SO_0300	PRAIRIE_AUK_TP10 3_SO_0100
			Depth	1.00	3.00	1.00
			Other ID	4	11	3
			Sample Type	ES	ES	ES
			Sampling Date	21/04/2020	21/04/2020	21/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg	< 0.01		
PCB 52	DETSC 3401#	0.01	mg/kg	< 0.01		
PCB 101	DETSC 3401#	0.01	mg/kg	< 0.01		
PCB 118	DETSC 3401#	0.01	mg/kg	< 0.01		
PCB 153	DETSC 3401#	0.01	mg/kg	< 0.01		
PCB 138	DETSC 3401#	0.01	mg/kg	< 0.01		
PCB 180	DETSC 3401#	0.01	mg/kg	< 0.01		
PCB 7 Total	DETSC 3401#	0.01	mg/kg	< 0.01		
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	0.3	< 0.3	0.5

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

	Lab No	1668122	1668123	1668124
		PRAIRIE_AUK_TP10	PRAIRIE_AUK_TP11	PRAIRIE_AUK_TP11
	Sample ID	9_SO_0100	0_SO_0100	0_SO_0200
	Depth	1.00	1.00	2.00
	Other ID	3	3	7
	Sample Type	ES	ES	ES
	Sampling Date	21/04/2020	21/04/2020	21/04/2020
	Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
Asbestos Quantification	DETSC 1102	0.001	%			
Metals						
Aluminium	DETSC 2301*	1	mg/kg	33000	31000	18000
Antimony	DETSC 2301*	1	mg/kg	2.1	1.8	2.9
Arsenic	DETSC 2301#	0.2	mg/kg	11	6.8	21
Barium	DETSC 2301#	1.5	mg/kg	350	490	380
Beryllium	DETSC 2301#	0.2	mg/kg	4.4	3.6	1.8
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	6.7	3.3	1.6
Cadmium	DETSC 2301#	0.1	mg/kg	0.2	0.2	0.4
Chromium	DETSC 2301#	0.15	mg/kg	110	72	78
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	71	110	60
Iron	DETSC 2301	25	mg/kg	35000	31000	60000
Lead	DETSC 2301#	0.3	mg/kg	33	31	94
Magnesium	DETSC 2301*	1	mg/kg	21000	24000	9500
Manganese	DETSC 2301#	20	mg/kg	8200	5100	1900
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	0.06	0.23
Molybdenum	DETSC 2301#	0.4	mg/kg	0.7	1.2	1.8
Nickel	DETSC 2301#	1	mg/kg	9.3	9.8	40
Silicon	DETSC 2301*	10	mg/kg	72000	68000	16000
Vanadium	DETSC 2301#	0.8	mg/kg	300	180	210
Zinc	DETSC 2301#	1	mg/kg	68	140	260
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	10.2	11.2	10.4
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.2	0.1	< 0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6	< 0.6	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.1	2.3	2.7
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	400	260	230
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	57	< 0.75

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668122	1668123	1668124
				PRAIRIE_AUK_TP10	PRAIRIE_AUK_TP11	PRAIRIE_AUK_TP11
			Sample ID	9_SO_0100	0_SO_0100	0_SO_0200
			Depth	1.00	1.00	2.00
			Other ID	3	3	7
			Sample Type	ES	ES	ES
			Sampling Date	21/04/2020	21/04/2020	21/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	2.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	4.4	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	35	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	43	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	1.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	8.8	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	73	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	84	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	130	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg			
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	0.07	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	0.06	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	1.4	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	0.78	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.14	3.2	0.12
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	3.1	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.29	36	0.52
Pyrene	DETSC 3303#	0.03	mg/kg	0.25	37	0.41
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.17	20	0.22
Chrysene	DETSC 3303	0.03	mg/kg	0.15	12	0.15
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.23	18	0.17
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.08	5.6	0.09
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.11	9.4	0.12
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.08	3.1	0.06
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	1.1	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.10	3.2	0.06
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	1.6	150	1.9

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668122	1668123	1668124
				PRAIRIE_AUK_TP10	PRAIRIE_AUK_TP11	PRAIRIE_AUK_TP11
			Sample ID	9_SO_0100	0_SO_0100	0_SO_0200
			Depth	1.00	1.00	2.00
			Other ID	3	3	7
			Sample Type	ES	ES	ES
			Sampling Date	21/04/2020	21/04/2020	21/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg			
PCB 52	DETSC 3401#	0.01	mg/kg			
PCB 101	DETSC 3401#	0.01	mg/kg			
PCB 118	DETSC 3401#	0.01	mg/kg			
PCB 153	DETSC 3401#	0.01	mg/kg			
PCB 138	DETSC 3401#	0.01	mg/kg			
PCB 180	DETSC 3401#	0.01	mg/kg			
PCB 7 Total	DETSC 3401#	0.01	mg/kg			
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	0.5	0.6	0.4

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668125	1668126	1668127
				PRAIRIE_AUK_TP11	PRAIRIE_AUK_TP11	PRAIRIE_AUK_TP11
			Sample ID	1_SO_0150	2_SO_0150	9_SO_0150
			Depth	1.50	1.50	1.50
			Other ID	4	4	3
			Sample Type	ES	ES	ES
			Sampling Date	22/04/2020	22/04/2020	22/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Asbestos Quantification	DETSC 1102	0.001	%	0.002		
Metals						
Aluminium	DETSC 2301*	1	mg/kg	18000	14000	37000
Antimony	DETSC 2301*	1	mg/kg	8.9	4.5	2.5
Arsenic	DETSC 2301#	0.2	mg/kg	48	19	11
Barium	DETSC 2301#	1.5	mg/kg	600	540	380
Beryllium	DETSC 2301#	0.2	mg/kg	1.8	1.8	4.0
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.4	1.0	1.8
Cadmium	DETSC 2301#	0.1	mg/kg	0.9	0.9	0.3
Chromium	DETSC 2301#	0.15	mg/kg	390	210	140
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	76	68	35
Iron	DETSC 2301	25	mg/kg	99000	65000	38000
Lead	DETSC 2301#	0.3	mg/kg	120	60	29
Magnesium	DETSC 2301*	1	mg/kg	29000	12000	26000
Manganese	DETSC 2301#	20	mg/kg	9100	4900	6400
Mercury	DETSC 2325#	0.05	mg/kg	0.36	< 0.05	0.08
Molybdenum	DETSC 2301#	0.4	mg/kg	3.1	5.4	0.8
Nickel	DETSC 2301#	1	mg/kg	32	31	11
Silicon	DETSC 2301*	10	mg/kg	67000	79000	58000
Vanadium	DETSC 2301#	0.8	mg/kg	1100	690	430
Zinc	DETSC 2301#	1	mg/kg	290	580	82
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	11.6	11.3	11.1
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.5	< 0.1	0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6	< 0.6	< 0.6
Organic matter	DETSC 2002#	0.1	%	2.7	2.0	4.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	87	140	1100
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	< 0.75	< 0.75

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668125	1668126	1668127
				PRAIRIE_AUK_TP11	PRAIRIE_AUK_TP11	PRAIRIE_AUK_TP11
			Sample ID	1_SO_0150	2_SO_0150	9_SO_0150
			Depth	1.50	1.50	1.50
			Other ID	4	4	3
			Sample Type	ES	ES	ES
			Sampling Date	22/04/2020	22/04/2020	22/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	0.8	0.6	1.7
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	5.2	4.6	25
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	18	11	98
Aromatic C5-C35	DETSC 3072*	10	mg/kg	24	16	130
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	24	16	130
EPH (C10-C40)	DETSC 3311#	10	mg/kg			
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	0.15	0.07	0.13
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.31	0.10	0.15
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.13	< 0.03	0.30
Fluorene	DETSC 3303	0.03	mg/kg	0.49	0.09	0.23
Phenanthrene	DETSC 3303#	0.03	mg/kg	3.9	1.7	5.4
Anthracene	DETSC 3303	0.03	mg/kg	1.3	0.35	1.2
Fluoranthene	DETSC 3303#	0.03	mg/kg	8.6	3.5	30
Pyrene	DETSC 3303#	0.03	mg/kg	6.9	2.6	30
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	4.2	1.3	18
Chrysene	DETSC 3303	0.03	mg/kg	2.6	0.99	16
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	3.6	1.4	21
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	1.7	0.61	9.1
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	2.7	0.86	15
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	1.2	0.43	5.4
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.25	0.11	1.7
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	1.2	0.51	6.6
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	39	14	160

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668125	1668126	1668127
				PRAIRIE_AUK_TP11	PRAIRIE_AUK_TP11	PRAIRIE_AUK_TP11
			Sample ID	1_SO_0150	2_SO_0150	9_SO_0150
			Depth	1.50	1.50	1.50
			Other ID	4	4	3
			Sample Type	ES	ES	ES
			Sampling Date	22/04/2020	22/04/2020	22/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg		< 0.01	
PCB 52	DETSC 3401#	0.01	mg/kg		< 0.01	
PCB 101	DETSC 3401#	0.01	mg/kg		0.01	
PCB 118	DETSC 3401#	0.01	mg/kg		< 0.01	
PCB 153	DETSC 3401#	0.01	mg/kg		< 0.01	
PCB 138	DETSC 3401#	0.01	mg/kg		0.01	
PCB 180	DETSC 3401#	0.01	mg/kg		< 0.01	
PCB 7 Total	DETSC 3401#	0.01	mg/kg		0.03	
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	0.4	< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668128	1668129	1668130
				PRAIRIE_AUK_TP11	PRAIRIE_AUK_TP13	PRAIRIE_AUK_TP15
			Sample ID	9_SO_0250	3_SO_0050	2_SO_0200
			Depth	2.50	0.50	2.00
			Other ID	7	2	6
			Sample Type	ES	ES	ES
			Sampling Date	22/04/2020	22/04/2020	22/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Asbestos Quantification	DETSC 1102	0.001	%			0.002
Metals						
Aluminium	DETSC 2301*	1	mg/kg	14000	21000	15000
Antimony	DETSC 2301*	1	mg/kg	1.5	6.5	5.0
Arsenic	DETSC 2301#	0.2	mg/kg	8.5	35	19
Barium	DETSC 2301#	1.5	mg/kg	180	390	230
Beryllium	DETSC 2301#	0.2	mg/kg	1.1	2.4	1.3
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.5	1.2	1.8
Cadmium	DETSC 2301#	0.1	mg/kg	0.2	0.8	1.7
Chromium	DETSC 2301#	0.15	mg/kg	33	150	160
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	31	330	64
Iron	DETSC 2301	25	mg/kg	38000	120000	67000
Lead	DETSC 2301#	0.3	mg/kg	28	110	200
Magnesium	DETSC 2301*	1	mg/kg	7300	15000	18000
Manganese	DETSC 2301#	20	mg/kg	660	4800	3300
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	0.12	0.30
Molybdenum	DETSC 2301#	0.4	mg/kg	0.4	3.2	1.9
Nickel	DETSC 2301#	1	mg/kg	39	56	34
Silicon	DETSC 2301*	10	mg/kg	160000	94000	120000
Vanadium	DETSC 2301#	0.8	mg/kg	40	350	320
Zinc	DETSC 2301#	1	mg/kg	96	380	360
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	8.9	11.3	11.0
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1	0.4	0.5
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6	< 0.6	< 0.6
Organic matter	DETSC 2002#	0.1	%	2.1	2.2	1.9
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	72	170	1700
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	8.9	< 0.75

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668128	1668129	1668130
				PRAIRIE_AUK_TP11	PRAIRIE_AUK_TP13	PRAIRIE_AUK_TP15
			Sample ID	9_SO_0250	3_SO_0050	2_SO_0200
			Depth	2.50	0.50	2.00
			Other ID	7	2	6
			Sample Type	ES	ES	ES
			Sampling Date	22/04/2020	22/04/2020	22/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	1.2
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	8.1
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	17
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	26
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	< 10	26
EPH (C10-C40)	DETSC 3311#	10	mg/kg			
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.19
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	0.03	0.08
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.11
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	0.04	0.10
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.05	0.79	3.5
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	0.11	0.54
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.17	1.6	4.6
Pyrene	DETSC 3303#	0.03	mg/kg	0.14	1.3	4.9
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.09	0.66	2.6
Chrysene	DETSC 3303	0.03	mg/kg	0.07	0.62	1.9
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.12	0.79	2.4
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.04	0.32	0.94
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.06	0.54	1.2
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.05	0.26	0.72
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	0.07	0.20
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.06	0.33	0.83
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	0.85	7.5	25

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668128	1668129	1668130
				PRAIRIE_AUK_TP11	PRAIRIE_AUK_TP13	PRAIRIE_AUK_TP15
			Sample ID	9_SO_0250	3_SO_0050	2_SO_0200
			Depth	2.50	0.50	2.00
			Other ID	7	2	6
			Sample Type	ES	ES	ES
			Sampling Date	22/04/2020	22/04/2020	22/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg		< 0.01	
PCB 52	DETSC 3401#	0.01	mg/kg		< 0.01	
PCB 101	DETSC 3401#	0.01	mg/kg		< 0.01	
PCB 118	DETSC 3401#	0.01	mg/kg		< 0.01	
PCB 153	DETSC 3401#	0.01	mg/kg		< 0.01	
PCB 138	DETSC 3401#	0.01	mg/kg		< 0.01	
PCB 180	DETSC 3401#	0.01	mg/kg		< 0.01	
PCB 7 Total	DETSC 3401#	0.01	mg/kg		< 0.01	
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

	Lab No	1668131	1668132	1668133
		PRAIRIE_AUK_TP15	PRAIRIE_AUK_TP15	PRAIRIE_AUK_TP15
	Sample ID	3_SO_0110	4_SO_0085	5_SO_0070
	Depth	1.10	0.85	0.70
	Other ID	4	3	3
	Sample Type	ES	ES	ES
	Sampling Date	22/04/2020	20/04/2020	21/04/2020
	Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
Asbestos Quantification	DETSC 1102	0.001	%			
Metals						
Aluminium	DETSC 2301*	1	mg/kg	23000	21000	11000
Antimony	DETSC 2301*	1	mg/kg	4.4	4.1	2.3
Arsenic	DETSC 2301#	0.2	mg/kg	11	9.2	9.4
Barium	DETSC 2301#	1.5	mg/kg	330	270	220
Beryllium	DETSC 2301#	0.2	mg/kg	2.2	2.0	2.4
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	3.0	1.6	1.0
Cadmium	DETSC 2301#	0.1	mg/kg	0.3	0.5	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg	110	200	120
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	94	40	80
Iron	DETSC 2301	25	mg/kg	47000	100000	42000
Lead	DETSC 2301#	0.3	mg/kg	330	33	18
Magnesium	DETSC 2301*	1	mg/kg	17000	17000	6300
Manganese	DETSC 2301#	20	mg/kg	7300	25000	3000
Mercury	DETSC 2325#	0.05	mg/kg	0.10	0.07	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	2.1	2.3	3.8
Nickel	DETSC 2301#	1	mg/kg	15	16	40
Silicon	DETSC 2301*	10	mg/kg	85000	68000	100000
Vanadium	DETSC 2301#	0.8	mg/kg	240	1500	480
Zinc	DETSC 2301#	1	mg/kg	85	100	37
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	11.2	11.3	10.7
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	1.7	0.8	0.4
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6	< 0.6	< 0.6
Organic matter	DETSC 2002#	0.1	%	4.2	1.6	1.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	400	300	86
Sulphur (free)	DETSC 3049#	0.75	mg/kg	8.1	10	< 0.75

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

				Lab No	1668131	1668132	1668133
					PRAIRIE_AUK_TP15	PRAIRIE_AUK_TP15	PRAIRIE_AUK_TP15
				Sample ID	3_SO_0110	4_SO_0085	5_SO_0070
				Depth	1.10	0.85	0.70
				Other ID	4	3	3
				Sample Type	ES	ES	ES
				Sampling Date	22/04/2020	20/04/2020	21/04/2020
				Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
Petroleum Hydrocarbons							
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	1.4	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	12	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	29	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	42	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	42	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg			
PAHs							
Naphthalene	DETSC 3303#	0.03	mg/kg	0.07	0.04	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.04	0.37	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	0.04	0.29	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.1	4.0	0.09
Anthracene	DETSC 3303	0.03	mg/kg	0.24	0.80	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	4.2	9.7	0.30
Pyrene	DETSC 3303#	0.03	mg/kg	4.0	9.1	0.24
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	1.7	4.9	0.14
Chrysene	DETSC 3303	0.03	mg/kg	1.4	3.6	0.12
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	2.3	4.4	0.18
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.94	1.7	0.07
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	1.9	3.2	0.09
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	1.1	1.2	0.07
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.18	0.36	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	1.4	1.3	0.07
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	21	45	1.4

Key: * -not accredited. # -MCERTS (accreditation only applies if report carries the MCERTS logo). n/s -not supplied. U/S -unsuitable.

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

	Lab No	1668131	1668132	1668133
	Sample ID	PRAIRIE_AUK_TP15 3_SO_0110	PRAIRIE_AUK_TP15 4_SO_0085	PRAIRIE_AUK_TP15 5_SO_0070
	Depth	1.10	0.85	0.70
	Other ID	4	3	3
	Sample Type	ES	ES	ES
	Sampling Date	22/04/2020	20/04/2020	21/04/2020
	Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**	
PCBs				
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg	
PCB 52	DETSC 3401#	0.01	mg/kg	
PCB 101	DETSC 3401#	0.01	mg/kg	
PCB 118	DETSC 3401#	0.01	mg/kg	
PCB 153	DETSC 3401#	0.01	mg/kg	
PCB 138	DETSC 3401#	0.01	mg/kg	
PCB 180	DETSC 3401#	0.01	mg/kg	
PCB 7 Total	DETSC 3401#	0.01	mg/kg	
Phenols				
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3 < 0.3 < 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

	Lab No	1668134	1668135	1668557
		PRAIRIE_AUK_TP16	PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP16
	Sample ID	0_SO_0075	0_SO_0100	4_SO_0070
	Depth	0.75	1.00	0.70
	Other ID	4	4	3
	Sample Type	ES	ES	ES
	Sampling Date	21/04/2020	20/04/2020	16/04/2020
	Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	12000	14000	6100
Antimony	DETSC 2301*	1	mg/kg	3.7	2.8	1.2
Arsenic	DETSC 2301#	0.2	mg/kg	17	9.8	9.6
Barium	DETSC 2301#	1.5	mg/kg	270	160	40
Beryllium	DETSC 2301#	0.2	mg/kg	1.9	1.2	0.4
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.0	1.7	0.5
Cadmium	DETSC 2301#	0.1	mg/kg	0.4	< 0.1	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg	110	41	27
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	72	52	11
Iron	DETSC 2301	25	mg/kg	58000	39000	26000
Lead	DETSC 2301#	0.3	mg/kg	100	38	9.3
Magnesium	DETSC 2301*	1	mg/kg	8700	4300	1700
Manganese	DETSC 2301#	20	mg/kg	2800	680	210
Mercury	DETSC 2325#	0.05	mg/kg	0.22	0.09	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	2.8	1.1	< 0.4
Nickel	DETSC 2301#	1	mg/kg	29	22	14
Silicon	DETSC 2301*	10	mg/kg	83000	170000	230000
Vanadium	DETSC 2301#	0.8	mg/kg	210	96	51
Zinc	DETSC 2301#	1	mg/kg	220	81	41
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.4	9.1	8.6
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.3	0.2	12
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6	< 0.6	0.9
Organic matter	DETSC 2002#	0.1	%	4.2	2.1	0.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	290	130	19
Sulphur (free)	DETSC 3049#	0.75	mg/kg	7.7	11	< 0.75

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668134	1668135	1668557
				PRAIRIE_AUK_TP16	PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP16
			Sample ID	0_SO_0075	0_SO_0100	4_SO_0070
			Depth	0.75	1.00	0.70
			Other ID	4	4	3
			Sample Type	ES	ES	ES
			Sampling Date	21/04/2020	20/04/2020	16/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg			
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.44	< 0.03	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	0.04	< 0.03	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.81	< 0.03	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	0.62	< 0.03	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.24	< 0.03	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	0.33	< 0.03	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.57	< 0.03	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.41	< 0.03	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.20	< 0.03	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.12	< 0.03	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.04	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.15	< 0.03	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	3.9	< 0.10	< 0.10

Key: * -not accredited. # -MCERTS (accreditation only applies if report carries the MCERTS logo). n/s -not supplied. U/S -unsuitable.

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668134	1668135	1668557
				PRAIRIE_AUK_TP16	PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP16
			Sample ID	0_SO_0075	0_SO_0100	4_SO_0070
			Depth	0.75	1.00	0.70
			Other ID	4	4	3
			Sample Type	ES	ES	ES
			Sampling Date	21/04/2020	20/04/2020	16/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg	< 0.01		
PCB 52	DETSC 3401#	0.01	mg/kg	0.01		
PCB 101	DETSC 3401#	0.01	mg/kg	0.02		
PCB 118	DETSC 3401#	0.01	mg/kg	0.01		
PCB 153	DETSC 3401#	0.01	mg/kg	< 0.01		
PCB 138	DETSC 3401#	0.01	mg/kg	0.02		
PCB 180	DETSC 3401#	0.01	mg/kg	< 0.01		
PCB 7 Total	DETSC 3401#	0.01	mg/kg	0.04		
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

	Lab No	1668558	1668559	1668560
		PRAIRIE_AUK_TP16	PRAIRIE_AUK_TP18	PRAIRIE_AUK_TP10
	Sample ID	4_SO_0130	4_SO_0030	6_SO_0100
	Depth	1.30	0.30	1.00
	Other ID	5	2	3
	Sample Type	ES	ES	ES
	Sampling Date	16/04/2020	16/04/2020	23/04/2020
	Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
Asbestos Quantification	DETSC 1102	0.001	%		< 0.001	
Metals						
Aluminium	DETSC 2301*	1	mg/kg	6300	10000	12000
Antimony	DETSC 2301*	1	mg/kg	1.3	6.5	9.5
Arsenic	DETSC 2301#	0.2	mg/kg	11	8.6	33
Barium	DETSC 2301#	1.5	mg/kg	51	250	330
Beryllium	DETSC 2301#	0.2	mg/kg	0.6	0.8	1.1
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.7	3.8	2.1
Cadmium	DETSC 2301#	0.1	mg/kg	0.1	0.6	2.1
Chromium	DETSC 2301#	0.15	mg/kg	32	390	82
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	22	71	150
Iron	DETSC 2301	25	mg/kg	30000	100000	95000
Lead	DETSC 2301#	0.3	mg/kg	14	44	220
Magnesium	DETSC 2301*	1	mg/kg	2000	25000	5400
Manganese	DETSC 2301#	20	mg/kg	390	22000	1700
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	1.0	0.51
Molybdenum	DETSC 2301#	0.4	mg/kg	0.5	8.2	10
Nickel	DETSC 2301#	1	mg/kg	17	62	54
Silicon	DETSC 2301*	10	mg/kg	220000	47000	14000
Vanadium	DETSC 2301#	0.8	mg/kg	76	1700	130
Zinc	DETSC 2301#	1	mg/kg	59	130	930
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	8.2	11.5	9.3
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.1	0.5	20
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	0.4
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6	< 0.6	1.1
Organic matter	DETSC 2002#	0.1	%	1.5	2.6	2.3
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	30	95	290
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	3.6	< 0.75

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668558	1668559	1668560
				PRAIRIE_AUK_TP16	PRAIRIE_AUK_TP18	PRAIRIE_AUK_TP10
			Sample ID	4_SO_0130	4_SO_0030	6_SO_0100
			Depth	1.30	0.30	1.00
			Other ID	5	2	3
			Sample Type	ES	ES	ES
			Sampling Date	16/04/2020	16/04/2020	23/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	2.7	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	18	2.9
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	24	25
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	46	28
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	0.7
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	9.5
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	46
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	56
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	46	84
EPH (C10-C40)	DETSC 3311#	10	mg/kg			
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	0.32	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	0.07	0.05
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.06	0.11
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	0.12	0.07
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03	0.53	1.8
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	0.36	0.49
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.67	5.7
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	0.46	4.8
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	0.25	2.3
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03	0.29	2.0
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.37	2.6
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.15	1.2
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	0.25	2.4
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	0.14	0.84
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	0.04	0.21
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	0.16	1.1
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10	4.3	26

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

Lab No	1668558	1668559	1668560
Sample ID	PRAIRIE_AUK_TP16 4_SO_0130	PRAIRIE_AUK_TP18 4_SO_0030	PRAIRIE_AUK_TP10 6_SO_0100
Depth	1.30	0.30	1.00
Other ID	5	2	3
Sample Type	ES	ES	ES
Sampling Date	16/04/2020	16/04/2020	23/04/2020
Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg			
PCB 52	DETSC 3401#	0.01	mg/kg			
PCB 101	DETSC 3401#	0.01	mg/kg			
PCB 118	DETSC 3401#	0.01	mg/kg			
PCB 153	DETSC 3401#	0.01	mg/kg			
PCB 138	DETSC 3401#	0.01	mg/kg			
PCB 180	DETSC 3401#	0.01	mg/kg			
PCB 7 Total	DETSC 3401#	0.01	mg/kg			
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

	Lab No	1668561	1668562	1668563
		PRAIRIE_AUK_TP11	PRAIRIE_AUK_TP11	PRAIRIE_AUK_TP11
	Sample ID	6_SO_0130	7_SO_0300	8_SO_0120
	Depth	1.30	3.00	1.20
	Other ID	3	8	3
	Sample Type	ES	ES	ES
	Sampling Date	23/04/2020	23/04/2020	23/04/2020
	Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
Asbestos Quantification	DETSC 1102	0.001	%	< 0.001	< 0.001	
Metals						
Aluminium	DETSC 2301*	1	mg/kg	49000	45000	25000
Antimony	DETSC 2301*	1	mg/kg	3.4	1.4	11
Arsenic	DETSC 2301#	0.2	mg/kg	12	11	24
Barium	DETSC 2301#	1.5	mg/kg	590	420	570
Beryllium	DETSC 2301#	0.2	mg/kg	5.4	6.1	2.3
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.9	3.1	2.3
Cadmium	DETSC 2301#	0.1	mg/kg	0.8	0.4	0.7
Chromium	DETSC 2301#	0.15	mg/kg	150	50	610
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	44	24	140
Iron	DETSC 2301	25	mg/kg	55000	24000	120000
Lead	DETSC 2301#	0.3	mg/kg	60	38	87
Magnesium	DETSC 2301*	1	mg/kg	32000	25000	33000
Manganese	DETSC 2301#	20	mg/kg	9200	3800	25000
Mercury	DETSC 2325#	0.05	mg/kg	0.15	0.12	0.09
Molybdenum	DETSC 2301#	0.4	mg/kg	4.2	0.9	6.1
Nickel	DETSC 2301#	1	mg/kg	20	10	26
Silicon	DETSC 2301*	10	mg/kg	64000	100000	60000
Vanadium	DETSC 2301#	0.8	mg/kg	150	160	1300
Zinc	DETSC 2301#	1	mg/kg	150	120	270
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	11.5	10.4	11.9
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	9.4	0.9	0.7
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	1.0	0.7	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.2	1.8	1.0
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	780	1100	110
Sulphur (free)	DETSC 3049#	0.75	mg/kg	29	5.6	< 0.75

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668561	1668562	1668563
				PRAIRIE_AUK_TP11	PRAIRIE_AUK_TP11	PRAIRIE_AUK_TP11
			Sample ID	6_SO_0130	7_SO_0300	8_SO_0120
			Depth	1.30	3.00	1.20
			Other ID	3	8	3
			Sample Type	ES	ES	ES
			Sampling Date	23/04/2020	23/04/2020	23/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	7.1
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	29
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	36
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	< 10	36
EPH (C10-C40)	DETSC 3311#	10	mg/kg			
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	0.16	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	0.17	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.38	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	1.0	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.16	7.2	0.26
Anthracene	DETSC 3303	0.03	mg/kg	0.03	1.6	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.48	18	0.64
Pyrene	DETSC 3303#	0.03	mg/kg	0.34	15	0.42
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.19	8.1	0.25
Chrysene	DETSC 3303	0.03	mg/kg	0.23	5.8	0.29
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.38	6.1	0.40
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.13	2.5	0.16
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.26	5.5	0.29
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.13	1.4	0.12
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.03	0.46	0.04
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.15	1.7	0.17
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	2.5	75	3.0

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

	Lab No	1668561	1668562	1668563
	Sample ID	PRAIRIE_AUK_TP11 6_SO_0130	PRAIRIE_AUK_TP11 7_SO_0300	PRAIRIE_AUK_TP11 8_SO_0120
	Depth	1.30	3.00	1.20
	Other ID	3	8	3
	Sample Type	ES	ES	ES
	Sampling Date	23/04/2020	23/04/2020	23/04/2020
	Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**	
PCBs				
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg	
PCB 52	DETSC 3401#	0.01	mg/kg	
PCB 101	DETSC 3401#	0.01	mg/kg	
PCB 118	DETSC 3401#	0.01	mg/kg	
PCB 153	DETSC 3401#	0.01	mg/kg	
PCB 138	DETSC 3401#	0.01	mg/kg	
PCB 180	DETSC 3401#	0.01	mg/kg	
PCB 7 Total	DETSC 3401#	0.01	mg/kg	
Phenols				
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668564	1668565	1668566
				PRAIRIE_AUK_TP12	PRAIRIE_AUK_TP127	PRAIRIE_AUK_TP14
			Sample ID	7_SO_0030	A_SO_0280	0_SO_0100
			Depth	0.30	2.80	1.00
			Other ID	3	3	3
			Sample Type	ES	ES	ES
			Sampling Date	23/04/2020	23/04/2020	23/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Asbestos Quantification	DETSC 1102	0.001	%			
Metals						
Aluminium	DETSC 2301*	1	mg/kg	10000	9000	52000
Antimony	DETSC 2301*	1	mg/kg	11	1.1	1.6
Arsenic	DETSC 2301#	0.2	mg/kg	2.2	6.2	10
Barium	DETSC 2301#	1.5	mg/kg	130	230	520
Beryllium	DETSC 2301#	0.2	mg/kg	0.3	1.2	6.5
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	3.2	1.0	2.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.4	0.1	0.3
Chromium	DETSC 2301#	0.15	mg/kg	740	30	38
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	25	23	36
Iron	DETSC 2301	25	mg/kg	170000	23000	19000
Lead	DETSC 2301#	0.3	mg/kg	15	27	33
Magnesium	DETSC 2301*	1	mg/kg	40000	2500	33000
Manganese	DETSC 2301#	20	mg/kg	19000	560	4100
Mercury	DETSC 2325#	0.05	mg/kg	0.24	0.05	0.06
Molybdenum	DETSC 2301#	0.4	mg/kg	5.1	0.6	0.8
Nickel	DETSC 2301#	1	mg/kg	25	20	7.1
Silicon	DETSC 2301*	10	mg/kg	37000	150000	73000
Vanadium	DETSC 2301#	0.8	mg/kg	500	41	96
Zinc	DETSC 2301#	1	mg/kg	60	89	75
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	12.2	9.6	10.4
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	1.3	0.3	0.2
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.6	< 0.6	0.6
Organic matter	DETSC 2002#	0.1	%	0.6	0.4	1.5
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	10	150	290
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	< 0.75	2.9

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668564	1668565	1668566
				PRAIRIE_AUK_TP12	PRAIRIE_AUK_TP127	PRAIRIE_AUK_TP14
			Sample ID	7_SO_0030	A_SO_0280	0_SO_0100
			Depth	0.30	2.80	1.00
			Other ID	3	3	3
			Sample Type	ES	ES	ES
			Sampling Date	23/04/2020	23/04/2020	23/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg			
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.47
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	0.06
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.05	< 0.03	0.85
Pyrene	DETSC 3303#	0.03	mg/kg	0.04	< 0.03	0.55
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.16
Chrysene	DETSC 3303	0.03	mg/kg	0.04	< 0.03	0.30
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.03	< 0.03	0.28
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.09
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.15
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.08
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.10
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	0.16	< 0.10	3.1

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668564	1668565	1668566
			Sample ID	PRAIRIE_AUK_TP127_SO_0030	PRAIRIE_AUK_TP127A_SO_0280	PRAIRIE_AUK_TP140_SO_0100
			Depth	0.30	2.80	1.00
			Other ID	3	3	3
			Sample Type	ES	ES	ES
			Sampling Date	23/04/2020	23/04/2020	23/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg			
PCB 52	DETSC 3401#	0.01	mg/kg			
PCB 101	DETSC 3401#	0.01	mg/kg			
PCB 118	DETSC 3401#	0.01	mg/kg			
PCB 153	DETSC 3401#	0.01	mg/kg			
PCB 138	DETSC 3401#	0.01	mg/kg			
PCB 180	DETSC 3401#	0.01	mg/kg			
PCB 7 Total	DETSC 3401#	0.01	mg/kg			
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	0.4

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668567	1668568	1668569
				PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP14
			Sample ID	1_SO_0200	2_SO_0090	2_SO_0150
			Depth	2.00	0.90	1.50
			Other ID	4	3	4
			Sample Type	ES	ES	ES
			Sampling Date	23/04/2020	23/04/2020	23/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Asbestos Quantification	DETSC 1102	0.001	%			
Metals						
Aluminium	DETSC 2301*	1	mg/kg	8900	4300	2700
Antimony	DETSC 2301*	1	mg/kg	34	16	36
Arsenic	DETSC 2301#	0.2	mg/kg	130	32	130
Barium	DETSC 2301#	1.5	mg/kg	350	50	92
Beryllium	DETSC 2301#	0.2	mg/kg	0.7	< 0.2	< 0.2
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.9	0.4	1.0
Cadmium	DETSC 2301#	0.1	mg/kg	15	1.5	5.7
Chromium	DETSC 2301#	0.15	mg/kg	450	220	310
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	1700	220	1400
Iron	DETSC 2301	25	mg/kg	260000	450000	650000
Lead	DETSC 2301#	0.3	mg/kg	1200	170	550
Magnesium	DETSC 2301*	1	mg/kg	14000	7400	2600
Manganese	DETSC 2301#	20	mg/kg	10000	10000	4000
Mercury	DETSC 2325#	0.05	mg/kg	0.37	0.11	0.14
Molybdenum	DETSC 2301#	0.4	mg/kg	21	17	61
Nickel	DETSC 2301#	1	mg/kg	200	82	320
Silicon	DETSC 2301*	10	mg/kg	37000	15000	22000
Vanadium	DETSC 2301#	0.8	mg/kg	740	170	140
Zinc	DETSC 2301#	1	mg/kg	3100	170	890
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	11.1	11.9	10.7
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	2.1	< 0.1	0.7
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.9	< 0.6	0.7
Organic matter	DETSC 2002#	0.1	%	10	10	6.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	770	31	210
Sulphur (free)	DETSC 3049#	0.75	mg/kg	220	30	< 0.75

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668567	1668568	1668569
				PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP14
			Sample ID	1_SO_0200	2_SO_0090	2_SO_0150
			Depth	2.00	0.90	1.50
			Other ID	4	3	4
			Sample Type	ES	ES	ES
			Sampling Date	23/04/2020	23/04/2020	23/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	0.10
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	10	3.5	8.6
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	130	37	41
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	1300	300	260
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	5600	6100	2300
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	7000	6400	2600
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	0.11
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	0.06
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	3.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	97	19	21
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	1400	160	160
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	6600	2100	1000
Aromatic C5-C35	DETSC 3072*	10	mg/kg	8100	2200	1200
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	15000	8700	3800
EPH (C10-C40)	DETSC 3311#	10	mg/kg			
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	0.35	0.12	0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.11	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.61	0.23	0.04
Fluorene	DETSC 3303	0.03	mg/kg	0.97	0.18	0.10
Phenanthrene	DETSC 3303#	0.03	mg/kg	3.0	0.90	0.33
Anthracene	DETSC 3303	0.03	mg/kg	0.57	0.25	0.18
Fluoranthene	DETSC 3303#	0.03	mg/kg	4.9	1.6	0.13
Pyrene	DETSC 3303#	0.03	mg/kg	3.8	1.1	0.17
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	1.8	0.45	0.05
Chrysene	DETSC 3303	0.03	mg/kg	2.7	0.68	0.21
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	2.3	0.76	0.07
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.95	0.39	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	1.7	0.54	0.04
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.64	0.25	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.18	0.08	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.78	0.33	0.04
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	25	7.9	1.4

Key: * -not accredited. # -MCERTS (accreditation only applies if report carries the MCERTS logo). n/s -not supplied. U/S -unsuitable.

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668567	1668568	1668569
				PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP14
			Sample ID	1_SO_0200	2_SO_0090	2_SO_0150
			Depth	2.00	0.90	1.50
			Other ID	4	3	4
			Sample Type	ES	ES	ES
			Sampling Date	23/04/2020	23/04/2020	23/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg			
PCB 52	DETSC 3401#	0.01	mg/kg			
PCB 101	DETSC 3401#	0.01	mg/kg			
PCB 118	DETSC 3401#	0.01	mg/kg			
PCB 153	DETSC 3401#	0.01	mg/kg			
PCB 138	DETSC 3401#	0.01	mg/kg			
PCB 180	DETSC 3401#	0.01	mg/kg			
PCB 7 Total	DETSC 3401#	0.01	mg/kg			
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	0.5	< 0.3	0.8

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

	Lab No	1668570	1668571	1668572
		PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP15
	Sample ID	3_SO_0080	3_SO_0160	1_SO_0120
	Depth	0.80	1.60	1.20
	Other ID	3	6	5
	Sample Type	ES	ES	ES
	Sampling Date	23/04/2020	23/04/2020	23/04/2020
	Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	39000	12000	47000
Antimony	DETSC 2301*	1	mg/kg	4.3	17	3.4
Arsenic	DETSC 2301#	0.2	mg/kg	20	68	18
Barium	DETSC 2301#	1.5	mg/kg	570	210	590
Beryllium	DETSC 2301#	0.2	mg/kg	4.0	0.9	5.5
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.6	1.7	2.7
Cadmium	DETSC 2301#	0.1	mg/kg	0.6	2.7	0.9
Chromium	DETSC 2301#	0.15	mg/kg	120	180	120
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	82	650	84
Iron	DETSC 2301	25	mg/kg	81000	320000	78000
Lead	DETSC 2301#	0.3	mg/kg	190	310	90
Magnesium	DETSC 2301*	1	mg/kg	25000	3600	29000
Manganese	DETSC 2301#	20	mg/kg	4100	2500	5400
Mercury	DETSC 2325#	0.05	mg/kg	0.45	0.09	0.25
Molybdenum	DETSC 2301#	0.4	mg/kg	3.4	29	3.0
Nickel	DETSC 2301#	1	mg/kg	23	200	26
Silicon	DETSC 2301*	10	mg/kg	73000	110000	48000
Vanadium	DETSC 2301#	0.8	mg/kg	150	97	250
Zinc	DETSC 2301#	1	mg/kg	230	510	490
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.4	10.4	10.0
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	4.6	< 0.1	0.7
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.7	< 0.6	0.7
Organic matter	DETSC 2002#	0.1	%	1.8	7.6	3.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	170	200	490
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	1.7	49

Summary of Chemical Analysis
Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668570	1668571	1668572
				PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP15
			Sample ID	3_SO_0080	3_SO_0160	1_SO_0120
			Depth	0.80	1.60	1.20
			Other ID	3	6	5
			Sample Type	ES	ES	ES
			Sampling Date	23/04/2020	23/04/2020	23/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	2.8
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	4.8
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	39
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	4.5	3.6	180
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	220
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	1.0
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	8.2	< 0.6	18
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	24	< 1.4	95
Aromatic C5-C35	DETSC 3072*	10	mg/kg	32	< 10	110
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	37	< 10	340
EPH (C10-C40)	DETSC 3311#	10	mg/kg			
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.03	< 0.03	0.04
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.06	< 0.03	0.24
Fluorene	DETSC 3303	0.03	mg/kg	0.05	< 0.03	0.18
Phenanthrene	DETSC 3303#	0.03	mg/kg	2.2	< 0.03	2.8
Anthracene	DETSC 3303	0.03	mg/kg	0.50	< 0.03	0.64
Fluoranthene	DETSC 3303#	0.03	mg/kg	9.9	< 0.03	7.2
Pyrene	DETSC 3303#	0.03	mg/kg	9.2	< 0.03	5.9
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	5.8	< 0.03	3.0
Chrysene	DETSC 3303	0.03	mg/kg	4.3	< 0.03	2.3
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	6.1	< 0.03	3.1
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	2.3	< 0.03	1.3
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	3.9	< 0.03	2.7
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	1.7	< 0.03	0.84
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.52	< 0.03	0.23
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	2.2	< 0.03	1.2
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	49	< 0.10	32

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668570	1668571	1668572
				PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP15
			Sample ID	3_SO_0080	3_SO_0160	1_SO_0120
			Depth	0.80	1.60	1.20
			Other ID	3	6	5
			Sample Type	ES	ES	ES
			Sampling Date	23/04/2020	23/04/2020	23/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg			
PCB 52	DETSC 3401#	0.01	mg/kg			
PCB 101	DETSC 3401#	0.01	mg/kg			
PCB 118	DETSC 3401#	0.01	mg/kg			
PCB 153	DETSC 3401#	0.01	mg/kg			
PCB 138	DETSC 3401#	0.01	mg/kg			
PCB 180	DETSC 3401#	0.01	mg/kg			
PCB 7 Total	DETSC 3401#	0.01	mg/kg			
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668657	1668869	1669251
				PRAIRIE_AUK_TP13	PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP11
			Sample ID	9_SO_0110	4_SO_0080	2_SO_0210
			Depth	1.10	0.80	2.10
			Other ID	4	3	7
			Sample Type	ES	ES	ES
			Sampling Date	16/04/2020	24/04/2020	22/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Asbestos Quantification	DETSC 1102	0.001	%		0.001	
Metals						
Aluminium	DETSC 2301*	1	mg/kg	15000	47000	12000
Antimony	DETSC 2301*	1	mg/kg	12	4.4	6.6
Arsenic	DETSC 2301#	0.2	mg/kg	75	24	26
Barium	DETSC 2301#	1.5	mg/kg	820	470	280
Beryllium	DETSC 2301#	0.2	mg/kg	1.4	6.0	1.5
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	39	2.7	1.6
Cadmium	DETSC 2301#	0.1	mg/kg	17	0.8	0.7
Chromium	DETSC 2301#	0.15	mg/kg	47	66	340
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	90	220	67
Iron	DETSC 2301	25	mg/kg	110000	76000	90000
Lead	DETSC 2301#	0.3	mg/kg	1100	130	90
Magnesium	DETSC 2301*	1	mg/kg	25000	24000	19000
Manganese	DETSC 2301#	20	mg/kg	64000	3600	9900
Mercury	DETSC 2325#	0.05	mg/kg	3.6	0.68	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	7.9	4.9	2.1
Nickel	DETSC 2301#	1	mg/kg	42	35	28
Silicon	DETSC 2301*	10	mg/kg	37000	56000	58000
Vanadium	DETSC 2301#	0.8	mg/kg	46	81	1500
Zinc	DETSC 2301#	1	mg/kg	1200	550	470
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	9.4	9.7	11.7
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	470	6.8	0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	1.0	0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	21	1.0	< 0.6
Organic matter	DETSC 2002#	0.1	%	2.6	2.3	1.9
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	520	370	110
Sulphur (free)	DETSC 3049#	0.75	mg/kg	95	57	2.5

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668657	1668869	1669251
				PRAIRIE_AUK_TP13	PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP11
			Sample ID	9_SO_0110	4_SO_0080	2_SO_0210
			Depth	1.10	0.80	2.10
			Other ID	4	3	7
			Sample Type	ES	ES	ES
			Sampling Date	16/04/2020	24/04/2020	22/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	4.2	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	3.8	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	7.9	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	39	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	55	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	55	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg			
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	3.8	0.10	0.05
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	0.07	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.29	0.11	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	0.13	0.16	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.74	1.7	2.8
Anthracene	DETSC 3303	0.03	mg/kg	0.31	0.34	0.47
Fluoranthene	DETSC 3303#	0.03	mg/kg	1.3	2.6	4.0
Pyrene	DETSC 3303#	0.03	mg/kg	0.72	2.3	2.7
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.39	1.2	0.79
Chrysene	DETSC 3303	0.03	mg/kg	0.61	1.6	0.75
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.54	2.0	0.64
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.14	0.78	0.30
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.33	1.3	0.28
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.07	0.87	0.24
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.04	0.29	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.14	1.2	0.20
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	9.5	17	13

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668657	1668869	1669251
				PRAIRIE_AUK_TP13	PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP11
			Sample ID	9_SO_0110	4_SO_0080	2_SO_0210
			Depth	1.10	0.80	2.10
			Other ID	4	3	7
			Sample Type	ES	ES	ES
			Sampling Date	16/04/2020	24/04/2020	22/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg			
PCB 52	DETSC 3401#	0.01	mg/kg			
PCB 101	DETSC 3401#	0.01	mg/kg			
PCB 118	DETSC 3401#	0.01	mg/kg			
PCB 153	DETSC 3401#	0.01	mg/kg			
PCB 138	DETSC 3401#	0.01	mg/kg			
PCB 180	DETSC 3401#	0.01	mg/kg			
PCB 7 Total	DETSC 3401#	0.01	mg/kg			
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1670142	1670143	1670144
				PRAIRIE_AUK_TP194	PRAIRIE_AUK_TP196	PRAIRIE_AUK_TP20
			Sample ID	A_SO_0140	A_SO_0140	1_SO_0360
			Depth	1.40	1.40	3.60
			Other ID	1	1	1
			Sample Type	ES	ES	ES
			Sampling Date	29/04/2020	29/04/2020	28/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Asbestos Quantification	DETSC 1102	0.001	%			
Metals						
Aluminium	DETSC 2301*	1	mg/kg	73000	77000	23000
Antimony	DETSC 2301*	1	mg/kg	< 1.0	1.3	6.5
Arsenic	DETSC 2301#	0.2	mg/kg	8.4	7.6	100
Barium	DETSC 2301#	1.5	mg/kg	210	200	190
Beryllium	DETSC 2301#	0.2	mg/kg	9.7	8.9	3.0
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	16	2.2	4.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.1	0.1	2.1
Chromium	DETSC 2301#	0.15	mg/kg	14	66	84
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	18	15	170
Iron	DETSC 2301	25	mg/kg	9400	14000	150000
Lead	DETSC 2301#	0.3	mg/kg	11	9.2	320
Magnesium	DETSC 2301*	1	mg/kg	28000	31000	7900
Manganese	DETSC 2301#	20	mg/kg	1300	2700	3100
Mercury	DETSC 2325#	0.05	mg/kg	0.37	0.22	0.27
Molybdenum	DETSC 2301#	0.4	mg/kg	< 0.4	< 0.4	4.1
Nickel	DETSC 2301#	1	mg/kg	4.9	4.1	110
Silicon	DETSC 2301*	10	mg/kg	140000	160000	54000
Vanadium	DETSC 2301#	0.8	mg/kg	53	270	270
Zinc	DETSC 2301#	1	mg/kg	57	37	2000
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	10.8	10.3	8.2
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	24	50	14
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.2	0.5	0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	2.2	3.7	0.7
Organic matter	DETSC 2002#	0.1	%	1.9	1.8	2.6
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	530	470	1800
Sulphur (free)	DETSC 3049#	0.75	mg/kg	93	69	0.75

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1670142	1670143	1670144
				PRAIRIE_AUK_TP194	PRAIRIE_AUK_TP196	PRAIRIE_AUK_TP20
			Sample ID	A_SO_0140	A_SO_0140	1_SO_0360
			Depth	1.40	1.40	3.60
			Other ID	1	1	1
			Sample Type	ES	ES	ES
			Sampling Date	29/04/2020	29/04/2020	28/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	0.12	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	1.8	7.1	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	45	3.8	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	190	7.6	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	40	< 3.4	16
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	280	19	17
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	0.16	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	0.08	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	4.4	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	6800	390	17
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	3500	290	7.9
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	620	64	4.7
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	170	23	16
Aromatic C5-C35	DETSC 3072*	10	mg/kg	11000	770	45
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	11000	790	62
EPH (C10-C40)	DETSC 3311#	10	mg/kg			
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	1100	220	0.20
Acenaphthylene	DETSC 3303#	0.03	mg/kg	46	9.9	0.27
Acenaphthene	DETSC 3303#	0.03	mg/kg	780	230	0.13
Fluorene	DETSC 3303	0.03	mg/kg	330	120	0.10
Phenanthrene	DETSC 3303#	0.03	mg/kg	230	74	0.52
Anthracene	DETSC 3303	0.03	mg/kg	49	17	0.13
Fluoranthene	DETSC 3303#	0.03	mg/kg	41	14	1.0
Pyrene	DETSC 3303#	0.03	mg/kg	25	8.9	0.78
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	6.5	1.5	0.52
Chrysene	DETSC 3303	0.03	mg/kg	5.0	1.2	0.85
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	2.9	0.75	2.4
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	1.2	0.28	0.85
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	1.8	0.53	0.72
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.56	0.19	1.1
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.19	0.05	0.32
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.80	0.21	1.4
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	2600	690	11

Key: * -not accredited. # -MCERTS (accreditation only applies if report carries the MCERTS logo). n/s -not supplied. U/S -unsuitable.

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1670142	1670143	1670144
				PRAIRIE_AUK_TP194	PRAIRIE_AUK_TP196	PRAIRIE_AUK_TP20
			Sample ID	A_SO_0140	A_SO_0140	1_SO_0360
			Depth	1.40	1.40	3.60
			Other ID	1	1	1
			Sample Type	ES	ES	ES
			Sampling Date	29/04/2020	29/04/2020	28/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg			
PCB 52	DETSC 3401#	0.01	mg/kg			
PCB 101	DETSC 3401#	0.01	mg/kg			
PCB 118	DETSC 3401#	0.01	mg/kg			
PCB 153	DETSC 3401#	0.01	mg/kg			
PCB 138	DETSC 3401#	0.01	mg/kg			
PCB 180	DETSC 3401#	0.01	mg/kg			
PCB 7 Total	DETSC 3401#	0.01	mg/kg			
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	0.4	0.5	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1670502	1675450	1675451
				PRAIRIE_AUK_TP19	PRAIRIE_AUK_BH10	PRAIRIE_AUK_BH10
			Sample ID	3_SO_0080	1_SO_0300	7_SO_0300
			Depth	0.80	3.00	3.00
			Other ID	1	1	1
			Sample Type	ES	ES	ES
			Sampling Date	30/04/2020	27/04/2020	24/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Asbestos Quantification	DETSC 1102	0.001	%			
Metals						
Aluminium	DETSC 2301*	1	mg/kg	890	12000	18000
Antimony	DETSC 2301*	1	mg/kg	< 1.0	1.6	3.4
Arsenic	DETSC 2301#	0.2	mg/kg	4.0	8.3	12
Barium	DETSC 2301#	1.5	mg/kg	85	290	440
Beryllium	DETSC 2301#	0.2	mg/kg	< 0.2	1.1	2.3
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.9	1.1	0.9
Cadmium	DETSC 2301#	0.1	mg/kg	0.6	0.3	1.1
Chromium	DETSC 2301#	0.15	mg/kg	3.9	26	68
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	9.7	27	73
Iron	DETSC 2301	25	mg/kg	4400	32000	41000
Lead	DETSC 2301#	0.3	mg/kg	20	33	71
Magnesium	DETSC 2301*	1	mg/kg	3700	7700	6500
Manganese	DETSC 2301#	20	mg/kg	330	730	960
Mercury	DETSC 2325#	0.05	mg/kg	0.71	0.05	0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	0.4	0.6	2.3
Nickel	DETSC 2301#	1	mg/kg	3.8	32	63
Silicon	DETSC 2301*	10	mg/kg	9400	160000	170000
Vanadium	DETSC 2301#	0.8	mg/kg	11	27	39
Zinc	DETSC 2301#	1	mg/kg	140	110	130
Inorganics						
Loss on Ignition at 440oC	DETSC 2003#	0.01	%			
pH	DETSC 2008#		pH	10.3	7.8	7.8
Calorific Value	DETSC 5008	1	MJ/kg			
Cyanide, Total	DETSC 2130#	0.1	mg/kg	130	0.9	0.3
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.5	< 0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6	< 0.6	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.3	2.8	2.3
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	270	230	130
Sulphur (free)	DETSC 3049#	0.75	mg/kg	43	< 0.75	< 0.75

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1670502	1675450	1675451
				PRAIRIE_AUK_TP19	PRAIRIE_AUK_BH10	PRAIRIE_AUK_BH10
			Sample ID	3_SO_0080	1_SO_0300	7_SO_0300
			Depth	0.80	3.00	3.00
			Other ID	1	1	1
			Sample Type	ES	ES	ES
			Sampling Date	30/04/2020	27/04/2020	24/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	6.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	14	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	22	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	0.95	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	41	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	300	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	67	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	28	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	440	< 10	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	460	< 10	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg			
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	140	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	22	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	310	< 0.03	0.11
Fluorene	DETSC 3303	0.03	mg/kg	120	< 0.03	0.10
Phenanthrene	DETSC 3303#	0.03	mg/kg	68	< 0.03	0.37
Anthracene	DETSC 3303	0.03	mg/kg	26	< 0.03	0.04
Fluoranthene	DETSC 3303#	0.03	mg/kg	24	< 0.03	0.27
Pyrene	DETSC 3303#	0.03	mg/kg	15	< 0.03	0.19
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	2.4	< 0.03	0.06
Chrysene	DETSC 3303	0.03	mg/kg	2.0	< 0.03	0.09
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.95	< 0.03	0.05
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.47	< 0.03	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.63	< 0.03	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.20	< 0.03	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.06	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.21	< 0.03	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	730	< 0.10	1.3

Summary of Chemical Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1670502	1675450	1675451
			Sample ID	PRAIRIE_AUK_TP19 3_SO_0080	PRAIRIE_AUK_BH10 1_SO_0300	PRAIRIE_AUK_BH10 7_SO_0300
			Depth	0.80	3.00	3.00
			Other ID	1	1	1
			Sample Type	ES	ES	ES
			Sampling Date	30/04/2020	27/04/2020	24/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PCBs						
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg			
PCB 52	DETSC 3401#	0.01	mg/kg			
PCB 101	DETSC 3401#	0.01	mg/kg			
PCB 118	DETSC 3401#	0.01	mg/kg			
PCB 153	DETSC 3401#	0.01	mg/kg			
PCB 138	DETSC 3401#	0.01	mg/kg			
PCB 180	DETSC 3401#	0.01	mg/kg			
PCB 7 Total	DETSC 3401#	0.01	mg/kg			
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-0
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665134	1665141	1665588
				PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP10	PRAIRIE_AUK_TP11
			Sample ID	5_SO_0080	8_SO_0200	4_SO_0090
			Depth	0.80	2.00	0.90
			Other ID	3	8	6
			Sample Type	ES	ES	ES
			Sampling Date	06/04/2020	06/04/2020	07/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
VOCs						
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
Benzene	DETSC 3431	0.01	mg/kg	0.02	< 0.01	13
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	0.64
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
Toluene	DETSC 3431	0.01	mg/kg	0.03	< 0.01	12
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
Ethylbenzene	DETSC 3431	0.01	mg/kg	0.03	< 0.01	0.74
m+p-Xylene	DETSC 3431	0.01	mg/kg	0.15	< 0.01	11
o-Xylene	DETSC 3431	0.01	mg/kg	0.08	< 0.01	4.5
Styrene	DETSC 3431*	0.01	mg/kg	0.05	< 0.01	5.6
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.10
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	0.05	< 0.01	3.5

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-0
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

				Lab No	1665134	1665141	1665588
					PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP10	PRAIRIE_AUK_TP11
				Sample ID	5_SO_0080	8_SO_0200	4_SO_0090
				Depth	0.80	2.00	0.90
				Other ID	3	8	6
				Sample Type	ES	ES	ES
				Sampling Date	06/04/2020	06/04/2020	07/04/2020
				Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
4-chlorotoluene	DETSC 3431	0.01	mg/kg		< 0.01	< 0.01	< 0.10
Tert-butylbenzene	DETSC 3431	0.01	mg/kg		< 0.01	< 0.01	1.2
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg		0.10	< 0.01	5.3
sec-butylbenzene	DETSC 3431	0.01	mg/kg		< 0.01	< 0.01	< 0.10
p-isopropyltoluene	DETSC 3431	0.01	mg/kg		< 0.01	< 0.01	< 0.10
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg		< 0.01	< 0.01	< 0.10
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg		< 0.01	< 0.01	< 0.10
n-butylbenzene	DETSC 3431	0.01	mg/kg		< 0.01	< 0.01	< 0.10
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg		< 0.01	< 0.01	< 0.10
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg		< 0.01	< 0.01	< 0.10
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg		< 0.01	< 0.01	< 0.10
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg		< 0.01	< 0.01	< 0.10
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg		< 0.01	< 0.01	< 0.10
MTBE	DETSC 3431*	0.01	mg/kg		< 0.01	< 0.01	< 0.10
SVOCs							
Phenol	DETSC 3433	0.1	mg/kg		3.8	0.3	180
Aniline	DETSC 3433*	0.1	mg/kg		0.5	< 0.1	< 100.0
2-Chlorophenol	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 100.0
Benzyl Alcohol	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 100.0
2-Methylphenol	DETSC 3433	0.1	mg/kg		2.7	< 0.1	< 100.0
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 100.0
3&4-Methylphenol	DETSC 3433	0.1	mg/kg		5.3	0.4	150
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg		4.7	0.2	< 100.0
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 100.0
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 100.0
1,2,4-Trichlorobenzene	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 100.0
4-Chloro-3-methylphenol	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 100.0
2-Methylnaphthalene	DETSC 3433	0.1	mg/kg		80	0.6	3000
Hexachlorocyclopentadiene	DETSC 3433*	0.1	mg/kg		< 0.1	< 0.1	< 100.0
2,4,6-Trichlorophenol	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 100.0
2,4,5-Trichlorophenol	DETSC 3433*	0.1	mg/kg		< 0.1	< 0.1	< 100.0
2-Chloronaphthalene	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 100.0
2-Nitroaniline	DETSC 3433*	0.1	mg/kg		< 0.1	< 0.1	< 100.0
2,4-Dinitrotoluene	DETSC 3433*	0.1	mg/kg		< 0.1	< 0.1	< 100.0
3-Nitroaniline	DETSC 3433*	0.1	mg/kg		< 0.1	< 0.1	< 100.0
4-Nitrophenol	DETSC 3433*	0.1	mg/kg		< 0.1	< 0.1	< 100.0
Dibenzofuran	DETSC 3433	0.1	mg/kg		500	1.0	3300
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 100.0
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg		< 0.1	< 0.1	< 100.0

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-0
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665134	1665141	1665588
				PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP10	PRAIRIE_AUK_TP11
			Sample ID	5_SO_0080	8_SO_0200	4_SO_0090
			Depth	0.80	2.00	0.90
			Other ID	3	8	6
			Sample Type	ES	ES	ES
			Sampling Date	06/04/2020	06/04/2020	07/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Diethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 100.0
4-Chlorophenylphenylether	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 100.0
4-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 100.0
2-Methyl-4,6-Dinitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 100.0
Diphenylamine	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 100.0
4-Bromophenylphenylether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 100.0
Hexachlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 100.0
Pentachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 100.0
Di-n-butylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 100.0
Butylbenzylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 100.0
Bis(2-ethylhexyl)phthalate	DETSC 3433	0.1	mg/kg	0.3	< 0.1	< 100.0
Di-n-octylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 100.0
1,4-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 100.0
Dimethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 100.0
1,3-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 100.0
1,2-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 100.0
2,3,5,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 100.0
Azobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 100.0
Carbazole	DETSC 3433*	0.1	mg/kg	32	1.0	2200

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,27758,20-07838,20-07839,20-07890,20-08118,20-08189,20-0838
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665610	1665611	1665612
				PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP18
			Sample ID	9_SO_0140	9_SO_0200	1_SO_0060
			Depth	1.40	2.00	0.60
			Other ID	4	7	3
			Sample Type	ES	ES	ES
			Sampling Date	09/04/2020	09/04/2020	09/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
VOCs						
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	0.03	< 0.01	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	0.19	< 0.01	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01	0.01	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	0.11	< 0.01	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	4.5	< 0.01	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	0.62	0.01	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	0.28	< 0.01	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	0.53	< 0.01	< 0.01

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,27758,20-07838,20-07839,20-07890,20-08118,20-08189,20-0838
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665610	1665611	1665612
				PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP18
			Sample ID	9_SO_0140	9_SO_0200	1_SO_0060
			Depth	1.40	2.00	0.60
			Other ID	4	7	3
			Sample Type	ES	ES	ES
			Sampling Date	09/04/2020	09/04/2020	09/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	0.21	< 0.01	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	0.83	0.01	0.01
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
SVOCs						
Phenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Chlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Benzyl Alcohol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	DETSC 3433	0.1	mg/kg	64	0.3	0.5
Hexachlorocyclopentadiene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
3-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Nitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dibenzofuran	DETSC 3433	0.1	mg/kg	49	0.2	0.5
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,27758,20-07838,20-07839,20-07890,20-08118,20-08189,20-0838
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665610	1665611	1665612
			Sample ID	PRAIRIE_AUK_TP17_SO_0140	PRAIRIE_AUK_TP17_SO_0200	PRAIRIE_AUK_TP18_SO_0060
			Depth	1.40	2.00	0.60
			Other ID	4	7	3
			Sample Type	ES	ES	ES
			Sampling Date	09/04/2020	09/04/2020	09/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Diethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Chlorophenylphenylether	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Methyl-4,6-Dinitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Diphenylamine	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Bromophenylphenylether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Pentachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Di-n-butylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Butylbenzylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bis(2-ethylhexyl)phthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Di-n-octylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,4-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	2.6	< 0.1	< 0.1
Dimethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,3-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,2-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,3,5,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Azobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Carbazole	DETSC 3433*	0.1	mg/kg	0.7	< 0.1	< 0.1

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,21,20-09141,20-09144,20-09146,20-09147,20-09149
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

				Lab No	1665613	1665990	1665995
				Sample ID	PRAIRIE_AUK_TP18 2_SO_0090	PRAIRIE_AUK_TP14 5_SO_0160	PRAIRIE_AUK_TP16 3_SO_0120
				Depth	0.90	1.60	1.20
				Other ID	3	4	3
				Sample Type	ES	ES	ES
				Sampling Date	09/04/2020	14/04/2020	14/04/2020
				Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
VOCs							
Vinyl Chloride	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
Benzene	DETSC 3431	0.01	mg/kg		2.9	< 0.01	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg		0.14	< 0.01	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
Toluene	DETSC 3431	0.01	mg/kg		5.0	< 0.01	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg		2.3	< 0.01	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg		17	< 0.01	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg		8.1	< 0.01	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg		5.1	< 0.01	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
Isopropylbenzene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg		7.0	< 0.01	< 0.01

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,21,20-09141,20-09144,20-09146,20-09147,20-09149
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

				Lab No	1665613	1665990	1665995
					PRAIRIE_AUK_TP18	PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP16
				Sample ID	2_SO_0090	5_SO_0160	3_SO_0120
				Depth	0.90	1.60	1.20
				Other ID	3	4	3
				Sample Type	ES	ES	ES
				Sampling Date	09/04/2020	14/04/2020	14/04/2020
				Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
4-chlorotoluene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg		2.9	< 0.01	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg		10	< 0.01	< 0.01
sec-butylbenzene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.01	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg		< 0.10	< 0.01	< 0.01
SVOCs							
Phenol	DETSC 3433	0.1	mg/kg		< 1.0	< 0.1	0.2
Aniline	DETSC 3433*	0.1	mg/kg		< 1.0	< 0.1	< 0.1
2-Chlorophenol	DETSC 3433	0.1	mg/kg		< 1.0	< 0.1	< 0.1
Benzyl Alcohol	DETSC 3433	0.1	mg/kg		< 1.0	< 0.1	< 0.1
2-Methylphenol	DETSC 3433	0.1	mg/kg		< 1.0	< 0.1	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg		< 1.0	< 0.1	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg		< 1.0	< 0.1	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg		< 1.0	< 0.1	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg		< 1.0	< 0.1	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg		< 1.0	< 0.1	< 0.1
1,2,4-Trichlorobenzene	DETSC 3433	0.1	mg/kg		< 1.0	< 0.1	< 0.1
4-Chloro-3-methylphenol	DETSC 3433	0.1	mg/kg		< 1.0	< 0.1	< 0.1
2-Methylnaphthalene	DETSC 3433	0.1	mg/kg		1300	< 0.1	0.2
Hexachlorocyclopentadiene	DETSC 3433*	0.1	mg/kg		< 1.0	< 0.1	< 0.1
2,4,6-Trichlorophenol	DETSC 3433	0.1	mg/kg		< 1.0	< 0.1	< 0.1
2,4,5-Trichlorophenol	DETSC 3433*	0.1	mg/kg		< 1.0	< 0.1	< 0.1
2-Chloronaphthalene	DETSC 3433	0.1	mg/kg		< 1.0	< 0.1	< 0.1
2-Nitroaniline	DETSC 3433*	0.1	mg/kg		< 1.0	< 0.1	< 0.1
2,4-Dinitrotoluene	DETSC 3433*	0.1	mg/kg		< 1.0	< 0.1	< 0.1
3-Nitroaniline	DETSC 3433*	0.1	mg/kg		< 1.0	< 0.1	< 0.1
4-Nitrophenol	DETSC 3433*	0.1	mg/kg		< 1.0	< 0.1	< 0.1
Dibenzofuran	DETSC 3433	0.1	mg/kg		820	< 0.1	140
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg		< 1.0	< 0.1	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg		< 1.0	< 0.1	< 0.1

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,21,20-09141,20-09144,20-09146,20-09147,20-09149
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665613	1665990	1665995
				PRAIRIE_AUK_TP18	PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP16
			Sample ID	2_SO_0090	5_SO_0160	3_SO_0120
			Depth	0.90	1.60	1.20
			Other ID	3	4	3
			Sample Type	ES	ES	ES
			Sampling Date	09/04/2020	14/04/2020	14/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Diethylphthalate	DETSC 3433	0.1	mg/kg	< 1.0	< 0.1	< 0.1
4-Chlorophenylphenylether	DETSC 3433*	0.1	mg/kg	< 1.0	< 0.1	< 0.1
4-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 1.0	< 0.1	< 0.1
2-Methyl-4,6-Dinitrophenol	DETSC 3433*	0.1	mg/kg	< 1.0	< 0.1	< 0.1
Diphenylamine	DETSC 3433	0.1	mg/kg	< 1.0	< 0.1	< 0.1
4-Bromophenylphenylether	DETSC 3433	0.1	mg/kg	< 1.0	< 0.1	< 0.1
Hexachlorobenzene	DETSC 3433	0.1	mg/kg	< 1.0	< 0.1	< 0.1
Pentachlorophenol	DETSC 3433*	0.1	mg/kg	< 1.0	< 0.1	< 0.1
Di-n-butylphthalate	DETSC 3433	0.1	mg/kg	< 1.0	< 0.1	< 0.1
Butylbenzylphthalate	DETSC 3433*	0.1	mg/kg	< 1.0	< 0.1	< 0.1
Bis(2-ethylhexyl)phthalate	DETSC 3433	0.1	mg/kg	< 1.0	< 0.1	< 0.1
Di-n-octylphthalate	DETSC 3433	0.1	mg/kg	< 1.0	< 0.1	< 0.1
1,4-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	72	< 0.1	< 0.1
Dimethylphthalate	DETSC 3433	0.1	mg/kg	< 1.0	< 0.1	< 0.1
1,3-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 1.0	< 0.1	< 0.1
1,2-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 1.0	< 0.1	< 0.1
2,3,5,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 1.0	< 0.1	< 0.1
Azobenzene	DETSC 3433	0.1	mg/kg	< 1.0	< 0.1	< 0.1
Carbazole	DETSC 3433*	0.1	mg/kg	38	< 0.1	0.9

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1666344	1667233	1668123
				PRAIRIE_AUK_TP13	PRAIRIE_AUK_TP12	PRAIRIE_AUK_TP11
			Sample ID	6_SO_0080	8_SO_0090	0_SO_0100
			Depth	0.80	0.90	1.00
			Other ID	3	3	3
			Sample Type	ES	ES	ES
			Sampling Date	15/04/2020	17/04/2020	21/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
VOCs						
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	0.27	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	0.13	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01	0.18	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	0.49	< 0.01

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1666344	1667233	1668123
				PRAIRIE_AUK_TP13	PRAIRIE_AUK_TP12	PRAIRIE_AUK_TP11
			Sample ID	6_SO_0080	8_SO_0090	0_SO_0100
			Depth	0.80	0.90	1.00
			Other ID	3	3	3
			Sample Type	ES	ES	ES
			Sampling Date	15/04/2020	17/04/2020	21/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	0.53	< 0.01
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.10	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.10	< 0.01
SVOCs						
Phenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Chlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Benzyl Alcohol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	830	0.2
Hexachlorocyclopentadiene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
3-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Nitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dibenzofuran	DETSC 3433	0.1	mg/kg	< 0.1	210	0.9
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1666344	1667233	1668123
				PRAIRIE_AUK_TP13	PRAIRIE_AUK_TP12	PRAIRIE_AUK_TP11
			Sample ID	6_SO_0080	8_SO_0090	0_SO_0100
			Depth	0.80	0.90	1.00
			Other ID	3	3	3
			Sample Type	ES	ES	ES
			Sampling Date	15/04/2020	17/04/2020	21/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Diethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Chlorophenylphenylether	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Methyl-4,6-Dinitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Diphenylamine	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Bromophenylphenylether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Pentachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Di-n-butylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Butylbenzylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bis(2-ethylhexyl)phthalate	DETSC 3433	0.1	mg/kg	< 0.1	1.0	< 0.1
Di-n-octylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,4-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dimethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,3-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,2-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,3,5,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Azobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Carbazole	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	0.5

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668135	1668566	1668567
				PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP14
			Sample ID	0_SO_0100	0_SO_0100	1_SO_0200
			Depth	1.00	1.00	2.00
			Other ID	4	3	4
			Sample Type	ES	ES	ES
			Sampling Date	20/04/2020	23/04/2020	23/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
VOCs						
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

				Lab No	1668135	1668566	1668567
					PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP14
				Sample ID	0_SO_0100	0_SO_0100	1_SO_0200
				Depth	1.00	1.00	2.00
				Other ID	4	3	4
				Sample Type	ES	ES	ES
				Sampling Date	20/04/2020	23/04/2020	23/04/2020
				Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
4-chlorotoluene	DETSC 3431	0.01	mg/kg		< 0.01	< 0.01	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg		< 0.01	< 0.01	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg		< 0.01	< 0.01	< 0.01
sec-butylbenzene	DETSC 3431	0.01	mg/kg		< 0.01	< 0.01	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg		< 0.01	< 0.01	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg		< 0.01	< 0.01	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg		< 0.01	< 0.01	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg		< 0.01	< 0.01	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg		< 0.01	< 0.01	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg		< 0.01	< 0.01	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg		< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg		< 0.01	< 0.01	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg		< 0.01	< 0.01	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg		< 0.01	< 0.01	< 0.01
SVOCs							
Phenol	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 0.1
Aniline	DETSC 3433*	0.1	mg/kg		< 0.1	< 0.1	< 0.1
2-Chlorophenol	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 0.1
Benzyl Alcohol	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 0.1
2-Methylphenol	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	DETSC 3433	0.1	mg/kg		< 0.1	0.1	0.1
Hexachlorocyclopentadiene	DETSC 3433*	0.1	mg/kg		< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	DETSC 3433*	0.1	mg/kg		< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 0.1
2-Nitroaniline	DETSC 3433*	0.1	mg/kg		< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	DETSC 3433*	0.1	mg/kg		< 0.1	< 0.1	< 0.1
3-Nitroaniline	DETSC 3433*	0.1	mg/kg		< 0.1	< 0.1	< 0.1
4-Nitrophenol	DETSC 3433*	0.1	mg/kg		< 0.1	< 0.1	< 0.1
Dibenzofuran	DETSC 3433	0.1	mg/kg		< 0.1	0.2	0.3
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg		< 0.1	< 0.1	< 0.1

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668135	1668566	1668567
				PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP14
			Sample ID	0_SO_0100	0_SO_0100	1_SO_0200
			Depth	1.00	1.00	2.00
			Other ID	4	3	4
			Sample Type	ES	ES	ES
			Sampling Date	20/04/2020	23/04/2020	23/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Diethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Chlorophenylphenylether	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Methyl-4,6-Dinitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Diphenylamine	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Bromophenylphenylether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Pentachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Di-n-butylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Butylbenzylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bis(2-ethylhexyl)phthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Di-n-octylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,4-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dimethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,3-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,2-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,3,5,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Azobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Carbazole	DETSC 3433*	0.1	mg/kg	< 0.1	0.3	< 0.1

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668569	1668869	1669251
				PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP11
			Sample ID	2_SO_0150	4_SO_0080	2_SO_0210
			Depth	1.50	0.80	2.10
			Other ID	4	3	7
			Sample Type	ES	ES	ES
			Sampling Date	23/04/2020	24/04/2020	22/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
VOCs						
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	0.02	< 0.01	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668569	1668869	1669251
				PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP11
			Sample ID	2_SO_0150	4_SO_0080	2_SO_0210
			Depth	1.50	0.80	2.10
			Other ID	4	3	7
			Sample Type	ES	ES	ES
			Sampling Date	23/04/2020	24/04/2020	22/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
SVOCs						
Phenol	DETSC 3433	0.1	mg/kg	1.1	< 0.1	< 0.1
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Chlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Benzyl Alcohol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	0.6	< 0.1	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	0.3	< 0.1
Hexachlorocyclopentadiene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
3-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Nitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dibenzofuran	DETSC 3433	0.1	mg/kg	< 0.1	0.3	< 0.1
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668569	1668869	1669251
			Sample ID	PRAIRIE_AUK_TP142_SO_0150	PRAIRIE_AUK_TP144_SO_0080	PRAIRIE_AUK_TP112_SO_0210
			Depth	1.50	0.80	2.10
			Other ID	4	3	7
			Sample Type	ES	ES	ES
			Sampling Date	23/04/2020	24/04/2020	22/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Diethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Chlorophenylphenylether	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Methyl-4,6-Dinitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Diphenylamine	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Bromophenylphenylether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Pentachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Di-n-butylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Butylbenzylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bis(2-ethylhexyl)phthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Di-n-octylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,4-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dimethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,3-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,2-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,3,5,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Azobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Carbazole	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1670142	1670143	1670144
				PRAIRIE_AUK_TP194	PRAIRIE_AUK_TP196	PRAIRIE_AUK_TP20
			Sample ID	A_SO_0140	A_SO_0140	1_SO_0360
			Depth	1.40	1.40	3.60
			Other ID	1	1	1
			Sample Type	ES	ES	ES
			Sampling Date	29/04/2020	29/04/2020	28/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
VOCs						
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	0.53	< 0.10	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	0.43	< 0.10	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	0.73	< 0.10	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	1.1	0.37	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	0.76	0.33	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	0.52	0.32	0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
Isopropylbenzene	DETSC 3431	0.01	mg/kg	0.20	< 0.10	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.10	< 0.10	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	2.0	0.49	< 0.01

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

				Lab No	1670142	1670143	1670144
					PRAIRIE_AUK_TP194	PRAIRIE_AUK_TP196	PRAIRIE_AUK_TP20
				Sample ID	A_SO_0140	A_SO_0140	1_SO_0360
				Depth	1.40	1.40	3.60
				Other ID	1	1	1
				Sample Type	ES	ES	ES
				Sampling Date	29/04/2020	29/04/2020	28/04/2020
				Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
4-chlorotoluene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.10	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg		1.1	0.27	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg		2.9	0.62	< 0.01
sec-butylbenzene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.10	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg		0.27	< 0.10	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.10	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.10	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.10	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.10	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg		< 0.10	< 0.10	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.10	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg		< 0.10	< 0.10	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg		0.53	< 0.10	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg		< 0.10	< 0.10	< 0.01
SVOCs							
Phenol	DETSC 3433	0.1	mg/kg		1.1	1.1	0.3
Aniline	DETSC 3433*	0.1	mg/kg		0.5	< 0.1	< 0.1
2-Chlorophenol	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 0.1
Benzyl Alcohol	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 0.1
2-Methylphenol	DETSC 3433	0.1	mg/kg		0.5	0.3	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg		0.7	0.5	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg		0.6	< 0.1	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	DETSC 3433	0.1	mg/kg		660	75	0.6
Hexachlorocyclopentadiene	DETSC 3433*	0.1	mg/kg		< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	DETSC 3433*	0.1	mg/kg		< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 0.1
2-Nitroaniline	DETSC 3433*	0.1	mg/kg		< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	DETSC 3433*	0.1	mg/kg		< 0.1	< 0.1	< 0.1
3-Nitroaniline	DETSC 3433*	0.1	mg/kg		< 0.1	< 0.1	< 0.1
4-Nitrophenol	DETSC 3433*	0.1	mg/kg		< 0.1	< 0.1	< 0.1
Dibenzofuran	DETSC 3433	0.1	mg/kg		590	82	1.4
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg		< 0.1	< 0.1	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg		< 0.1	< 0.1	< 0.1

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1670142	1670143	1670144
				PRAIRIE_AUK_TP194	PRAIRIE_AUK_TP196	PRAIRIE_AUK_TP20
			Sample ID	A_SO_0140	A_SO_0140	1_SO_0360
			Depth	1.40	1.40	3.60
			Other ID	1	1	1
			Sample Type	ES	ES	ES
			Sampling Date	29/04/2020	29/04/2020	28/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Diethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Chlorophenylphenylether	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Methyl-4,6-Dinitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Diphenylamine	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Bromophenylphenylether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Pentachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Di-n-butylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Butylbenzylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bis(2-ethylhexyl)phthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Di-n-octylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,4-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dimethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,3-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,2-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,3,5,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Azobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Carbazole	DETSC 3433*	0.1	mg/kg	5.1	3.6	0.3

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

Lab No	1670502
	PRAIRIE_AUK_TP19
Sample ID	3_SO_0080
Depth	0.80
Other ID	1
Sample Type	ES
Sampling Date	30/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
VOCs				
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.10
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.10
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.10
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.10
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.10
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.10
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.10
Chloroform	DETSC 3431	0.01	mg/kg	< 0.10
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.10
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.10
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.10
Benzene	DETSC 3431	0.01	mg/kg	0.13
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.10
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.10
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.10
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.10
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.10
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.10
Toluene	DETSC 3431	0.01	mg/kg	0.15
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.10
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.10
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.10
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.10
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.10
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.10
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.10
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.10
Ethylbenzene	DETSC 3431	0.01	mg/kg	0.13
m+p-Xylene	DETSC 3431	0.01	mg/kg	0.33
o-Xylene	DETSC 3431	0.01	mg/kg	0.21
Styrene	DETSC 3431*	0.01	mg/kg	0.20
Bromoform	DETSC 3431	0.01	mg/kg	< 0.10
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.10
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.10
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.10
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.10
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.10
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	0.37

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

Lab No	1670502
	PRAIRIE_AUK_TP19
Sample ID	3_SO_0080
Depth	0.80
Other ID	1
Sample Type	ES
Sampling Date	30/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.10
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.10
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	0.42
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.10
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.10
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.10
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.10
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.10
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.10
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.10
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.10
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.10
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.10
MTBE	DETSC 3431*	0.01	mg/kg	< 0.10
SVOCs				
Phenol	DETSC 3433	0.1	mg/kg	1.4
Aniline	DETSC 3433*	0.1	mg/kg	0.2
2-Chlorophenol	DETSC 3433	0.1	mg/kg	< 0.1
Benzyl Alcohol	DETSC 3433	0.1	mg/kg	< 0.1
2-Methylphenol	DETSC 3433	0.1	mg/kg	0.8
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	1.2
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	0.5
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1
1,2,4-Trichlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1
4-Chloro-3-methylphenol	DETSC 3433	0.1	mg/kg	< 0.1
2-Methylnaphthalene	DETSC 3433	0.1	mg/kg	120
Hexachlorocyclopentadiene	DETSC 3433*	0.1	mg/kg	< 0.1
2,4,6-Trichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1
2,4,5-Trichlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1
2-Chloronaphthalene	DETSC 3433	0.1	mg/kg	< 0.1
2-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1
2,4-Dinitrotoluene	DETSC 3433*	0.1	mg/kg	< 0.1
3-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1
4-Nitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1
Dibenzofuran	DETSC 3433	0.1	mg/kg	230
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

Lab No	1670502
	PRAIRIE_AUK_TP19
Sample ID	3_SO_0080
Depth	0.80
Other ID	1
Sample Type	ES
Sampling Date	30/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Diethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1
4-Chlorophenylphenylether	DETSC 3433*	0.1	mg/kg	< 0.1
4-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1
2-Methyl-4,6-Dinitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1
Diphenylamine	DETSC 3433	0.1	mg/kg	< 0.1
4-Bromophenylphenylether	DETSC 3433	0.1	mg/kg	< 0.1
Hexachlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1
Pentachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1
Di-n-butylphthalate	DETSC 3433	0.1	mg/kg	< 0.1
Butylbenzylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1
Bis(2-ethylhexyl)phthalate	DETSC 3433	0.1	mg/kg	< 0.1
Di-n-octylphthalate	DETSC 3433	0.1	mg/kg	< 0.1
1,4-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1
Dimethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1
1,3-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1
1,2-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1
2,3,5,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1
Azobenzene	DETSC 3433	0.1	mg/kg	< 0.1
Carbazole	DETSC 3433*	0.1	mg/kg	3.9

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Water Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665287	1665289	1665294	1671485
			Sample ID	PRAIRIE_AUK_SW1	PRAIRIE_AUK_TP115_SO_0050	PRAIRIE_AUK_TP186_SO_0100	PRAIRIE_AUK_BH102_GW_050520
			Depth	0.00	0.50	1.00	
			Other ID	1	9	4	100
			Sample Type	EW	EW	EW	EW
			Sampling Date	09/04/2020	08/04/2020	07/04/2020	05/05/2020
			Sampling Time	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
Metals							
Aluminium, Dissolved	DETSC 2306	10	ug/l				80
Antimony, Dissolved	DETSC 2306	0.17	ug/l				1.3
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	2.6	4.3	6.7	0.70
Barium, Dissolved	DETSC 2306	0.26	ug/l				1000
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l				< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	370	170	370	13
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	0.14	< 0.03	< 0.03
Calcium, Dissolved	DETSC 2306	0.09	mg/l				980
Chromium, Total	DETSC 2306*	0.25	ug/l	7.9	110	6.4	< 0.25
Chromium, Hexavalent	DETSC 2203	7	ug/l				< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	4.4	11	3.6	1.8
Iron, Dissolved	DETSC 2306	5.5	ug/l				17
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.52	20	2.2	0.49
Magnesium, Dissolved	DETSC 2306	0.02	mg/l				0.14
Manganese, Dissolved	DETSC 2306	0.22	ug/l	19	990	400	6.5
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	0.06	< 0.01	0.02
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l				11
Nickel, Dissolved	DETSC 2306	0.5	ug/l	1.1	4.7	2.9	7.1
Sodium, Dissolved	DETSC 2306	0.07	mg/l				31
Vanadium, Dissolved	DETSC 2306	0.6	ug/l				2.1
Zinc, Dissolved	DETSC 2306	1.3	ug/l	2.2	86	10	8.6
Inorganics							
pH	DETSC 2008		pH	6.8	10.9	7.2	12.5
Cyanide, Total	DETSC 2130	40	ug/l	< 40	71	410	< 40
Cyanide, Free	DETSC 2130	20	ug/l				< 20
Thiocyanate	DETSC 2130	20	ug/l				150
Dissolved Organic Carbon	DETSC 2085	2	mg/l	9.9	10	23	15
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	< 0.015	0.54	5.6	1.0
Chloride	DETSC 2055	0.1	mg/l				29
Nitrate as N	*	0.1	mg/l				0.29
Nitrite as N	DETSC 2201	0.035	mg/l				< 0.035
Salinity (Calculated)	DETSC 2017*	0.01	%				3.3
Silicate as SiO2	DETSC 2211*	0.1	mg/l				2.0
Sulphate as SO4	DETSC 2055	0.1	mg/l	210	230	510	35
Sulphur (free)	DETSC 3049	84	ug/l				< 84

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Water Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665287	1665289	1665294	1671485
			Sample ID	PRAIRIE_AUK_SW1	PRAIRIE_AUK_TP115_SO_0050	PRAIRIE_AUK_TP186_SO_0100	PRAIRIE_AUK_BH102_GW_050520
			Depth	0.00	0.50	1.00	
			Other ID	1	9	4	100
			Sample Type	EW	EW	EW	EW
			Sampling Date	09/04/2020	08/04/2020	07/04/2020	05/05/2020
			Sampling Time	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
Petroleum Hydrocarbons							
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	310	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	54	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	1.1	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	180	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	1200	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	1000	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	2800	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	280	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	44	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	110	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	1.6	3100	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	29	1200	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	150	240	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10	180	5000	< 10
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	< 10	180	7800	< 10
EPH (C10-C40)	DETSC 3311	10	ug/l	220	1900	20000	

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Water Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665287	1665289	1665294	1671485
			Sample ID	PRAIRIE_AUK_SW1	PRAIRIE_AUK_TP115_SO_0050	PRAIRIE_AUK_TP186_SO_0100	PRAIRIE_AUK_BH102_GW_050520
			Depth	0.00	0.50	1.00	
			Other ID	1	9	4	100
			Sample Type	EW	EW	EW	EW
			Sampling Date	09/04/2020	08/04/2020	07/04/2020	05/05/2020
			Sampling Time	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
PAHs							
Naphthalene	DETSC 3304	0.05	ug/l	0.06	0.18	690	3.7
Acenaphthylene	DETSC 3304	0.01	ug/l	0.02	0.05	69	0.10
Acenaphthene	DETSC 3304	0.01	ug/l	0.03	1.3	690	4.4
Fluorene	DETSC 3304	0.01	ug/l	0.02	0.80	310	1.5
Phenanthrene	DETSC 3304	0.01	ug/l	0.18	2.8	210	1.8
Anthracene	DETSC 3304	0.01	ug/l	0.07	0.54	35	0.14
Fluoranthene	DETSC 3304	0.01	ug/l	0.50	2.3	28	0.24
Pyrene	DETSC 3304	0.01	ug/l	0.41	1.7	18	0.18
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.19	0.55	3.4	0.03
Chrysene	DETSC 3304	0.01	ug/l	0.28	0.59	3.7	0.03
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.44	0.83	4.5	0.03
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	0.15	0.30	1.5	0.01
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	0.22	0.56	2.4	0.02
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	0.14	0.38	1.2	0.02
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	0.05	0.11	< 1.00	< 0.01
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	0.20	0.52	1.6	0.02
PAH Total	DETSC 3304	0.2	ug/l	3.0	14	2100	12
Phenols							
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100	3400	< 100

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Water Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2,20-07758,20-07838,20-07839,20-07890,20-0811
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1671486	1671487	1671488
				PRAIRIE_AUK_	PRAIRIE_AUK_	PRAIRIE_AUK_
				BH103_GW_05	BH104_GW_05	BH105_GW_05
			Sample ID	0520	0520	0520
			Depth			
			Other ID	100	100	100
			Sample Type	EW	EW	EW
			Sampling Date	05/05/2020	05/05/2020	05/05/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Metals						
Aluminium, Dissolved	DETSC 2306	10	ug/l	37	39	68
Antimony, Dissolved	DETSC 2306	0.17	ug/l	2.4	0.59	0.46
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	5.3	1.7	1.9
Barium, Dissolved	DETSC 2306	0.26	ug/l	45	87	42
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1	< 0.1	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	240	410	310
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	0.07	< 0.03	< 0.03
Calcium, Dissolved	DETSC 2306	0.09	mg/l	170	99	220
Chromium, Total	DETSC 2306*	0.25	ug/l	0.34	2.9	2.6
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0	< 7.0	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	4.6	0.7	< 0.4
Iron, Dissolved	DETSC 2306	5.5	ug/l	170	30	600
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.48	0.18	0.11
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	15	58	45
Manganese, Dissolved	DETSC 2306	0.22	ug/l	390	440	810
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.11	0.09	< 0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	51	13	8.2
Nickel, Dissolved	DETSC 2306	0.5	ug/l	3.6	3.7	1.9
Sodium, Dissolved	DETSC 2306	0.07	mg/l	51	110	130
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	17	0.9	< 0.6
Zinc, Dissolved	DETSC 2306	1.3	ug/l	< 1.3	16	< 1.3
Inorganics						
pH	DETSC 2008		pH	9.2	8.2	7.9
Cyanide, Total	DETSC 2130	40	ug/l	100	< 40	< 40
Cyanide, Free	DETSC 2130	20	ug/l	86	< 20	< 20
Thiocyanate	DETSC 2130	20	ug/l	91	< 40	< 40
Dissolved Organic Carbon	DETSC 2085	2	mg/l	7.9	2.2	12
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.46	0.17	0.030
Chloride	DETSC 2055	0.1	mg/l	36	85	51
Nitrate as N	*	0.1	mg/l	0.29	0.32	0.31
Nitrite as N	DETSC 2201	0.035	mg/l	0.049	< 0.035	< 0.035
Salinity (Calculated)	DETSC 2017*	0.01	%	0.5	0.6	0.8
Silicate as SiO2	DETSC 2211*	0.1	mg/l	12	7.1	16
Sulphate as SO4	DETSC 2055	0.1	mg/l	330	310	640
Sulphur (free)	DETSC 3049	84	ug/l	< 84	< 84	< 84

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Water Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2,20-07758,20-07838,20-07839,20-07890,20-0811
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1671486	1671487	1671488
				PRAIRIE_AUK_	PRAIRIE_AUK_	PRAIRIE_AUK_
				BH103_GW_05	BH104_GW_05	BH105_GW_05
			Sample ID	0520	0520	0520
			Depth			
			Other ID	100	100	100
			Sample Type	EW	EW	EW
			Sampling Date	05/05/2020	05/05/2020	05/05/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	14	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	16	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	1.3	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10	31	< 10
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	< 10	31	< 10
EPH (C10-C40)	DETSC 3311	10	ug/l			

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Water Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2,20-07758,20-07838,20-07839,20-07890,20-0811
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1671486	1671487	1671488
				PRAIRIE_AUK_	PRAIRIE_AUK_	PRAIRIE_AUK_
				BH103_GW_05	BH104_GW_05	BH105_GW_05
			Sample ID	0520	0520	0520
			Depth			
			Other ID	100	100	100
			Sample Type	EW	EW	EW
			Sampling Date	05/05/2020	05/05/2020	05/05/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PAHs						
Naphthalene	DETSC 3304	0.05	ug/l	0.06	4.3	0.08
Acenaphthylene	DETSC 3304	0.01	ug/l	0.23	1.1	< 0.01
Acenaphthene	DETSC 3304	0.01	ug/l	0.87	22	0.10
Fluorene	DETSC 3304	0.01	ug/l	0.22	23	0.10
Phenanthrene	DETSC 3304	0.01	ug/l	0.07	44	0.21
Anthracene	DETSC 3304	0.01	ug/l	0.09	6.2	0.03
Fluoranthene	DETSC 3304	0.01	ug/l	0.27	4.5	0.04
Pyrene	DETSC 3304	0.01	ug/l	0.25	2.6	0.03
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.11	0.35	< 0.01
Chrysene	DETSC 3304	0.01	ug/l	0.11	0.61	< 0.01
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.24	0.40	< 0.01
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	0.06	0.10	< 0.01
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	0.12	0.22	< 0.01
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	0.21	0.32	< 0.01
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	0.04	0.05	< 0.01
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	0.20	0.30	< 0.01
PAH Total	DETSC 3304	0.2	ug/l	3.1	110	0.65
Phenols						
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100	< 100

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Water Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,28,20-08189,20-08381,20-09141,20-09144,20-091
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1671489	1671490	1671899
				PRAIRIE_AUK_	PRAIRIE_AUK_	PRAIRIE_AUK_
				BH107_GW_05	BH109_GW_05	BH101S_GW_0
			Sample ID	0520	0520	60520
			Depth			
			Other ID	100	100	100
			Sample Type	EW	EW	EW
			Sampling Date	05/05/2020	05/05/2020	06/05/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Metals						
Aluminium, Dissolved	DETSC 2306	10	ug/l	33	260	710
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.53	1.2	0.76
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	0.65	5.1	2.4
Barium, Dissolved	DETSC 2306	0.26	ug/l	66	180	68
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1	< 0.1	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	150	86	440
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	0.08	< 0.03	< 0.03
Calcium, Dissolved	DETSC 2306	0.09	mg/l	340	38	270
Chromium, Total	DETSC 2306*	0.25	ug/l	41	110	9.4
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0	< 7.0	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.7	< 0.4	2.8
Iron, Dissolved	DETSC 2306	5.5	ug/l	60	160	780
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.20	0.15	1.1
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	88	17	53
Manganese, Dissolved	DETSC 2306	0.22	ug/l	290	85	720
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	0.33	0.02
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	2.8	23	30
Nickel, Dissolved	DETSC 2306	0.5	ug/l	4.5	1.2	4.1
Sodium, Dissolved	DETSC 2306	0.07	mg/l	290	99	320
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	< 0.6	1.2	2.4
Zinc, Dissolved	DETSC 2306	1.3	ug/l	3.7	< 1.3	6.7
Inorganics						
pH	DETSC 2008		pH	7.6	7.9	7.4
Cyanide, Total	DETSC 2130	40	ug/l	< 40	< 40	54
Cyanide, Free	DETSC 2130	20	ug/l	< 20	< 20	23
Thiocyanate	DETSC 2130	20	ug/l	< 40	130	120
Dissolved Organic Carbon	DETSC 2085	2	mg/l	4.0	12	6.6
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	< 0.015	0.45	0.80
Chloride	DETSC 2055	0.1	mg/l	130	83	240
Nitrate as N	*	0.1	mg/l	0.32	0.26	1.1
Nitrite as N	DETSC 2201	0.035	mg/l	< 0.035	< 0.035	< 0.035
Salinity (Calculated)	DETSC 2017*	0.01	%	1.4	0.4	1.4
Silicate as SiO2	DETSC 2211*	0.1	mg/l	10	8.1	10
Sulphate as SO4	DETSC 2055	0.1	mg/l	840	54	920
Sulphur (free)	DETSC 3049	84	ug/l	< 84	460	< 84

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Water Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,28,20-08189,20-08381,20-09141,20-09144,20-091
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1671489	1671490	1671899
				PRAIRIE_AUK_	PRAIRIE_AUK_	PRAIRIE_AUK_
				BH107_GW_05	BH109_GW_05	BH101S_GW_0
			Sample ID	0520	0520	60520
			Depth			
			Other ID	100	100	100
			Sample Type	EW	EW	EW
			Sampling Date	05/05/2020	05/05/2020	06/05/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1	20	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1	160	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	210	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	13	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	330	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	1200	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	230	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10	2200	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1	130	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1	41	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	1200	6.4
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	4600	24
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	1100	8.5
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	140	1.1
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10	7200	40
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	< 10	9400	40
EPH (C10-C40)	DETSC 3311	10	ug/l			

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Water Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,28,20-08189,20-08381,20-09141,20-09144,20-091
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1671489	1671490	1671899
				PRAIRIE_AUK_	PRAIRIE_AUK_	PRAIRIE_AUK_
				BH107_GW_05	BH109_GW_05	BH101S_GW_0
			Sample ID	0520	0520	60520
			Depth			
			Other ID	100	100	100
			Sample Type	EW	EW	EW
			Sampling Date	05/05/2020	05/05/2020	06/05/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PAHs						
Naphthalene	DETSC 3304	0.05	ug/l	< 0.05	4900	1.4
Acenaphthylene	DETSC 3304	0.01	ug/l	0.02	19	0.08
Acenaphthene	DETSC 3304	0.01	ug/l	0.48	1600	3.5
Fluorene	DETSC 3304	0.01	ug/l	0.01	540	2.0
Phenanthrene	DETSC 3304	0.01	ug/l	0.02	630	2.7
Anthracene	DETSC 3304	0.01	ug/l	0.01	55	0.40
Fluoranthene	DETSC 3304	0.01	ug/l	0.01	35	0.46
Pyrene	DETSC 3304	0.01	ug/l	0.02	21	0.30
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	< 0.01	6.4	0.07
Chrysene	DETSC 3304	0.01	ug/l	< 0.01	5.9	0.09
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	5.8	0.09
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	2.6	0.02
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	< 0.01	2.8	0.05
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	< 0.01	2.6	0.06
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 0.01	< 1.00	0.01
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	< 0.01	2.6	0.06
PAH Total	DETSC 3304	0.2	ug/l	0.62	7800	11
Phenols						
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100	< 100

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Water Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,246,20-09147,20-09149
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

	Lab No	1671900	1671901	1671902
		PRAIRIE_AUK_BH101D_GW_0	PRAIRIE_AUK_BH106_GW_06	PRAIRIE_AUK_BH108S_GW_0
	Sample ID	60520	0520	60520
	Depth			
	Other ID	100	100	100
	Sample Type	EW	EW	EW
	Sampling Date	06/05/2020	06/05/2020	06/05/2020
	Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**	
Metals				
Aluminium, Dissolved	DETSC 2306	10	ug/l	110	470	140
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.76	1.3	0.28
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	2.3	3.7	0.40
Barium, Dissolved	DETSC 2306	0.26	ug/l	69	110	46
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1	< 0.1	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	390	140	230
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03	0.03
Calcium, Dissolved	DETSC 2306	0.09	mg/l	260	140	940
Chromium, Total	DETSC 2306*	0.25	ug/l	11	57	26
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0	< 7.0	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	2.2	2.2	0.9
Iron, Dissolved	DETSC 2306	5.5	ug/l	380	310	74
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.26	1.0	0.18
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	50	19	93
Manganese, Dissolved	DETSC 2306	0.22	ug/l	590	160	620
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.02	0.13	< 0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	33	16	3.9
Nickel, Dissolved	DETSC 2306	0.5	ug/l	3.7	2.8	2.3
Sodium, Dissolved	DETSC 2306	0.07	mg/l	310	61	71
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	1.3	11	< 0.6
Zinc, Dissolved	DETSC 2306	1.3	ug/l	3.9	5.5	4.9
Inorganics						
pH	DETSC 2008		pH	7.5	8.5	7.6
Cyanide, Total	DETSC 2130	40	ug/l	64	< 40	< 40
Cyanide, Free	DETSC 2130	20	ug/l	27	< 20	< 20
Thiocyanate	DETSC 2130	20	ug/l	130	46	< 40
Dissolved Organic Carbon	DETSC 2085	2	mg/l	6.8	24	< 2.0
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.82	0.98	0.17
Chloride	DETSC 2055	0.1	mg/l	230	28	41
Nitrate as N	*	0.1	mg/l	< 0.10	< 0.10	< 0.10
Nitrite as N	DETSC 2201	0.035	mg/l	< 0.035	< 0.035	< 0.035
Salinity (Calculated)	DETSC 2017*	0.01	%	1.3	0.5	1.3
Silicate as SiO2	DETSC 2211*	0.1	mg/l	9.6	11	9.1
Sulphate as SO4	DETSC 2055	0.1	mg/l	820	270	1300
Sulphur (free)	DETSC 3049	84	ug/l	< 84	< 84	< 84

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Water Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,246,20-09147,20-09149
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1671900	1671901	1671902
				PRAIRIE_AUK_	PRAIRIE_AUK_	PRAIRIE_AUK_
				BH101D_GW_0	BH106_GW_06	BH108S_GW_0
			Sample ID	60520	0520	60520
			Depth			
			Other ID	100	100	100
			Sample Type	EW	EW	EW
			Sampling Date	06/05/2020	06/05/2020	06/05/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	< 10
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	< 10	< 10	< 10
EPH (C10-C40)	DETSC 3311	10	ug/l			

Summary of Chemical Analysis

Water Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,246,20-09147,20-09149
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

	Lab No	1671900	1671901	1671902
		PRAIRIE_AUK_	PRAIRIE_AUK_	PRAIRIE_AUK_
		BH101D_GW_0	BH106_GW_06	BH108S_GW_0
	Sample ID	60520	0520	60520
	Depth			
	Other ID	100	100	100
	Sample Type	EW	EW	EW
	Sampling Date	06/05/2020	06/05/2020	06/05/2020
	Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
PAHs						
Naphthalene	DETSC 3304	0.05	ug/l	0.53	0.57	0.10
Acenaphthylene	DETSC 3304	0.01	ug/l	0.03	0.07	< 0.01
Acenaphthene	DETSC 3304	0.01	ug/l	1.3	1.0	0.28
Fluorene	DETSC 3304	0.01	ug/l	0.80	0.85	0.21
Phenanthrene	DETSC 3304	0.01	ug/l	1.0	1.0	0.32
Anthracene	DETSC 3304	0.01	ug/l	0.14	0.09	0.04
Fluoranthene	DETSC 3304	0.01	ug/l	0.17	0.13	0.05
Pyrene	DETSC 3304	0.01	ug/l	0.12	0.09	0.03
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.03	0.02	< 0.01
Chrysene	DETSC 3304	0.01	ug/l	0.02	0.04	< 0.01
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.03	0.04	< 0.01
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	0.01	0.02	< 0.01
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	0.02	0.02	< 0.01
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	0.03	0.04	< 0.01
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 0.01
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	0.03	0.05	< 0.01
PAH Total	DETSC 3304	0.2	ug/l	4.3	4.1	1.1
Phenols						
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100	< 100

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Water Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1671903	1671904
				PRAIRIE_AUK_	PRAIRIE_AUK_
				BH108D_GW_0	BH110_GW_06
			Sample ID	60520	0520
			Depth		
			Other ID	100	100
			Sample Type	EW	EW
			Sampling Date	06/05/2020	06/05/2020
			Sampling Time	n/s	n/s
Test	**Method**	**LOD**	**Units**		
Metals					
Aluminium, Dissolved	DETSC 2306	10	ug/l	170	52
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.29	0.69
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	0.40	1.2
Barium, Dissolved	DETSC 2306	0.26	ug/l	46	58
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	230	520
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03
Calcium, Dissolved	DETSC 2306	0.09	mg/l	930	790
Chromium, Total	DETSC 2306*	0.25	ug/l	30	4.5
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	0.8	3.1
Iron, Dissolved	DETSC 2306	5.5	ug/l	73	40
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.09	0.44
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	90	84
Manganese, Dissolved	DETSC 2306	0.22	ug/l	590	180
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	0.04
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	3.8	17
Nickel, Dissolved	DETSC 2306	0.5	ug/l	2.2	2.6
Sodium, Dissolved	DETSC 2306	0.07	mg/l	70	220
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	< 0.6	0.9
Zinc, Dissolved	DETSC 2306	1.3	ug/l	5.8	8.7
Inorganics					
pH	DETSC 2008		pH	7.5	7.6
Cyanide, Total	DETSC 2130	40	ug/l	< 40	< 40
Cyanide, Free	DETSC 2130	20	ug/l	< 20	< 20
Thiocyanate	DETSC 2130	20	ug/l	< 40	94
Dissolved Organic Carbon	DETSC 2085	2	mg/l	< 2.0	< 2.0
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.18	0.32
Chloride	DETSC 2055	0.1	mg/l	35	81
Nitrate as N	*	0.1	mg/l	< 0.10	< 0.10
Nitrite as N	DETSC 2201	0.035	mg/l	< 0.035	< 0.035
Salinity (Calculated)	DETSC 2017*	0.01	%	1.3	1.5
Silicate as SiO2	DETSC 2211*	0.1	mg/l	9.0	9.4
Sulphate as SO4	DETSC 2055	0.1	mg/l	1100	1500
Sulphur (free)	DETSC 3049	84	ug/l	< 84	< 84

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Water Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1671903	1671904
				PRAIRIE_AUK_	PRAIRIE_AUK_
				BH108D_GW_0	BH110_GW_06
			Sample ID	60520	0520
			Depth		
			Other ID	100	100
			Sample Type	EW	EW
			Sampling Date	06/05/2020	06/05/2020
			Sampling Time	n/s	n/s
Test	**Method**	**LOD**	**Units**		
Petroleum Hydrocarbons					
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	< 10	< 10
EPH (C10-C40)	DETSC 3311	10	ug/l		

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Water Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1671903	1671904
				PRAIRIE_AUK_	PRAIRIE_AUK_
				BH108D_GW_0	BH110_GW_06
			Sample ID	60520	0520
			Depth		
			Other ID	100	100
			Sample Type	EW	EW
			Sampling Date	06/05/2020	06/05/2020
			Sampling Time	n/s	n/s
Test	**Method**	**LOD**	**Units**		
PAHs					
Naphthalene	DETSC 3304	0.05	ug/l	0.10	0.06
Acenaphthylene	DETSC 3304	0.01	ug/l	< 0.01	0.03
Acenaphthene	DETSC 3304	0.01	ug/l	0.19	0.46
Fluorene	DETSC 3304	0.01	ug/l	0.14	0.27
Phenanthrene	DETSC 3304	0.01	ug/l	0.20	0.31
Anthracene	DETSC 3304	0.01	ug/l	0.03	0.04
Fluoranthene	DETSC 3304	0.01	ug/l	0.04	0.06
Pyrene	DETSC 3304	0.01	ug/l	0.03	0.04
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	< 0.01	0.01
Chrysene	DETSC 3304	0.01	ug/l	0.01	< 0.01
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.02	< 0.01
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	0.02	< 0.01
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	0.03	< 0.01
PAH Total	DETSC 3304	0.2	ug/l	0.85	1.3
Phenols					
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Water VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1671485	1671486	1671487
				PRAIRIE_AUK_ BH102_GW_05	PRAIRIE_AUK_ BH103_GW_05	PRAIRIE_AUK_ BH104_GW_05
			Sample ID	0520	0520	0520
			Depth			
			Other ID	100	100	100
			Sample Type	EW	EW	EW
			Sampling Date	05/05/2020	05/05/2020	05/05/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
VOCs						
Dichlorodifluoromethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Chloromethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Vinyl Chloride	DETSC 3432	1	ug/l	< 1	< 1	< 1
Bromomethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Chloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Trichlorofluoromethane	DETSC 3432*	1	ug/l	< 1	< 1	< 1
1,1-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1	< 1
Methylene Chloride	DETSC 3432*	27	ug/l	< 27	< 27	< 27
Trans-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,1-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Cis-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1	< 1
2,2-dichloropropane	DETSC 3432	2	ug/l	< 2	< 2	< 2
Bromochloromethane	DETSC 3432	4	ug/l	< 4	< 4	< 4
Chloroform	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,1,1-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,1-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1	< 1
Carbon tetrachloride	DETSC 3432	1	ug/l	< 1	< 1	< 1
Benzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Trichloroethylene	DETSC 3432*	1	ug/l	< 1	< 1	< 1
1,2-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Dibromomethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Bromodichloromethane	DETSC 3432	4	ug/l	< 4	< 4	< 4
cis-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1	< 1
Toluene	DETSC 3432	1	ug/l	< 1	< 1	< 1
trans-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,1,2-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Tetrachloroethylene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,3-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Dibromochloromethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2-dibromoethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Chlorobenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,1,1,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Ethylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
m+p-Xylene	DETSC 3432	2	ug/l	< 2	< 2	< 2
o-Xylene	DETSC 3432	1	ug/l	< 1	< 1	< 1
Styrene	DETSC 3432	1	ug/l	< 1	< 1	< 1
Bromoform	DETSC 3432	1	ug/l	< 1	< 1	< 1

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Water VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1671485	1671486	1671487
				PRAIRIE_AUK_	PRAIRIE_AUK_	PRAIRIE_AUK_
				BH102_GW_05	BH103_GW_05	BH104_GW_05
			Sample ID	0520	0520	0520
			Depth			
			Other ID	100	100	100
			Sample Type	EW	EW	EW
			Sampling Date	05/05/2020	05/05/2020	05/05/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Isopropylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,1,2,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Bromobenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2,3-trichloropropane	DETSC 3432	1	ug/l	< 1	< 1	< 1
n-propylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
2-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,3,5-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
4-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1	< 1
Tert-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2,4-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
sec-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
p-isopropyltoluene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,3-dichlorobenzene	DETSC 3432	2	ug/l	< 2	< 2	< 2
1,4-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
n-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2-dibromo-3-chloropropane	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2,4-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
Hexachlorobutadiene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2,3-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
MTBE	DETSC 3432*	1	ug/l	< 1	< 1	< 1

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Water VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,220-07658,20-07758,20-07838,20-07839,20-0789
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1671488	1671489	1671490
				PRAIRIE_AUK_ BH105_GW_05	PRAIRIE_AUK_ BH107_GW_05	PRAIRIE_AUK_ BH109_GW_05
			Sample ID	0520	0520	0520
			Depth			
			Other ID	100	100	100
			Sample Type	EW	EW	EW
			Sampling Date	05/05/2020	05/05/2020	05/05/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
VOCs						
Dichlorodifluoromethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Chloromethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Vinyl Chloride	DETSC 3432	1	ug/l	< 1	< 1	< 1
Bromomethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Chloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Trichlorofluoromethane	DETSC 3432*	1	ug/l	< 1	< 1	< 1
1,1-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1	< 1
Methylene Chloride	DETSC 3432*	27	ug/l	< 27	< 27	< 27
Trans-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,1-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Cis-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1	< 1
2,2-dichloropropane	DETSC 3432	2	ug/l	< 2	< 2	< 2
Bromochloromethane	DETSC 3432	4	ug/l	< 4	< 4	< 4
Chloroform	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,1,1-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,1-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1	< 1
Carbon tetrachloride	DETSC 3432	1	ug/l	< 1	< 1	< 1
Benzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1	7
Trichloroethylene	DETSC 3432*	1	ug/l	< 1	< 1	< 1
1,2-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Dibromomethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Bromodichloromethane	DETSC 3432	4	ug/l	< 4	< 4	< 4
cis-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1	< 1
Toluene	DETSC 3432	1	ug/l	< 1	< 1	48
trans-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,1,2-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Tetrachloroethylene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,3-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Dibromochloromethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2-dibromoethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Chlorobenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,1,1,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Ethylbenzene	DETSC 3432	1	ug/l	< 1	< 1	11
m+p-Xylene	DETSC 3432	2	ug/l	< 2	< 2	77
o-Xylene	DETSC 3432	1	ug/l	< 1	< 1	30
Styrene	DETSC 3432	1	ug/l	< 1	< 1	4
Bromoform	DETSC 3432	1	ug/l	< 1	< 1	< 1

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Water VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,220-07658,20-07758,20-07838,20-07839,20-0789
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1671488	1671489	1671490
				PRAIRIE_AUK_	PRAIRIE_AUK_	PRAIRIE_AUK_
				BH105_GW_05	BH107_GW_05	BH109_GW_05
			Sample ID	0520	0520	0520
			Depth			
			Other ID	100	100	100
			Sample Type	EW	EW	EW
			Sampling Date	05/05/2020	05/05/2020	05/05/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Isopropylbenzene	DETSC 3432	1	ug/l	< 1	< 1	1
1,1,2,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Bromobenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2,3-trichloropropane	DETSC 3432	1	ug/l	< 1	< 1	< 1
n-propylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
2-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1	2
1,3,5-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1	14
4-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1	< 1
Tert-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2,4-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1	34
sec-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
p-isopropyltoluene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,3-dichlorobenzene	DETSC 3432	2	ug/l	< 2	< 2	< 2
1,4-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
n-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2-dibromo-3-chloropropane	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2,4-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
Hexachlorobutadiene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2,3-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
MTBE	DETSC 3432*	1	ug/l	< 1	< 1	< 1

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Water VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20,20-08118,20-08189,20-08381,20-09141,20-091
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

	Lab No	1671899	1671900	1671901
		PRAIRIE_AUK_BH101S_GW_060520	PRAIRIE_AUK_BH101D_GW_060520	PRAIRIE_AUK_BH106_GW_060520
	Sample ID			
	Depth			
	Other ID	100	100	100
	Sample Type	EW	EW	EW
	Sampling Date	06/05/2020	06/05/2020	06/05/2020
	Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
VOCs						
Dichlorodifluoromethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Chloromethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Vinyl Chloride	DETSC 3432	1	ug/l	< 1	< 1	< 1
Bromomethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Chloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Trichlorofluoromethane	DETSC 3432*	1	ug/l	< 1	< 1	< 1
1,1-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1	< 1
Methylene Chloride	DETSC 3432*	27	ug/l	< 27	< 27	< 27
Trans-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,1-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Cis-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1	< 1
2,2-dichloropropane	DETSC 3432	2	ug/l	< 2	< 2	< 2
Bromochloromethane	DETSC 3432	4	ug/l	< 4	< 4	< 4
Chloroform	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,1,1-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,1-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1	< 1
Carbon tetrachloride	DETSC 3432	1	ug/l	< 1	< 1	< 1
Benzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Trichloroethylene	DETSC 3432*	1	ug/l	< 1	< 1	< 1
1,2-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Dibromomethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Bromodichloromethane	DETSC 3432	4	ug/l	< 4	< 4	< 4
cis-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1	< 1
Toluene	DETSC 3432	1	ug/l	< 1	< 1	< 1
trans-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,1,2-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Tetrachloroethylene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,3-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Dibromochloromethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2-dibromoethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Chlorobenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,1,1,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Ethylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
m+p-Xylene	DETSC 3432	2	ug/l	< 2	< 2	< 2
o-Xylene	DETSC 3432	1	ug/l	< 1	< 1	< 1
Styrene	DETSC 3432	1	ug/l	< 1	< 1	< 1
Bromoform	DETSC 3432	1	ug/l	< 1	< 1	< 1

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Water VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20,20-08118,20-08189,20-08381,20-09141,20-091
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

	Lab No	1671899	1671900	1671901
	Sample ID	PRAIRIE_AUK_BH101S_GW_060520	PRAIRIE_AUK_BH101D_GW_060520	PRAIRIE_AUK_BH106_GW_060520
	Depth			
	Other ID	100	100	100
	Sample Type	EW	EW	EW
	Sampling Date	06/05/2020	06/05/2020	06/05/2020
	Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**	
Isopropylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,1,2,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Bromobenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2,3-trichloropropane	DETSC 3432	1	ug/l	< 1	< 1	< 1
n-propylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
2-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,3,5-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
4-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1	< 1
Tert-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2,4-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
sec-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
p-isopropyltoluene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,3-dichlorobenzene	DETSC 3432	2	ug/l	< 2	< 2	< 2
1,4-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
n-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2-dibromo-3-chloropropane	DETSC 3432	1	ug/l	64	< 1	< 1
1,2,4-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
Hexachlorobutadiene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2,3-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
MTBE	DETSC 3432*	1	ug/l	< 1	< 1	< 1

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Water VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,244,20-09146,20-09147,20-09149
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

				Lab No	1671902	1671903	1671904
					PRAIRIE_AUK_	PRAIRIE_AUK_	PRAIRIE_AUK_
					BH108S_GW_0	BH108D_GW_0	BH110_GW_06
				Sample ID	60520	60520	0520
				Depth			
				Other ID	100	100	100
				Sample Type	EW	EW	EW
				Sampling Date	06/05/2020	06/05/2020	06/05/2020
				Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
VOCs							
Dichlorodifluoromethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Chloromethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Vinyl Chloride	DETSC 3432	1	ug/l	< 1	< 1	< 1
Bromomethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Chloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Trichlorofluoromethane	DETSC 3432*	1	ug/l	< 1	< 1	< 1
1,1-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1	< 1
Methylene Chloride	DETSC 3432*	27	ug/l	< 27	< 27	< 27
Trans-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,1-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Cis-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1	< 1
2,2-dichloropropane	DETSC 3432	2	ug/l	< 2	< 2	< 2
Bromochloromethane	DETSC 3432	4	ug/l	< 4	< 4	< 4
Chloroform	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,1,1-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,1-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1	< 1
Carbon tetrachloride	DETSC 3432	1	ug/l	< 1	< 1	< 1
Benzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Trichloroethylene	DETSC 3432*	1	ug/l	< 1	< 1	< 1
1,2-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Dibromomethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Bromodichloromethane	DETSC 3432	4	ug/l	< 4	< 4	< 4
cis-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1	< 1
Toluene	DETSC 3432	1	ug/l	< 1	< 1	< 1
trans-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,1,2-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Tetrachloroethylene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,3-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Dibromochloromethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2-dibromoethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Chlorobenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,1,1,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Ethylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
m+p-Xylene	DETSC 3432	2	ug/l	< 2	< 2	< 2
o-Xylene	DETSC 3432	1	ug/l	< 1	< 1	< 1
Styrene	DETSC 3432	1	ug/l	< 1	< 1	< 1
Bromoform	DETSC 3432	1	ug/l	< 1	< 1	< 1

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Water VOC/SVOC Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-09144,20-09146,20-09147,20-09149
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1671902	1671903	1671904
				PRAIRIE_AUK_BH108S_GW_060520	PRAIRIE_AUK_BH108D_GW_060520	PRAIRIE_AUK_BH110_GW_060520
			Sample ID			
			Depth			
			Other ID	100	100	100
			Sample Type	EW	EW	EW
			Sampling Date	06/05/2020	06/05/2020	06/05/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Isopropylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,1,2,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1	< 1
Bromobenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2,3-trichloropropane	DETSC 3432	1	ug/l	< 1	< 1	< 1
n-propylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
2-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,3,5-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
4-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1	< 1
Tert-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2,4-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
sec-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
p-isopropyltoluene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,3-dichlorobenzene	DETSC 3432	2	ug/l	< 2	< 2	< 2
1,4-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
n-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2-dibromo-3-chloropropane	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2,4-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
Hexachlorobutadiene	DETSC 3432	1	ug/l	< 1	< 1	< 1
1,2,3-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1	< 1
MTBE	DETSC 3432*	1	ug/l	< 1	< 1	< 1

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Leachate Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-0

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

			Lab No	1665143	1665582	1665595
				PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP10	PRAIRIE_AUK_TP11
			Sample ID	5_SO_0080	8_SO_0200	4_SO_0090
			Depth	0.80	2.00	0.90
			Other ID	3	8	6
			Sample Type	ES	ES	ES
			Sampling Date	06/04/2020	06/04/2020	07/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Preparation						
BS EN 12457 10:1	DETSC 1009*			Y		
Leachate 2:1 250g Non-WAC	DETSC 1009*				Y	Y
Metals						
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.32	0.55	2.9
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	0.88	2.8	5.7
Barium, Dissolved	DETSC 2306	0.26	ug/l	7.9	27	2.3
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1	< 0.1	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	47	75	63
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	0.03	< 0.03	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	0.42	43	< 0.25
Chromium, Total	DETSC 2306*	0.25	ug/l			
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0	< 7.0	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.0	2.0	1.2
Iron, Dissolved	DETSC 2306	5.5	ug/l	21	< 5.5	52
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.45	0.09	0.85
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	2.1	0.72	0.34
Manganese, Dissolved	DETSC 2306	0.22	ug/l	52	1.8	10
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.02	0.01	< 0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	2.5	7.3	5.2
Nickel, Dissolved	DETSC 2306	0.5	ug/l	< 0.5	3.9	0.6
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	0.6	22	21
Zinc, Dissolved	DETSC 2306	1.3	ug/l	1.6	< 1.3	2.3
Inorganics						
pH	DETSC 2008		pH	8.2	10.4	8.5
Cyanide, Total	DETSC 2130	40	ug/l	< 40	< 40	< 40
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	1.6	< 0.015	0.029
Chloride	DETSC 2055	0.1	mg/l	6.5	10	6.5
Sulphate as SO4	DETSC 2055	0.1	mg/l	11	72	6.7

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Leachate Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-0

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

			Lab No	1665143	1665582	1665595
				PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP10	PRAIRIE_AUK_TP11
			Sample ID	5_SO_0080	8_SO_0200	4_SO_0090
			Depth	0.80	2.00	0.90
			Other ID	3	8	6
			Sample Type	ES	ES	ES
			Sampling Date	06/04/2020	06/04/2020	07/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 10.0
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 10.0
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 10.0
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	30
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 10.0
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 10.0
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 10.0
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	10	3000
Aromatic C12-C16	DETSC 3072*	1	ug/l	110	260	410
Aromatic C16-C21	DETSC 3072*	1	ug/l	22	65	180
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	51
Aromatic C5-C35	DETSC 3072*	10	ug/l	130	340	3700
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	130	340	3700
EPH (C10-C40)	DETSC 3311	10	ug/l	9300	66	

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Leachate Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-0

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

			Lab No	1665143	1665582	1665595
				PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP10	PRAIRIE_AUK_TP11
			Sample ID	5_SO_0080	8_SO_0200	4_SO_0090
			Depth	0.80	2.00	0.90
			Other ID	3	8	6
			Sample Type	ES	ES	ES
			Sampling Date	06/04/2020	06/04/2020	07/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PAHs						
Naphthalene	DETSC 3304	0.05	ug/l	890	0.17	10000
Acenaphthylene	DETSC 3304	0.01	ug/l	86	0.11	390
Acenaphthene	DETSC 3304	0.01	ug/l	910	0.12	30
Fluorene	DETSC 3304	0.01	ug/l	380	0.06	88
Phenanthrene	DETSC 3304	0.01	ug/l	360	0.13	200
Anthracene	DETSC 3304	0.01	ug/l	57	0.09	32
Fluoranthene	DETSC 3304	0.01	ug/l	66	0.40	45
Pyrene	DETSC 3304	0.01	ug/l	41	0.35	34
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	24	0.24	9.6
Chrysene	DETSC 3304	0.01	ug/l	20	0.31	8.8
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	27	0.65	12
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	9.7	0.23	4.6
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	19	0.36	8.6
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	15	0.33	5.7
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	3.0	0.05	< 1.00
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	9.5	0.27	5.6
PAH Total	DETSC 3304	0.2	ug/l	2900	3.9	11000
Phenols						
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100	2600

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Leachate Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,27758,20-07838,20-07839,20-07890,20-08118,20-08189,20-0838
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665614	1665615	1665616
				PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP18
			Sample ID	9_SO_0140	9_SO_0200	1_SO_0060
			Depth	1.40	2.00	0.60
			Other ID	4	7	3
			Sample Type	ES	ES	ES
			Sampling Date	09/04/2020	09/04/2020	09/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Preparation						
BS EN 12457 10:1	DETSC 1009*					
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y	Y	Y
Metals						
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.18	< 0.17	0.47
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	1.9	0.89	4.2
Barium, Dissolved	DETSC 2306	0.26	ug/l	70	6.0	5.6
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1	< 0.1	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	91	100	21
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25	0.79	0.93
Chromium, Total	DETSC 2306*	0.25	ug/l			
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0	< 7.0	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.0	2.7	5.6
Iron, Dissolved	DETSC 2306	5.5	ug/l	80	1700	94
Lead, Dissolved	DETSC 2306	0.09	ug/l	< 0.09	1.2	4.2
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	14	1.9	1.7
Manganese, Dissolved	DETSC 2306	0.22	ug/l	890	28	6.2
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	< 0.01	< 0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	2.0	1.3	1.2
Nickel, Dissolved	DETSC 2306	0.5	ug/l	2.6	1.1	0.5
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	0.6	1.3	2.4
Zinc, Dissolved	DETSC 2306	1.3	ug/l	5.3	3.3	2.0
Inorganics						
pH	DETSC 2008		pH	7.1	7.5	8.3
Cyanide, Total	DETSC 2130	40	ug/l	67	41	46
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.20	1.2	0.022
Chloride	DETSC 2055	0.1	mg/l	4.5	2.1	5.7
Sulphate as SO4	DETSC 2055	0.1	mg/l	37	180	27

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Leachate Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,27758,20-07838,20-07839,20-07890,20-08118,20-08189,20-0838
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665614	1665615	1665616
			Sample ID	PRAIRIE_AUK_TP17_SO_0140	PRAIRIE_AUK_TP17_SO_0200	PRAIRIE_AUK_TP18_SO_0060
			Depth	1.40	2.00	0.60
			Other ID	4	7	3
			Sample Type	ES	ES	ES
			Sampling Date	09/04/2020	09/04/2020	09/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 1.0	< 0.1	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 1.0	< 0.1	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 1.0	< 0.1	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 1.0	< 0.1	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 1.0	< 0.1	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 1.0	< 0.1	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	480	< 1.0	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	370	< 1.0	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	18	< 1.0	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	13	< 1.0	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	880	< 10	< 10
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	880	< 10	< 10
EPH (C10-C40)	DETSC 3311	10	ug/l			

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Leachate Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,27758,20-07838,20-07839,20-07890,20-08118,20-08189,20-0838
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

				Lab No	1665614	1665615	1665616
				Sample ID	PRAIRIE_AUK_TP17_SO_0140	PRAIRIE_AUK_TP17_SO_0200	PRAIRIE_AUK_TP18_SO_0060
				Depth	1.40	2.00	0.60
				Other ID	4	7	3
				Sample Type	ES	ES	ES
				Sampling Date	09/04/2020	09/04/2020	09/04/2020
				Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
PAHs							
Naphthalene	DETSC 3304	0.05	ug/l		2300	50	1.7
Acenaphthylene	DETSC 3304	0.01	ug/l		32	3.4	9.0
Acenaphthene	DETSC 3304	0.01	ug/l		490	47	3.3
Fluorene	DETSC 3304	0.01	ug/l		78	7.5	1.9
Phenanthrene	DETSC 3304	0.01	ug/l		16	2.1	4.2
Anthracene	DETSC 3304	0.01	ug/l		1.2	0.51	3.3
Fluoranthene	DETSC 3304	0.01	ug/l		1.2	0.41	4.3
Pyrene	DETSC 3304	0.01	ug/l		< 1.00	0.25	4.4
Benzo(a)anthracene	DETSC 3304	0.01	ug/l		< 1.00	< 0.10	2.1
Chrysene	DETSC 3304	0.01	ug/l		< 1.00	< 0.10	3.9
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l		< 1.00	< 0.10	8.1
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l		< 1.00	< 0.10	2.8
Benzo(a)pyrene	DETSC 3304	0.01	ug/l		< 1.00	< 0.10	4.4
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l		< 1.00	< 0.10	7.1
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l		< 1.00	< 0.10	1.7
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l		< 1.00	< 0.10	8.0
PAH Total	DETSC 3304	0.2	ug/l		2900	110	70
Phenols							
Phenol - Monohydric	DETSC 2130	100	ug/l		< 100	< 100	< 100

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Leachate Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,21,20-09141,20-09144,20-09146,20-09147,20-09149
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665617	1665996	1665997
				PRAIRIE_AUK_TP18	PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP16
			Sample ID	2_SO_0090	5_SO_0160	3_SO_0120
			Depth	0.90	1.60	1.20
			Other ID	3	4	3
			Sample Type	ES	ES	ES
			Sampling Date	09/04/2020	14/04/2020	14/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Preparation						
BS EN 12457 10:1	DETSC 1009*					
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y	Y	Y
Metals						
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.33	2.2	0.33
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	3.6	3.9	1.6
Barium, Dissolved	DETSC 2306	0.26	ug/l	6.5	26	32
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1	< 0.1	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	73	170	50
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	0.57	1.1	< 0.25
Chromium, Total	DETSC 2306*	0.25	ug/l			
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0	< 7.0	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	< 0.4	4.2	0.6
Iron, Dissolved	DETSC 2306	5.5	ug/l	480	50	860
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.09	0.26	< 0.09
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	3.3	4.6	4.5
Manganese, Dissolved	DETSC 2306	0.22	ug/l	86	7.6	400
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	0.02	< 0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	2.7	7.9	1.5
Nickel, Dissolved	DETSC 2306	0.5	ug/l	2.5	0.7	2.1
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	< 0.6	26	< 0.6
Zinc, Dissolved	DETSC 2306	1.3	ug/l	< 1.3	< 1.3	2.8
Inorganics						
pH	DETSC 2008		pH	7.6	8.7	8.1
Cyanide, Total	DETSC 2130	40	ug/l	1100	< 40	2200
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.071	< 0.015	< 0.015
Chloride	DETSC 2055	0.1	mg/l	3.0	3.0	2.6
Sulphate as SO4	DETSC 2055	0.1	mg/l	18	55	64

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Leachate Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,21,20-09141,20-09144,20-09146,20-09147,20-09149
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665617	1665996	1665997
				PRAIRIE_AUK_TP18	PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP16
			Sample ID	2_SO_0090	5_SO_0160	3_SO_0120
			Depth	0.90	1.60	1.20
			Other ID	3	4	3
			Sample Type	ES	ES	ES
			Sampling Date	09/04/2020	14/04/2020	14/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 1.0	< 0.1	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 1.0	< 0.1	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	820	< 0.1	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	820	< 10	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 1.0	< 0.1	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 1.0	< 0.1	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 1.0	< 0.1	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	3400	< 1.0	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	3500	< 1.0	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	610	< 1.0	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	180	< 1.0	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	7700	< 10	< 10
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	8500	< 10	< 10
EPH (C10-C40)	DETSC 3311	10	ug/l			

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Leachate Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,21,20-09141,20-09144,20-09146,20-09147,20-09149
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665617	1665996	1665997
				PRAIRIE_AUK_TP18	PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP16
			Sample ID	2_SO_0090	5_SO_0160	3_SO_0120
			Depth	0.90	1.60	1.20
			Other ID	3	4	3
			Sample Type	ES	ES	ES
			Sampling Date	09/04/2020	14/04/2020	14/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PAHs						
Naphthalene	DETSC 3304	0.05	ug/l	11000	0.78	3.2
Acenaphthylene	DETSC 3304	0.01	ug/l	190	0.16	30
Acenaphthene	DETSC 3304	0.01	ug/l	1100	0.40	650
Fluorene	DETSC 3304	0.01	ug/l	290	0.26	120
Phenanthrene	DETSC 3304	0.01	ug/l	170	0.95	5.7
Anthracene	DETSC 3304	0.01	ug/l	35	0.31	11
Fluoranthene	DETSC 3304	0.01	ug/l	24	2.2	11
Pyrene	DETSC 3304	0.01	ug/l	14	2.0	6.7
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	2.8	0.94	1.4
Chrysene	DETSC 3304	0.01	ug/l	3.1	1.8	1.5
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	2.4	3.7	1.6
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	1.1	1.3	< 1.00
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	1.3	2.2	< 1.00
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	< 1.00	2.2	< 1.00
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 1.00	0.33	< 1.00
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	< 1.00	2.9	< 1.00
PAH Total	DETSC 3304	0.2	ug/l	13000	22	840
Phenols						
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100	< 100

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Leachate Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1666349	1667239	1668136
				PRAIRIE_AUK_TP13	PRAIRIE_AUK_TP12	PRAIRIE_AUK_TP11
			Sample ID	6_SO_0080	8_SO_0090	0_SO_0100
			Depth	0.80	0.90	1.00
			Other ID	3	3	3
			Sample Type	ES	ES	ES
			Sampling Date	15/04/2020	17/04/2020	20/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Preparation						
BS EN 12457 10:1	DETSC 1009*					
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y	Y	Y
Metals						
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.25	0.58	0.70
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	1.0	5.9	0.47
Barium, Dissolved	DETSC 2306	0.26	ug/l	2.8	61	36
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1	< 0.1	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	< 12	76	15
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25	< 0.25	< 0.25
Chromium, Total	DETSC 2306*	0.25	ug/l			
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0	< 7.0	8.1
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.4	5.8	1.0
Iron, Dissolved	DETSC 2306	5.5	ug/l	14	160	28
Lead, Dissolved	DETSC 2306	0.09	ug/l	< 0.09	0.57	0.14
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	0.21	3.6	1.2
Manganese, Dissolved	DETSC 2306	0.22	ug/l	0.85	98	160
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	< 0.01	< 0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	< 1.1	1.9	< 1.1
Nickel, Dissolved	DETSC 2306	0.5	ug/l	0.7	2.5	3.7
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	5.4	2.2	< 0.6
Zinc, Dissolved	DETSC 2306	1.3	ug/l	< 1.3	7.2	15
Inorganics						
pH	DETSC 2008		pH	10.4	7.3	10.7
Cyanide, Total	DETSC 2130	40	ug/l	< 40	< 40	< 40
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	< 0.015	0.36	0.14
Chloride	DETSC 2055	0.1	mg/l	1.8	15	4.3
Sulphate as SO4	DETSC 2055	0.1	mg/l	18	1.7	31

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Leachate Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1666349	1667239	1668136
				PRAIRIE_AUK_TP13	PRAIRIE_AUK_TP12	PRAIRIE_AUK_TP11
			Sample ID	6_SO_0080	8_SO_0090	0_SO_0100
			Depth	0.80	0.90	1.00
			Other ID	3	3	3
			Sample Type	ES	ES	ES
			Sampling Date	15/04/2020	17/04/2020	20/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	13	19	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	87	260	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	7.1	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	340	1.7
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	54	2.4
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	15
Aliphatic C5-C35	DETSC 3072*	10	ug/l	100	680	19
Aromatic C5-C7	DETSC 3322	0.1	ug/l	6.6	4.5	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	6.7	15	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	3100	1.2
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	13000	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	95	18
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	4.2	81
Aromatic C5-C35	DETSC 3072*	10	ug/l	13	16000	100
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	110	17000	120
EPH (C10-C40)	DETSC 3311	10	ug/l			

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Leachate Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1666349	1667239	1668136
				PRAIRIE_AUK_TP13	PRAIRIE_AUK_TP12	PRAIRIE_AUK_TP11
			Sample ID	6_SO_0080	8_SO_0090	0_SO_0100
			Depth	0.80	0.90	1.00
			Other ID	3	3	3
			Sample Type	ES	ES	ES
			Sampling Date	15/04/2020	17/04/2020	20/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PAHs						
Naphthalene	DETSC 3304	0.05	ug/l	0.07	230	0.32
Acenaphthylene	DETSC 3304	0.01	ug/l	0.14	2.6	0.34
Acenaphthene	DETSC 3304	0.01	ug/l	0.21	160	0.52
Fluorene	DETSC 3304	0.01	ug/l	0.09	30	0.19
Phenanthrene	DETSC 3304	0.01	ug/l	0.17	0.75	1.2
Anthracene	DETSC 3304	0.01	ug/l	0.14	0.20	0.63
Fluoranthene	DETSC 3304	0.01	ug/l	2.7	0.05	9.9
Pyrene	DETSC 3304	0.01	ug/l	2.6	0.04	9.1
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	1.3	0.02	5.5
Chrysene	DETSC 3304	0.01	ug/l	2.2	0.04	6.7
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	2.8	0.04	13
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	0.99	0.01	4.3
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	1.7	0.02	8.5
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	1.6	0.04	4.0
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	0.32	< 0.01	1.3
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	1.5	0.04	5.0
PAH Total	DETSC 3304	0.2	ug/l	18	420	71
Phenols						
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100	< 100

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Leachate Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668137	1668573	1668574
				PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP14
			Sample ID	0_SO_0100	0_SO_0100	1_SO_0200
			Depth	1.00	1.00	2.00
			Other ID	4	3	4
			Sample Type	ES	ES	ES
			Sampling Date	20/04/2020	23/04/2020	23/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Preparation						
BS EN 12457 10:1	DETSC 1009*					
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y	Y	Y
Metals						
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.80	0.43	14
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	0.52	1.7	8.1
Barium, Dissolved	DETSC 2306	0.26	ug/l	40	11	20
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1	< 0.1	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	16	46	180
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25	1.7	< 0.25
Chromium, Total	DETSC 2306*	0.25	ug/l			
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0	< 7.0	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.0	4.2	0.7
Iron, Dissolved	DETSC 2306	5.5	ug/l	36	31	8.7
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.16	0.41	0.30
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	1.4	1.7	3.4
Manganese, Dissolved	DETSC 2306	0.22	ug/l	180	2.4	47
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	0.17	0.27
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	< 1.1	6.6	51
Nickel, Dissolved	DETSC 2306	0.5	ug/l	4.2	0.5	11
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	< 0.6	15	0.9
Zinc, Dissolved	DETSC 2306	1.3	ug/l	15	2.5	4.3
Inorganics						
pH	DETSC 2008		pH	8.4	8.4	8.2
Cyanide, Total	DETSC 2130	40	ug/l	< 40	< 40	< 40
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.20	0.033	0.91
Chloride	DETSC 2055	0.1	mg/l	5.8	0.73	1.4
Sulphate as SO4	DETSC 2055	0.1	mg/l	33	29	25

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Leachate Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668137	1668573	1668574
				PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP14
			Sample ID	0_SO_0100	0_SO_0100	1_SO_0200
			Depth	1.00	1.00	2.00
			Other ID	4	3	4
			Sample Type	ES	ES	ES
			Sampling Date	20/04/2020	23/04/2020	23/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	4.3	< 1.0	4.1
Aliphatic C12-C16	DETSC 3072*	1	ug/l	25	< 1.0	9.3
Aliphatic C16-C21	DETSC 3072*	1	ug/l	29	< 1.0	83
Aliphatic C21-C35	DETSC 3072*	1	ug/l	17	< 1.0	350
Aliphatic C5-C35	DETSC 3072*	10	ug/l	75	< 10	440
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	1.0	< 1.0	1.1
Aromatic C12-C16	DETSC 3072*	1	ug/l	5.7	< 1.0	4.9
Aromatic C16-C21	DETSC 3072*	1	ug/l	18	< 1.0	79
Aromatic C21-C35	DETSC 3072*	1	ug/l	20	< 1.0	390
Aromatic C5-C35	DETSC 3072*	10	ug/l	45	< 10	480
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	120	< 10	920
EPH (C10-C40)	DETSC 3311	10	ug/l			

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Leachate Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668137	1668573	1668574
				PRAIRIE_AUK_TP17	PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP14
			Sample ID	0_SO_0100	0_SO_0100	1_SO_0200
			Depth	1.00	1.00	2.00
			Other ID	4	3	4
			Sample Type	ES	ES	ES
			Sampling Date	20/04/2020	23/04/2020	23/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PAHs						
Naphthalene	DETSC 3304	0.05	ug/l	< 0.05	0.30	2.5
Acenaphthylene	DETSC 3304	0.01	ug/l	0.03	0.23	0.14
Acenaphthene	DETSC 3304	0.01	ug/l	0.02	0.11	0.54
Fluorene	DETSC 3304	0.01	ug/l	0.01	0.11	0.51
Phenanthrene	DETSC 3304	0.01	ug/l	0.07	1.2	1.4
Anthracene	DETSC 3304	0.01	ug/l	0.09	0.38	0.23
Fluoranthene	DETSC 3304	0.01	ug/l	0.28	3.5	1.4
Pyrene	DETSC 3304	0.01	ug/l	0.26	3.1	1.0
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.12	1.6	0.40
Chrysene	DETSC 3304	0.01	ug/l	0.14	2.4	0.61
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.19	4.4	0.50
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	0.07	1.9	0.20
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	0.11	2.9	0.31
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	0.17	4.0	0.33
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	0.04	0.69	< 0.10
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	0.15	3.8	0.35
PAH Total	DETSC 3304	0.2	ug/l	1.8	31	10
Phenols						
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100	< 100

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Leachate Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668575	1668870	1669252
				PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP11
			Sample ID	2_SO_0150	4_SO_0080	2_SO_0210
			Depth	1.50	0.80	2.10
			Other ID	4	3	7
			Sample Type	ES	ES	ES
			Sampling Date	23/04/2020	24/04/2020	22/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Preparation						
BS EN 12457 10:1	DETSC 1009*					
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y	Y	Y
Metals						
Antimony, Dissolved	DETSC 2306	0.17	ug/l	18	1.8	0.57
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	41	3.1	1.1
Barium, Dissolved	DETSC 2306	0.26	ug/l	2.9	38	17
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1	< 0.1	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	17	60	14
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	0.04	< 0.03	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	0.44	0.91	2.0
Chromium, Total	DETSC 2306*	0.25	ug/l			
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0	< 7.0	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	30	6.4	3.6
Iron, Dissolved	DETSC 2306	5.5	ug/l	240	47	34
Lead, Dissolved	DETSC 2306	0.09	ug/l	16	0.86	1.1
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	0.15	2.0	1.1
Manganese, Dissolved	DETSC 2306	0.22	ug/l	3.1	12	7.9
Mercury, Dissolved	DETSC 2306	0.01	ug/l	1.2	0.05	< 0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	77	4.4	2.3
Nickel, Dissolved	DETSC 2306	0.5	ug/l	18	1.2	< 0.5
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	1.6	5.4	1.0
Zinc, Dissolved	DETSC 2306	1.3	ug/l	6.0	3.8	2.9
Inorganics						
pH	DETSC 2008		pH	10.0	7.2	10.7
Cyanide, Total	DETSC 2130	40	ug/l	< 40	< 40	< 40
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	3.2	0.17	0.039
Chloride	DETSC 2055	0.1	mg/l	1.5	1.6	7.7
Sulphate as SO4	DETSC 2055	0.1	mg/l	2.2	58	33

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Leachate Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668575	1668870	1669252
				PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP11
			Sample ID	2_SO_0150	4_SO_0080	2_SO_0210
			Depth	1.50	0.80	2.10
			Other ID	4	3	7
			Sample Type	ES	ES	ES
			Sampling Date	23/04/2020	24/04/2020	22/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	1.2	< 1.0	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	8.3	< 1.0	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	130	5.4	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	1000	47	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	1200	53	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	1.4	1.2	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	12	1.7	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	100	14	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	670	66	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	790	83	< 10
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	1900	140	< 10
EPH (C10-C40)	DETSC 3311	10	ug/l			

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Leachate Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668575	1668870	1669252
				PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP11
			Sample ID	2_SO_0150	4_SO_0080	2_SO_0210
			Depth	1.50	0.80	2.10
			Other ID	4	3	7
			Sample Type	ES	ES	ES
			Sampling Date	23/04/2020	24/04/2020	22/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PAHs						
Naphthalene	DETSC 3304	0.05	ug/l	0.29	1.9	0.25
Acenaphthylene	DETSC 3304	0.01	ug/l	< 0.10	2.7	0.23
Acenaphthene	DETSC 3304	0.01	ug/l	< 0.10	0.93	0.05
Fluorene	DETSC 3304	0.01	ug/l	0.11	1.1	0.11
Phenanthrene	DETSC 3304	0.01	ug/l	0.24	16	5.7
Anthracene	DETSC 3304	0.01	ug/l	< 0.10	3.1	0.82
Fluoranthene	DETSC 3304	0.01	ug/l	< 0.10	36	2.5
Pyrene	DETSC 3304	0.01	ug/l	< 0.10	33	1.1
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	< 0.10	19	0.26
Chrysene	DETSC 3304	0.01	ug/l	< 0.10	20	0.32
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	< 0.10	35	0.30
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	< 0.10	11	0.16
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	< 0.10	21	0.14
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	< 0.10	22	0.22
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 0.10	10	0.04
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	< 0.10	20	0.18
PAH Total	DETSC 3304	0.2	ug/l	< 1.60	250	12
Phenols						
Phenol - Monohydric	DETSC 2130	100	ug/l	400	< 100	< 100

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Leachate Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

	Lab No	1670145	1675436	1675439
	Sample ID	PRAIRIE_AUK_TP20 1_SO_0360	PRAIRIE_AUK_TP12 3_SO_0060	PRAIRIE_AUK_TP120 A_SO_0100
	Depth	3.60	0.60	1.00
	Other ID	1	3	3
	Sample Type	ES	ES	ES
	Sampling Date	28/04/2020	08/04/2020	20/04/2020
	Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**	
Preparation				
BS EN 12457 10:1	DETSC 1009*			
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y	Y	Y
Metals				
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.98	2.8	1.6
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	2.1	4.7	1.4
Barium, Dissolved	DETSC 2306	0.26	ug/l	47	20	32
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1	< 0.1	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	150	51	110
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	0.11	< 0.03	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l		1.6	2.0
Chromium, Total	DETSC 2306*	0.25	ug/l	0.32		
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0	< 7.0	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	3.6	22	3.2
Iron, Dissolved	DETSC 2306	5.5	ug/l	< 5.5	31	9.6
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.20	0.20	< 0.09
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	24	0.22	0.29
Manganese, Dissolved	DETSC 2306	0.22	ug/l	30	1.6	0.90
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.01	0.02	0.03
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	2.1	3.4	1.8
Nickel, Dissolved	DETSC 2306	0.5	ug/l	6.3	1.2	< 0.5
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	0.8	48	78
Zinc, Dissolved	DETSC 2306	1.3	ug/l	33	< 1.3	< 1.3
Inorganics				
pH	DETSC 2008		pH	7.7	10.7	10.2
Cyanide, Total	DETSC 2130	40	ug/l	< 40	44	< 40
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.097	0.13	0.058
Chloride	DETSC 2055	0.1	mg/l	4.0	1.9	1.4
Sulphate as SO4	DETSC 2055	0.1	mg/l	400	31	37

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Leachate Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1670145	1675436	1675439
				PRAIRIE_AUK_TP20	PRAIRIE_AUK_TP12	PRAIRIE_AUK_TP120
			Sample ID	1_SO_0360	3_SO_0060	A_SO_0100
			Depth	3.60	0.60	1.00
			Other ID	1	3	3
			Sample Type	ES	ES	ES
			Sampling Date	28/04/2020	08/04/2020	20/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	< 10
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	< 10	< 10	< 10
EPH (C10-C40)	DETSC 3311	10	ug/l			

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Leachate Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1670145	1675436	1675439
				PRAIRIE_AUK_TP20	PRAIRIE_AUK_TP12	PRAIRIE_AUK_TP120
			Sample ID	1_SO_0360	3_SO_0060	A_SO_0100
			Depth	3.60	0.60	1.00
			Other ID	1	3	3
			Sample Type	ES	ES	ES
			Sampling Date	28/04/2020	08/04/2020	20/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PAHs						
Naphthalene	DETSC 3304	0.05	ug/l	0.28	0.30	0.63
Acenaphthylene	DETSC 3304	0.01	ug/l	0.02	0.58	0.43
Acenaphthene	DETSC 3304	0.01	ug/l	0.12	0.65	0.42
Fluorene	DETSC 3304	0.01	ug/l	0.03	0.28	0.21
Phenanthrene	DETSC 3304	0.01	ug/l	0.05	0.49	1.9
Anthracene	DETSC 3304	0.01	ug/l	0.04	0.21	0.89
Fluoranthene	DETSC 3304	0.01	ug/l	0.05	0.74	16
Pyrene	DETSC 3304	0.01	ug/l	0.04	0.50	18
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.02	0.35	9.4
Chrysene	DETSC 3304	0.01	ug/l	0.02	0.38	12
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.03	0.71	20
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	0.29	11
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	0.02	0.44	14
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	0.02	0.59	16
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 0.01	0.12	3.8
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	0.02	0.58	16
PAH Total	DETSC 3304	0.2	ug/l	0.75	7.2	140
Phenols						
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100	< 100

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Leachate Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1675441	1675442	1675443
				PRAIRIE_AUK_TP10	PRAIRIE_AUK_TP194	PRAIRIE_AUK_TP196
			Sample ID	3_SO_0100	A_SO_0140	A_SO_0140
			Depth	1.00	1.40	1.40
			Other ID	3	1	1
			Sample Type	ES	ES	ES
			Sampling Date	20/04/2020	29/04/2020	29/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Preparation						
BS EN 12457 10:1	DETSC 1009*					
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y	Y	Y
Metals						
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.46	0.71	0.66
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	1.5	1.5	0.98
Barium, Dissolved	DETSC 2306	0.26	ug/l	18	26	27
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1	< 0.1	0.3
Boron, Dissolved	DETSC 2306*	12	ug/l	51	150	75
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03	0.10
Chromium, Dissolved	DETSC 2306	0.25	ug/l	0.65	< 0.25	0.93
Chromium, Total	DETSC 2306*	0.25	ug/l			
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0	< 7.0	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	2.8	1.2	2.0
Iron, Dissolved	DETSC 2306	5.5	ug/l	15	150	410
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.14	< 0.09	1.1
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	2.4	5.6	4.8
Manganese, Dissolved	DETSC 2306	0.22	ug/l	7.9	330	580
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	< 0.01	0.04
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	1.5	2.7	6.1
Nickel, Dissolved	DETSC 2306	0.5	ug/l	< 0.5	2.1	2.6
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	27	1.1	1.4
Zinc, Dissolved	DETSC 2306	1.3	ug/l	10	4.5	1.7
Inorganics						
pH	DETSC 2008		pH	8.6	8.5	6.9
Cyanide, Total	DETSC 2130	40	ug/l	< 40	320	1000
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.16	0.078	0.063
Chloride	DETSC 2055	0.1	mg/l	1.3	2.5	2.2
Sulphate as SO4	DETSC 2055	0.1	mg/l	36	28	44

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Leachate Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1675441	1675442	1675443
				PRAIRIE_AUK_TP10	PRAIRIE_AUK_TP194	PRAIRIE_AUK_TP196
			Sample ID	3_SO_0100	A_SO_0140	A_SO_0140
			Depth	1.00	1.40	1.40
			Other ID	3	1	1
			Sample Type	ES	ES	ES
			Sampling Date	20/04/2020	29/04/2020	29/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	22	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10	22	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	1.1	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	25	12
Aromatic C16-C21	DETSC 3072*	1	ug/l	1.9	4.1	1.6
Aromatic C21-C35	DETSC 3072*	1	ug/l	6.4	1.0	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10	31	15
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	< 10	53	15
EPH (C10-C40)	DETSC 3311	10	ug/l			

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis

Leachate Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1675441	1675442	1675443
				PRAIRIE_AUK_TP10	PRAIRIE_AUK_TP194	PRAIRIE_AUK_TP196
			Sample ID	3_SO_0100	A_SO_0140	A_SO_0140
			Depth	1.00	1.40	1.40
			Other ID	3	1	1
			Sample Type	ES	ES	ES
			Sampling Date	20/04/2020	29/04/2020	29/04/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
PAHs						
Naphthalene	DETSC 3304	0.05	ug/l	4.6	57	34
Acenaphthylene	DETSC 3304	0.01	ug/l	3.2	200	170
Acenaphthene	DETSC 3304	0.01	ug/l	< 1.00	430	760
Fluorene	DETSC 3304	0.01	ug/l	1.1	200	270
Phenanthrene	DETSC 3304	0.01	ug/l	4.4	180	66
Anthracene	DETSC 3304	0.01	ug/l	4.8	53	66
Fluoranthene	DETSC 3304	0.01	ug/l	83	82	92
Pyrene	DETSC 3304	0.01	ug/l	95	48	56
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	70	22	18
Chrysene	DETSC 3304	0.01	ug/l	76	19	18
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	210	24	27
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	57	10	11
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	130	19	18
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	210	15	17
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	28	3.7	4.4
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	400	12	15
PAH Total	DETSC 3304	0.2	ug/l	1400	1400	1700
Phenols						
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100	< 100

Key: * -not accredited. n/s -not supplied.

Summary of Asbestos Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-0

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
1663605	PRAIRIE_AUK_TP132_SO_0130 4 1.30	SOIL	NAD	none	Joanne Luscombe
1663606	PRAIRIE_AUK_TP131_SO_0180 5 1.80	SOIL	NAD	none	Joanne Luscombe
1663734	PRAIRIE_AUK_TP101_SO_0100 5 1.00	SOIL	Chrysotile	Chrysotile present as fibre bundles	Joanne Luscombe
1663735	PRAIRIE_AUK_TP101_SO_0220 9 2.20	SOIL	NAD	none	Joanne Luscombe
1663736	PRAIRIE_AUK_TP104_SO_0150 5 1.50	SOIL	NAD	none	Joanne Luscombe
1663737	PRAIRIE_AUK_TP105_SO_0250 11 2.50	SOIL	NAD	none	Joanne Luscombe
1663978	PRAIRIE_AUK_BH104_SO_0550 1 5.50	SOIL	NAD	none	Joanne Luscombe
1665133	PRAIRIE_AUK_TP172_SO_0080 3 0.80	SOIL	Amosite	Amosite present in bundles	Lee Kerridge
1665134	PRAIRIE_AUK_TP175_SO_0080 3 0.80	SOIL	NAD	none	Lee Kerridge
1665135	PRAIRIE_AUK_TP175_SO_0180 6 1.80	SOIL	NAD	none	Lee Kerridge
1665136	PRAIRIE_AUK_TP178_SO_0080 3 0.80	SOIL	NAD	none	Lee Kerridge
1665137	PRAIRIE_AUK_BH106_SO_0550 1 5.50	SOIL	NAD	none	Lee Kerridge
1665138	PRAIRIE_AUK_TP107_SO_0180 6 1.80	SOIL	NAD	none	Lee Kerridge
1665139	PRAIRIE_AUK_TP107_SO_0080 11 0.80	SOIL	NAD	none	Lee Kerridge
1665140	PRAIRIE_AUK_TP108_SO_0100 5 1.00	SOIL	Amosite	Amosite present in bundles	Lee Kerridge
1665141	PRAIRIE_AUK_TP108_SO_0200 8 2.00	SOIL	Amosite	Amosite present in bundles	Lee Kerridge
1665142	PRAIRIE_AUK_TP113_SO_0130 5 1.30	SOIL	Chrysotile	Chrysotile present in bundles	Lee Kerridge
1665286	PRAIRIE_AUK_BH103_SO_0250 1 2.50	SOIL	NAD	none	Lee Kerridge
1665288	PRAIRIE_AUK_TP115_SO_0190 6 1.90	SOIL	NAD	none	Lee Kerridge
1665290	PRAIRIE_AUK_TP122_SO_0100 3 1.00	SOIL	Chrysotile	Chrysotile present in microscopic cement fragments	Lee Kerridge
1665291	PRAIRIE_AUK_TP123_SO_0060 3 0.60	SOIL	NAD	none	Lee Kerridge
1665292	PRAIRIE_AUK_TP185_SO_0430 5 4.30	SOIL	NAD	none	Lee Kerridge
1665293	PRAIRIE_AUK_TP186_SO_0050 3 0.50	SOIL	NAD	none	Lee Kerridge
1665295	PRAIRIE_AUK_TP188_SO_0100 3 1.00	SOIL	NAD	none	Lee Kerridge
1665450	PRARIE_AUK_TP121_SO_0150 4 1.50	SOIL	NAD	none	D Wilkinson
1665451	PRARIE_AUK_TP138_SO_0120 3 1.20	SOIL	Chrysotile	Chrysotile present in microscopic loose fibrous asbestos debris	D Wilkinson
1665452	PRARIE_AUK_TP149_SO_0130 3 1.30	SOIL	Chrysotile	Chrysotile present as fibre bundles	D Wilkinson
1665453	PRARIE_AUK_TP168_SO_0005 1 0.05	SOIL	Chrysotile	Chrysotile present as fibre bundles	D Wilkinson

Summary of Asbestos Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-0

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
1665454	PRARIE_AUK_TP173_SO_0090 3 0.90	SOIL	Chrysotile	Chrysotile present as fibre bundles	D Wilkinson
1665455	PRARIE_AUK_SURFACE1_SO_0000 1	SOIL	NAD	none	D Wilkinson
1665588	PRAIRIE_AUK_TP114_SO_0090 6 0.90	SOIL	NAD	none	Lee Kerridge
1665589	PRAIRIE_AUK_TP124_SO_0150 5 1.50	SOIL	Chrysotile	Chrysotile present in bundles	Lee Kerridge
1665590	PRAIRIE_AUK_TP174_SO_0080 3 0.80	SOIL	NAD	none	Lee Kerridge
1665591	PRAIRIE_AUK_TP174_SO_0160 6 1.60	SOIL	NAD	none	Lee Kerridge
1665592	PRAIRIE_AUK_TP176_SO_0090 3 0.90	SOIL	NAD	none	Lee Kerridge
1665593	PRAIRIE_AUK_TP177_SO_0060 2 0.60	SOIL	NAD	none	Lee Kerridge
1665594	PRAIRIE_AUK_TP189_SO_0300 7 3.00	SOIL	NAD	none	Lee Kerridge
1665610	PRAIRIE_AUK_TP179_SO_0140 4 1.40	SOIL	U/S	U/S	U/S
1665611	PRAIRIE_AUK_TP179_SO_0200 7 2.00	SOIL	NAD	none	D Wilkinson
1665612	PRAIRIE_AUK_TP181_SO_0060 3 0.60	SOIL	NAD	none	D Wilkinson
1665613	PRAIRIE_AUK_TP182_SO_0090 3 0.90	SOIL	U/S	U/S	U/S
1665990	PRAIRIE_AUK_TP145_SO_0160 4 1.60	SOIL	NAD	none	Joanne Luscombe
1665991	PRAIRIE_AUK_TP146C_SO_0130 5 1.30	SOIL	NAD	none	Joanne Luscombe
1665992	PRAIRIE_AUK_TP156A_SO_0030 2 0.30	SOIL	Chrysotile	Bundles of Chrysotile fibres	Joanne Luscombe
1665993	PRAIRIE_AUK_TP162_SO_0170 3A 1.70	SOIL	NAD	none	Joanne Luscombe
1665994	PRAIRIE_AUK_TP180_SO_0030 3 0.30	SOIL	NAD	none	Joanne Luscombe
1665995	PRAIRIE_AUK_TP163_SO_0120 3 1.20	SOIL	Chrysotile	Bundles of Chrysotile fibres	Joanne Luscombe
1666343	PRAIRIE_AUK_TP135_SO_0130 5 1.30	SOIL	Chrysotile Amosite	Amosite and Chrysotile present in Loose Fibrous Asbestos Debris	Lee Kerridge
1666344	PRAIRIE_AUK_TP136_SO_0080 3 0.80	SOIL	NAD	none	Lee Kerridge
1666345	PRAIRIE_AUK_TP136_SO_0290 10 2.90	SOIL	NAD	none	Lee Kerridge
1666346	PRAIRIE_AUK_TP165_SO_0100 3 1.00	SOIL	NAD	none	Lee Kerridge
1666347	PRAIRIE_AUK_TP167_SO_0250 6 2.50	SOIL	NAD	none	Lee Kerridge
1666348	PRAIRIE_AUK_TP169_SO_0150 3 1.50	SOIL	Chrysotile	Chrysotile present in bundles	Lee Kerridge
1666610	PRAIRIE_AUK_BH108_SO_0250 1 2.50	SOIL	NAD	none	Lee Kerridge
1666611	PRAIRIE_AUK_TP139B_SO_0030 3 0.30	SOIL	Chrysotile	Chrysotile present in bundles	Lee Kerridge
1666612	PRAIRIE_AUK_TP139B_SO_0330 6 3.30	SOIL	NAD	none	Lee Kerridge

Summary of Asbestos Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-0

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
1666613	PRAIRIE_AUK_TP148A_SO_0140 5 1.40	SOIL	NAD	none	Lee Kerridge
1666614	PRAIRIE_AUK_TP150_SO_0150 3 1.50	SOIL	Amosite Chrysotile	Amosite and Chrysotile present in Loose Fibrous Asbestos Debris	Lee Kerridge
1666615	PRAIRIE_AUK_TP159_SO_0060 3 0.60	SOIL	Amosite Chrysotile	Amosite and Chrysotile present in Loose Fibrous Asbestos Debris	Lee Kerridge
1666616	PRAIRIE_AUK_TP190A_SO_0110 3 1.10	SOIL	Amosite Chrysotile	Amosite and Chrysotile present in Loose Fibrous Asbestos Debris	Lee Kerridge
1667231	PRAIRIE_AUK_BH105_SO_0300 1 3.00	SOIL	NAD	none	Joanne Luscombe
1667232	PRAIRIE_AUK_TP126_SO_0260 5 2.60	SOIL	NAD	none	Joanne Luscombe
1667233	PRAIRIE_AUK_TP128_SO_0090 3 0.90	SOIL	Chrysotile	small bundles of Chrysotile present	Joanne Luscombe
1667234	PRAIRIE_AUK_TP129_SO_0210 4A 2.10	SOIL	NAD	none	Joanne Luscombe
1667235	PRAIRIE_AUK_TP130_SO_0100 4A 1.00	SOIL	NAD	none	Joanne Luscombe
1667236	PRAIRIE_AUK_TP147_SO_0150 4 1.50	SOIL	Amosite	Amosite present as fibre bundles	Joanne Luscombe
1667237	PRAIRIE_AUK_TP158_SO_0130 3 1.30	SOIL	NAD	none	Joanne Luscombe
1667238	PRAIRIE_AUK_TP157_SO_0080 2 0.80	SOIL	Amosite	Amosite present as fibre bundles	Joanne Luscombe
1667501	PRAIRIE_AUK_TP120A_SO_0100 3 1.00	SOIL	Chrysotile	Chrysotile bundles present	Lee Kerridge
1667502	PRAIRIE_AUK_TP134_SO_0100 3 1.00	SOIL	NAD	none	Lee Kerridge
1667503	PRAIRIE_AUK_TP134_SO_0200 6 2.00	SOIL	NAD	none	Lee Kerridge
1667504	PRAIRIE_AUK_TP161_SO_0100 3 1.00	SOIL	NAD	none	Lee Kerridge
1667505	PRAIRIE_AUK_TP166_SO_0045 3 0.45	SOIL	Amosite	Amosite present in bundles	Lee Kerridge
1667506	PRAIRIE_AUK_TP166_SO_0120 8 1.20	SOIL	NAD	none	Lee Kerridge
1667507	PRAIRIE_AUK_TP171_SO_0075 3 0.75	SOIL	NAD	none	Lee Kerridge
1667508	PRAIRIE_AUK_TP187_SO_0070 3 0.70	SOIL	NAD	none	Lee Kerridge
1668118	PRAIRIE_AUK_BH110_SO_0300 1 3.00	SOIL	NAD	none	Lee Kerridge
1668119	PRAIRIE_AUK_TP102_SO_0100 4 1.00	SOIL	NAD	none	Lee Kerridge
1668120	PRAIRIE_AUK_TP102_SO_0300 11 3.00	SOIL	Chrysotile	Chrysotile present in bundles	Lee Kerridge
1668121	PRAIRIE_AUK_TP103_SO_0100 3 1.00	SOIL	NAD	none	Lee Kerridge
1668122	PRAIRIE_AUK_TP109_SO_0100 3 1.00	SOIL	NAD	none	Lee Kerridge
1668123	PRAIRIE_AUK_TP110_SO_0100 3 1.00	SOIL	NAD	none	Lee Kerridge
1668124	PRAIRIE_AUK_TP110_SO_0200 7 2.00	SOIL	NAD	none	Lee Kerridge
1668125	PRAIRIE_AUK_TP111_SO_0150 4 1.50	SOIL	Chrysotile Amosite	Amosite and Chrysotile present in Loose Fibrous Asbestos Debris	Lee Kerridge

Summary of Asbestos Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-0

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
1668126	PRAIRIE_AUK_TP112_SO_0150 4 1.50	SOIL	NAD	none	Lee Kerridge
1668127	PRAIRIE_AUK_TP119_SO_0150 3 1.50	SOIL	NAD	none	Lee Kerridge
1668128	PRAIRIE_AUK_TP119_SO_0250 7 2.50	SOIL	NAD	none	Lee Kerridge
1668129	PRAIRIE_AUK_TP133_SO_0050 2 0.50	SOIL	NAD	none	Lee Kerridge
1668130	PRAIRIE_AUK_TP152_SO_0200 6 2.00	SOIL	Chrysotile	Chrysotile present in bundles	Lee Kerridge
1668131	PRAIRIE_AUK_TP153_SO_0110 4 1.10	SOIL	NAD	none	Lee Kerridge
1668132	PRAIRIE_AUK_TP154_SO_0085 3 0.85	SOIL	NAD	none	Lee Kerridge
1668133	PRAIRIE_AUK_TP155_SO_0070 3 0.70	SOIL	NAD	none	Lee Kerridge
1668134	PRAIRIE_AUK_TP160_SO_0075 4 0.75	SOIL	NAD	none	Lee Kerridge
1668135	PRAIRIE_AUK_TP170_SO_0100 4 1.00	SOIL	NAD	none	Lee Kerridge
1668557	PRAIRIE_AUK_TP164_SO_0070 3 0.70	SOIL	NAD	none	Lee Kerridge
1668558	PRAIRIE_AUK_TP164_SO_0130 5 1.30	SOIL	NAD	none	Lee Kerridge
1668559	PRAIRIE_AUK_TP184_SO_0030 2 0.30	SOIL	Amosite	Amosite present in bundles	Lee Kerridge
1668560	PRAIRIE_AUK_TP106_SO_0100 3 1.00	SOIL	NAD	none	Keith Wilson
1668561	PRAIRIE_AUK_TP116_SO_0130 3 1.30	SOIL	Chrysotile	Bundle of Chrysotile fibres	Keith Wilson
1668562	PRAIRIE_AUK_TP117_SO_0300 8 3.00	SOIL	Chrysotile	Bundle of Chrysotile fibres	Keith Wilson
1668563	PRAIRIE_AUK_TP118_SO_0120 3 1.20	SOIL	NAD	none	Keith Wilson
1668564	PRAIRIE_AUK_TP127_SO_0030 3 0.30	SOIL	NAD	none	Keith Wilson
1668565	PRAIRIE_AUK_TP127A_SO_0280 3 2.80	SOIL	NAD	none	Keith Wilson
1668566	PRAIRIE_AUK_TP140_SO_0100 3 1.00	SOIL	NAD	none	Keith Wilson
1668567	PRAIRIE_AUK_TP141_SO_0200 4 2.00	SOIL	U/S	U/S	U/S
1668568	PRAIRIE_AUK_TP142_SO_0090 3 0.90	SOIL	U/S	U/S	U/S
1668569	PRAIRIE_AUK_TP142_SO_0150 4 1.50	SOIL	U/S	U/S	U/S
1668570	PRAIRIE_AUK_TP143_SO_0080 3 0.80	SOIL	NAD	none	Keith Wilson
1668571	PRAIRIE_AUK_TP143_SO_0160 6 1.60	SOIL	NAD	none	Keith Wilson
1668572	PRAIRIE_AUK_TP151_SO_0120 5 1.20	SOIL	NAD	none	Keith Wilson
1668657	PRAIRIE_AUK_TP139_SO_0110 4 1.10	SOIL	NAD	none	Keith Wilson
1668869	PRAIRIE_AUK_TP144_SO_0080 3 0.80	SOIL	Chrysotile	Bundles of Chrysotile fibres	Keith Wilson

Summary of Asbestos Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-0

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
1669251	PRAIRIE_AUK_TP112_SO_0210 7 2.10	SOIL	NAD	none	Lee Kerridge
1670142	PRAIRIE_AUK_TP194A_SO_0140 1 1.40	SOIL	NAD	none	Keith Wilson
1670143	PRAIRIE_AUK_TP196A_SO_0140 1 1.40	SOIL	NAD	none	Keith Wilson
1670144	PRAIRIE_AUK_TP201_SO_0360 1 3.60	SOIL	NAD	none	Joanne Luscombe
1670502	PRAIRIE_AUK_TP193_SO_0080 1 0.80	SOIL	NAD	none	Keith Wilson
1675450	PRAIRIE_AUK_BH101_SO_0300 1 3.00	SOIL	NAD	none	Keith Wilson
1675451	PRAIRIE_AUK_BH107_SO_0300 1 3.00	SOIL	NAD	none	Keith Wilson

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

Summary of Asbestos Quantification Analysis

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-076
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

		Lab No	1663734	1665589
		Sample ID	PRAIRIE_AUK_TP10 1_SO_0100	PRAIRIE_AUK_TP12 4_SO_0150
		Depth	1.00	1.50
		Other ID	5	5
		Sample Type	SOIL	SOIL
		Sampling Date	01/04/2020	08/04/2020
		Sampling Time		
Test	**Method**	**Units**		
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	**0.001**	**0.002**
Gravimetric Quantification (a)	DETSC 1102	Mass %	na	na
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	0.001	0.002
Quantification by PCOM (c)	DETSC 1102	Mass %	na	na
Potentially Respirable Fibres (d)	DETSC 1102	Fibres/g	na	na
Breakdown of Gravimetric Analysis (a)				
Mass of Sample		g	853.49	918.67
ACMs present*		type		
Mass of ACM in sample		g		
% ACM by mass		%		
% asbestos in ACM		%		
% asbestos in sample		%		
Breakdown of Detailed Gravimetric Analysis (b)				
% Amphibole bundles in sample		Mass %	na	na
% Chrysotile bundles in sample		Mass %	0.001	0.002
Breakdown of PCOM Analysis (c)				
% Amphibole fibres in sample		Mass %	na	na
% Chrysotile fibres in sample		Mass %	na	na
Breakdown of Potentially Respirable Fibre Analysis (d)				
Amphibole fibres		Fibres/g	na	na
Chrysotile fibres		Fibres/g	na	na

* Denotes test or material description outside of UKAS accreditation.
% asbestos in Asbestos Containing Materials (ACMs) is determined by
by reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
# denotes deviating sample

Summary of Asbestos Quantification Analysi

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-0[illegible]58,20-07758,20-07838,20-07839,20-0789(
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

		Lab No	1665133	1665140
		Sample ID	PRAIRIE_AUK_TP17 2_SO_0800	PRAIRIE_AUK_TP10 8_SO_0100
		Depth	0.80	1.00
		Other ID	3	5
		Sample Type	SOIL	SOIL
		Sampling Date	06/04/2020	06/04/2020
		Sampling Time		
Test	**Method**	**Units**		
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	**0.001**	**0.001**
Gravimetric Quantification (a)	DETSC 1102	Mass %	na	na
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	0.001	0.001
Quantification by PCOM (c)	DETSC 1102	Mass %	na	na
Potentially Respirable Fibres (d)	DETSC 1102	Fibres/g	na	na
Breakdown of Gravimetric Analysis (a)				
Mass of Sample		g	782.89	1098.85
ACMs present*		type		
Mass of ACM in sample		g		
% ACM by mass		%		
% asbestos in ACM		%		
% asbestos in sample		%		
Breakdown of Detailed Gravimetric Analysis (b)				
% Amphibole bundles in sample		Mass %	0.001	0.001
% Chrysotile bundles in sample		Mass %	na	na
Breakdown of PCOM Analysis (c)				
% Amphibole fibres in sample		Mass %	na	na
% Chrysotile fibres in sample		Mass %	na	na
Breakdown of Potentially Respirable Fibre Analysis (d)				
Amphibole fibres		Fibres/g	na	na
Chrysotile fibres		Fibres/g	na	na

* Denotes test or material description outside of UKAS accreditation.
% asbestos in Asbestos Containing Materials (ACMs) is determined by
by reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
# denotes deviating sample

Summary of Asbestos Quantification Analysi

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-0),20-08118,20-08189,20-08381,20-09141,2
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

		Lab No	1665141	1665142
		Sample ID	PRAIRIE_AUK_TP10 8_SO_0200	PRAIRIE_AUK_TP11 3_SO_0130
		Depth	2.00	1.30
		Other ID	8	5
		Sample Type	SOIL	SOIL
		Sampling Date	06/04/2020	06/04/2020
		Sampling Time		
Test	**Method**	**Units**		
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	**0.002**	**0.005**
Gravimetric Quantification (a)	DETSC 1102	Mass %	na	na
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	0.002	0.005
Quantification by PCOM (c)	DETSC 1102	Mass %	na	na
Potentially Respirable Fibres (d)	DETSC 1102	Fibres/g	na	na
Breakdown of Gravimetric Analysis (a)				
Mass of Sample		g	761.41	715.05
ACMs present*		type		
Mass of ACM in sample		g		
% ACM by mass		%		
% asbestos in ACM		%		
% asbestos in sample		%		
Breakdown of Detailed Gravimetric Analysis (b)				
% Amphibole bundles in sample		Mass %	0.002	na
% Chrysotile bundles in sample		Mass %	na	0.005
Breakdown of PCOM Analysis (c)				
% Amphibole fibres in sample		Mass %	na	na
% Chrysotile fibres in sample		Mass %	na	na
Breakdown of Potentially Respirable Fibre Analysis (d)				
Amphibole fibres		Fibres/g	na	na
Chrysotile fibres		Fibres/g	na	na

* Denotes test or material description outside of UKAS accreditation.
% asbestos in Asbestos Containing Materials (ACMs) is determined by
by reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
# denotes deviating sample

Summary of Asbestos Quantification Analysi

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-00-09144,20-09146,20-09147,20-09149
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665290	1665451
			Sample ID	PRAIRIE_AUK_TP12 2_SO_0100	PRARIE_AUK_TP138 _SO_0120
			Depth	1.00	1.20
			Other ID	3	3
			Sample Type	SOIL	SOIL
			Sampling Date	08/04/2020	09/04/2020
			Sampling Time		
Test	**Method**	**Units**			
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %		**0.002**	**0.020**
Gravimetric Quantification (a)	DETSC 1102	Mass %		0.002	0.020
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %		na	na
Quantification by PCOM (c)	DETSC 1102	Mass %		na	na
Potentially Respirable Fibres (d)	DETSC 1102	Fibres/g		na	na
Breakdown of Gravimetric Analysis (a)					
Mass of Sample		g		1153.64	1191.05
ACMs present*		type		Cement	LFAD
Mass of ACM in sample		g		0.13	0.29
% ACM by mass		%		0.01	0.02
% asbestos in ACM		%		15	85.00
% asbestos in sample		%		0.002	0.020
Breakdown of Detailed Gravimetric Analysis (b)					
% Amphibole bundles in sample		Mass %		na	na
% Chrysotile bundles in sample		Mass %		na	na
Breakdown of PCOM Analysis (c)					
% Amphibole fibres in sample		Mass %		na	na
% Chrysotile fibres in sample		Mass %		na	na
Breakdown of Potentially Respirable Fibre Analysis (d)					
Amphibole fibres		Fibres/g		na	na
Chrysotile fibres		Fibres/g		na	na

* Denotes test or material description outside of UKAS accreditation.
% asbestos in Asbestos Containing Materials (ACMs) is determined by
by reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
# denotes deviating sample

Summary of Asbestos Quantification Analysi

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-0
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665452	1665453
			Sample ID	PRARIE_AUK_TP149 _SO_0130	PRARIE_AUK_TP168 _SO_0005
			Depth	1.30	0.05
			Other ID	3	1
			Sample Type	SOIL	SOIL
			Sampling Date	09/04/2020	09/04/2020
			Sampling Time		
Test	**Method**	**Units**			
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %		**< 0.001**	**< 0.001**
Gravimetric Quantification (a)	DETSC 1102	Mass %		na	na
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %		<0.001	<0.001
Quantification by PCOM (c)	DETSC 1102	Mass %		na	na
Potentially Respirable Fibres (d)	DETSC 1102	Fibres/g		na	na
Breakdown of Gravimetric Analysis (a)					
Mass of Sample		g		965.87	1101.46
ACMs present*		type			
Mass of ACM in sample		g			
% ACM by mass		%			
% asbestos in ACM		%			
% asbestos in sample		%			
Breakdown of Detailed Gravimetric Analysis (b)					
% Amphibole bundles in sample		Mass %		na	na
% Chrysotile bundles in sample		Mass %		<0.001	<0.001
Breakdown of PCOM Analysis (c)					
% Amphibole fibres in sample		Mass %		na	na
% Chrysotile fibres in sample		Mass %		na	na
Breakdown of Potentially Respirable Fibre Analysis (d)					
Amphibole fibres		Fibres/g		na	na
Chrysotile fibres		Fibres/g		na	na

* Denotes test or material description outside of UKAS accreditation.
% asbestos in Asbestos Containing Materials (ACMs) is determined by
by reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
# denotes deviating sample

Summary of Asbestos Quantification Analysi

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-0
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665454	1665992
			Sample ID	PRARIE_AUK_TP173 _SO_0090	PRAIRIE_AUK_TP156 A_SO_0030
			Depth	0.90	0.30
			Other ID	3	2
			Sample Type	SOIL	SOIL
			Sampling Date	09/04/2020	14/04/2020
			Sampling Time		
Test	**Method**	**Units**			
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %		**< 0.001**	**0.001**
Gravimetric Quantification (a)	DETSC 1102	Mass %		na	na
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %		<0.001	0.001
Quantification by PCOM (c)	DETSC 1102	Mass %		na	na
Potentially Respirable Fibres (d)	DETSC 1102	Fibres/g		na	na
Breakdown of Gravimetric Analysis (a)					
Mass of Sample		g		952.28	795.26
ACMs present*		type			
Mass of ACM in sample		g			
% ACM by mass		%			
% asbestos in ACM		%			
% asbestos in sample		%			
Breakdown of Detailed Gravimetric Analysis (b)					
% Amphibole bundles in sample		Mass %		na	na
% Chrysotile bundles in sample		Mass %		<0.001	0.001
Breakdown of PCOM Analysis (c)					
% Amphibole fibres in sample		Mass %		na	na
% Chrysotile fibres in sample		Mass %		na	na
Breakdown of Potentially Respirable Fibre Analysis (d)					
Amphibole fibres		Fibres/g		na	na
Chrysotile fibres		Fibres/g		na	na

* Denotes test or material description outside of UKAS accreditation.
% asbestos in Asbestos Containing Materials (ACMs) is determined by
by reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
# denotes deviating sample

Summary of Asbestos Quantification Analysi

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-0
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1665995	1666343
			Sample ID	PRAIRIE_AUK_TP16 3_SO_0120	PRAIRIE_AUK_TP13 5_SO_0130
			Depth	1.20	1.30
			Other ID	3	5
			Sample Type	SOIL	SOIL
			Sampling Date	14/04/2020	15/04/2020
			Sampling Time		
Test	**Method**	**Units**			
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %		**< 0.001**	**< 0.001**
Gravimetric Quantification (a)	DETSC 1102	Mass %		na	0.001
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %		<0.001	na
Quantification by PCOM (c)	DETSC 1102	Mass %		na	na
Potentially Respirable Fibres (d)	DETSC 1102	Fibres/g		na	na
Breakdown of Gravimetric Analysis (a)					
Mass of Sample		g		483.48	1011.94
ACMs present*		type			LFAD
Mass of ACM in sample		g			0.01
% ACM by mass		%			0.00
% asbestos in ACM		%			85.00
% asbestos in sample		%			0.001
Breakdown of Detailed Gravimetric Analysis (b)					
% Amphibole bundles in sample		Mass %		na	na
% Chrysotile bundles in sample		Mass %		<0.001	na
Breakdown of PCOM Analysis (c)					
% Amphibole fibres in sample		Mass %		na	na
% Chrysotile fibres in sample		Mass %		na	na
Breakdown of Potentially Respirable Fibre Analysis (d)					
Amphibole fibres		Fibres/g		na	na
Chrysotile fibres		Fibres/g		na	na

* Denotes test or material description outside of UKAS accreditation.
% asbestos in Asbestos Containing Materials (ACMs) is determined by
by reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
# denotes deviating sample

Summary of Asbestos Quantification Analysi

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-0
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

		Lab No	1666348	1666611
			PRAIRIE_AUK_TP16	PRAIRIE_AUK_TP139
		Sample ID	9_SO_0150	B_SO_0030
		Depth	1.50	0.30
		Other ID	3	3
		Sample Type	SOIL	SOIL
		Sampling Date	15/04/2020	16/04/2020
		Sampling Time		
Test	**Method**	**Units**		
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	**< 0.001**	**< 0.001**
Gravimetric Quantification (a)	DETSC 1102	Mass %	na	na
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	<0.001	<0.001
Quantification by PCOM (c)	DETSC 1102	Mass %	na	na
Potentially Respirable Fibres (d)	DETSC 1102	Fibres/g	na	na
Breakdown of Gravimetric Analysis (a)				
Mass of Sample		g	1335.01	780.11
ACMs present*		type		
Mass of ACM in sample		g		
% ACM by mass		%		
% asbestos in ACM		%		
% asbestos in sample		%		
Breakdown of Detailed Gravimetric Analysis (b)				
% Amphibole bundles in sample		Mass %	na	na
% Chrysotile bundles in sample		Mass %	<0.001	<0.001
Breakdown of PCOM Analysis (c)				
% Amphibole fibres in sample		Mass %	na	na
% Chrysotile fibres in sample		Mass %	na	na
Breakdown of Potentially Respirable Fibre Analysis (d)				
Amphibole fibres		Fibres/g	na	na
Chrysotile fibres		Fibres/g	na	na

* Denotes test or material description outside of UKAS accreditation.
% asbestos in Asbestos Containing Materials (ACMs) is determined by
by reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
# denotes deviating sample

Summary of Asbestos Quantification Analysi

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-0
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1666614	1666615
			Sample ID	PRAIRIE_AUK_TP150_SO_0150	PRAIRIE_AUK_TP159_SO_0060
			Depth	1.50	0.60
			Other ID	3	3
			Sample Type	SOIL	SOIL
			Sampling Date	16/04/2020	16/04/2020
			Sampling Time		
Test	**Method**	**Units**			
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %		**0.009**	**0.002**
Gravimetric Quantification (a)	DETSC 1102	Mass %		0.009	0.002
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %		na	na
Quantification by PCOM (c)	DETSC 1102	Mass %		na	na
Potentially Respirable Fibres (d)	DETSC 1102	Fibres/g		na	na
Breakdown of Gravimetric Analysis (a)					
Mass of Sample		g		932.90	695.59
ACMs present*		type		LFAD	LFAD
Mass of ACM in sample		g		0.10	0.01
% ACM by mass		%		0.01	0.00
% asbestos in ACM		%		85	85
% asbestos in sample		%		0.009	0.002
Breakdown of Detailed Gravimetric Analysis (b)					
% Amphibole bundles in sample		Mass %		na	na
% Chrysotile bundles in sample		Mass %		na	na
Breakdown of PCOM Analysis (c)					
% Amphibole fibres in sample		Mass %		na	na
% Chrysotile fibres in sample		Mass %		na	na
Breakdown of Potentially Respirable Fibre Analysis (d)					
Amphibole fibres		Fibres/g		na	na
Chrysotile fibres		Fibres/g		na	na

* Denotes test or material description outside of UKAS accreditation.
% asbestos in Asbestos Containing Materials (ACMs) is determined by
by reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
# denotes deviating sample

Summary of Asbestos Quantification Analysi

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-0
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1666616	1667233
				PRAIRIE_AUK_TP19	PRAIRIE_AUK_TP12
			Sample ID	0A_SO_0110	8_SO_0090
			Depth	1.10	0.90
			Other ID	3	3
			Sample Type	SOIL	SOIL
			Sampling Date	16/04/2020	17/04/2020
			Sampling Time		
Test	**Method**	**Units**			
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %		**0.003**	**< 0.001**
Gravimetric Quantification (a)	DETSC 1102	Mass %		0.003	na
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %		na	<0.001
Quantification by PCOM (c)	DETSC 1102	Mass %		na	na
Potentially Respirable Fibres (d)	DETSC 1102	Fibres/g		na	na
Breakdown of Gravimetric Analysis (a)					
Mass of Sample		g		1052.76	649.46
ACMs present*		type		LFAD	
Mass of ACM in sample		g		0.04	
% ACM by mass		%		0.00	
% asbestos in ACM		%		85	
% asbestos in sample		%		0.003	
Breakdown of Detailed Gravimetric Analysis (b)					
% Amphibole bundles in sample		Mass %		na	na
% Chrysotile bundles in sample		Mass %		na	<0.001
Breakdown of PCOM Analysis (c)					
% Amphibole fibres in sample		Mass %		na	na
% Chrysotile fibres in sample		Mass %		na	na
Breakdown of Potentially Respirable Fibre Analysis (d)					
Amphibole fibres		Fibres/g		na	na
Chrysotile fibres		Fibres/g		na	na

* Denotes test or material description outside of UKAS accreditation.
% asbestos in Asbestos Containing Materials (ACMs) is determined by
by reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
# denotes deviating sample

Summary of Asbestos Quantification Analysi

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-0
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

		Lab No	1667236	1667238
			PRAIRIE_AUK_TP14	PRAIRIE_AUK_TP15
		Sample ID	7_SO_0150	7_SO_0080
		Depth	1.50	0.80
		Other ID	4	2
		Sample Type	SOIL	SOIL
		Sampling Date	17/04/2020	17/04/2020
		Sampling Time		
Test	**Method**	**Units**		
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	**< 0.001**	**< 0.001**
Gravimetric Quantification (a)	DETSC 1102	Mass %	na	na
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	<0.001	<0.001
Quantification by PCOM (c)	DETSC 1102	Mass %	na	na
Potentially Respirable Fibres (d)	DETSC 1102	Fibres/g	na	na
Breakdown of Gravimetric Analysis (a)				
Mass of Sample		g	1033.16	999.70
ACMs present*		type		
Mass of ACM in sample		g		
% ACM by mass		%		
% asbestos in ACM		%		
% asbestos in sample		%		
Breakdown of Detailed Gravimetric Analysis (b)				
% Amphibole bundles in sample		Mass %	<0.001	<0.001
% Chrysotile bundles in sample		Mass %	na	na
Breakdown of PCOM Analysis (c)				
% Amphibole fibres in sample		Mass %	na	na
% Chrysotile fibres in sample		Mass %	na	na
Breakdown of Potentially Respirable Fibre Analysis (d)				
Amphibole fibres		Fibres/g	na	na
Chrysotile fibres		Fibres/g	na	na

* Denotes test or material description outside of UKAS accreditation.
% asbestos in Asbestos Containing Materials (ACMs) is determined by
by reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
# denotes deviating sample

Summary of Asbestos Quantification Analysi

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-0
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

		Lab No	1667501	1667505
			PRAIRIE_AUK_TP120	PRAIRIE_AUK_TP16
		Sample ID	A_SO_0100	6_SO_0045
		Depth	1.00	0.45
		Other ID	3	3
		Sample Type	SOIL	SOIL
		Sampling Date	20/04/2020	20/04/2020
		Sampling Time		
Test	**Method**	**Units**		
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	**0.001**	**0.001**
Gravimetric Quantification (a)	DETSC 1102	Mass %	na	na
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	0.001	0.001
Quantification by PCOM (c)	DETSC 1102	Mass %	na	na
Potentially Respirable Fibres (d)	DETSC 1102	Fibres/g	na	na
Breakdown of Gravimetric Analysis (a)				
Mass of Sample		g	925.95	1405.15
ACMs present*		type		
Mass of ACM in sample		g		
% ACM by mass		%		
% asbestos in ACM		%		
% asbestos in sample		%		
Breakdown of Detailed Gravimetric Analysis (b)				
% Amphibole bundles in sample		Mass %	na	0.001
% Chrysotile bundles in sample		Mass %	0.001	na
Breakdown of PCOM Analysis (c)				
% Amphibole fibres in sample		Mass %	na	na
% Chrysotile fibres in sample		Mass %	na	na
Breakdown of Potentially Respirable Fibre Analysis (d)				
Amphibole fibres		Fibres/g	na	na
Chrysotile fibres		Fibres/g	na	na

* Denotes test or material description outside of UKAS accreditation.
% asbestos in Asbestos Containing Materials (ACMs) is determined by
by reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
# denotes deviating sample

Summary of Asbestos Quantification Analysi

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-0
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668120	1668125
				PRAIRIE_AUK_TP10	PRAIRIE_AUK_TP11
			Sample ID	2_SO_0300	1_SO_0150
			Depth	3.00	1.50
			Other ID	11	4
			Sample Type	SOIL	SOIL
			Sampling Date	21/04/2020	22/04/2020
			Sampling Time		
Test	**Method**	**Units**			
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %		**< 0.001**	**0.002**
Gravimetric Quantification (a)	DETSC 1102	Mass %		na	0.002
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %		<0.001	na
Quantification by PCOM (c)	DETSC 1102	Mass %		na	na
Potentially Respirable Fibres (d)	DETSC 1102	Fibres/g		na	na
Breakdown of Gravimetric Analysis (a)					
Mass of Sample		g		709.21	825.28
ACMs present*		type			LFAD
Mass of ACM in sample		g			0.02
% ACM by mass		%			0.00
% asbestos in ACM		%			85
% asbestos in sample		%			0.002
Breakdown of Detailed Gravimetric Analysis (b)					
% Amphibole bundles in sample		Mass %		na	na
% Chrysotile bundles in sample		Mass %		<0.001	na
Breakdown of PCOM Analysis (c)					
% Amphibole fibres in sample		Mass %		na	na
% Chrysotile fibres in sample		Mass %		na	na
Breakdown of Potentially Respirable Fibre Analysis (d)					
Amphibole fibres		Fibres/g		na	na
Chrysotile fibres		Fibres/g		na	na

* Denotes test or material description outside of UKAS accreditation.
% asbestos in Asbestos Containing Materials (ACMs) is determined by
by reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
# denotes deviating sample

Summary of Asbestos Quantification Analysi

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-0
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

			Lab No	1668130	1668559
				PRAIRIE_AUK_TP15	PRAIRIE_AUK_TP18
			Sample ID	2_SO_0200	4_SO_0030
			Depth	2.00	0.30
			Other ID	6	2
			Sample Type	SOIL	SOIL
			Sampling Date	22/04/2020	16/04/2020
			Sampling Time		
Test	**Method**	**Units**			
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %		**0.002**	**< 0.001**
Gravimetric Quantification (a)	DETSC 1102	Mass %		na	na
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %		0.002	<0.001
Quantification by PCOM (c)	DETSC 1102	Mass %		na	na
Potentially Respirable Fibres (d)	DETSC 1102	Fibres/g		na	na
Breakdown of Gravimetric Analysis (a)					
Mass of Sample		g		1135.68	1256.23
ACMs present*		type			
Mass of ACM in sample		g			
% ACM by mass		%			
% asbestos in ACM		%			
% asbestos in sample		%			
Breakdown of Detailed Gravimetric Analysis (b)					
% Amphibole bundles in sample		Mass %		na	<0.001
% Chrysotile bundles in sample		Mass %		0.002	na
Breakdown of PCOM Analysis (c)					
% Amphibole fibres in sample		Mass %		na	na
% Chrysotile fibres in sample		Mass %		na	na
Breakdown of Potentially Respirable Fibre Analysis (d)					
Amphibole fibres		Fibres/g		na	na
Chrysotile fibres		Fibres/g		na	na

* Denotes test or material description outside of UKAS accreditation.
% asbestos in Asbestos Containing Materials (ACMs) is determined by
by reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
# denotes deviating sample

Summary of Asbestos Quantification Analysi

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-0
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

		Lab No	1668561	1668562
			PRAIRIE_AUK_TP11	PRAIRIE_AUK_TP11
		Sample ID	6_SO_0130	7_SO_0300
		Depth	1.30	3.00
		Other ID	3	8
		Sample Type	SOIL	SOIL
		Sampling Date	23/04/2020	23/04/2020
		Sampling Time		
Test	**Method**	**Units**		
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	**< 0.001**	**< 0.001**
Gravimetric Quantification (a)	DETSC 1102	Mass %	na	na
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	<0.001	<0.001
Quantification by PCOM (c)	DETSC 1102	Mass %	na	na
Potentially Respirable Fibres (d)	DETSC 1102	Fibres/g	na	na
Breakdown of Gravimetric Analysis (a)				
Mass of Sample		g	942.18	883.57
ACMs present*		type		
Mass of ACM in sample		g		
% ACM by mass		%		
% asbestos in ACM		%		
% asbestos in sample		%		
Breakdown of Detailed Gravimetric Analysis (b)				
% Amphibole bundles in sample		Mass %	na	na
% Chrysotile bundles in sample		Mass %	<0.001	<0.001
Breakdown of PCOM Analysis (c)				
% Amphibole fibres in sample		Mass %	na	na
% Chrysotile fibres in sample		Mass %	na	na
Breakdown of Potentially Respirable Fibre Analysis (d)				
Amphibole fibres		Fibres/g	na	na
Chrysotile fibres		Fibres/g	na	na

* Denotes test or material description outside of UKAS accreditation.
% asbestos in Asbestos Containing Materials (ACMs) is determined by
by reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
# denotes deviating sample

Summary of Asbestos Quantification Analysi

Soil Samples

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-0
Client Ref 4251
Contract Title Prairie Site Ground Investigation Works

Lab No	1668869
	PRAIRIE_AUK_TP14
Sample ID	4_SO_0080
Depth	0.80
Other ID	3
Sample Type	SOIL
Sampling Date	24/04/2020
Sampling Time	

Test	Method	Units	
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	**0.001**
Gravimetric Quantification (a)	DETSC 1102	Mass %	na
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	0.001
Quantification by PCOM (c)	DETSC 1102	Mass %	na
Potentially Respirable Fibres (d)	DETSC 1102	Fibres/g	na
Breakdown of Gravimetric Analysis (a)			
Mass of Sample		g	1140.96
ACMs present*		type	
Mass of ACM in sample		g	
% ACM by mass		%	
% asbestos in ACM		%	
% asbestos in sample		%	
Breakdown of Detailed Gravimetric Analysis (b)			
% Amphibole bundles in sample		Mass %	na
% Chrysotile bundles in sample		Mass %	0.001
Breakdown of PCOM Analysis (c)			
% Amphibole fibres in sample		Mass %	na
% Chrysotile fibres in sample		Mass %	na
Breakdown of Potentially Respirable Fibre Analysis (d)			
Amphibole fibres		Fibres/g	na
Chrysotile fibres		Fibres/g	na

* Denotes test or material description outside of UKAS accreditation.
% asbestos in Asbestos Containing Materials (ACMs) is determined by
by reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
# denotes deviating sample

Information in Support of the Analytical Results

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758
Client Ref 4251
Contract Prairie Site Ground Investigation Works

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1663605	PRAIRIE_AUK_TP132_SO_0 130 1.30 SOIL	02/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1663606	PRAIRIE_AUK_TP131_SO_0 180 1.80 SOIL	02/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1663734	PRAIRIE_AUK_TP101_SO_0 100 1.00 SOIL	01/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1663735	PRAIRIE_AUK_TP101_SO_0 220 2.20 SOIL	01/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1663736	PRAIRIE_AUK_TP104_SO_0 150 1.50 SOIL	01/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1663737	PRAIRIE_AUK_TP105_SO_0 250 2.50 SOIL	01/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1663978	PRAIRIE_AUK_BH104_SO_0 550 5.50 SOIL	03/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665133	PRAIRIE_AUK_TP172_SO_0 080 0.80 SOIL	06/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
1665134	PRAIRIE_AUK_TP175_SO_0 080 0.80 SOIL	06/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days), VOC (7 days)	
1665135	PRAIRIE_AUK_TP175_SO_0 180 1.80 SOIL	06/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
1665136	PRAIRIE_AUK_TP178_SO_0 080 0.80 SOIL	06/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
1665137	PRAIRIE_AUK_BH106_SO_0 550 5.50 SOIL	06/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
1665138	PRAIRIE_AUK_TP107_SO_0 180 1.80 SOIL	06/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
1665139	PRAIRIE_AUK_TP107_SO_0 080 0.80 SOIL	06/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
1665140	PRAIRIE_AUK_TP108_SO_0 100 1.00 SOIL	06/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
1665141	PRAIRIE_AUK_TP108_SO_0 200 2.00 SOIL	06/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days), VOC (7 days)	
1665142	PRAIRIE_AUK_TP113_SO_0 130 1.30 SOIL	06/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
1665143	PRAIRIE_AUK_TP175_SO_0 080 0.80 LEACHATE	06/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665286	PRAIRIE_AUK_BH103_SO_0 250 2.50 SOIL	08/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665287	PRAIRIE_AUK_SW1 0.00 WATER	09/04/20	PB 1L	Aliphatics/Aromatics (4 days), Kone (4 days), pH/Cond/TDS (1 days), PAH MS (4 days), EPH (4 days)	Aliphatics/Aromatics, BTEX/PRO, Naphthalene, PAH MS, EPH
1665288	PRAIRIE_AUK_TP115_SO_0 190 1.90 SOIL	08/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665289	PRAIRIE_AUK_TP115_SO_0 050 0.50 WATER	08/04/20	PB 1L	Aliphatics/Aromatics (4 days), Kone (4 days), pH/Cond/TDS (1 days), PAH MS (4 days), EPH (4 days)	Aliphatics/Aromatics, BTEX/PRO, Naphthalene, PAH MS, EPH

Information in Support of the Analytical Results

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758
Client Ref 4251
Contract Prairie Site Ground Investigation Works

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1665290	PRAIRIE_AUK_TP122_SO_0100 1.00 SOIL	08/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665291	PRAIRIE_AUK_TP123_SO_0060 0.60 SOIL	08/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665292	PRAIRIE_AUK_TP185_SO_0430 4.30 SOIL	08/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665293	PRAIRIE_AUK_TP186_SO_0050 0.50 SOIL	07/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665294	PRAIRIE_AUK_TP186_SO_0100 1.00 WATER	07/04/20	PB 1L x2	Aliphatics/Aromatics (4 days), Kone (4 days), pH/Cond/TDS (1 days), PAH MS (4 days), EPH (4 days)	Aliphatics/Aromatics, BTEX/PRO, Naphthalene, PAH MS, EPH
1665295	PRAIRIE_AUK_TP188_SO_0100 1.00 SOIL	08/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665450	PRARIE_AUK_TP121_SO_0150 1.50 SOIL	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665451	PRARIE_AUK_TP138_SO_0120 1.20 SOIL	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665452	PRARIE_AUK_TP149_SO_0130 1.30 SOIL	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665453	PRARIE_AUK_TP168_SO_0005 0.05 SOIL	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665454	PRARIE_AUK_TP173_SO_0090 0.90 SOIL	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665455	PRARIE_AUK_SURFACE1_SO_0000 SOIL	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665582	PRAIRIE_AUK_TP108_SO_0200 2.00 LEACHATE	06/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665588	PRAIRIE_AUK_TP114_SO_0090 0.90 SOIL	07/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days), VOC (7 days)	
1665589	PRAIRIE_AUK_TP124_SO_0150 1.50 SOIL	08/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665590	PRAIRIE_AUK_TP174_SO_0080 0.80 SOIL	08/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665591	PRAIRIE_AUK_TP174_SO_0160 1.60 SOIL	08/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665592	PRAIRIE_AUK_TP176_SO_0090 0.90 SOIL	07/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
1665593	PRAIRIE_AUK_TP177_SO_0060 0.60 SOIL	07/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
1665594	PRAIRIE_AUK_TP189_SO_0300 3.00 SOIL	07/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
1665595	PRAIRIE_AUK_TP114_SO_0090 0.90 LEACHATE	07/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665610	PRAIRIE_AUK_TP179_SO_0140 1.40 SOIL	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665611	PRAIRIE_AUK_TP179_SO_0200 2.00 SOIL	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665612	PRAIRIE_AUK_TP181_SO_0060 0.60 SOIL	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665613	PRAIRIE_AUK_TP182_SO_0090 0.90 SOIL	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		

Information in Support of the Analytical Results

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758
Client Ref 4251
Contract Prairie Site Ground Investigation Works

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1665614	PRAIRIE_AUK_TP179_SO_0140 1.40 LEACHATE	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665615	PRAIRIE_AUK_TP179_SO_0200 2.00 LEACHATE	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665616	PRAIRIE_AUK_TP181_SO_0060 0.60 LEACHATE	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665617	PRAIRIE_AUK_TP182_SO_0090 0.90 LEACHATE	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665990	PRAIRIE_AUK_TP145_SO_0160 1.60 SOIL	14/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665991	PRAIRIE_AUK_TP146C_SO_0130 1.30 SOIL	14/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665992	PRAIRIE_AUK_TP156A_SO_0030 0.30 SOIL	14/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665993	PRAIRIE_AUK_TP162_SO_0170 1.70 SOIL	14/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665994	PRAIRIE_AUK_TP180_SO_0030 0.30 SOIL	14/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665995	PRAIRIE_AUK_TP163_SO_0120 1.20 SOIL	14/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665996	PRAIRIE_AUK_TP145_SO_0160 1.60 LEACHATE	14/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665997	PRAIRIE_AUK_TP163_SO_0120 1.20 LEACHATE	14/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666343	PRAIRIE_AUK_TP135_SO_0130 1.30 SOIL	15/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666344	PRAIRIE_AUK_TP136_SO_0080 0.80 SOIL	15/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666345	PRAIRIE_AUK_TP136_SO_0290 2.90 SOIL	15/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666346	PRAIRIE_AUK_TP165_SO_0100 1.00 SOIL	15/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666347	PRAIRIE_AUK_TP167_SO_0250 2.50 SOIL	15/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666348	PRAIRIE_AUK_TP169_SO_0150 1.50 SOIL	15/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666349	PRAIRIE_AUK_TP136_SO_0080 0.80 LEACHATE	15/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666610	PRAIRIE_AUK_BH108_SO_0250 2.50 SOIL	15/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666611	PRAIRIE_AUK_TP139B_SO_0030 0.30 SOIL	16/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666612	PRAIRIE_AUK_TP139B_SO_0330 3.30 SOIL	16/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666613	PRAIRIE_AUK_TP148A_SO_0140 1.40 SOIL	16/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666614	PRAIRIE_AUK_TP150_SO_0150 1.50 SOIL	16/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666615	PRAIRIE_AUK_TP159_SO_0060 0.60 SOIL	16/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666616	PRAIRIE_AUK_TP190A_SO_0110 1.10 SOIL	16/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		

Information in Support of the Analytical Results

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758
Client Ref 4251
Contract Prairie Site Ground Investigation Works

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1667231	PRAIRIE_AUK_BH105_SO_0300 3.00 SOIL	16/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667232	PRAIRIE_AUK_TP126_SO_0260 2.60 SOIL	17/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667233	PRAIRIE_AUK_TP128_SO_0090 0.90 SOIL	17/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667234	PRAIRIE_AUK_TP129_SO_0210 2.10 SOIL	17/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667235	PRAIRIE_AUK_TP130_SO_0100 1.00 SOIL	17/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667236	PRAIRIE_AUK_TP147_SO_0150 1.50 SOIL	17/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667237	PRAIRIE_AUK_TP158_SO_0130 1.30 SOIL	17/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667238	PRAIRIE_AUK_TP157_SO_0080 0.80 SOIL	17/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667239	PRAIRIE_AUK_TP128_SO_0090 0.90 LEACHATE	17/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667501	PRAIRIE_AUK_TP120A_SO_0100 1.00 SOIL	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667502	PRAIRIE_AUK_TP134_SO_0100 1.00 SOIL	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667503	PRAIRIE_AUK_TP134_SO_0200 2.00 SOIL	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667504	PRAIRIE_AUK_TP161_SO_0100 1.00 SOIL	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667505	PRAIRIE_AUK_TP166_SO_0045 0.45 SOIL	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667506	PRAIRIE_AUK_TP166_SO_0120 1.20 SOIL	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667507	PRAIRIE_AUK_TP171_SO_0075 0.75 SOIL	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667508	PRAIRIE_AUK_TP187_SO_0070 0.70 SOIL	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668118	PRAIRIE_AUK_BH110_SO_0300 3.00 SOIL	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668119	PRAIRIE_AUK_TP102_SO_0100 1.00 SOIL	21/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668120	PRAIRIE_AUK_TP102_SO_0300 3.00 SOIL	21/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668121	PRAIRIE_AUK_TP103_SO_0100 1.00 SOIL	21/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668122	PRAIRIE_AUK_TP109_SO_0100 1.00 SOIL	21/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668123	PRAIRIE_AUK_TP110_SO_0100 1.00 SOIL	21/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668124	PRAIRIE_AUK_TP110_SO_0200 2.00 SOIL	21/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668125	PRAIRIE_AUK_TP111_SO_0150 1.50 SOIL	22/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668126	PRAIRIE_AUK_TP112_SO_0150 1.50 SOIL	22/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		

Information in Support of the Analytical Results

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758
Client Ref 4251
Contract Prairie Site Ground Investigation Works

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1668127	PRAIRIE_AUK_TP119_SO_0150 1.50 SOIL	22/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668128	PRAIRIE_AUK_TP119_SO_0250 2.50 SOIL	22/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668129	PRAIRIE_AUK_TP133_SO_0050 0.50 SOIL	22/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668130	PRAIRIE_AUK_TP152_SO_0200 2.00 SOIL	22/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668131	PRAIRIE_AUK_TP153_SO_0110 1.10 SOIL	22/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668132	PRAIRIE_AUK_TP154_SO_0085 0.85 SOIL	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668133	PRAIRIE_AUK_TP155_SO_0070 0.70 SOIL	21/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668134	PRAIRIE_AUK_TP160_SO_0075 0.75 SOIL	21/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668135	PRAIRIE_AUK_TP170_SO_0100 1.00 SOIL	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668136	PRAIRIE_AUK_TP110_SO_0100 1.00 LEACHATE	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668137	PRAIRIE_AUK_TP170_SO_0100 1.00 LEACHATE	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668557	PRAIRIE_AUK_TP164_SO_0070 0.70 SOIL	16/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
1668558	PRAIRIE_AUK_TP164_SO_0130 1.30 SOIL	16/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
1668559	PRAIRIE_AUK_TP184_SO_0030 0.30 SOIL	16/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
1668560	PRAIRIE_AUK_TP106_SO_0100 1.00 SOIL	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668561	PRAIRIE_AUK_TP116_SO_0130 1.30 SOIL	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668562	PRAIRIE_AUK_TP117_SO_0300 3.00 SOIL	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668563	PRAIRIE_AUK_TP118_SO_0120 1.20 SOIL	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668564	PRAIRIE_AUK_TP127_SO_0030 0.30 SOIL	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668565	PRAIRIE_AUK_TP127A_SO_0280 2.80 SOIL	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668566	PRAIRIE_AUK_TP140_SO_0100 1.00 SOIL	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668567	PRAIRIE_AUK_TP141_SO_0200 2.00 SOIL	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668568	PRAIRIE_AUK_TP142_SO_0090 0.90 SOIL	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668569	PRAIRIE_AUK_TP142_SO_0150 1.50 SOIL	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668570	PRAIRIE_AUK_TP143_SO_0080 0.80 SOIL	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668571	PRAIRIE_AUK_TP143_SO_0160 1.60 SOIL	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		

Information in Support of the Analytical Results

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758
Client Ref 4251
Contract Prairie Site Ground Investigation Works

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1668572	PRAIRIE_AUK_TP151_SO_0120 1.20 SOIL	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668573	PRAIRIE_AUK_TP140_SO_0100 1.00 LEACHATE	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668574	PRAIRIE_AUK_TP141_SO_0200 2.00 LEACHATE	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668575	PRAIRIE_AUK_TP142_SO_0150 1.50 LEACHATE	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668657	PRAIRIE_AUK_TP139_SO_0110 1.10 SOIL	16/04/20	No containers logged	Sulphur (free) (7 days), pH + Conductivity (7 days)	Cannot evaluate
1668869	PRAIRIE_AUK_TP144_SO_0080 0.80 SOIL	24/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668870	PRAIRIE_AUK_TP144_SO_0080 0.80 LEACHATE	24/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1669251	PRAIRIE_AUK_TP112_SO_0210 2.10 SOIL	22/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1669252	PRAIRIE_AUK_TP112_SO_0210 2.10 LEACHATE	22/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1670142	PRAIRIE_AUK_TP194A_SO_0140 1.40 SOIL	29/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1670143	PRAIRIE_AUK_TP196A_SO_0140 1.40 SOIL	29/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1670144	PRAIRIE_AUK_TP201_SO_0360 3.60 SOIL	28/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1670145	PRAIRIE_AUK_TP201_SO_0360 3.60 LEACHATE	28/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1670502	PRAIRIE_AUK_TP193_SO_0080 0.80 SOIL	30/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1671485	PRAIRIE_AUK_BH102_GW_050520 WATER	05/05/20	GB 1L x3, GV, PB 1L	pH/Cond/TDS (1 days)	
1671486	PRAIRIE_AUK_BH103_GW_050520 WATER	05/05/20	GB 1L x3, GV, PB 1L	pH/Cond/TDS (1 days)	
1671487	PRAIRIE_AUK_BH104_GW_050520 WATER	05/05/20	GB 1L x3, GV, PB 1L	pH/Cond/TDS (1 days)	
1671488	PRAIRIE_AUK_BH105_GW_050520 WATER	05/05/20	GB 1L x3, GV, PB 1L	pH/Cond/TDS (1 days)	
1671489	PRAIRIE_AUK_BH107_GW_050520 WATER	05/05/20	GB 1L x3, GV, PB 1L	pH/Cond/TDS (1 days)	
1671490	PRAIRIE_AUK_BH109_GW_050520 WATER	05/05/20	GB 1L x3, GV, PB 1L	pH/Cond/TDS (1 days)	
1671899	PRAIRIE_AUK_BH101S_GW_060520 WATER	06/05/20	GB 1L x2, GV, PB 1L	Aliphatics/Aromatics (4 days), Chromium, Hexavalent (4 days), Kone (4 days), pH/Cond/TDS (1 days), Nitrite as N (2 days), PAH MS (4 days)	
1671900	PRAIRIE_AUK_BH101D_GW_060520 WATER	06/05/20	GB 1L x2, GV, PB 1L	Aliphatics/Aromatics (4 days), Chromium, Hexavalent (4 days), Kone (4 days), pH/Cond/TDS (1 days), Nitrite as N (2 days), PAH MS (4 days)	

Information in Support of the Analytical Results

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758
Client Ref 4251
Contract Prairie Site Ground Investigation Works

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1671901	PRAIRIE_AUK_BH106_GW_060520 WATER	06/05/20	GB 1L x2, GV, PB 1L	Aliphatics/Aromatics (4 days), Chromium, Hexavalent (4 days), Kone (4 days), pH/Cond/TDS (1 days), Nitrite as N (2 days), PAH MS (4 days)	
1671902	PRAIRIE_AUK_BH108S_GW_060520 WATER	06/05/20	GB 1L x2, GV, PB 1L	Aliphatics/Aromatics (4 days), Chromium, Hexavalent (4 days), Kone (4 days), pH/Cond/TDS (1 days), Nitrite as N (2 days), PAH MS (4 days)	
1671903	PRAIRIE_AUK_BH108D_GW_060520 WATER	06/05/20	GB 1L x2, GV, PB 1L	Aliphatics/Aromatics (4 days), Chromium, Hexavalent (4 days), Kone (4 days), pH/Cond/TDS (1 days), Nitrite as N (2 days), PAH MS (4 days)	
1671904	PRAIRIE_AUK_BH110_GW_060520 WATER	06/05/20	GB 1L x2, GV, PB 1L	Aliphatics/Aromatics (4 days), Chromium, Hexavalent (4 days), Kone (4 days), pH/Cond/TDS (1 days), Nitrite as N (2 days), PAH MS (4 days)	
1675436	PRAIRIE_AUK_TP123_SO_0060 0.60 LEACHATE	08/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1675439	PRAIRIE_AUK_TP120A_SO_0100 1.00 LEACHATE	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1675441	PRAIRIE_AUK_TP103_SO_0100 1.00 LEACHATE	20/04/20	No containers logged		Cannot evaluate
1675442	PRAIRIE_AUK_TP194A_SO_0140 1.40 LEACHATE	29/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1675443	PRAIRIE_AUK_TP196A_SO_0140 1.40 LEACHATE	29/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1675450	PRAIRIE_AUK_BH101_SO_0300 3.00 SOIL	27/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2	Aliphatics/Aromatics (14 days), BTEX (14 days), Sulphur (free) (7 days), Naphthalene (14 days), PAH MS (14 days), pH + Conductivity (7 days), Cyanide/Mono pHoh (14 days)	
1675451	PRAIRIE_AUK_BH107_SO_0300 3.00 SOIL	24/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2	Aliphatics/Aromatics (14 days), BTEX (14 days), Sulphur (free) (7 days), Naphthalene (14 days), PAH MS (14 days), pH + Conductivity (7 days), Cyanide/Mono pHoh (14 days)	

Key: G-Glass P-Plastic J-Jar T-Tub B-Bottle V-Vial

DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Information in Support of the Analytical Results

Our Ref 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758
Client Ref 4251
Contract Prairie Site Ground Investigation Works

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.
Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.
The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Appendix A - Details of Analysis

Method	Parameter	Units	Limit of Detection	Sample Preparation	Sub-Contracted	UKAS	MCERTS
DETSC 2002	Organic matter	%	0.1	Air Dried	No	Yes	Yes
DETSC 2003	Loss on ignition	%	0.01	Air Dried	No	Yes	Yes
DETSC 2008	pH	pH Units	1	Air Dried	No	Yes	Yes
DETSC 2024	Sulphide	mg/kg	10	Air Dried	No	Yes	Yes
DETSC 2076	Sulphate Aqueous Extract as SO4	mg/l	10	Air Dried	No	Yes	Yes
DETSC 2084	Total Carbon	%	0.5	Air Dried	No	Yes	Yes
DETSC 2084	Total Organic Carbon	%	0.5	Air Dried	No	Yes	Yes
DETSC 2119	Ammoniacal Nitrogen as N	mg/kg	0.5	Air Dried	No	Yes	Yes
DETSC 2130	Cyanide free	mg/kg	0.1	Air Dried	No	Yes	Yes
DETSC 2130	Cyanide total	mg/kg	0.1	Air Dried	No	Yes	Yes
DETSC 2130	Phenol - Monohydric	mg/kg	0.3	Air Dried	No	Yes	Yes
DETSC 2130	Thiocyanate	mg/kg	0.6	Air Dried	No	Yes	Yes
DETSC 2321	Total Sulphate as SO4	%	0.01	Air Dried	No	Yes	Yes
DETSC 2325	Mercury	mg/kg	0.05	Air Dried	No	Yes	Yes
DETSC 3049	Sulphur (free)	mg/kg	0.75	Air Dried	No	Yes	Yes
DETSC2123	Boron (water soluble)	mg/kg	0.2	Air Dried	No	Yes	Yes
DETSC2301	Arsenic	mg/kg	0.2	Air Dried	No	Yes	Yes
DETSC2301	Barium	mg/kg	1.5	Air Dried	No	Yes	Yes
DETSC2301	Beryllium	mg/kg	0.2	Air Dried	No	Yes	Yes
DETSC2301	Cadmium Available	mg/kg	0.1	Air Dried	No	Yes	Yes
DETSC2301	Cadmium	mg/kg	0.1	Air Dried	No	Yes	Yes
DETSC2301	Cobalt	mg/kg	0.7	Air Dried	No	Yes	Yes
DETSC2301	Chromium	mg/kg	0.15	Air Dried	No	Yes	Yes
DETSC2301	Copper	mg/kg	0.2	Air Dried	No	Yes	Yes
DETSC2301	Manganese	mg/kg	20	Air Dried	No	Yes	Yes
DETSC2301	Molybdenum	mg/kg	0.4	Air Dried	No	Yes	Yes
DETSC2301	Nickel	mg/kg	1	Air Dried	No	Yes	Yes
DETSC2301	Lead	mg/kg	0.3	Air Dried	No	Yes	Yes
DETSC2301	Selenium	mg/kg	0.5	Air Dried	No	Yes	Yes
DETSC2301	Zinc	mg/kg	1	Air Dried	No	Yes	Yes
DETSC 3072	Ali/Aro C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETSC 3072	Aliphatic C10-C12	mg/kg	1.5	As Received	No	Yes	Yes
DETSC 3072	Aliphatic C10-C12	mg/kg	10	As Received	No	Yes	Yes
DETSC 3072	Aliphatic C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETSC 3072	Aliphatic C12-C16	mg/kg	1.2	As Received	No	Yes	Yes
DETSC 3072	Aliphatic C12-C16	mg/kg	10	As Received	No	Yes	Yes
DETSC 3072	Aliphatic C16-C21	mg/kg	1.5	As Received	No	Yes	Yes
DETSC 3072	Aliphatic C16-C21	mg/kg	10	As Received	No	Yes	Yes
DETSC 3072	Aliphatic C21-C35	mg/kg	3.4	As Received	No	Yes	Yes
DETSC 3072	Aliphatic C21-C35	mg/kg	3.4	As Received	No	Yes	Yes
DETSC 3072	Aromatic C10-C12	mg/kg	0.9	As Received	No	Yes	Yes
DETSC 3072	Aromatic C10-C12	mg/kg	10	As Received	No	Yes	Yes
DETSC 3072	Aromatic C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETSC 3072	Aromatic C12-C16	mg/kg	0.5	As Received	No	Yes	Yes
DETSC 3072	Aromatic C12-C16	mg/kg	10	As Received	No	Yes	Yes
DETSC 3072	Aromatic C16-C21	mg/kg	0.6	As Received	No	Yes	Yes
DETSC 3072	Aromatic C16-C21	mg/kg	10	As Received	No	Yes	Yes
DETSC 3072	Aromatic C21-C35	mg/kg	1.4	As Received	No	Yes	Yes
DETSC 3072	Aromatic C21-C35	mg/kg	1.4	As Received	No	Yes	Yes
DETS 062	Benzene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 062	Ethylbenzene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 062	Toluene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 062	Xylene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 062	m+p Xylene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 062	o Xylene	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3311	C10-C24 Diesel Range Organics (DRO)	mg/kg	10	As Received	No	Yes	Yes
DETSC 3311	C24-C40 Lube Oil Range Organics (LORO)	mg/kg	10	As Received	No	Yes	Yes
DETSC 3311	EPH (C10-C40)	mg/kg	10	As Received	No	Yes	Yes

Appendix A - Details of Analysis

Method	Parameter	Units	Limit of Detection	Sample Preparation	Sub-Contracted	UKAS	MCERTS
DETSC 3303	Acenaphthene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Acenaphthylene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Benzo(a)pyrene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Benzo(a)anthracene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Benzo(b)fluoranthene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Benzo(k)fluoranthene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Benzo(g,h,i)perylene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Dibenzo(a,h)anthracene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Fluoranthene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Indeno(1,2,3-c,d)pyrene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Naphthalene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Phenanthrene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Pyrene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3401	PCB 28 + PCB 31	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB 52	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB 101	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB 118	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB 153	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB 138	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB 180	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB Total	mg/kg	0.01	As Received	No	Yes	Yes

Method details are shown only for those determinands listed in Annex A of the MCERTS standard. Anything not included on this list falls outside the scope of MCERTS. No Recovery Factors are used in the determination of results. Results reported assume 100% recovery. Full method statements are available on request.

APPENDIX F

GQRA – Summary of Soil Screen

Table E1: Soil GAC Protective of Human Health

Contaminant of Concern	MDL	Units	Human Health (Commercial Worker)	GAC Source	Maximum Concentration Measured	Maximum Concentration Measured (Made Ground - Slag)	Maximum Concentration Measured (Cohesive Made Ground)	Maximum Concentration Measured (Granular Made Ground)	Maximum Concentration Measured (Tidal Flat Deposits)	Maximum Concentration Measured (Glaciolacustrine Deposits)	Maximum Concentration Measured (Glacial Till)
Metals											
Aluminium	1	mg/kg			77,000	77,000	19,000	53,000	21,000	17,000	15,000
Antimony	1	mg/kg	470	USEPA	69	11	36	69	17	10	1.5
Arsenic	0.2	mg/kg	640	S4UL	2100	24	130	2100	78	14	6.4
Barium	2	mg/kg	19,000	Arcadis	1,300	1,300	630	1,100	430	330	160
Beryllium	0.2	mg/kg	12	S4UL	10	10	2.0	7.0	2.5	1.9	1.2
Boron, Water Soluble	0.2	mg/kg	240,000	S4UL	39	16	2.6	39	3.1	3.2	1.1
Cadmium	0.1	mg/kg	190	S4UL	24	0.8	5.7	24	2.7	1.0	0.2
Chromium	0.15	mg/kg	8,600	S4UL	750	750	310	740	180	76	52
Chromium, Hexavalent	1	mg/kg	33	S4UL	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Copper	0.2	mg/kg	68,000	S4UL	20,000	220	1,400	20,000	650	420	32
Iron	25	mg/kg			650,000	180,000	650,000	450,000	320,000	46,000	32,000
Lead	0.3	mg/kg	2,300	C4SL	1,800	330	550	1,800	310	210	20
Magnesium	1	mg/kg			41,000	41,000	9,500	40,000	9,500	12,000	14,000
Manganese	20	mg/kg			99,000	37,000	4,000	99,000	4,100	1,800	1,200
Mercury	0.05	mg/kg	*58**	S4UL	4.1	0.7	0.2	4.1	0.2	0.3	0.8
Molybdenum	0.4	mg/kg	5,540	Arcadis	73	4.9	61	73	29	1.0	0.8
Nickel	1	mg/kg	980	S4UL	320	35	320	200	200	40	25
Silicon	10	mg/kg			230,000	160,000	190,000	230,000	190,000	180,000	140,000
Vanadium	0.8	mg/kg	9,000	S4UL	3,300	3,300	210	1,700	230	200	150
Zinc	1	mg/kg	730,000	S4UL	4,200	550	890	4,200	510	350	69
Inorganics											
Loss on Ignition at 440oC	0.01	%	-		26	0.00	0.00	26	0.00	0.00	0.00
pH		pH	-		12	12	11	12	10	10	11
Calorific Value	1	MJ/kg	-		14	0.00	0.00	14	0.00	0.00	8
Cyanide, Total	0.1	mg/kg			3300	50	22	3300	120	13	0.2
Cyanide, Free	0.1	mg/kg	150	USEPA	4.5	0.5	0.1	4.5	0.2	0.1	0.1
Thiocyanate	0.6	mg/kg	230	USEPA	69	3.7	0.7	69	1.8	0.7	0.3
Organic matter	0.1	%	-		14	4.5	6.4	14	8.6	5.8	1.9
Sulphate Aqueous Extract as SO4	10	mg/l	-		1,800	1,100	770	1,800	540	590	310
Sulphur (free)	0.75	mg/kg	-		1,000	120	11	1,000	6.8	5.2	0.9
Petroleum Hydrocarbons											
Aliphatic C5-C6	0.01	mg/kg	*3200***	S4UL	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Aliphatic C6-C8	0.01	mg/kg	*7800***	S4UL	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Aliphatic C8-C10	0.01	mg/kg	*2000***	S4UL	1.5	0.1	0.1	1.5	0.4	0.01	0.01
Aliphatic C10-C12	1.5	mg/kg	*9700***	S4UL	11	7.1	11	10	0.8	6.5	0.8
Aliphatic C12-C16	1.2	mg/kg	*59000***	S4UL	*130*	45	41	130	7.2	16	0.6
Aliphatic C16-C21	1.5	mg/kg	1,600,000	S4UL	*1,300*	190	260	1,300	31	45	0.8
Aliphatic C21-C35	3.4	mg/kg	1,600,000	S4UL	*6,100*	43	2,300	6,100	3.6	99	1.7
Aliphatic C5-C35	10	mg/kg	na		7,000	280	2,600	7,000	39	170	<10
Aromatic C5-C7	0.01	mg/kg	*26000***	S4UL	6.0	0.2	0.01	6.0	0.5	0.01	0.01
Aromatic C7-C8	0.01	mg/kg	*56000***	S4UL	5.6	0.1	0.1	5.6	0.2	0.01	0.01
Aromatic C8-C10	0.01	mg/kg	*3500***	S4UL	15	4.4	0.1	15	0.6	0.01	0.01
Aromatic C10-C12	0.9	mg/kg	*16000***	S4UL	*6,800*	6,800	2.1	1,700	85	1.3	0.5
Aromatic C12-C16	0.5	mg/kg	*36000***	S4UL	*3,500*	3,500	21	2,500	310	1.6	0.3
Aromatic C16-C21	0.6	mg/kg	28,000	S4UL	*1,400*	620	160	1,400	160	13	0.3
Aromatic C21-C35	1.4	mg/kg	28,000	S4UL	*6,600*	170	1,000	6,600	96	55	0.7
Aromatic C5-C35	10	mg/kg	na		11,000	11,000	1,200	8,100	650	71	<10
TPH Ali/Aro Total	10	mg/kg	na		15,000	11,000	3,800	15,000	690	240	5.0
EPH (C10-C40)	10	mg/kg	na		10,000	1,100	78	10,000	1,200	<10	<10
PAHs											
Naphthalene	0.03	mg/kg	*1,900*	Wood	37000	1,100	0.2	37000	440	0.3	0.1
Acenaphthylene	0.03	mg/kg	*83000***	S4UL	*5,600*	46	0.1	5,600	31	0.1	0.02
Acenaphthene	0.03	mg/kg	*84000***	S4UL	*1,300*	780	0.6	1,300	340	0.4	0.1
Fluorene	0.03	mg/kg	*63000***	S4UL	*6,200*	330	0.6	6,200	220	0.3	0.1
Phenanthrene	0.03	mg/kg	22,000	S4UL	*22,000*	230	3.1	22,000	290	0.3	0.2
Anthracene	0.03	mg/kg	520,000	S4UL	*5,700*	49	0.5	5,700	53	0.1	0.0
Fluoranthene	0.03	mg/kg	23,000	S4UL	*11,000*	41	3.0	11,000	87	1.0	0.1
Pyrene	0.03	mg/kg	54,000	S4UL	*9,700*	37	2.3	9,700	62	0.9	0.1
Benzo(a)anthracene	0.03	mg/kg	170	S4UL	4600	20	0.7	4600	27	0.4	0.1
Chrysene	0.03	mg/kg	350	S4UL	3600	12	0.9	3600	23	0.4	0.1
Benzo(b)fluoranthene	0.03	mg/kg	44	S4UL	91	18	0.9	91	23	0.4	0.1
Benzo(k)fluoranthene	0.03	mg/kg	1,200	S4UL	*59*	5.6	0.3	59	10	0.2	0.02
Benzo(a)pyrene	0.03	mg/kg	77	Wood	120	9.4	0.6	120	20	0.3	0.03
Indeno(1,2,3-c,d)pyrene	0.03	mg/kg	500	S4UL	*53*	3.1	0.3	53	8.6	0.1	0.02
Dibenzo(a,h)anthracene	0.03	mg/kg	3.5	S4UL	15	1.1	0.1	15	2.5	0.03	0.02
Benzo(g,h,i)perylene	0.03	mg/kg	3,900	S4UL	64	3.2	0.4	64	10	0.2	0.02
PAH - USEPA 16, Total	0.1	mg/kg	na		7,700	2,600	14	110,000	1,700	4.3	1.0
PCBs											
PCB 28 + PCB 31	0.01	mg/kg	-		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 52	0.01	mg/kg	-		0.26	<0.01	<0.01	0.26	<0.01	<0.01	<0.01
PCB 101	0.01	mg/kg	-		0.44	<0.01	<0.01	0.44	<0.01	<0.01	<0.01
PCB 118	0.01	mg/kg	-		0.40	<0.01	<0.01	0.40	<0.01	<0.01	<0.01
PCB 153	0.01	mg/kg	-		0.24	<0.01	<0.01	0.24	<0.01	<0.01	<0.01
PCB 138	0.01	mg/kg	-		0.40	<0.01	<0.01	0.40	<0.01	<0.01	<0.01
PCB 180	0.01	mg/kg	-		0.05	<0.01	<0.01	0.05	<0.01	<0.01	<0.01
PCB 7 Total	0.01	mg/kg	na		1.80	<0.01	<0.01	1.80	<0.01	<0.01	<0.01
Phenols											
Phenol - Monohydric	0.3	mg/kg	760	S4UL	9	1	1	210	4	1	1

The following GACs have been used in order of availablity:

S4UL: (Commercial End Use, 1% SOM)	LQM / CIEH (2015) The LQM / CIEH S4ULs for Human Health Risk Assessment. Copyright Land Quality Management Limited reproduced with permission; Publication Number S4UL3223. All rights reserved.
C4SL: (Commerical End Use)	Department for Environment, Food and Rural Affairs (DEFRA) (2014) SP1010: Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination – Policy Companion Document, December 2014
Arcadis	Where published criteria above are not available, Arcadis has derived GAC based on EA guidance and assumptions in line with current industry standards and standard CLEA inputs for a commerical land use.
USEPA	GAC based on US Environmental Protection Agency (USEPA) Regional Screening Levels (RSL). Available at https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables

Wood derived GAC based on CLEA v1.07 were presented in the Wood 2019 report for benzo(a)pyrene and naphthalene. It is understood that these values were acceptable to the regulator for this site and as such they have been retained here.

Notes

GAC	Generic Assessment Criteria
na	Comprises multiple contaminant, no applicable GAC
*123**	S4UL exceeds the vapour saturation limit
*123***	S4UL exceeds the solubility saturation limit
-	No applicable GAC readily available
	Elements present naturally in soil with typically low toxicity
<0.1	Concentration less then the method detection limit
-	Not analysed
	Contaminant of Concern in excess of Human Health GAC

Table E2: Soil GAC Protective of Human Health

Contaminant of Concern	MDL	Units	Human Health (Commercial Worker)	GAC Source	Maximum Concentration Measured
VOCs					
Vinyl Chloride	0.01	mg/kg	0.059	S4UL	<0.01
1,1 Dichloroethylene	0.01	mg/kg	1,000	USEPA	<0.01
Trans-1,2-dichloroethylene	0.01	mg/kg	23,000	USEPA	<0.01
1,1-dichloroethane	0.01	mg/kg	16	USEPA	<0.01
Cis-1,2-dichloroethylene	0.01	mg/kg	2,300	USEPA	<0.01
2,2-dichloropropane	0.01	mg/kg	-		<0.01
Bromochloromethane	0.01	mg/kg	630	USEPA	<0.01
Chloroform	0.01	mg/kg	99	S4UL	<0.01
1,1,1-trichloroethane	0.01	mg/kg	660	S4UL	<0.01
1,1-dichloropropene	0.01	mg/kg	-		<0.01
Carbon tetrachloride	0.01	mg/kg	2.9	S4UL	<0.01
Benzene	0.01	mg/kg	27	S4UL	13
1,2-dichloroethane	0.01	mg/kg	0.67	S4UL	0.64
Trichloroethylene	0.01	mg/kg	1.2	S4UL	<0.01
1,2-dichloropropane	0.01	mg/kg	11.0	USEPA	<0.01
Dibromomethane	0.01	mg/kg	99.0	USEPA	<0.01
Bromodichloromethane	0.01	mg/kg	1.3	USEPA	<0.01
cis-1,3-dichloropropene	0.01	mg/kg	8.2	USEPA	<0.01
Toluene	0.01	mg/kg	56,000	S4UL	12
trans-1,3-dichloropropene	0.01	mg/kg	8.2	USEPA	<0.01
1,1,2-trichloroethane	0.01	mg/kg	5	USEPA	<0.01
Tetrachloroethylene	0.01	mg/kg	19	S4UL	<0.01
1,3-dichloropropane	0.01	mg/kg	23,000	USEPA	<0.01
Dibromochloromethane	0.01	mg/kg	39	USEPA	<0.01
1,2-dibromoethane	0.01	mg/kg	0.16	USEPA	<0.01
Chlorobenzene	0.01	mg/kg	56	S4UL	<0.01
1,1,1,2-tetrachloroethane	0.01	mg/kg	110	S4UL	0.01
Ethylbenzene	0.01	mg/kg	5,700	S4UL	2.3
m+p-Xylene	0.01	mg/kg	5,900	S4UL	17
o-Xylene	0.01	mg/kg	6,600	S4UL	8.1
Styrene	0.01	mg/kg	35,000	USEPA	5.6
Bromoform	0.01	mg/kg	86	USEPA	<0.01
Isopropylbenzene	0.01	mg/kg	-		0.2
Bromobenzene	0.01	mg/kg	1,800	USEPA	<0.01
1,2,3-trichloropropane	0.01	mg/kg	0.11	USEPA	<0.01
n-propylbenzene	0.01	mg/kg	-		<0.01
2-chlorotoluene	0.01	mg/kg	23,000	USEPA	<0.01
1,3,5-trimethylbenzene	0.01	mg/kg	1,500	USEPA	7.0
4-chlorotoluene	0.01	mg/kg	23,000	USEPA	<0.01
Tert-butylbenzene	0.01	mg/kg	120,000	USEPA	2.9
1,2,4-trimethylbenzene	0.01	mg/kg	1,800	USEPA	10
sec-butylbenzene	0.01	mg/kg	120,000	USEPA	<0.01
p-isopropyltoluene	0.01	mg/kg	-		0.27
1,3-dichlorobenzene	0.01	mg/kg	30	S4UL	<0.01
1,4-dichlorobenzene	0.01	mg/kg	4,400	S4UL	<0.01
n-butylbenzene	0.01	mg/kg	58,000	USEPA	<0.01
1,2-dichlorobenzene	0.01	mg/kg	2,000	S4UL	<0.01
1,2-dibromo-3-chloropropane	0.01	mg/kg	0.06	USEPA	<0.01
1,2,4-trichlorobenzene	0.01	mg/kg	220	S4UL	<0.01
Hexachlorobutadiene	0.01	mg/kg	31	S4UL	<0.01
1,2,3-trichlorobenzene	0.01	mg/kg	102	S4UL	0.53
MTBE	0.01	mg/kg	210	USEPA	<0.01

The following GACs have been used in order of availablity:

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Arcadis	Where published criteria above are not available, Arcadis has derived GAC based on EA guidance and assumptions in line with current industry standards and standard CLEA inputs for a commerical land use.
USEPA	GAC based on US Environmental Protection Agency (USEPA) Regional Screening Levels (RSL). Available at https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables

Notes

GAC	Generic Assessment Criteria
na	Comprises multiple contaminant, no applicable GAC
*123**	S4UL exceeds the vapour saturation limit
*123***	S4UL exceeds the solubility saturation limit
-	No applicable GAC readily available
	Elements present naturally in soil with typically low toxicity
<0.1	Concentration less then the method detection limit
-	Not analysed
	Contaminant of Concern in excess of Human Health GAC

Table F3: Soil GAC Protective of Human Health

Contaminant of Concern	MDL	Units	Human Health (Commercial Worker)	GAC Source	Maximum Concentration Measured
3&4-Methylphenol	0.1	mg/kg	82,000	USEPA	150
2,4-Dimethylphenol	0.1	mg/kg	16,000	USEPA	4.7
Bis-(dichloroethoxy)methane	0.1	mg/kg	-		<0.01
2,4-Dichlorophenol	0.1	mg/kg	2,500	USEPA	<0.01
1,2,4-Trichlorobenzene	0.1	mg/kg	110	USEPA	<0.01
4-Chloro-3-methylphenol	0.1	mg/kg	82,000	USEPA	<0.01
2-Methylnaphthalene	0.1	mg/kg	3,000	USEPA	3000
Hexachlorocyclopentadiene	0.1	mg/kg	8	USEPA	<0.01
2,4,6-Trichlorophenol	0.1	mg/kg	210	USEPA	<0.01
2,4,5-Trichlorophenol	0.1	mg/kg	82,000	USEPA	<0.01
2-Chloronaphthalene	0.1	mg/kg	60,000	USEPA	<0.01
2-Nitroaniline	0.1	mg/kg	8,000	USEPA	<0.01
2,4-Dinitrotoluene	0.1	mg/kg	7.4	USEPA	<0.01
3-Nitroaniline	0.1	mg/kg	-		<0.01
4-Nitrophenol	0.1	mg/kg	-		<0.01
Dibenzofuran	0.1	mg/kg	1,000	USEPA	3300
2,6-Dinitrotoluene	0.1	mg/kg	1.50	USEPA	<0.01
2,3,4,6-Tetrachlorophenol	0.1	mg/kg	25,000	USEPA	<0.01
Diethylphthalate	0.1	mg/kg	660,000	USEPA	<0.01
4-Chlorophenylphenylether	0.1	mg/kg	-		<0.01
4-Nitroaniline	0.1	mg/kg	110	USEPA	<0.01
2-Methyl-4,6-Dinitrophenol	0.1	mg/kg	-		<0.01
Diphenylamine	0.1	mg/kg	82,000	USEPA	<0.01
4-Bromophenylphenylether	0.1	mg/kg	-		<0.01
Hexachlorobenzene	0.1	mg/kg	110	S4UL	<0.01
Pentachlorophenol	0.1	mg/kg	400	S4UL	<0.01
Di-n-butylphthalate	0.1	mg/kg	-		<0.01
Butylbenzylphthalate	0.1	mg/kg	1,200	USEPA	<0.01
Bis(2-ethylhexyl)phthalate	0.1	mg/kg	160	USEPA	1.0
Di-n-octylphthalate	0.1	mg/kg	8,200	USEPA	<0.01
1,4-Dinitrobenzene	0.1	mg/kg	82	USEPA	72
Dimethylphthalate	0.1	mg/kg	-		<0.01
1,3-Dinitrobenzene	0.1	mg/kg	82	USEPA	<0.01
1,2-Dinitrobenzene	0.1	mg/kg	82	USEPA	<0.01
2,3,5,6-Tetrachlorophenol	0.1	mg/kg	-		<0.01
Azobenzene	0.1	mg/kg	26	USEPA	<0.01
Carbazole	0.1	mg/kg	-		2200

The following GACs have been used in order of availablity:

S4UL: (Commercial End Use, 1% SOM)	LQM / CIEH (2015) The LQM / CIEH S4ULs for Human Health Risk Assessment. Copyright Land Quality Management Limited reproduced with permission; Publication Number S4UL3223.
C4SL: (Commerical End Use)	Department for Environment, Food and Rural Affairs (DEFRA) (2014) SP1010: Development of
Arcadis	Where published criteria above are not available, Arcadis has derived GAC based on EA
USEPA	GAC based on US Environmental Protection Agency (USEPA) Regional Screening Levels

Notes

GAC	Generic Assessment Criteria
na	Comprises multiple contaminant, no applicable GAC
*123**	S4UL exceeds the vapour saturation limit
*123***	S4UL exceeds the solubility saturation limit
-	No applicable GAC readily available
	Elements present naturally in soil with typically low toxicity
<0.1	Concentration less then the method detection limit
-	Not analysed
	Contaminant of Concern in excess of Human Health GAC

APPENDIX G

GQRA – Summary of Soil Leachate Screen

Table F1: Leachate GAC Protective of Human Health and Water Resources

Contaminant of Concern	MDL	Units	Human Health Inhalation GAC (On-site Commerical Worker)	EQS (Estuaries and Coastal Waters)	DWS	Maximum Concentration Measured
Metals						
Antimony, Dissolved	0.17	ug/l	NVP	-	5	18
Arsenic, Dissolved	0.16	ug/l	NVP	25	10	41
Barium, Dissolved	0.26	ug/l	NVP	-	700	70
Beryllium, Dissolved	0.1	ug/l	NVP	-	-	<0.1
Boron, Dissolved	12	ug/l	NVP	7000	1000	180
Cadmium, Dissolved	0.03	ug/l	NVP	0.2	5	0.11
Chromium, Dissolved	0.25	ug/l	NVP	-	50	43
Chromium, Hexavalent	7	ug/l	-	0.6		8.1
Copper, Dissolved	0.4	ug/l	NVP	3.76	2000	30
Iron, Dissolved	5.5	ug/l	NVP	1000	200	1700
Lead, Dissolved	0.09	ug/l	NVP	1.3	10	16
Magnesium, Dissolved	0.02	mg/l	NVP	-	-	24
Manganese, Dissolved	0.22	ug/l	NVP	-	50	890
Mercury, Dissolved	0.01	ug/l	NVP	0.07	1	1.2
Molybdenum, Dissolved	1.1	ug/l	-	-	70	77
Nickel, Dissolved	0.5	ug/l	NVP	8.6	20	18
Vanadium, Dissolved	0.6	ug/l	NVP	100	-	26
Zinc, Dissolved	1.3	ug/l	NVP	7.9	3000	33
Inorganics						
pH	-	pH	-	6 - 8.5	-	10.7
Cyanide, Total	40	ug/l	-	1	50	2200
Ammoniacal Nitrogen as N	0.015	mg/l	-	-	0.5	3.2
Chloride	0.1	mg/l	-	-	-	15
Sulphate as SO4	0.1	mg/l	-	-	-	400
Petroleum Hydrocarbons						
Aliphatic C5-C6	0.1	ug/l	>SOL	#	#	<0.1
Aliphatic C6-C8	0.1	ug/l	>SOL	#	#	19
Aliphatic C8-C10	0.1	ug/l	>SOL	#	#	820
Aliphatic C10-C12	1	ug/l	>SOL	#	#	7.1
Aliphatic C12-C16	1	ug/l	>SOL	#	#	340
Aliphatic C16-C21	1	ug/l	NR	#	#	130
Aliphatic C21-C35	1	ug/l	NR			1000
Aromatic C5-C7	0.1	ug/l	57000	8	1	6.6
Aromatic C7-C8	0.1	ug/l	>SOL	74	700	15
Aromatic C8-C10	0.1	ug/l	>SOL	#	#	<0.1
Aromatic C10-C12	1	ug/l	>SOL	#	#	3400
Aromatic C12-C16	1	ug/l	>SOL	#	#	13000
Aromatic C16-C21	1	ug/l	NR	#	#	610
Aromatic C21-C35	1	ug/l	NR	#	#	670
TPH Ali/Aro Total	10	ug/l	na	50*	10**	17000
PAHs						
Naphthalene	0.05	ug/l	>SOL	2	2	11000
Acenaphthylene	0.01	ug/l	>SOL	-	-	390
Acenaphthene	0.01	ug/l	>SOL	-	-	1100
Fluorene	0.01	ug/l	>SOL	-	-	380
Phenanthrene	0.01	ug/l	>SOL	-	-	360
Anthracene	0.01	ug/l	>SOL	0.1	-	57
Fluoranthene	0.01	ug/l	>SOL	0.0063	-	66
Pyrene	0.01	ug/l	>SOL	-	-	41
Benzo(a)anthracene	0.01	ug/l	>SOL	-	-	24
Chrysene	0.01	ug/l	>SOL	-	-	20
Benzo(b)fluoranthene	0.01	ug/l	>SOL	0.017	0.025	35
Benzo(k)fluoranthene	0.01	ug/l	>SOL	0.017	0.025	11
Benzo(a)pyrene	0.01	ug/l	>SOL	0.027	0.01	21
Indeno(1,2,3-c,d)pyrene	0.01	ug/l	>SOL	-	0.025	22
Dibenzo(a,h)anthracene	0.01	ug/l	>SOL	-	-	10
Benzo(g,h,i)perylene	0.01	ug/l	>SOL	0.00082	0.025	20
PAH Total	0.2	ug/l	>SOL	na		13000
Phenols						
Phenol - Monohydric	100	ug/l	>SOL	7.7	7.7	2600

The following GACs have been used:

Arcadis — Where published criteria above are not available, Arcadis has derived GAC based on EA guidance and assumptions in line with current industry standards and standard CLEA inputs for a commerical land use.

Notes

GAC	Generic Assessment Criteria
DWS	Drinking Water Standard
EQS	Environmental Quality Standard (Estuaries and Coastal Waters)
NVP	Contaminant has low vapour phase in groundwater
>SOL	Target acceptable risk not exceeded at the theoretical solubility concentration
NR	No appropriate inhalation reference dose identified during review of toxicological data
na	Comprises multiple contaminant, no applicable GAC
-	No water quality standard identified as suitable for deriving generic assessment criteria
#	No GAC for individua TPH fractions given that the compliacne criteria is for sum TPH
<0.1	Concentration less then the method detection limit
	Contaminant of Concern in excess of Human Health GAC
1.23	Contaminant of Concern in excess of DWS
1.23	Contaminant of Concern in excess of EQS
1.23	Contaminant of Concern in excess of DWS and EQS
*	EC Surface Water Directive, 1975
**	Water Supply (Water Quality) Regulation, 1989

APPENDIX H

GQRA – Summary of Groundwater Screen

Table G1: Groundwater GAC Protective of Human Health and Water Resources

Contaminant of Concern	MDL	Units	Human Health Inhalation GAC (On-site Commerical Worker)	EQS (Estuaries and Coastal Waters)	DWS	Maximum Concentration Measured (5 and 6 May 2020)	Maximum Concentration Measured - Made Ground (5 and 6 May 2020)	Maximum Concentration Measured - Glacial Lacustrine (5 and 6 May 2020)	Maximum Concentration Measured - Glacial Till (5 and 6 May 2020)	Maximum Concentration Measured - Mercia Mudstone (5 and 6 May 2020)	Maximum Concentration Measured - Redcar Mudstone Formation (5 and 6 May 2020)
Metals											
Aluminium, Dissolved	10	ug/l	-	-	200	710	80	710	470	170	260
Antimony, Dissolved	0.17	ug/l	NVP	-	5	2.4	1.3	2.4	1.3	0.69	1.2
Arsenic, Dissolved	0.16	ug/l	NVP	25	10	6.7	6.7	5.3	3.7	1.7	5.1
Barium, Dissolved	0.26	ug/l	NVP	-	700	1000	1000	68	110	87	180
Beryllium, Dissolved	0.1	ug/l	NVP	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Boron, Dissolved	12	ug/l	NVP	7000	1000	520	370	440	390	520	86
Cadmium, Dissolved	0.03	ug/l	NVP	0.2	5	0.14	0.14	0.07	0.08	<0.03	<0.03
Calcium, Dissolved	0.09	mg/l	-	-	-	980	980	940	340	930	38
Chromium, Total	0.25	ug/l	NVP	-	50	110	110	26	57	30	110
Chromium, Hexavalent	7	ug/l	-	0.6		<7	<7	<7	<7	<7	<7
Copper, Dissolved	0.4	ug/l	NVP	3.76	2000	11	11	4.6	2.2	3.1	0
Iron, Dissolved	5.5	ug/l	NVP	1000	200	780	17	780	600	73	160
Lead, Dissolved	0.09	ug/l	NVP	1.3	10	20	20	1.1	1	0.44	0.15
Magnesium, Dissolved	0.02	mg/l	NVP	-	-	93	0.14	93	88	90	17
Manganese, Dissolved	0.22	ug/l	NVP	-	50	810	6.5	720	810	590	85
Mercury, Dissolved	0.01	ug/l	NVP	0.07	1	0.33	0.06	0.11	0.13	0.09	0.33
Molybdenum, Dissolved	1.1	ug/l	-	-	70	51	11	51	33	17	23
Nickel, Dissolved	0.5	ug/l	NVP	8.6	20	7.1	7.1	4.1	4.5	3.7	1.2
Sodium, Dissolved	0.07	mg/l	-	-	200	320	31	320	310	220	99
Vanadium, Dissolved	0.6	ug/l	NVP	100	-	17	2.1	17	11	0.9	1.2
Zinc, Dissolved	1.3	ug/l	NVP	7.9	3000	86	86	6.7	5.5	16	<1.3
Inorganics											
pH	-	pH	-	6 - 8.5	-	12.5	12.5	9.2	8.5	8.2	7.9
Cyanide, Total	40	ug/l	-	1	50	410	410	100	64	<40	<40
Cyanide, Free	20	ug/l	-	-	-	86	<20	86	27	<20	<20
Thiocyanate	40	ug/l	-	-	-	150	150	120	130	94	130
DOC	2	mg/l	-	-	-	24	15	7.9	24	2.2	12
Ammoniacal Nitrogen as N	0.015	mg/l	-	-	0.5	1	1	0.8	0.98	0.32	0.45
Chloride	0.1	mg/l	-	-	-	240	29	240	230	85	83
Nitrate as N	0.1	mg/l	-	-	50	1.1	0.29	1.1	0.32	0.32	0.26
Nitrite as N	0.035	mg/l	-	-	0.5	0.049	<0.035	0.049	<0.035	<0.035	<0.035
Salinity (Calculated)	0.01	%	-	-	-	3.3	3.3	1.4	1.4	1.5	0.4
Silicate as SiO2	0.1	mg/l	-	-	-	16	2	12	16	9.4	8.1
Sulphate as SO4	0.1	mg/l	-	-	-	1500	510	1300	840	1500	54
Sulphur (free)	84	ug/l	-	-	-	460	<84	<84	<84	<84	460
Petroleum Hydrocarbons											
Aliphatic C5-C6	0.1	ug/l	>SOL	#	#	20	<0.1	<0.1	<0.1	<0.1	20
Aliphatic C6-C8	0.1	ug/l	>SOL	#	#	160	<0.1	<0.1	<0.1	<0.1	160
Aliphatic C8-C10	0.1	ug/l	>SOL	#	#	210	<0.1	<0.1	<0.1	<0.1	210
Aliphatic C10-C12	1	ug/l	>SOL	#	#	13	<1	<1	<1	<1	13
Aliphatic C12-C16	1	ug/l	>SOL	#	#	330	<1	<1	<1	<1	330
Aliphatic C16-C21	1	ug/l	NR	#	#	1200	<1	<1	<1	<1	1200
Aliphatic C21-C35	1	ug/l	NR			230	<1	<1	<1	<1	230
Aliphatic C5-C35	10	ug/l	na	-	-	2200	<10	<10	<10	<10	2200
Aromatic C5-C7	0.1	ug/l	57000	8	1	130	<0.1	<0.1	<0.1	<0.1	130
Aromatic C7-C8	0.1	ug/l	>SOL	74	700	41	<0.1	<0.1	<0.1	<0.1	41
Aromatic C8-C10	0.1	ug/l	>SOL	#	#	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aromatic C10-C12	1	ug/l	>SOL	#	#	1200	<1	6.4	<1	<1	1200
Aromatic C12-C16	1	ug/l	>SOL	#	#	4600	<1	24	<1	14	4600
Aromatic C16-C21	1	ug/l	NR	#	#	1100	<1	8.5	<1	16	1100
Aromatic C21-C35	1	ug/l	NR	#	#	140	<1	1.1	<1	1.3	140
Aromatic C5-C35	10	ug/l	na	-	-	7200	<10	40	<10	31	7200
TPH Ali/Aro Total	10	ug/l	na	50*	10**	9400	<10	40	<10	31	9400
PAHs											
Naphthalene	0.05	ug/l	>SOL	2	2	4900	690	1.4	0.57	4.3	4900
Acenaphthylene	0.01	ug/l	>SOL	-	-	69	69	0.23	0.07	1.1	19
Acenaphthene	0.01	ug/l	>SOL	-	-	1600	690	3.5	1.3	22	1600
Fluorene	0.01	ug/l	>SOL	-	-	540	310	2	0.85	23	540
Phenanthrene	0.01	ug/l	>SOL	-	-	630	210	2.7	1	44	630
Anthracene	0.01	ug/l	>SOL	0.1	-	55	35	0.4	0.14	6.2	55
Fluoranthene	0.01	ug/l	>SOL	0.0063	-	35	28	0.46	0.17	4.5	35
Pyrene	0.01	ug/l	>SOL	-	-	21	18	0.3	0.12	2.6	21
Benzo(a)anthracene	0.01	ug/l	>SOL	-	-	6.4	3.4	0.11	0.03	0.35	6.4
Chrysene	0.01	ug/l	>SOL	-	-	5.9	3.7	0.11	0.04	0.61	5.9
Benzo(b)fluoranthene	0.01	ug/l	>SOL	0.017	0.025	5.8	4.5	0.24	0.04	0.4	5.8
Benzo(k)fluoranthene	0.01	ug/l	>SOL	0.017	0.025	2.6	1.5	0.06	0.02	0.1	2.6
Benzo(a)pyrene	0.01	ug/l	>SOL	0.027	0.01	2.8	2.4	0.12	0.02	0.22	2.8
Indeno(1,2,3-c,d)pyrene	0.01	ug/l	>SOL	-	0.025	2.6	1.2	0.21	0.04	0.32	2.6
Dibenzo(a,h)anthracene	0.01	ug/l	>SOL	-	-	0.11	0.11	0.04	0	0.05	0
Benzo(g,h,i)perylene	0.01	ug/l	>SOL	0.00082	0.025	2.6	1.6	0.2	0.05	0.3	2.6
PAH Total	0.2	ug/l	>SOL	-	-	7800	2100	11	4.3	110	7800
Phenols											
Phenol - Monohydric	100	ug/l	>SOL	7.7	7.7	3400	3400	<100	<100	<100	<100

The following GACs have been used:

Arcadis — Where published criteria above are not available, Arcadis has derived GAC based on EA guidance and assumptions in line with current industry standards and standard CLEA inputs for a commerical land use.

Notes

GAC	Generic Assessment Criteria
DWS	Drinking Water Standard
EQS	Environmental Quality Standard (Estuaries and Coastal Waters)
NVP	Contaminant has low vapour phase in groundwater
>SOL	Target acceptable risk not exceeded at the theoretical solubility concentration
NR	No appropriate inhalation reference dose identified during review of toxicological
na	Comprises multiple contaminant, no applicable GAC
-	No water quality standard identified as suitable for deriving generic assessment
#	No GAC for individua TPH fractions given that the compliacne criteria is for sum
<0.1	Concentration less then the method detection limit
	Contaminant of Concern in excess of Human Health GAC
1.23	Contaminant of Concern in excess of DWS
1.23	Contaminant of Concern in excess of EQS
1.23	Contaminant of Concern in excess of DWS and EQS
*	EC Surface Water Directive, 1975
**	Water Supply (Water Quality) Regulation, 1989
1	Based on values of 0.4µg/l for sum trichlorobenzene
2	Based on values of 10µg/l combined for TCE and PCE and 50µg/l combined for cis-DCE and trans-DCE
3	Total value for trihalomethanes (chloroform, bromoform, dibromochloromethane and bromodichloromethane).

Table G2: Groundwater GAC Protective of Human Health and Water Resources

Contaminant of Concern	MDL	Units	Human Health Inhalation GAC (On-site Commerical Worker)	EQS (Estuaries and Coastal Waters)	DWS	Maximum Concentration Measured (5 and 6 May 2020)	Maximum Concentration Measured - Made Ground (5 and 6 May 2020)	Maximum Concentration Measured - Glacial Lacustrine (5 and 6 May 2020)	Maximum Concentration Measured - Glacial Till (5 and 6 May 2020)	Maximum Concentration Measured - Mercia Mudstone (5 and 6 May 2020)	Maximum Concentration Measured - Redcar Mudstone Formation (5 and 6 May 2020)
VOCs											
Dichlorodifluoromethane	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
Chloromethane	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
Vinyl Chloride	1	ug/l	5000	-	0.5	<1	<1	<1	<1	<1	<1
Bromomethane	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
Chloroethane	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	1	ug/l	740000	-	140	<1	<1	<1	<1	<1	<1
Methylene Chloride	27	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	1	ug/l	430000	-	25 [2]	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	1	ug/l	1600000	-	2.7	<1	<1	<1	<1	<1	<1
Cis-1,2-dichloroethylene	1	ug/l	120000	-	25 [2]	<1	<1	<1	<1	<1	<1
2,2-dichloropropane	2	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
Bromochloromethane	4	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
Chloroform	1	ug/l	820000	2.5	100 [3]	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	1	ug/l	>SOL	100	2000	<1	<1	<1	<1	<1	<1
1,1-dichloropropene	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
Benzene	1	ug/l	57000	8	1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	1	ug/l	3600	10	3	7	<1	<1	<1	<1	7
Trichloroethylene	1	ug/l	13000	10	5 [2]	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
Dibromomethane	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
Bromodichloromethane	4	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
Toluene	1	ug/l	>SOL	74	700	48	<1	<1	<1	<1	48
trans-1,3-dichloropropene	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	1	ug/l	-	300	-	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	1	ug/l	140000	10	5 [2]	<1	<1	<1	<1	<1	<1
1,3-dichloropropane	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
Dibromochloromethane	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
Chlorobenzene	1	ug/l	130000	-	100	<1	<1	<1	<1	<1	<1
1,1,1,2-tetrachloroethane	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
Ethylbenzene	1	ug/l	>SOL	-	300	11	<1	<1	<1	<1	11
m+p-Xylene	2	ug/l	>SOL	30	500	77	<1	<1	<1	<1	77
o-Xylene	1	ug/l	>SOL			30	<1	<1	<1	<1	30
Styrene	1	ug/l	-	-	-	4	<1	<1	<1	<1	4
Bromoform	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
Isopropylbenzene	1	ug/l	-	-	-	1	<1	<1	<1	<1	1
1,1,2,2-tetrachloroethane	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
Bromobenzene	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
n-propylbenzene	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
2-chlorotoluene	1	ug/l	-	-	-	2	<1	<1	<1	<1	2
1,3,5-trimethylbenzene	1	ug/l	-	-	-	14	<1	<1	<1	<1	14
4-chlorotoluene	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
Tert-butylbenzene	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
1,2,4-trimethylbenzene	1	ug/l	-	-	-	34	<1	<1	<1	<1	34
sec-butylbenzene	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
p-isopropyltoluene	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
1,3-dichlorobenzene	2	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
n-butylbenzene	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	1	ug/l	-	-	-	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	1	ug/l	-	-	-	64	<1	64	<1	<1	<1
1,2,4-trichlorobenzene	1	ug/l	-	0.4 [1]	-	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	1	ug/l	-	0.6	-	<1	<1	<1	<1	<1	<1
1,2,3-trichlorobenzene	1	ug/l	-	0.4 [1]	-	<1	<1	<1	<1	<1	<1
MTBE	1	ug/l	24000000	-	15	<1	<1	<1	<1	<1	<1

The following GACs have been used:

Arcadis — Where published criteria above are not available, Arcadis has derived GAC based on EA guidance and assumptions in line with current industry standards and standard CLEA inputs for a commerical land

Notes

GAC	Generic Assessment Criteria
DWS	Drinking Water Standard
EQS	Environmental Quality Standard (Estuaries and Coastal Waters)
NVP	Contaminant has low vapour phase in groundwater
>SOL	Target acceptable risk not exceeded at the theoretical solubility concentration
NR	No appropriate inhalation reference dose identified during review of toxicological
na	Comprises multiple contaminant, no applicable GAC
-	No water quality standard identified as suitable for deriving generic assessment
#	No GAC for individua TPH fractions given that the compliacne criteria is for sum
<0.1	Concentration less then the method detection limit
	Contaminant of Concern in excess of Human Health GAC
1.23	Contaminant of Concern in excess of DWS
1.23	Contaminant of Concern in excess of EQS
1.23	Contaminant of Concern in excess of DWS and EQS
*	EC Surface Water Directive, 1975
**	Water Supply (Water Quality) Regulation, 1989
[1]	Based on values of 0.4µg/l for sum trichlorobenzene
[2]	Based on values of 10µg/l combined for TCE and PCE and 50µg/l combined for cis-DCE and trans-DCE
[3]	Total value for trihalomethanes (chloroform, bromoform, dibromochloromethane and bromodichloromethane).

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