

GRANGETOWN PRAIRIE AREA, FORMER STEELWORKS, REDCAR

Phase II Environmental Site Assessment - Addendum

South Tees Development Corporation

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Grangetown Prairie Area, Former Steelworks Redcar, Environmental Site Assessment - Addendum

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1 Introduction

This report forms an addendum to Arcadis report reference 10035117-AUK-XX-XX-RP-ZZ-0062-01-Prairie_ESA Grangetown Prairie Area, Former Steelworks, Redcar Phase 2 Environmental Site Assessment [Arcadis 2020a]. It contains additional site data not available at the time of issue of the above report due to restrictions pertaining to Covid-19 and should be read in conjunction with Arcadis 2020a. In addition to Arcadis 2020a, a Remediation Options Appraisal and Strategy report [Arcadis 2020b] has been completed for the site (10035117-AUK-XX-XX-RP-ZZ-0066-01-Prairie ROA and Strategy). This report was written based on the findings of Arcadis 2020a.

The Grangetown Prairie (Prairie) Area (the site) is a land parcel situated at the Former Redcar Steelworks. The site location is shown on Figure 1 in Appendix A.

The project background, contract details, and aims and objectives are discussed in Arcadis 2020a.

1.1 Report Aims

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 improvement in principle.

The aim of this addendum to the Arcadis 2020a Environmental Site Assessment (ESA) report is to interpret additional data collected for the site in the context of the existing ESA.

1.2 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 Additional Site Characterisation

In addition to the reports, publicly available records, and AEG ground investigation data reported in Section 2 of Arcadis 2020a, the following additional data has been collected:

- 12no. trial pits excavated by a 20 tonne 360 excavator on behalf of Atkins to facilitate highways design;
- 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;
- Two groundwater sampling events at all newly installed monitoring wells;
- Three ground gas monitoring events at all newly installed monitoring wells;
- Surface water sampling of Holme Beck;
- Aquifer permeability testing and,
- Tidal monitoring.

The data is reported in the following factual documents presented as Appendix C:

- 4251 Prairie Site Ground Investigation Works (Draft Report) [AEG 2020a]
- AEG Contract 4287 Trial Pit Logs and Location Plan (Draft) and laboratory data [AEG 2020b]
- TRS Report BG0E-F/AEG/PSR/TRS/07/20/PR2, dated 31st July 2020 [TRS2020]

2.1 Geology

A summary of the geology identified at the site is given in Arcadis 2020a. The findings of the additional trial pits were in line with previous findings and are briefly summarised below. The geology encountered is provided in on the **draft** trial pit log within Appendix C.

Unit	Minimum Basal Depth (m bgl)	Maximum Basal Depth (m bgl)	Comment
Made Ground	0.60	2.8	Identified in all trial pits, base of Made Ground not proven in two locations due to obstructions. Groundwater was identified within Made Ground in one trial pit.
Tidal Flat Deposits (Secondary A Aquifer)	1.0	3.5	Encountered in 9 trial pits. In line with previous observations generally comprised soft to firm sandy silty clays or sandy clayey silts with varying amounts of plant remains.
Glaciolacustrine Deposits (Unproductive Aquifer)	3.5	-	Recorded in 4 of the trial pits. In line with previous observations the Glaciolacustrine Deposits were noted to be below Tidal Flat Deposits Where identified the deposits were generally described as a soft to firm brown laminated clay often with sand or silt partings along laminations.
Glacial Till (Unproductive Aquifer)	1.0	-	Glacial Till was identified in 4 trial pits. In line with previous observations the 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.

The Mercia Mudstone which underlies the site was not encountered by the additional investigation.

2.2 Hydrogeology

A full summary of the hydrogeology at the site is given in Arcadis 2020a. Two additional rounds of groundwater gauging have been undertaken since the 6th May 2020 gauging event, which was reported in Arcadis 2020a. The first additional round of monitoring was undertaken on 15th June 2020 and the second on 30th June 2020. The range in groundwater elevations measured over the three rounds of monitoring are briefly summarised below.

2.2.2 Superficial Deposits

Borehole	Aquifer	6 May 2020 Groundwater Elevation (m AOD)	15 June 2020 Groundwater Elevation (m AOD)	30 June 2020 Groundwater Elevation (m AOD)	Range in Depth to Groundwater (m bgl)
Prairie_AUK_BH101S	GL	6.64	6.87	6.95	1.69 - 2.00
Prairie_AUK_BH101 D	GT	5.64	6.86	7.00	1.78 - 3.00
Prairie_AUK_BH102	Made Ground	7.11	7.38	7.31	0.83 - 1.1
Prairie_AUK_BH103	GL	5.43	5.97	5.76	1.71 - 2.25
Prairie_AUK_BH106	GT	4.77	5.98	5.43	2.73 - 3.94
Prairie_AUK_BH107	GT	7.00	6.95	7.04	3.16 – 3.21
Prairie_AUK_BH108S	GL	6.66	7.72	8.51	0.35 - 2.2

Over the three monitoring visits, groundwater flow direction within the superficial deposits has varied based on interpolation of the groundwater elevations to form groundwater elevation contours, and been towards the east (6th May 2020), the northeast (15th June 2020) and north-north-east (30th June 2020).

2.2.3 Bedrock

Borehole	Aquifer	6 May 2020 Groundwater Elevation (m AOD)	15 June 2020 Groundwater Elevation (m AOD)	30 June 2020 Groundwater Elevation (m AOD)	Range in Depth to Groundwater (m bgl)
Prairie_AUK_BH104	Mercia Mudstone	2.30	4.64	2.49	4.6 - 6.4
Prairie_AUK_BH105*	GT / Mercia Mudstone	3.66	3.77	3.75	4.49 - 4.6
Prairie_AUK_BH108D	Mercia Mudstone	3.86	3.95	4.05	4.81 – 5.00
Prairie_AUK_BH109	Redcar Mudstone Formation and Penarth Group	6.65	6.12	5.37	5.44 – 6.72
Prairie_AUK_BH110	Mercia Mudstone	3.8	3.96	3.93	3.84 - 4.00

*BH105 is screening a band of slightly clayey very sandy gravel at the base of the Glacial Till and directly above the Mercia Mudstone. Based on the consecutive groundwater elevations measured, the groundwater in BH105 is considered to be in continuity with the bedrock aquifer.

Over the three monitoring visits, the inferred groundwater flow direction within the bedrock has been towards the northeast (6th May 2020 and 30th June 2020) and towards the north (15th June 2020).

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. The River Tees is located to the north of the site and runs eastwards towards the North Sea. As such, the groundwater flow direction inferred for groundwater in both the superficial deposits and the bedrock is considered to be in line with regional hydrogeology. An assessment of potential tidal influence is included in Section 2.4.

2.3 Slug Testing

Permeability testing of the aquifer was undertaken by AEG via instantaneous removal of a slug of water and monitoring groundwater recharge in four monitoring well locations in June and July 2020:

- BH101D – screening Glacial Till Deposits
- BH103 – screening Glaciolacustrine Deposits
- BH108D – screening Mercia Mudstone
- BH110 - screening Mercia Mudstone

Arcadis has used the raw data collected by AEG to estimate the hydraulic conductivity of the aquifer screened using the Bouwer and Rice 1976 method based on Thiem's equation.

The results of the testing undertaken in BH103 were disregarded as recharge into the well was rapid during the test and not considered to be representative of the cohesive geology screened, Arcadis consider this is likely an effect of the well-pack. Of the remaining three locations tested, six tests (three slug extractions and three slug insertions) were completed in BH108D and BH110 and four tests (two slug extractions and two slug insertions) were completed in BH101D.

The recovery data was used to estimate the hydraulic conductivity by using the Bouwer and Rice method for a partially penetrating well in an unconfined aquifer for BH101D, BH108D and BH110. The hydraulic conductivity estimated from the tests conducted in BH101D screening the Glacial Till indicated a range in conductivity from 0.0007 to 0.025 m/day. These values are broadly in line with literature values for a clay such as the US EPA 1988 who suggest 0.014m/day, Morris and Johnson 1967, who suggest 0.0002m/day and ConSim 2000, where a range in hydraulic conductivity of 8.6×10^{-7} to 0.00041 m/day is presented for a clay. As such the permeabilities are considered to be representative of the screened geology.

The hydraulic conductivity estimated from the tests conducted in BH108D and BH110 which screen the Mercia Mudstone were higher, between 0.3 and 0.61 m/day. In comparison to literature values for a mudstone, these permeabilities are more rapid than expected. For example, ConSim 2000 suggests between 8.64×10^{-9} to 0.00017 m/day for a shale, with similar values reported by Tindal 1998. The literature values presented are at least 3 orders of magnitude below the calculated permeabilities. The higher than expected permeabilities may be the result of drilling induced fracturing of the mudstone in close proximity of the well, where mudstone is described in some sections of the well screen as extremely weak and moderately weak. In addition they may also result from localised secondary porosity (fracture driven flow) which is known to be common in the Mercia Mudstone.

The permeability test data is presented in AEG 2020a. The methodology and calculations are presented in Appendix D.

2.4 Tidal Influence

Groundwater monitoring for potential tidal influence was undertaken by AEG in BH101D (located in the northwest of the site and screening the Glacial Till), BH103 (located in the north-east of the site and screening the Glaciolacustrine Deposits) and BH108D (located in the south-west of the site and screening the Mercia Mudstone) over a period of 36 days between 11th May and 16th June 2020.

Regular cyclical changes in the groundwater level were recorded in the monitoring wells. However, the peaks and troughs of the cycles were not in line with the approximately 6-hourly fluctuations expected in tidally influenced groundwater. The peaks and troughs were generally 8 hours apart and the change in water level was generally less than 4cm. While the cycles were regular in BH101D and BH103, the cycles observed in BH108D were interrupted by larger variations in groundwater elevation (in the order of 15cm and over a period of several days).

Whilst it is possible that the regular cycles measured during the tidal monitoring reflect changes in the tides, there is insufficient evidence to conclusively state that the groundwater is tidally influenced.

The results from the Tidal Monitoring are presented in AEG 2020a and are presented with amended Y axis in Appendix D.

2.5 Aquifer Salinity

The salinity of the aquifers underlying the site has been calculated using concentrations of chloride (Cl⁻) measured in the groundwater samples collected assuming all chloride resulted from NaCl. The concentration of sodium chloride, the most abundant salt in marine waters, was calculated using these concentrations and used to determine whether the groundwater underlying the site was likely to be saline, brackish or fresh.

Equation

At 1 litre mass = concentration

$$n_{(Cl^-)} = m_{(Cl^-)} / M_{(Cl^-)}$$

Assume all free chloride results from NaCl therefore: $n_{(NaCl)} = n_{(Cl^-)}$

$$\text{Therefore } m_{(NaCl)} = M_{(NaCl)} * n_{(NaCl)}$$

Where n = no. of moles

m = mass

M = Molecular weight

Molecular weight of sodium (Na) = 22.99

Molecular weight of chloride (Cl) = 35.5

The results of the calculation are presented in the table below:

Borehole	Aquifer	Concentration NaCl (mg/l) 5 -6 May 2020	Concentration NaCl (mg/l) 17-19 June 2020	Concentration NaCl (mg/l) 1-2 July 2020
Prairie_AUK_BH101S	GL	396	346.0	329.6
Prairie_AUK_BH101D	GT	379	428.5	346.1
Prairie_AUK_BH102	Made Ground	48	83.9	74.2
Prairie_AUK_BH103	GL	59	152.6	97.2
Prairie_AUK_BH104	Mercia Mudstone	140	62.6	110.4
Prairie_AUK_BH105	GT / Mercia Mudstone	84	164.8	159.9
Prairie_AUK_BH106	GT	49	89.0	97.2
Prairie_AUK_BH107	GT	214	214.2	146.7

Borehole	Aquifer	Concentration NaCl (mg/l) 5 -6 May 2020	Concentration NaCl (mg/l) 17-19 June 2020	Concentration NaCl (mg/l) 1-2 July 2020
Prairie_AUK_BH108S	GL	68	141.7	148.3
Prairie_AUK_BH108D	Mercia Mudstone	58	329.6	362.5
Prairie_AUK_BH109	Redcar Mudstone Formation and Penarth Group	140	2797.8	890.2
Prairie_AUK_BH110	Mercia Mudstone	134	1068.3	1235.9
Freshwater: <500 mg/l				
Brackish Water: 500 to 30,000 mg/l				
Saline Water: 30,000 – 50,000 mg/l				

2.6 Hydrology

There are three water courses that run through the site or cross onto the site as part of their route towards the River Tees. They are the Holme Beck, Knitting Wife Beck and the Cross Connector. Both the Knitting Wife Beck and Cross Connector are understood to be culverted for the duration of their route on the site. As such these culverts were not accessible at the time of writing.

The Holme Beck runs along the western boundary of the site, to the east of Eston Road. It enters the Prairie site in the southwestern corner and flows north above ground in an open slab lined channel for approximately 125m before entering a 1.2m diameter concrete culvert for the remainder of the course until it leaves site at the Holme Beck underpass and turns east to join the Cleveland Channel. Surface water from the Holme Beck was sampled at upstream and downstream locations in June 2020 and sent for laboratory analysis.

The location of the sampling points and results of the laboratory analysis of the samples are presented in full in AEG 2020a and are discussed in Section 3.3 of this report.

3 Environmental Site Condition Assessment

This section presents the results of the additional assessment only. This report should be read with Section 3 of Arcadis 2020a for full context.

Additional soil sampling has been undertaken by AEG on behalf of Atkins in the western area of the site. The results of the soil sampling in full are presented in AEG 2020 and briefly discussed in Section 3.1.

Two additional groundwater monitoring visits and one round of surface water monitoring have been undertaken by AEG since the Arcadis 2020a report was issued. The laboratory certificates are presented as part of the AEG factual report in Appendix C. The results of the groundwater monitoring are briefly discussed in section 3.2.

A total of 3 ground gas monitoring visits have been undertaken at the site. The results are presented in full in AEG 2020a and are discussed in Section 3.4.

3.1 Soil

3.1.2 Non-Aqueous Phase Liquid

No non-aqueous phase liquid (NAPL) was identified on soil in the twelve additional trial pits progressed.

3.1.3 Made Ground

Asbestos

Asbestos was identified in one soil sample (ATK_TP_001_0060) of the 12No. additional samples analysed from the trial pits progressed by AEG. The asbestos was noted to be small bundles of amosite.

Metals and Inorganics

Metals and inorganic compounds were measured at levels within the tested samples which were in line with those identified in Arcadis 2020 with the exception of arsenic in ATK_TP_011_0090 which was noted to be elevated compared to the wider dataset.

Polycyclic Aromatic Hydrocarbons and Total Petroleum Hydrocarbons

Concentrations of PAH were measured in 4 of the 5 samples analysed and concentrations of TPH were measured in 3 of the 5 soil samples and analysed. The measured concentrations were in line with Arcadis 2020a and did not indicate hotspots of contamination.

3.2 Groundwater

3.2.2 Non-Aqueous Phase Liquid

No non-aqueous phase liquid (NAPL) was identified on perched water encountered in the additional trial pits progressed.

3.2.3 Groundwater

Six wells are screened across the Superficial Deposits, and one additional well (BH105) is screened across the base of the Superficial Deposits but in continuity with groundwater in the bedrock. A further four wells screen the bedrock and one well is screened across the Made Ground. The results of all three groundwater monitoring visits undertaken on 5th to 6th May, 17th to 19th June and 1st and 2nd July 2020 are discussed in the following sections.

Metals and Inorganics

Metals were measured in all groundwater samples; barium, boron, calcium, manganese, sodium, and iron were measured at the highest concentrations. Metals concentrations generally remained within the same order of magnitude in individual wells across the three monitoring visits with the exception of aluminium which was generally lower in the latter two groundwater samples collected. 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 with the majority of the samples showing a pH<8.5. Groundwater from monitoring well Prairie_AUK_BH102 screened across Made Ground measured strongly basic across all three monitoring visits (between pH12 and 13).

Free cyanide was generally measured coincidentally with total cyanide with the exception of Prairie_AUK_BH103, Prairie_AUK_BH104 and Prairie_AUK_BH107 where total cyanide only was measured in groundwater samples from at least one visit and free cyanide was less than MDL. Total cyanide was measured above MDL in the following monitoring wells:

- Prairie_AUK_BH101S (all visits)
- Prairie_AUK_BH101D (all visits)
- Prairie_AUK_BH103 (all visits)
- Prairie_AUK_BH104 (2nd visit)
- Prairie_AUK_BH107 (2nd and 3rd visit)
- Prairie_AUK_BH110 (2nd and 3rd visit)

Free cyanide was measured above MDL in the following groundwater samples:

- Prairie_AUK_BH101S (all visits)
- Prairie_AUK_BH101D (all visits)
- Prairie_AUK_BH103 (1st and 2nd visit)
- Prairie_AUK_BH110 (2nd and 3rd visit)

Concentrations of total cyanide in Prairie_AUK_BH101S/D and Prairie_AUK_BH110 were generally higher than elsewhere. The highest concentration of free cyanide was measured in Prairie_AUK_BH110.

Organics

Concentrations of TPH were measured in groundwater sampled from Prairie_AUK_BH109 on all three monitoring visits with concentrations decreasing over the period. Concentrations of TPH were also measured in the following wells on at least one occasion but at levels an order of magnitude below those measured in Prairie_AUK_BH109:

- Prairie_AUK_BH101S (1st and 3rd visit)
- Prairie_AUK_BH102 (2nd visit)
- Prairie_AUK_BH104 (1st visit)
- Prairie_AUK_BH107 (3rd visit)
- Prairie_AUK_BH108S (3rd visit)
- Prairie_AUK_BH108D (3rd visit)
- Prairie_AUK_BH109 (all visits)
- Prairie_AUK_BH110 (2nd visit)

Low levels of PAH were measured in the majority of samples with higher concentrations recorded in Prairie_AUK_BH109, levels in this well were noted to decrease across the monitoring period.

3.3 Surface Water

Concentrations of TPH, phenol, cyanide, hexavalent chromium, mercury and SVOC were measured below the laboratory MDL in both surface water samples collected from the site: SW1 (upstream) and SW2 (downstream). With the exception of toluene which was measured at 1µg/l (the same as the MDL), no VOC were measured in the surface water samples collected.

Where concentrations of CoC were measured above MDL, concentrations did not vary significantly between the upstream and the downstream sample.

3.4 Ground Gas Assessment

Ground gas monitoring was conducted on three occasions across a range of weather and atmospheric conditions. In all monitoring wells with the exception of PRAIRIE_AUK_BH108S groundwater was resting above the top of the well slotted section indicating the data recorded is not representative of the shallow sub

surface ground gas condition, this is expected as the monitoring well was designed to assess groundwater conditions within the superficial and bedrock deposits rather than made ground.

In PRAIRIE_AUK_BH108S which is screened across the Glaciolacustrine Deposits methane levels were recorded at 0.1% and 0.5% during the second and first monitoring visits respectively; during the third visit levels were below the detection limit of the instrument. Other locations generally recorded similar methane levels, with lower measurements recorded during the third monitoring visit which was conducted at lower atmospheric pressure.

Hydrogen sulphide and carbon monoxide were recorded on one and two occasions respectively in PRAIRIE_AUK_BH108S, and with similar frequency in the other monitoring wells, maximum recorded levels were 1ppm for hydrogen sulphide and 6ppm for carbon monoxide.

Flow rates in PRAIRIE_AUK_BH108S were observed to range between 0.0l/hr (visit 3) and -4.4l/hr (visit 1). Across the remaining wells flow rates ranged between 0.4 l/hr and -7.1l/hr with the largest negative flows generally recorded during the first monitoring visit conducted under high pressure atmospheric conditions.

Given the proposed remedial strategy for the site (10035117-AUK-XX-XX-RP-ZZ-0066-01-Prairie ROA and Strategy) comprising the excavation processing and replacement of a significant proportion of the made ground, further monitoring is recommended once this is complete based on the specific requirements of a particular redevelopment.

3.5 Slag Petrology

A total of 6 samples of slag recovered from trial pits were submitted for examination the results are presented in Appendix C and summarised below.

Sample	Depth	AEG Estimated % Slag
Prairie_AUK_TP109	1.0	75 - 100%
Prairie_AUK_TP116	1.0	50 – 75%
Prairie_AUK_TP117	1.0	75 - 100%
Prairie_AUK_TP121	1.8	75 - 100%
Prairie_AUK_TP131	1.5	75 - 100%
Prairie_AUK_TP132	1.0	50 – 75%

- The samples contained mixed slag deposits with blast furnace slag predominating in 3 samples and basic steel slags dominating in the remainder.
- Small amounts of basic refractory materials were noted in 4 slag samples, these materials are particularly susceptible to expansion.
- Samples containing medium or higher proportions of basic steel slag were tested for free calcium and magnesium oxides. Free calcium oxide compositions ranged from 1.5% to 5.2% and free magnesium oxides ranged between 0.3% and 3.3%.
- All samples were subject to 14 day expansion tests and showed expansions between 0.22% and 2.76% with slags high in basic steel slag showing the greater expansion.
- Samples containing medium or higher proportions of basic steel slag were subject to 28 day accelerated expansion tests. The results showed expansion ranging between 0.50 and 3.11%.

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- Half the samples tested contained traces of Ettringite indicating expansion has occurred in the past, however this does not mean the expansion is necessarily complete.

4 Generic Quantitative Risk Assessment

The below assessment is a generic risk assessment in line with approach taken in Arcadis 2020a, within which screening criteria are presented.

4.1 Human Health Soil Risk Assessment

Contaminant concentrations in the additional soil samples have been compared with the soil assessment criteria using the following criteria (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)

Of the additional soil samples collected concentrations of arsenic were identified above the applicable GAC. The remaining contaminants for which GAC are available were not identified in excess of the applicable GAC. Details of the arsenic contraction in excess are presented in the table below:

Contaminant	Unit	No. Samples Exceeding	GAC Exceeded		Sample (Geology)	Concentration (mg/kg)
Arsenic	mg/kg	1/5	S4UL	640	ATK_TP_011_0090	970

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

Contaminants measured in soil at concentrations above MDL, for which no screening criteria were available were: total cyanide, sulphate, and sulphur. It is also noted that whilst there is a GAC available for assessing the direct contact pathway for free cyanide, there is not a GAC available that considers the vapour inhalation pathway. As such there is not considered to be an appropriate GAC for free cyanide.

Potential human health risks from these compounds were qualitatively assessed in Arcadis 2020a. Both sulphate and sulphur can be present naturally in soil. 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.

Total cyanide can be assessed using other GAC available for higher toxicity contaminants, such as the one for free cyanide for a conservative estimate of risk. Total cyanide measured in soil sampled from ATK_TP_009_0050 is in excess of the GAC for free cyanide and as such total cyanide requires further consideration. Free cyanide has been identified above the MDL in two of the additional soil samples collected and as such warrants further consideration.

Consideration of concentrations of arsenic, total cyanide and free cyanide will be given in Section 4.4.

4.1.2 Asbestos in Soil

A total of 5No. additional soils samples were screened by polarised light microscopy in accordance with HSG248 for the presence of asbestos (HSE, 2005). In 1No. samples asbestos was detected as bundles of fibres (amosite).

The presence of asbestos fibres is in line with previous findings for the site and is considered further in Arcadis 2020a. 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 Human Health Groundwater Risk Assessment

4.2.2 Groundwater Risk Assessment

Concentrations of volatile contaminants in 36 groundwater and 2 surface water samples were screened against the inhalation GAC described above (where GAC have been derived).

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

Groundwater samples were not analysed for VOC in the latter two groundwater monitoring visits as such there is no data in addition to that included in Arcadis 2020a to consider here.

Groundwater samples were analysed for inorganics. Free cyanide has been detected at concentrations above MDL in the groundwater sampled over the three monitoring visits. Free cyanide can volatilise under certain conditions and form compounds including hydrogen cyanide, as such further consideration of concentrations of free cyanide is warranted.

4.3 Risks to Controlled Waters

4.3.2 Selection of GAC

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 Arcadis 2020a.

4.3.3 Groundwater

Twelve groundwater samples were obtained from the monitoring wells on each of the three sampling visits and two surface water samples were collected from Holme Beck. The samples were analysed for a range of contaminants. The boreholes screen subsurface geology as shown in the table below.

Borehole	Aquifer
Prairie_AUK_BH101S	Glaciolacustrine Deposits (GL)
Prairie_AUK_BH101D	Glacial Till (GT)
Prairie_AUK_BH102	Made Ground
Prairie_AUK_BH103	GL
Prairie_AUK_BH105*	GT / Mercia Mudstone
Prairie_AUK_BH106	GT
Prairie_AUK_BH107	GT
Prairie_AUK_BH108S	GL
Prairie_AUK_BH104	Mercia Mudstone
Prairie_AUK_BH108D	Mercia Mudstone

Borehole	Aquifer
Prairie_AUK_BH109	Redcar Mudstone Formation and Penarth Group
Prairie_AUK_BH110	Mercia Mudstone

*BH105 is screening a band of slightly clayey very sandy gravel at the base of the Glacial Till and directly above the Mercia Mudstone. Based on the consecutive groundwater elevations measured, the groundwater in BH105 is considered to be in continuity with the bedrock aquifer.

Contaminant concentrations were compared to the WQS and concentrations in excess of the WQS are summarised below.

Contaminant	Unit	No. Samples Exceeding	WQS Exceeded		Monitoring Point
Aluminium	µg/l	4/36	DWS	200	PRAIRIE_AUK_BH101S (1 st visit) PRAIRIE_AUK_BH105 (2 nd visit) PRAIRIE_AUK_BH106 (1 st visit) PRAIRIE_AUK_BH109 (1 st visit)
Barium**	µg/l	2/24	DWS	700	PRAIRIE_AUK_BH102 (1 st and 2 nd visit)
Cadmium	µg/l	9/36	EQS	0.2	PRAIRIE_AUK_BH110 (2 nd visit)
Chromium (total)	µg/l	3/36	DWS	50	PRAIRIE_AUK_BH106 (1 st visit) PRAIRIE_AUK_BH109 (1 st visit)
Copper	µg/l	3/36	EQS	3.76	PRAIRIE_AUK_BH103 (1 st visit) PRAIRIE_AUK_BH104 (2 nd visit) PRAIRIE_AUK_BH110 (2 nd visit)
Manganese**	µg/l	22/24	DWS	50	PRAIRIE_AUK_BH101S (1 st and 2 nd visits) PRAIRIE_AUK_BH101D (1 st and 2 nd visits) PRAIRIE_AUK_BH103 (1 st and 2 nd visits) PRAIRIE_AUK_BH104 (1 st and 2 nd visits) PRAIRIE_AUK_BH105 (1 st and 2 nd visits) PRAIRIE_AUK_BH106 (1 st and 2 nd visits) PRAIRIE_AUK_BH107 (1 st visit) PRAIRIE_AUK_BH108S (1 st and 2 nd visits) PRAIRIE_AUK_BH108D (1 st and 2 nd visits) PRAIRIE_AUK_BH109 (1 st visit) PRAIRIE_AUK_BH110 (1 st and 2 nd visits)
Mercury	µg/l	7/36	EQS	0.07	PRAIRIE_AUK_BH102 (3 rd visit) PRAIRIE_AUK_BH103 (1 st and 3 rd visit) PRAIRIE_AUK_BH104 (1 st visit)

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Contaminant	Unit	No. Samples Exceeding	WQS Exceeded		Monitoring Point
					PRAIRIE_AUK_BH106 (1 st and 3 rd visit) PRAIRIE_AUK_BH109 (1 st visit)
Zinc	µg/l	13/36	EQS	7.9	PRAIRIE_AUK_BH101S (3 rd visit) PRAIRIE_AUK_BH101D (3 rd visit) PRAIRIE_AUK_BH102 (1 st visit) PRAIRIE_AUK_BH104(1 st and 3 rd visit) PRAIRIE_AUK_BH105 (3 rd visit) PRAIRIE_AUK_BH107 (3 rd visit) PRAIRIE_AUK_BH108S (3 rd visit) PRAIRIE_AUK_BH109 (3 rd visit) PRAIRIE_AUK_BH110(1 st and 3 rd visit)
Total Cyanide	µg/l	15/36	EQS	1	PRAIRIE_AUK_BH101S (all visits) PRAIRIE_AUK_BH101D (all visits) PRAIRIE_AUK_BH103 (all visits) PRAIRIE_AUK_BH104 (2 nd visit) PRAIRIE_AUK_BH107 (2 nd and 3 rd visit) PRAIRIE_AUK_BH110 (2 nd and 3 rd visit)
		11/36	DWS	50	PRAIRIE_AUK_BH101S (2 nd and 3 rd visits) PRAIRIE_AUK_BH101D (2 nd and 3 rd visits) PRAIRIE_AUK_BH103 (all visits) PRAIRIE_AUK_BH107 (2 nd and 3 rd visit) PRAIRIE_AUK_BH110 (2 nd and 3 rd visit)
Ammoniacal Nitrogen*	µg/l	13/36	DWS	0.5	PRAIRIE_AUK_BH101S (all visits) PRAIRIE_AUK_BH101D (all visits) PRAIRIE_AUK_BH102 (all visits) PRAIRIE_AUK_BH106 (all visits) PRAIRIE_AUK_BH109 (2 nd visit)
Aromatic C5-C7	µg/l	1/36	EQS	8	PRAIRIE_AUK_BH109 (1 st visit)
			DWS	1	
Xylenes**	µg/l	1/12	EQS	30	PRAIRIE_AUK_BH109 (1 st visit)
TPH	µg/l	9/36	DWS	10	PRAIRIE_AUK_BH101S (1 st and 3 rd visit) PRAIRIE_AUK_BH104 (1 st visit) PRAIRIE_AUK_BH107 (3 rd visit) PRAIRIE_AUK_BH108S (3 rd visit)

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Contaminant	Unit	No. Samples Exceeding	WQS Exceeded		Monitoring Point
					PRAIRIE_AUK_BH108D (3 rd visit) PRAIRIE_AUK_BH109 (all visits)
		5/36	EQS	50	PRAIRIE_AUK_BH107 (3 rd visit) PRAIRIE_AUK_BH108S (3 rd visit) PRAIRIE_AUK_BH109 (all visits)
Naphthalene	µg/l	6/36	EQS DWS	2 2	PRAIRIE_AUK_BH101S (3 rd visit) PRAIRIE_AUK_BH102 (all visits) PRAIRIE_AUK_BH104 (1 st visit) PRAIRIE_AUK_BH109 (1 st and 2 nd visit)
Anthracene	µg/l	9/36	EQS	0.1	PRAIRIE_AUK_BH101S (1 st visit) PRAIRIE_AUK_BH101D (1 st visit) PRAIRIE_AUK_BH102 (all visits) PRAIRIE_AUK_BH104 (1 st visit) PRAIRIE_AUK_BH109 (all visits)
Fluoranthene	µg/l	33/36	EQS	0.0063	PRAIRIE_AUK_BH101S (all visits) PRAIRIE_AUK_BH101D (all visits) PRAIRIE_AUK_BH102 (all visits) PRAIRIE_AUK_BH103 (all visits) PRAIRIE_AUK_BH104 (1 st and 2 nd visit) PRAIRIE_AUK_BH105 (all visits) PRAIRIE_AUK_BH106 (all visits) PRAIRIE_AUK_BH107 (all visits) PRAIRIE_AUK_BH108S (all visits) PRAIRIE_AUK_BH108D (1 st and 3 rd visit) PRAIRIE_AUK_BH109 (all visits) PRAIRIE_AUK_BH110 (1 st and 3 rd visits)
Benzo(b)fluoranthene	µg/l	12/36	DWS	0.025	PRAIRIE_AUK_BH101S (1 st visit) PRAIRIE_AUK_BH101D (1 st and 3 rd visit) PRAIRIE_AUK_BH102 (1 st visit) PRAIRIE_AUK_BH103 (1 st and 3 rd visit) PRAIRIE_AUK_BH104 (1 st visit) PRAIRIE_AUK_BH106 (1 st visit) PRAIRIE_AUK_BH108S (2 nd visit) PRAIRIE_AUK_BH109 (all visits)

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Contaminant	Unit	No. Samples Exceeding	WQS Exceeded		Monitoring Point
		14/36	EQS	0.017	PRAIRIE_AUK_BH101S (1 st visit) PRAIRIE_AUK_BH101D (1 st and 3 rd visit) PRAIRIE_AUK_BH102 (1 st visit) PRAIRIE_AUK_BH103 (all visits) PRAIRIE_AUK_BH104 (1 st visit) PRAIRIE_AUK_BH106 (1 st visit) PRAIRIE_AUK_BH108S (2 nd visit) PRAIRIE_AUK_BH108D (1 st visit) PRAIRIE_AUK_BH109 (all visits)
Benzo(k)fluoranthene	µg/l	5/36	DWS	0.025	PRAIRIE_AUK_BH103 (1 st visit) PRAIRIE_AUK_BH104 (1 st visit) PRAIRIE_AUK_BH109 (1 st and 2 nd visit)
		9/36	EQS	0.017	PRAIRIE_AUK_BH101S (1 st and 3 rd visits) PRAIRIE_AUK_BH103 (1 st and 3 rd visits) PRAIRIE_AUK_BH104 (1 st visit) PRAIRIE_AUK_BH106 (1 st visit) PRAIRIE_AUK_BH108S (2 nd visit) PRAIRIE_AUK_BH109 (1 st and 2 nd visit)
Benzo(a)pyrene	µg/l	12/36	DWS	0.01	PRAIRIE_AUK_BH101S (1 st visit) PRAIRIE_AUK_BH101D (1 st and 3 rd visits) PRAIRIE_AUK_BH102 (1 st visit) PRAIRIE_AUK_BH103 (1 st and 2 nd visits) PRAIRIE_AUK_BH104 (1 st visit) PRAIRIE_AUK_BH106 (1 st visit) PRAIRIE_AUK_BH108S (2 nd visit) PRAIRIE_AUK_BH109 (all visits)
		9/36	EQS	0.027	PRAIRIE_AUK_BH101S (1 st visit) PRAIRIE_AUK_BH103 (1 st and 2 nd visits) PRAIRIE_AUK_BH104 (1 st visit) PRAIRIE_AUK_BH106 (1 st visit) PRAIRIE_AUK_BH108S (2 nd visit) PRAIRIE_AUK_BH109 (all visits)
Indeno(1,2,3-c,d)pyrene	µg/l	8/36	DWS	0.025	PRAIRIE_AUK_BH101S (1 st visit) PRAIRIE_AUK_BH101D (1 st visit)

Contaminant	Unit	No. Samples Exceeding	WQS Exceeded		Monitoring Point
					PRAIRIE_AUK_BH103 (1 st and 3 rd visits) PRAIRIE_AUK_BH104 (1 st visit) PRAIRIE_AUK_BH106 (1 st visit) PRAIRIE_AUK_BH109 (1 st and 2 nd visit)
Benzo(g,h,i)perylene	µg/l	9/36	DWS	0.025	PRAIRIE_AUK_BH101S (1 st visit) PRAIRIE_AUK_BH101D (1 st visit) PRAIRIE_AUK_BH103 (1 st and 3 rd visits) PRAIRIE_AUK_BH104 (1 st visit) PRAIRIE_AUK_BH106 (1 st visit) PRAIRIE_AUK_BH108D (1 st visit) PRAIRIE_AUK_BH109 (1 st and 2 nd visit)
		15/36	EQS	0.00082	PRAIRIE_AUK_BH101S (1 st visit) PRAIRIE_AUK_BH101D (1 st and 3 rd visits) PRAIRIE_AUK_BH102 (1 st visit) PRAIRIE_AUK_BH103 (all visits) PRAIRIE_AUK_BH104 (1 st visit) PRAIRIE_AUK_BH106 (1 st and 3 rd visits) PRAIRIE_AUK_BH108S (2 nd visit) PRAIRIE_AUK_BH108D (1 st visit) PRAIRIE_AUK_BH109 (all visits)
1,2-dichloroethane**	µg/l	1/14	DWS	3	PRAIRIE_AUK_BH109 (1 st visit)

* DWS for Ammoniacal Nitrogen is for Ammonium as NH₄.

** Not tested for on all monitoring visits

4.3.4 Qualitative Risk Assessment for Substances in Groundwater without WQS

For several contaminants including some metals including beryllium, WQS are not readily available for comparison. Concentrations of beryllium were not measured above the laboratory MDL in any of the groundwater samples, where tested. As such, this compound is not considered to pose a significant risk to identified water resource receptors.

Analysis of groundwater for VOCs was undertaken on the first monitoring visit (May 2020) only so discussion of VOCs is presented in Arcadis 2020a and no additional data has been collected since this report was issued.

Five of the compounds: calcium, 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.

4.3.5 Surface Water

A comparison of those compounds measured above MDL in one or both of the surface water samples is presented below:

Compound	Concentration upstream - SW1 (µg/l)	Concentration downstream – SW2 (µg/l)	Difference (µg/l)	Comparison to EQS where available (EQS saltwater µg/l)
Aluminium	15	35	+20	-
Antimony	0.33	0.42	+0.09	-
Arsenic	4.4	4.6	+0.2	Not in excess (25)
Barium	42	41	-1	-
Boron	260	270	+10	Not in excess (7000)
Total chromium	5.2	2.4	-2.8	-
Copper	2	2	0	Not in excess (3.76)
Iron	10	25	+15	Not in excess (1000)
Lead	0.13	<0.09	-0.04	Not in excess (1.3)
Magnesium	63000	65000	+2000	-
Manganese	70	52	-18	-
Molybdenum	1.9	2	+0.1	-
Nickel	1.9	3.6	+1.7	Not in excess (8.6)
Vanadium	1.5	2.5	+1	Not in excess (100)
Zinc	4.1	3.6	-0.5	Not in excess (7.9)
pH	7.8 pH units	8 pH units	+ 0.2 pH units	Not in excess (6 – 8.5)
Ammoniacal Nitrogen	0.11	<0.015	-0.095	-
Sulphate	680000	760000	+80000	-
Acenaphthylene	<0.01	0.02	+0.02	-
Acenaphthene	0.02	0.03	+0.01	-
Fluorine	0.01	<0.01	-0.01	-
Phenanthrene	0.04	<0.01	-0.03	-
Fluoranthene	0.05	0.02	-0.03	In excess (0.0063)
Pyrene	0.04	0.02	-0.02	-
Benzo(a)anthracene	0.01	<0.01	-0.01	-
Chrysene	0.01	<0.01	-0.01	-
Benzo(b)fluoranthene	0.01	<0.01	-0.01	Not in excess (0.017)
Benzo(g,h,i)perylene	0.01	<0.01	-0.01	In excess (0.00082)
Toluene	1	1	0	Not in excess (74)

When compared to EQS (estuaries and coastal), concentrations measured in both the upstream and downstream samples were below the EQS with the exception of fluoranthene and benzo(g,h,i)pyrene. Fluoranthene was measured in SW1 at concentrations of 0.05 µg/l and concentrations were 0.02 µg/l in SW2 when the surface water left the Prairie site. In both samples taken, the concentrations are marginally above the laboratory MDL (in the same order of magnitude). Concentrations of benzo(g,h,i)perylene were measured at the same concentration as the MDL (0.01 µg/l) in the upstream sample and below the MDL in the downstream sample. Whilst these concentrations are above the EQS, it is noted that concentrations have not increased as the Holme Beck travels through the site.

The surface water monitoring indicates that the quality of the surface water has not altered significantly as it passes through the site.

4.4 Discussion

Comparison of concentrations of CoC measured in the additional soil samples collected as part of the addendum ground investigation with GAC protective of human health indicate further consideration of concentrations of arsenic, total cyanide and free cyanide is warranted. Arsenic and total cyanide pose a potential risk to human health via the direct contact route and the risk via this pathway has been considered in the Remediation Options Appraisal (Arcadis 2020b) which suggests a clean cover system to break the pathway. Concentrations of free cyanide remain a potential risk via the vapour inhalation pathway and require further assessment. The Arcadis Detailed Conceptual Site Model and Risk Assessment report, currently *in press*, will further assess the risk to human health from concentrations of free cyanide measured in soil from chronic health effects.

The risk to human health from concentrations of CoC in groundwater from chronic exposure has been assessed as part of this report. Concentrations of CoC have not been identified in excess of the GAC where available, in any of the groundwater samples collected from the site. An appropriate GAC for free cyanide in groundwater has not been identified and as such the risk to human health from concentrations of free cyanide in groundwater cannot be ruled out. The Arcadis Detailed Conceptual Site Model and Risk Assessment report, currently *in press*, will further assess the risk to human health from concentrations of free cyanide measured in groundwater from chronic health effects.

Concentrations of multiple CoC in groundwater have been measured in excess of the WQS. In light of the additional data collected and presented in this report, refinement of the existing CSM for the site is considered warranted. A detailed CSM review using the additional information collected here will be undertaken as part of the Arcadis Detailed Conceptual Site Model and Risk Assessment report, currently *in press*.

5 Summary

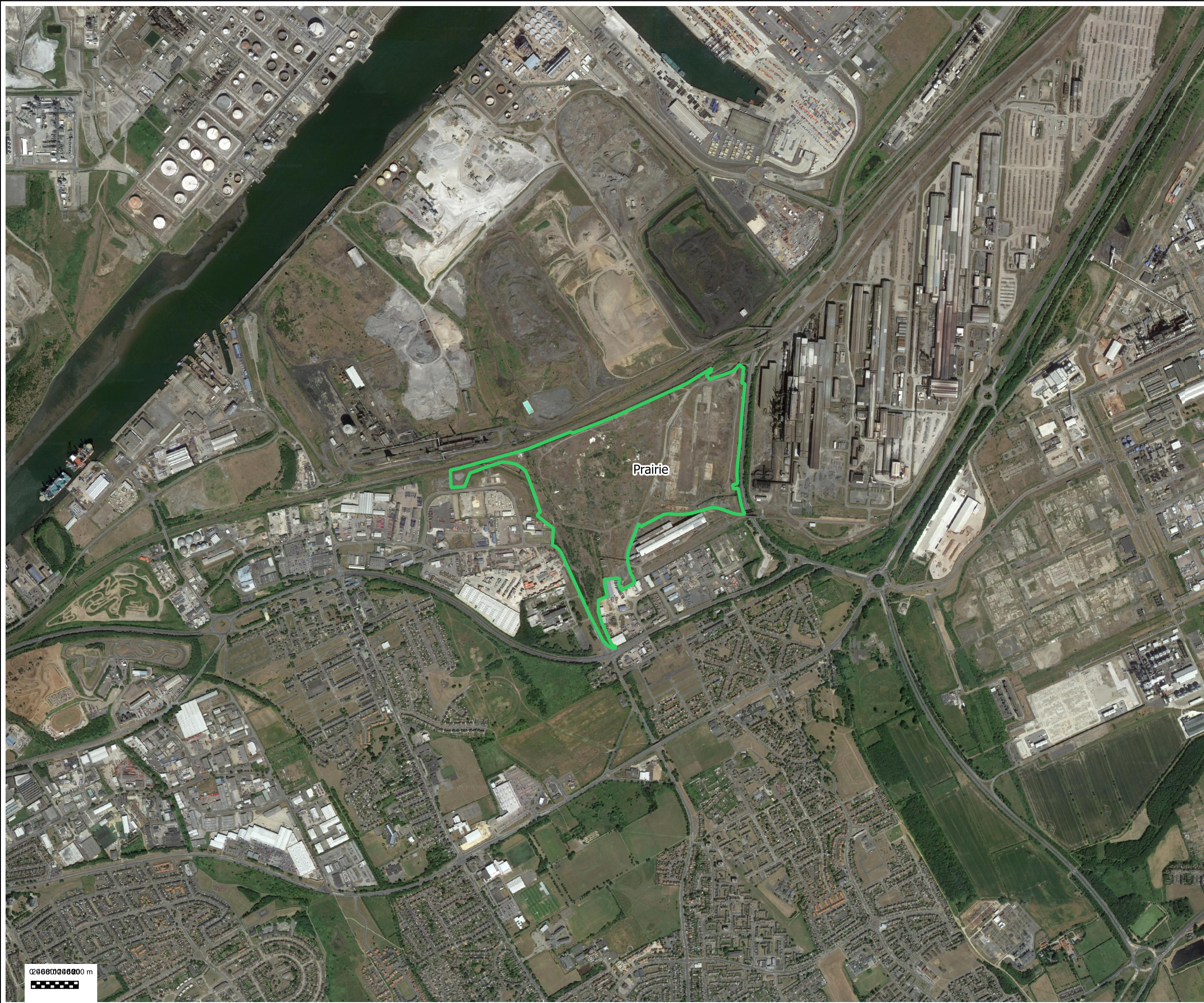
This addendum report presents additional data collected for the site after the issue of Arcadis 2020a. A GQRA has been undertaken for the additional data collected and the findings are in line with those of Arcadis 2020a. Concentrations of arsenic have been measured above the appropriate GAC protective of human health and concentrations of total cyanide have been identified as requiring further consideration. Arsenic and total cyanide poses a potential risk via the direct contact pathway and as such is addressed as part of the Arcadis Remedial Options Appraisal for the site (Arcadis 2020b). In line with Arcadis 2020a, the risk to human health from chronic health effects from concentrations of volatile compounds such as free cyanide will require further assessment, this is being undertaken as part of a detailed conceptual model review and risk assessment, currently *in press*.

In line with previous findings, a number of concentrations of CoC measured in groundwater have been identified above the WQS. A detailed conceptual site model review and risk assessment is being undertaken to further characterise pollutant linkages at the site using site-specific information. Further assessment will be undertaken as required, as part of that report.

The finding of this addendum report does not alter the conclusions of Arcadis' Remedial Options Appraisal and Strategy report (Arcadis 2020b). Other recommendations are in line with those given in Arcadis 2020a.

APPENDIX A

Figures



Legend

Site Boundary
Prairie

Notes:

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Title: **Prairie - Site Location Plan**

Site: **Redcar Steelworks (Prairie)**

Client:
South Tees Development Corporation

Project:
10035117

Figure 1

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

0000000000 m

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,

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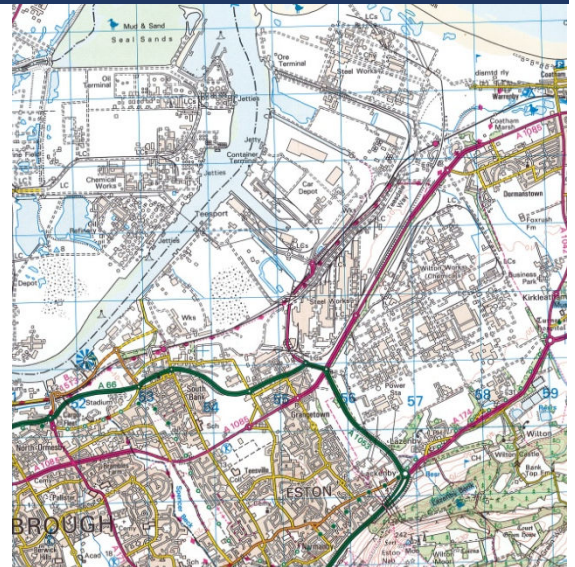
operational integrity of the facility or on any
regulatory compliance issue

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APPENDIX C

AEG Reports

PRAIRIE SITE GROUND INVESTIGATION WORKS



Draft Factual Report
(Rev.01)

**Allied
Exploration &
Geotechnics Ltd.**

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

Date: July 2020

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REPORT CONTROL SHEET

Contract Details

Contract Title	Prairie Site Ground Investigation Works
Contract Number	4251
Location	Redcar Steelworks, TS6 7BJ
National Grid Reference	NZ 214 547

Report Details

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

Client/Consultant Engineer Details

Client	Consultant Engineer
South Tees Development Corporation	Arcadis 1 Whitehall Riverside Leeds LS1 4BN

Signed & Approved On Behalf of Allied Exploration & Geotechnics Limited

Reports Engineer Laura Clarke BSc (Hons).	Approved:	Date:
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Technical Manager Kerry Wade BSc (Hons), MSc, FGS, MCMI	Approved:	Date:
		29/07/2020
Managing Director Nick Vater BSc (Hons), MSc, CGeol, EurGeol, FGS.	Approved:	Date:
		29/07/2020

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PRAIRIE SITE GROUND INVESTIGATION WORKS

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Groundwater Monitoring Results	5
Gas Monitoring Results	6
Continuous Groundwater/Tidal Monitoring	7

IN-SITU TESTING ENCLOSURES:

Test Report Certificate	0
Standard Penetration Test Results	1
Hand Shear Vane Test Results	2
Photo-Ionisation Detector Test Results	3
<i>In-situ</i> Water Quality Parameter Test Results	4
Hydraulic Conductivity: Slug Test Results	5

LABORATORY ENCLOSURES:

Laboratory Report Certificate	0
Sample Description Sheets	1
Moisture Content/Plasticity Index and Moisture Content	2
Determination of Particle Density	3
Particle Size Distribution Sieving and Sedimentation	4
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APPENDICES:

Specialist Chemical Testing (Tested Externally)	Appendix I
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Abbreviation	Definition
CP	Cable Percussion
RC	Rotary Coring
RO	Rotary Openhole

Text Abbreviations

1. INTRODUCTION

The site work was commissioned in order to augment previous ground investigation work, and to determine the ground and groundwater conditions on site prior to the proposed remediation works.

Allied Exploration & Geotechnics Limited (AEG) were contracted by the South Tees Development Corporation with Arcadis acting in the capacity of Consulting Engineer to perform a ground investigation at this site in order to provide information on the subsurface ground and groundwater conditions as well as to obtain samples for geotechnical and specialist chemical testing.

1.1 Scope of Works

The investigation works consisted of the following main elements:

- Ten cable percussive boreholes, four of which were advanced using rotary coring techniques.
- One hundred and twenty two machine excavated inspection pits.
- Associated sampling.
- *In-situ* Standard Penetration, Hand Shear Vane, Photo-Ionisation Detector, *In-situ* Water Quality Parameter and Hydraulic Conductivity (Slug) Testing.
- Surface water sampling.
- Continuous groundwater/tidal monitoring.
- Installation of gas/groundwater monitoring instrumentation.
- Post site works gas/groundwater monitoring and groundwater sampling.

Site work was carried out between the 1st April and 5th May 2020 with subsequent post site work monitoring, laboratory testing and reporting thereafter. A factual report only was requested.

The comments and opinions expressed in this report are based on the ground conditions encountered during the site work and on the results of tests carried out in the field and in the laboratory. There may, however, be special conditions prevailing on the site which have not been disclosed by this investigation and which have not been taken into account by this report.

2. THE SITE

2.1 Location

The National Grid Reference of the approximate centre of the site is NZ 214 547. This can be found on Ordnance Survey 1:50,000 Sheet Number 93 (Middlesbrough, Darlington & Hartlepool). Part of this sheet is reproduced as Figure 1, the Site Location Plan.

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

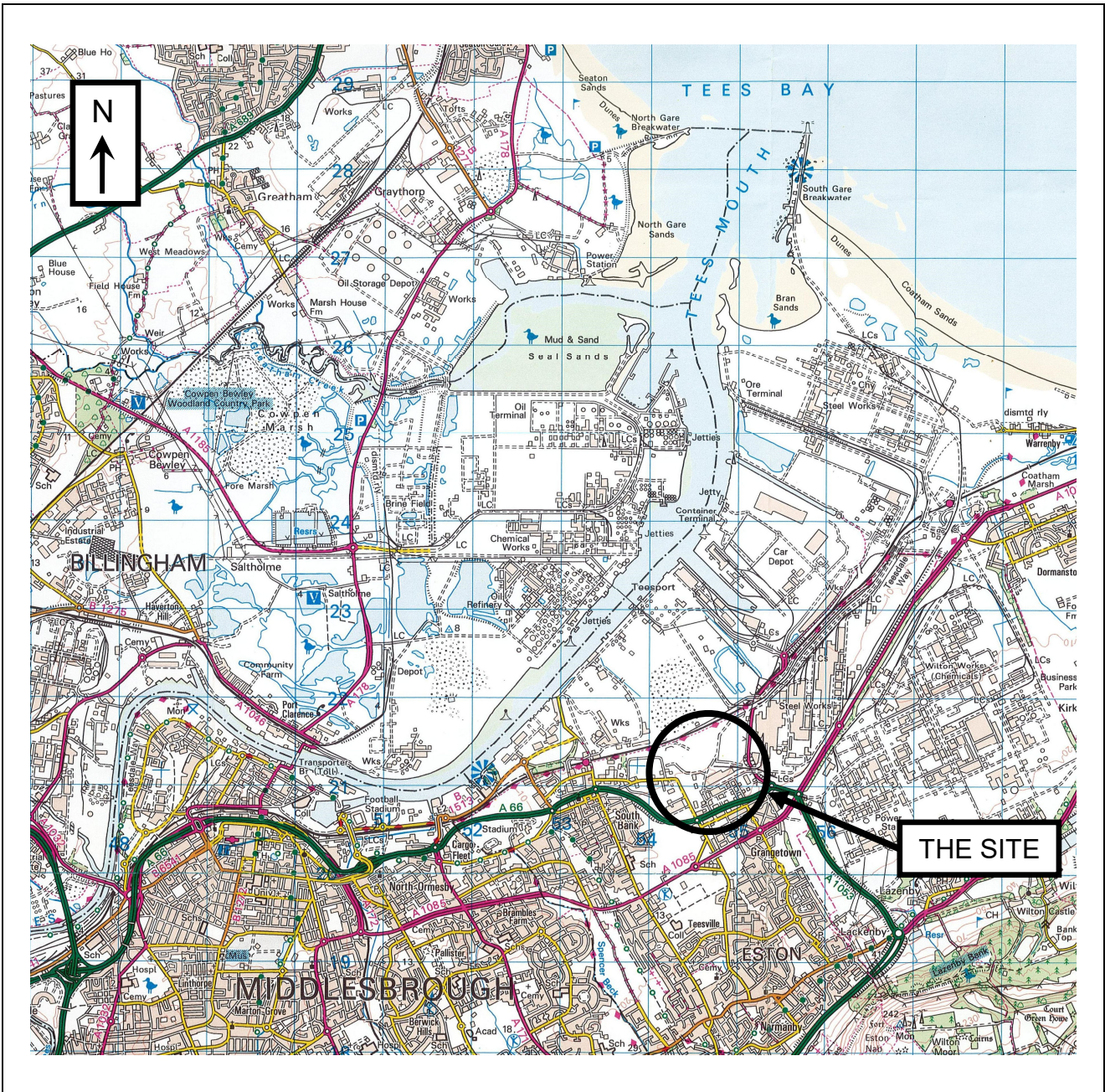


Figure 1: Site Location Plan

Reproduced from the Ordnance Survey 1:50,000 scale Landranger map by permission of Ordnance Survey on behalf of The Controller of Her Majesty's Stationery Office, Crown Copyright. All rights reserved. Licence number AL 10002282.

2.2 Site Description and Topography

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

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

3. SITE OPERATIONS

3.1 General

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

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

Table 1: British Standard Reference Code Number

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

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

are used to determine any zones of no recovery (core loss). These zones are based on the interpretation of the logging engineer and are therefore subjective. Refer to the Key Sheets for further information.

3.2 Health & Safety Considerations: Services

Before the commencement of any exploratory hole a search for underground services was conducted as prescribed in HSE publication '*Avoiding Underground Services (HSG47)*' and in accordance with in-house internal safety procedure AEG-14.

Service plans were provided by the Client and were consulted prior to using a service locating device (such as a Cable Avoidance Tool or C.A.T.) to scan a working area around the proposed exploratory hole location. Where no services were indicated a '*Permit-to-Work*' form was issued by the investigation supervisor and, with the exception of trial pits/trenches, the position was commenced with a hand excavated inspection pit. The inspection pit was also scanned during the excavation procedure. It should be noted that the digging of an inspection pit only confirms or guards against the possible presence of underground public utility services within the excavated pit. Where no services were indicated by the scanning procedure or inspection pit the exploratory hole was commenced in accordance with the Contract Specification.

Services were encountered in many of the trial pits. Details of any services uncovered/located during this investigation are given in the relevant Trial Pit Records. If required, the position was relocated in agreement with the Consulting Engineer, otherwise the position was continued with care.

3.3 Exploratory Holes: Boreholes

Ten boreholes were sunk using a Dando 2000 drilling rig, utilising cable percussive (shell and clay cutter) techniques, to depths of between 6.80m (PRAIRIE_AUK_BH109) and 18.40m BGL (PRAIRIE_AUK_BH101). Four boreholes were further advanced using either a Boart Longyear DB540 or a Comacchio GEO 305, utilising rotary coring methods, to depths of between 11.80m (PRAIRIE_AUK_BH109) and 20.80m BGL (PRAIRIE_AUK_BH110).

Rotary coring employed a 'P' (121mm OD) barrel in combination with P.C.D. drill bit together with water flushing medium. This coring assembly was used to recover 92mm lined cylindrical specimens of rock core. The Borehole Records are presented as Field Data Enclosure 2.

3.4 Exploratory Holes: Mechanically Excavated Trial Pits

One hundred and twenty two trial pits were mechanically excavated using a 360 tracked excavator to depths of between 0.10m (PRAIRIE_AUK_TP146A) and 5.20m BGL (PRAIRIE_AUK_TP199). The Trial Pit Records are presented as Field Data Enclosure 3.

3.5 Samples

Representative samples of soil, water and rock were obtained from the exploratory holes and were taken to the laboratory for selected geotechnical and specialist chemical testing. Two surface water samples (PRAIRIE_AUK_SW1 and PRAIRIE_AUK_SW2) were taken from a beck at the south end of Eston Road and Holme Beck North respectively.

Environmental samples were taken in accordance with the contract specification during the investigation using an approved selection of container types in order to suit the encountered material properties and designated laboratory analytical parameters. Full chain of custody procedures were in place post sampling and during the transportation stage to the nominated specialist chemical laboratory. Environmental samples were administered appropriately following the best practice guidance provided in the contract specification.

3.6 Groundwater

The comments on groundwater conditions are based on the observations made at the time of investigation. It should be noted that groundwater levels may vary due to seasonal and other effects. Furthermore, water was added during advancement of the boreholes in order to facilitate drilling operations. As a consequence there is a possibility that this could have masked the discrete ingress of natural groundwater into the boreholes, which subsequently may have been sealed as a result of progressing the casing.

Groundwater was encountered in the exploratory holes during the site works operation. Where groundwater observations were made details are given on the relevant Exploratory Hole Record and in greater detail (collectively in tabulated format) as Field Data Enclosure 4: Groundwater Observations Made at the Time of Site Works. Standing groundwater levels were recorded many exploratory holes at the beginning and/or end of each drilling shift. The water level is indicated on the applicable Exploratory Hole Record as part of the boring progress information.

3.7 Instrumentation & Monitoring

All ten boreholes (PRAIRIE_AUK_BH101 to PRAIRIE_AUK_BH110 inclusive) were installed with monitoring instrumentation in accordance with the requirements of the Consulting Engineer. Details of the installations are shown in the Borehole Summary Table within Field Data Enclosure 2.

Instruments were monitored for gas and groundwater on two occasions; one week after the completion of the site works, and a fortnight thereafter in accordance with the Contract Specification. A record of the readings is presented as Field Data Enclosure 5 (Groundwater Monitoring Results) and Field Data Enclosure 6 (Gas Monitoring Results).

Continuous monitoring was undertaken using a mini diver instrument. The instrument was installed into PRAIRIE_AUK_BH101, PRAIRIE_AUK_BH103 and PRAIRIE_AUK_BH108 on 7th May 2020 in order to assess groundwater fluctuations over the period of a complete tidal cycle. The tidal cycle readings are presented as Field Data Enclosure 7.

3.8 Operative Observations: Potential Contamination

For the purposes of determining the condition of the site, with regard to human health and environmental issues, reference should specifically be made to any specialist chemical testing undertaken as part of the investigation scheme, as well as any supporting desk study and risk assessment documentation. The information given herein collates the observations made by the operatives involved in the investigation only and comments that have been indicated on the engineering records.

Where there was potential evidence of contamination, principally as a consequence of olfactory and visual identification, information is provided in the relevant Borehole and Trial Pit Records.

It should be stressed that the information provided herein is subjective, as it is based on the perceptions of individuals and not specialists routinely involved in the chemical determination of contaminated residues, liquors, vapours or solid contaminants.

3.9 Surveying

The investigation positions were surveyed after completion of site works using a Leica Smartrover (Model ATX 1230+ GNSS) GPS based instrument which provides corrected Ordnance Survey co-ordinates in real time to an accuracy of within $\pm 30\text{mm}$ vertical and $\pm 30\text{mm}$ horizontal. These positions have been subsequently plotted in AutoCAD® software and are shown on the Exploratory Hole Location Plan, Field Data Enclosure 1.

4. IN-SITU TESTING

4.1 General

In-situ testing as specified by the Consulting Engineer was carried out in selected boreholes in accordance with techniques outlined in the relevant British Standard and/or AEG Quality Procedure. The results are presented in the *In-situ* Testing Enclosures with a number of the test results summarised at the relevant depth on the Borehole Records.

4.2 Standard Penetration Test Results

Standard Penetration Testing (SPT) was carried out in the boreholes in accordance with techniques outlined in BS EN ISO 22476-3: 2005 in order to determine the relative density and consistency of the strata encountered. The 'N' value (number of blows per 300mm penetration) or the penetration per blow was recorded for each test. Uncorrected 'N' values or penetration per blow data are provided on the applicable Borehole Records. (Refer to page 6 of the key sheets for further details).

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

- Initial exploratory hole conditions prior to the test procedure.

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

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

4.3 Hand Shear Vane

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

4.4 Photo Ionisation Detector (PID)

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

4.5 *In-situ* Water Quality Parameter Testing

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

4.6 Hydraulic Conductivity: Slug Tests

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

5. LABORATORY TESTING

5.1 General

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

5.2 Geotechnical Testing

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

Test	Procedure
Moisture Content	BS 1377 Part 2 1990 (BS EN ISO 17892-1:2014)
Plasticity Index and Moisture Content	BS 1377 Part 2 1990 (BS EN ISO 17892-1:2014)
Determination of Particle Density	BS 1377 Part 2 1990
Particle Size Distribution Sieving	BS 1377 Part 2 1990
Particle Size Distribution Sedimentation	BS 1377 Part 2 1990
Determination of Sulphate and pH (Tested externally)	See External Laboratory Certificates
Undrained Shear Strength in Triaxial Cell without Pore Water Pressure Measurement	BS 1377 Part 7 1990
Determination of Point Load Index	ISRM 1985
Determination of Unconfined Compressive Strength (Tested externally)	ISRM 1985

Table 2: Geotechnical Testing

5.3 Specialist Chemical Testing

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

5.4 Laboratory Identified Asbestos

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

5.5 Slag Testing

A number of selected samples were scheduled for slag testing which was conducted under a subcontract arrangement with Thomas Research Services. This testing includes petrology, expansion tests and interpretative reporting. The results of this testing is included within Appendix II.

Key Sheets





Allied Exploration and Geotechnics Limited

Key Sheets



INTRODUCTION

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

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

INFORMATION COMMON TO ALL EXPLORATORY HOLE RECORDS

Status Box

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

Exploratory Hole No

The identity number used throughout the report.

Project

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

Client

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

Location

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

Method (Equipment)

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

Ground Level (m(AOD))

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

Date

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

Sheet

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

Checked By

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

Logged By

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

Contract No.

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



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Key Sheets






INFORMATION RELEVANT TO BOREHOLE AND WINDOW/WINDOWLESS SAMPLE HOLE RECORDS

Sample & Tests Columns

Depth	The depth over which a sample or test is taken is shown in depth column of the exploratory hole record in a "from...to" format.
Type No	Indicates the type of sample/test and number given by the driller.
Test Result	Result of the test given in the applicable units.

Water Column

Water Strike	Level of groundwater strike within an exploratory hole. The symbol  denotes a water strike and is suffixed with a number, which indicates the strike order. The corresponding unfilled symbol  is the depth the strike rose to.
Seepage	Groundwater seepage within an exploratory hole is denoted by the  symbol.

Strata Columns

Reduced Level	The corresponding reduced level of each soil or rock boundary in metres Ordnance Datum.
Legend	A graphical representation of the materials encountered using BS 5930:1999 Amendment No.2 (Aug 2010) recommended symbols for soil and rock.
Depth (Thickness)	The depth below ground level of each soil or rock boundary in metres and the thickness of each individual stratigraphic unit (given in brackets).
Description	Engineering description of each individual soil or rock type follows recommendations outlined in Section 6 of BS 5930:1999 Amendment No.2 (Aug 2010) with the following implementation: <ol style="list-style-type: none"> The amendment of section 6 incorporates the guidance indicated in BS EN ISO 14688-1:2002, BS EN ISO 14688-2:2004 and BS EN ISO 14689-1:2003 European Standard with particular emphasis on current UK practice. Supplementary laboratory or in-situ assessed measurements of undrained strength are provided where applicable information is available in parenthesis in accordance with clause 41.3.2 BS 5930:1999 Amendment No.2 (Aug 2010) after the field strength determined consistency. The description based measurement table indicating the quantitative undrained strength classification divisions is provided in Key Sheets Table 1.

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

KEY SHEETS TABLE 1

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



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Key Sheets



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

KEY SHEETS TABLE 2

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

Term for use in field or based on measurement	Definition for field use	Definition on basis of Unconfined Compressive Strength measurement (MPa)	Old Classification of rock strength: Terminology (Strength Range MPa)	Old Classification of rock strength: Determination Method
Extremely weak	Can be indented by thumbnail. Gravel sized lumps crush between finger and thumb.	0.6-1.0	Very Weak (<1.25)	Lumps can be crushed between fingers
Very weak	Crumbles under firm blows with point of geological hammer. Can be peeled by a pocket knife.	1-5	Weak (1.25 – 5)	Lumps can be broken with heavy hand pressure
Weak	Can be peeled by a pocket knife with difficulty. Shallow indentations made by firm blow with the point of geological hammer.	5-25	Moderately Weak (5-12.50)	This slab can be broken with heavy pressure
Medium Strong	Cannot be scraped with pocket knife. Can be fractured with a single firm blow of geological hammer.	25-50	Moderately Strong (12.50-50)	Rock can be broken in the hand with a hammer
Strong	Requires more than one blow of geological hammer to fracture.	50-100	Strong (50-100)	Rock can be broken on a flat surface using a hammer
Very Strong	Requires many blows of geological hammer to fracture.	100-250	Very Strong (100-200)	Rock chipped by blows with a hammer
Extremely strong	Can only be chipped with geological hammer.	>250	Extremely Strong (>200)	Rock rings when hit with a hammer
Based on BS EN ISO 14689-1:2003 4.2.7, Table 5			BS5930: 1999 – Section 6 (Superseded Version)	

KEY SHEETS TABLE 3

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

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

KEY SHEETS TABLE 4



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Key Sheets



Instrument/Backfill Column

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

Boring Progress and Water Observations Columns

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

Date	Date of shift.
Depth	Depth of hole at the start of the shift.
Casing	Casing's depth at the start of the shift.
Casing Dia	Casing's diameter at the start of the shift.
Water Depth	Water level within the borehole at the start and end of shift.

Chiselling Columns

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

From	The depth commenced.
To	The depth finished.
Hours	The time spent for breaking out.

Water Added Columns

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

From	Depth in metres from where water was added.
To	Depth in metres to where water was added.

General Remarks

Any remarks believed to be relevant to the exploratory hole.

INFORMATION RELEVANT TO PIT/TRENCH RECORDS

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

Plan

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

Groundwater

Notes on water bearing horizons.

Stability

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

General Remarks

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

Additional Information

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



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Key Sheets



Underground Services

Depth	Depth service was encountered.
Orientation	Orientation given as a compass bearing to magnetic north.
Type	Type of service encountered.
Diameter	Diameter of service encountered.
Condition	Condition the service encountered was noticed in.

INFORMATION RELEVANT TO DRILLHOLE RECORDS AND ROTARY CONTINUATION

Run Details Columns

Depth	Each drill run is highlighted by a horizontal line with the top and bottom depths shown in metres. Core diameter (C Dia) is presented also within each run.
TCR (SCR) RQD	Information provided on the total core recovery, solid core recovery and rock quality designation. Refer to Abbreviations for further details.
Fracture Index	Information given relating to the fracture index of the rock.

Strata Columns

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

Discontinuities Detail	Information on core discontinuities, localised variations in weathering, lithology, strength and structure follows recommendations outlined in Section 6 BS 5930:1999 Amendment No.2 (Aug 2010):Clause 44.
Main	Engineering description of each individual soil or rock type follows recommendations outlined in Section 6 of BS 5930:1999 Amendment No.2 (Aug 2010).

Instrument/Backfill Column

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

Drilling Progress and Water Observations Columns

Date	Date of shift.
Depth	Depth of hole at the start of the shift.
Casing	Casing's depth at the start of the shift.
Water Strike	Depth at which water was encountered.
Water Standing	Depth at which water in the hole levelled off.
Water Remarks	Any remarks believed to be relevant to the water e.g. Artesian.

Standard Penetration Test

Depth	The depth commenced.
Type	Type of standard penetration test (SPT).
Result	Result of SPT.

Flush

From	The depth commenced.
To	The depth finished.
Type	Details of the type of flush used. A = Air, F = Foam, W = Water and Pol = Polymer.
Returns	An indication of the percentage of the returned flush material.

General Remarks

Any remarks believed to be relevant to the exploratory hole.



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Key Sheets



SAMPLES

B	Bulk disturbed sample.
ES	Environmental soil sample.
EW	Environmental water sample.
G	Gas sample.
J	Small disturbed sample.
LB	Large bulk disturbed sample.
P	Piston sample.
P*	An attempted but failed undisturbed piston sample.
U	Undisturbed sample.
U*	An attempted but failed general purpose undisturbed sample.
U _(ss)	Sample has been subsampled.
ES _(U)	Brackets following a sample denotes a subsample. The sample information within the brackets is the origin of the subsample.
W	Water sample.

IN-SITU TESTS

CBR	California Bearing Ratio mould sample or test.
HSV	In-situ hand shear vane.
HSV*	An attempted but failed in-situ hand shear vane.
HSV result of e.g 80(20)kPa	Denotes average HSV peak result followed by average HSV residual result (in brackets).
HP	Hand penetrometer test.
K (F)	Falling head permeability test.
K (R)	Rising head permeability test.
K (C)	Constant head permeability test.
K (P)	Packer permeability test.
PT	Pressuremeter test.
PID	Photo ionisation detector test.
FID	Flame ionisation detector test.
S	Standard Penetration Test (SPT) using the split barrel sampler (shoe). The corresponding uncorrected 'N' value is given in the test result column with more detailed information provided in the In-Situ Testing Enclosures where applicable. Testing has been conducted in accordance with BS EN ISO 22476-3: 2005.
C	Denotes SPT test using a solid cone in preference to the split barrel sampler (usually in coarse granular soil) with all other reporting requirements as outlined above for the split barrel sampler.
S/C result of e.g. 1/2.94	Denotes where full penetration has not been achieved during the SPT test. In such cases the penetration (mm) per blow is recorded in the test result column e.g. 1/2.94 is 2.94mm of penetration per single blow.
SV	In-situ down-the-hole shear vane test. The remoulded shear strength is given in brackets.

ROCK QUALITY AND CORE RECOVERY

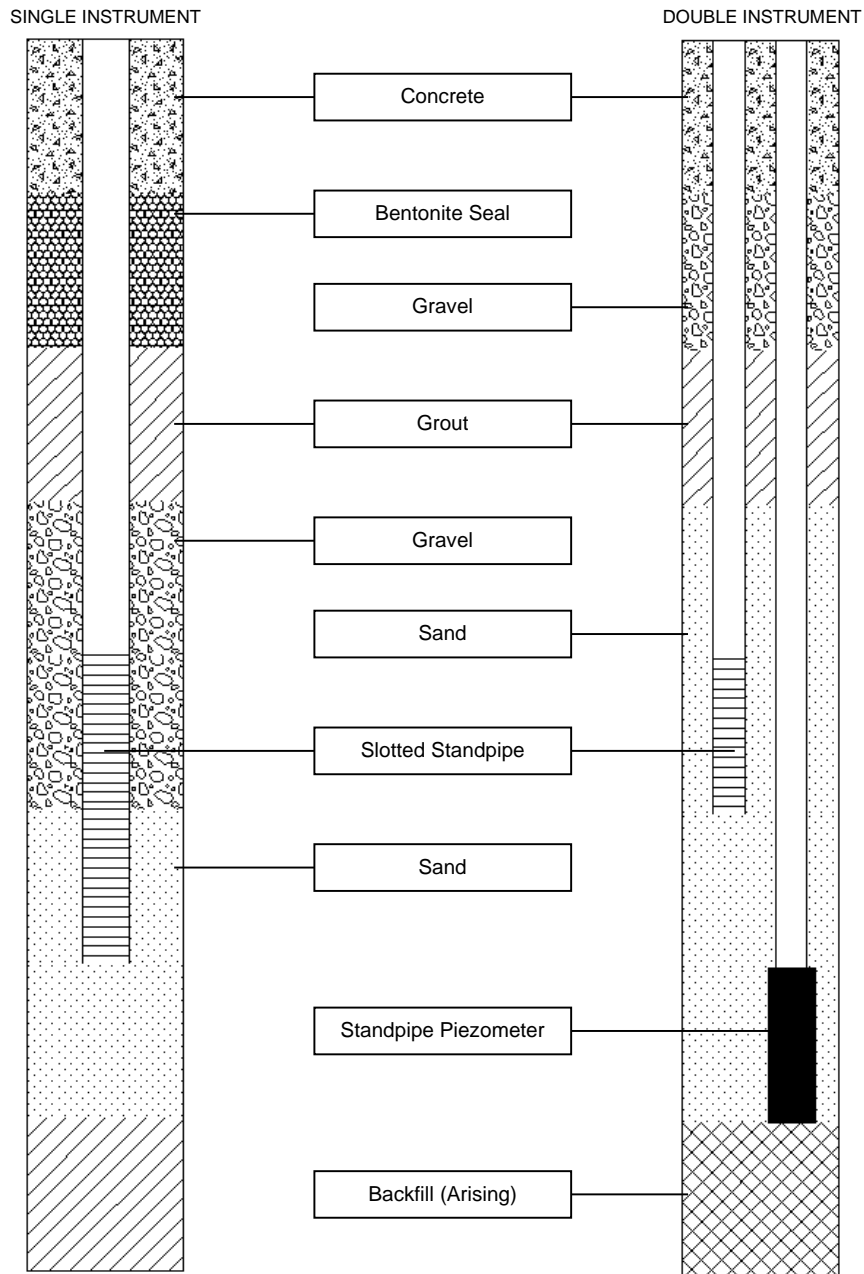
TCR	Total Core Recovery - the length of the recovered core expressed as a percentage of the length of core run.
SCR	Solid Core Recovery - the sum length of all core pieces that are recovered with at least one full diameter, expressed as a percentage of the length of core run.
RQD	Rock Quality Designation - The sum length of all core pieces that are 100mm or longer (measured along the centre of the core), expressed as a percentage of the length of core run.
FI	Fracture Index - The number of fractures per 1000mm length of solid core.
NI	Non-intact - The material recovered in a non-intact state.
NR	No recovery from the core run. These zones are based on the interpretation of the logging engineer and are therefore potentially subjective.



Allied Exploration and Geotechnics Limited Key Sheets



Symbols and Abbreviations: Explanation of Instrumentation Legends Used





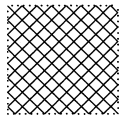
Allied Exploration and Geotechnics Limited

Key Sheets

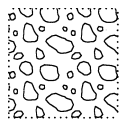


Symbols and Abbreviations: Explanation of Legends Used

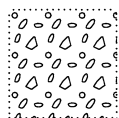
Soils	Rocks		
	<i>Sedimentary</i>	<i>Metamorphic</i>	<i>Igneous</i>



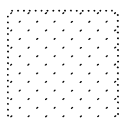
Made Ground



Cobbles and Boulders



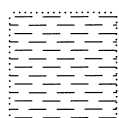
Gravel



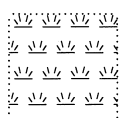
Sand



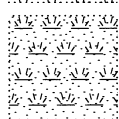
Silt



Clay



Peat

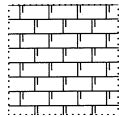


Topsoil

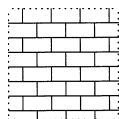
Note: Composite soil types will be signified by combined symbols e.g.



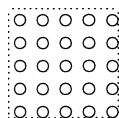
Silty Sand



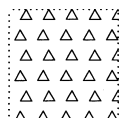
Chalk



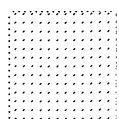
Limestone



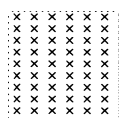
Conglomerate



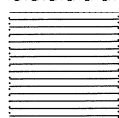
Breccia



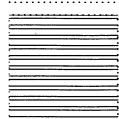
Sandstone



Siltstone



Mudstone



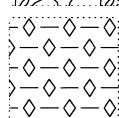
Shale



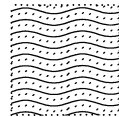
Coal



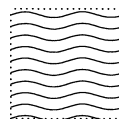
Pyroclastic
(Volcanic Ash)



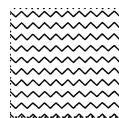
Gypsum



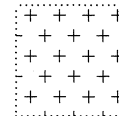
Coarse
Grained



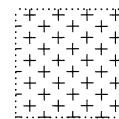
Medium
Grained



Fine Grained



Coarse
Grained



Medium
Grained






Fine Grained

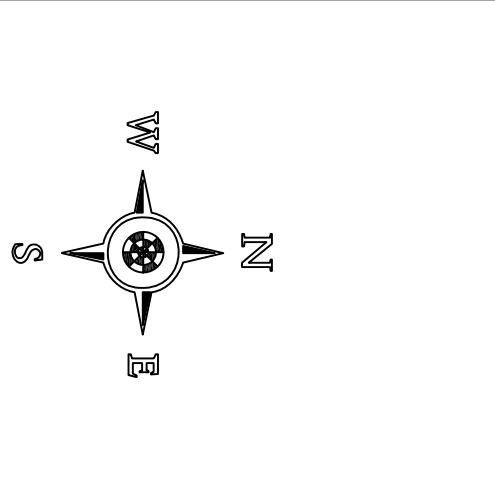
Exploratory Hole Location Plan





AEQ
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 (Tel: 0191 381 4700
 (Fax): 0191 381 4710
 (Email: enquiries@aequk.net)

- KEY:**
-  BOREHOLE
 -  TRIAL PIT
 -  SURFACE WATER SAMPLE






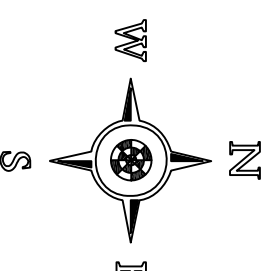
Base Plan Supplied by Consulting Engineer	
Drawing Title:	ENC 01 : Exploratory Hole Location Plan
Drawing No.:	AEG/4251/01
Contract Title:	Prairie Site Ground Investigation Works
Client:	Tees Valley Combined Authority Teesside Management Office, Trunk Road, Redcar, TS10 5QW
Consultant:	Acadris 1 Whitehall Riverside Leeds, LS1 4BN
Contract No.:	4251
Scale:	1:2500 @ A3
Date:	01/07/2020



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 (Email): enquiries@aeguk.net

KEY:

-  BOREHOLE
-  TRIAL PIT
-  SURFACE WATER SAMPLE



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:

Acadris
 1 Whitehall Riverside
 Leeds, LS1 4BN

Contract No.:

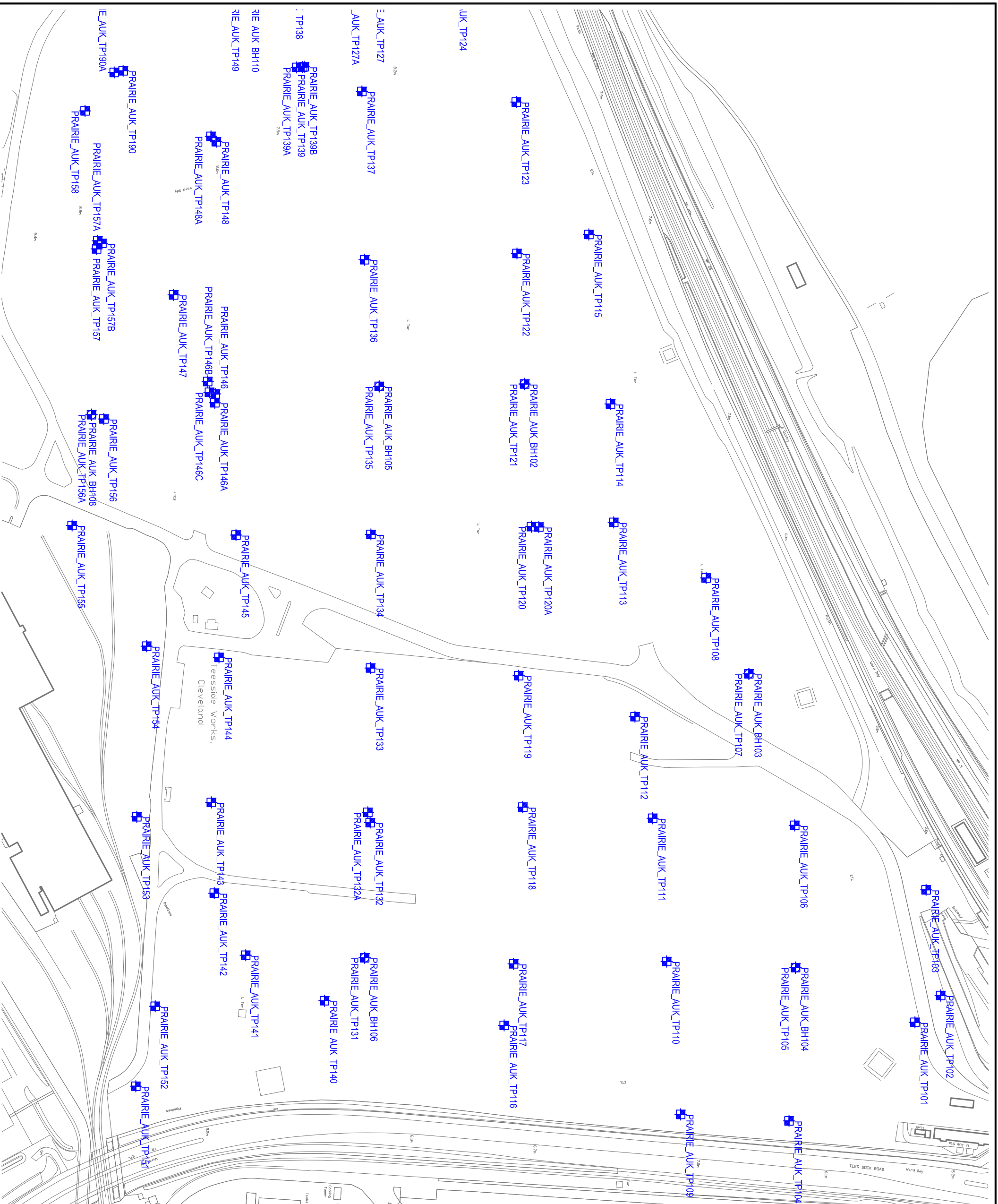
4251

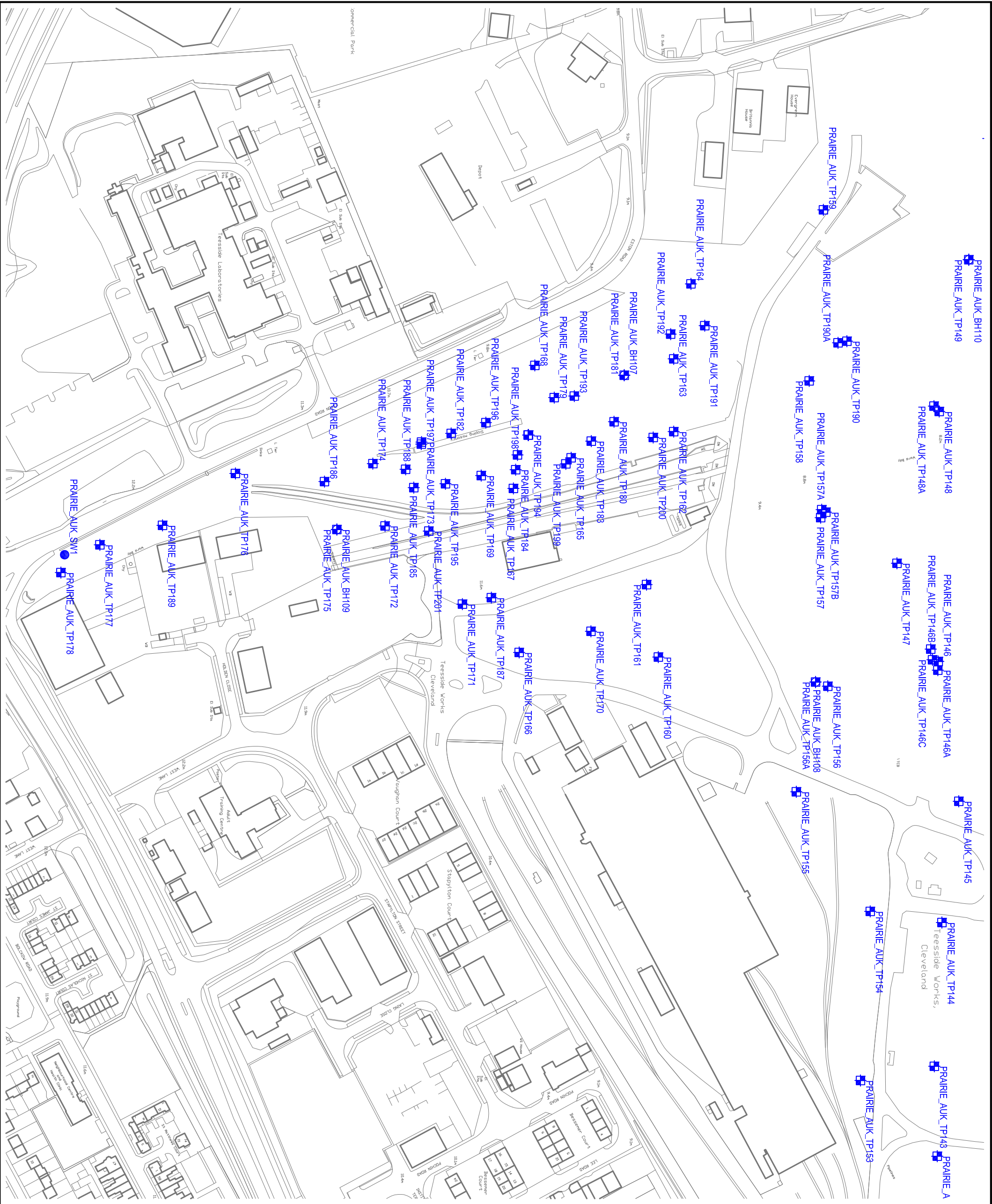
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1:2500 @ A3




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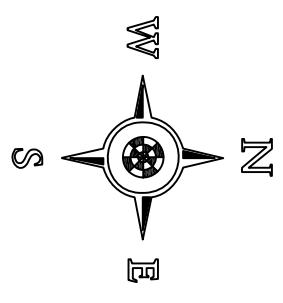
01/07/2020





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- KEY:**
-  BOREHOLE
 -  TRIAL PIT
 -  SURFACE WATER SAMPLE



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

Consultant:
Acadris
1 Whitehall Riverside
Leeds, LS1 4BN

Contract No.:
4251

Scale:
1:2500 @ A3

Date:
01/07/2020

Borehole Records



Borehole Summary Table

Exploratory Hole Number	Drilling Method	Completion Depth (m BGL)	Depth of installation (m BGL)	Diameter/Type of instrumentation	Instrumentation Response zone (m BGL)	Remarks
PRAIRIE_A UK_BH101	CP	18.40	10.00	19mm diameter piezometer standpipe	4.00-10.00	Advanced through PRAIRIE_AUK_TP127A. Advanced to required depth.
			16.50	50mm diameter slotted standpipe	14.50-16.50	
PRAIRIE_A UK_BH102	CP	8.00	7.20	50mm diameter slotted standpipe	2.00-7.20	Advanced through PRAIRIE_AUK_TP121. Advanced to required depth.
PRAIRIE_A UK_BH103	CP	13.80	8.50	50mm diameter slotted standpipe	3.00-8.50	Advanced through PRAIRIE_AUK_TP107. Advanced to required depth.
PRAIRIE_A UK_BH104	CP+RC	18.50	18.50	50mm diameter slotted standpipe	14.50-18.50	Advanced through PRAIRIE_AUK_TP105. Continued by rotary coring from 13.50m BGL. Advanced to required depth.
PRAIRIE_A UK_BH105	CP	12.00	11.00	50mm diameter slotted standpipe	8.00-11.00	Advanced through PRAIRIE_AUK_TP135. Advanced to required depth.
PRAIRIE_A UK_BH106	CP	10.80	10.00	50mm diameter slotted standpipe	4.00-10.00	Advanced through PRAIRIE_AUK_TP131. Advanced to required depth.
PRAIRIE_A UK_BH107	CP	9.80	9.50	50mm diameter slotted standpipe	4.00-8.00	Advanced through PRAIRIE_AUK_TP181. Advanced to required depth.
PRAIRIE_A UK_BH108	CP+RC	14.00	6.00	19mm diameter piezometer standpipe	3.00-6.00	Advanced through PRAIRIE_AUK_TP156A. Continued by rotary coring from 9.50m BGL. Advanced to required depth.
			14.00	50mm diameter slotted standpipe	10.00-14.00	
PRAIRIE_A UK_BH109	CP+RC	11.80	11.80	50mm diameter slotted standpipe	7.80-11.80	Advanced adjacent to PRAIRIE_AUK_TP175. Continued by rotary coring from 6.80m BGL. Advanced to required depth.
PRAIRIE_A UK_BH110	CP+RC	20.80	20.80	50mm diameter slotted standpipe	16.80-20.80	Advanced through PRAIRIE_AUK_TP149. Continued by rotary coring from 15.80m BGL. Advanced to required depth.

Any relevant photographs are presented after the applicable Window/Windowless Sample Hole Record
 CP = Cable Percussion, RO = Rotary Openhole, RC = Rotary Coring, DS = Dynamic Sampling



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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			STRATA					Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	
				8.24		(0.40) 0.40	MADE GROUND (Brown grey sand and gravel. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded and includes slag, concrete, macadam and roadstone).	
						(1.50)	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).	
				6.74		1.90		
						(1.10)	Firm yellow brown mottled grey sandy CLAY. (Possible Made Ground).	
				5.64		3.00		
3.00	ES1							
3.00-3.45	U2	(45)					Soft to firm thinly laminated brown slightly sandy slightly gravelly silty CLAY with fine yellow brown sand on the laminae. at c.3.00m BGL ... low strength. Clay is of intermediate plasticity.	
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)					at c.5.00m BGL ... low strength. Clay is of intermediate plasticity.	
5.45	J8							
6.00-6.45	B10							
6.00-6.45	SJ9	N17						
7.50	J11					(7.60)		

Boring Progress and Water Observations					Chiselling		Water Added	General Remarks
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	
27/04/2020	0.00	0.00	200					(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 slotted standpipe and 1No. 50mm diameter slotted standpipe installed between 4.00-10.00m and between 14.50-16.50m BGL respectively.

All dimensions in metres Scale 1:50	For explanation of symbols and abbreviations see Key Sheets	Checked by:	Logged by: K. Russell-Clamp	Contract No. 4251
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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			STRATA					Instrument/ Backfill			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description				
8.00-8.45	U12	(65)					Soft to firm thinly laminated brown slightly sandy slightly gravelly silty CLAY with fine yellow brown sand on the laminae. (continued) at c.8.00m BGL ... medium strength.				
8.45	J13										
9.00	J14										
9.50-9.95	B16	N18									
9.50-9.95	SJ15										
10.50	J17					-1.96			10.60	Firm to stiff red brown slightly sandy gravelly CLAY. Gravel is fine to coarse subangular and includes sandstone, mudstone, siltstone and coal. at c.11.00m BGL ... high strength. Clay is of low plasticity.	
11.00-11.45	U18	(100)							(1.70)		
11.45	J19										
12.00	J20										
12.50-12.95	B22	100/285mm								12.30	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										
13.50	J23					(2.50)					
14.00-14.45	B25	100/285mm									
14.00-14.45	SJ24										
15.00	J26					14.80	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	100/245mm					(1.40)				
15.50-15.95	SJ27										

Boring Progress and Water Observations					Chiselling		Water Added	General Remarks
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	
27/04/2020	10.50	10.03	200	Dry				(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 slotted standpipe and 1No. 50mm diameter slotted standpipe installed between 4.00-10.00m and between 14.50-16.50m BGL respectively.
28/04/2020	10.50	10.03	200	9.82				

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

Boring Progress and Water Observations					Chiselling		Water Added	General Remarks
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	
28/04/2020	17.50	16.80	200	12.06	16.20 - 17.00	3:30		(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 slotted standpipe and 1No. 50mm diameter slotted standpipe installed between 4.00-10.00m and between 14.50-16.50m BGL respectively.
29/04/2020	17.50	16.80	200	10.47	17.70 - 18.00	1:00		
29/04/2020	18.40	18.20	200	11.02				

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			STRATA					Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	
6.00-7.00	B1			7.31		0.90	MADE GROUND (Brown slightly gravelly sand. Sand is fine to coarse. Gravel is fine to coarse subangular and includes brick and slag).	
7.00-8.00	B2			0.21		8.00	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). at c.7.00-8.00m BGL ... driller notes 'large crushed metal'.	

Complete at 8.00m BGL.

Boring Progress and Water Observations					Chiselling		Water Added	General Remarks
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	
09/04/2020	0.00	0.00	200		6.00 - 8.00	6:00		(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.
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				

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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 Tel: 01772 735 300 Fax: 01772 735 999

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			STRATA					Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	
				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	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	Firm to stiff grey brown slightly sandy CLAY.	
2.50	ES1	(30)		4.88		2.80	Firm laminated grey dark brown sandy silty CLAY with occasional sand lenses. Sand is fine to medium.	
2.50	U2	<0.1ppm						
2.50	PID							
2.95	J3							
3.50	J4							
3.50-3.95	B6	N20						
3.50-3.95	SJ5							
4.50	J7	(25)						
4.50-4.95	U8							
4.95	J9							
5.50	J10	N21				(5.50)		
5.50-5.95	B12							
5.50-5.95	SJ11							
6.50	J13							
7.00-7.45	U14	(25)						
7.00-7.50	B16							
7.45	J15							

Boring Progress and Water Observations					Chiselling		Water Added	General Remarks
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	
08/04/2020	0.00	0.00	200					(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			STRATA					Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	
8.00	J17			-0.62	X X X X	8.30	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 8.50-8.95	B19 SJ18	N37				(2.40)		
9.50	J20							
10.00-10.45	U21	(75)						
10.45	J22			-3.02		10.70	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.	
11.00	J23					(2.00)		
11.50-11.95 11.50-11.95	B25 SJ24	N80						
12.50	J26			-5.02		12.70	Extremely weak thinly laminated red sandy MUDSTONE residual.	
13.00-13.45 13.00	B28 SJ27	100/200mm				(1.10)		
13.50 13.50	J29 SJ30	100/130mm		-6.12		13.80	Complete at 13.80m BGL.	

Boring Progress and Water Observations					Chiselling		Water Added	General Remarks
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	
08/04/2020	11.00	10.80	200	Dry	13.20 - 13.50	1:00		(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.
09/04/2020	11.00	10.80	200	Dry				
09/04/2020	13.80	10.80	200	Dry				

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			STRATA					
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	Instrument/ Backfill
				8.65		0.05	MADE GROUND (Brown sandy topsoil. Sand is fine to coarse).	
						(0.55)	MADE GROUND (Strong grey concrete).	
				8.10		0.60	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).	
						(0.90)		
				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).	
						(2.70)		
				4.50		4.20	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		4.40	(1) Stiff red brown slightly sandy slightly gravelly CLAY.	
						(1.10)		
5.50	ES1			3.20		5.50	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					Chiselling		Water Added	General Remarks
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	
03/04/2020	0.00	0.00	200					(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: J. Myall	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

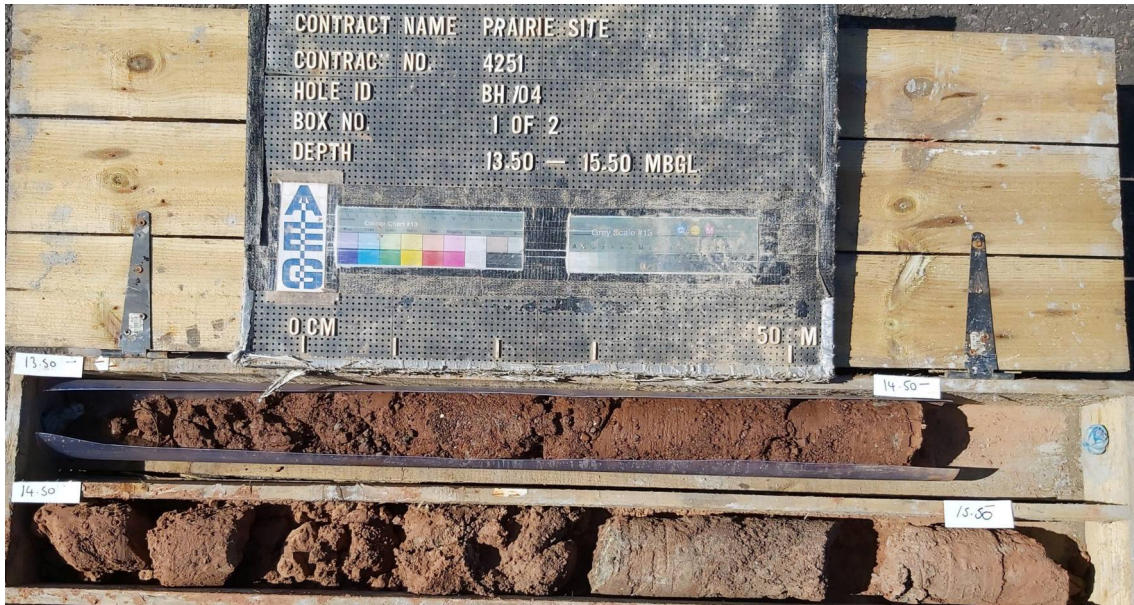
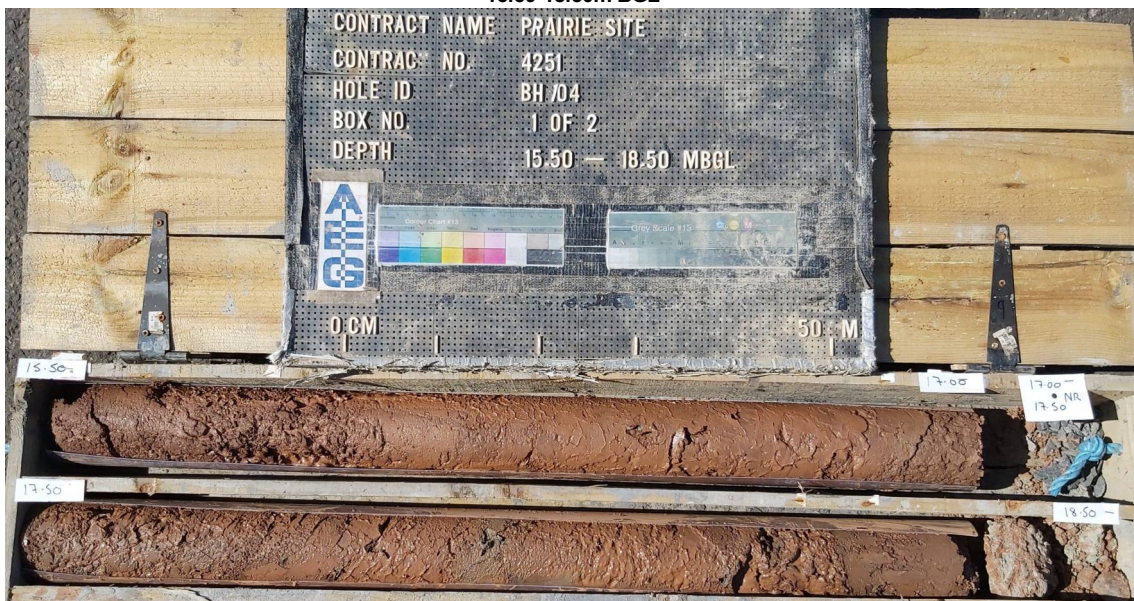


Figure PRAIRIE_AUK_BH104.2
15.50-18.50m BGL





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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			STRATA					Instrument/ Backfill
Depth	Type No	Test Result	Water	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	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	Firm light orange brown sandy CLAY.	
						(0.90)	Firm to stiff grey brown slightly sandy CLAY.	
				5.76		2.50	Firm to stiff grey brown slightly sandy CLAY.	
						(0.50)	Firm laminated grey brown sandy silty CLAY.	
3.00	ES1		↓	5.26		3.00	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						
5.00-5.45	U6	(80)				(3.70)		
5.45	J7							
6.00	J8							
6.50-6.95	SJ9	N19		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.	
6.50-6.95	B10							
7.50	J11					(1.90)		

Boring Progress and Water Observations					Chiselling		Water Added	General Remarks
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	
16/04/2020	0.00	0.00	200					(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			STRATA					Instrument/ Backfill
Depth	Type No	Test Result	Water	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			-0.34		8.60	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 9.00-9.50	J14 B15							
9.50 9.50-9.95	SJ16 B17	100/185mm				(2.40)		
10.50	J18							
11.00 11.00-11.20 11.20	SJ19 B20 SJ21	100/70mm 100/55mm		-2.74		11.00 (1.00)	Extremely weak dark red MUDSTONE residual with some gypsum interbeds. (Recovered as gravelly sand).	
				-3.74		12.00	Complete at 12.00m BGL.	

Boring Progress and Water Observations					Chiselling		Water Added	General Remarks
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	
16/04/2020	11.00	10.80	200	5.09	11.00 - 11.20	1:00		(1) Description derived from drillers daily report. (2) Advanced through trial pit PRAIRIE_AUK_TP135. Descriptions between 0.00-3.00m BGL derived from PRAIRIE_AUK_TP135. (3) 50mm diameter slotted standpipe installed between 8.00-11.00m BGL. (4) Water strikes at 3.00m and 8.60m BGL - water level rose to 2.88m and 4.32m BGL respectively (20 mins).
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				

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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			STRATA					Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	
5.50	ES1	(100) <0.1ppm		8.21		(0.50)	MADE GROUND (Grass over brown sandy gravelly topsoil. Gravel is fine to coarse subangular and includes brick, slag and concrete).	
5.50-5.95	U2			6.21		(2.00)	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	
5.95	J3			5.21		(4.00)	Firm grey mottled orange brown slightly sandy clay.	
6.50	J4			4.21		(4.00)	Firm indistinctly laminated grey mottled orange brown slightly sandy CLAY.	
7.00-7.45	SJ5	N27		3.21		(4.00)	(1) Firm to stiff red brown slightly sandy gravelly CLAY.	
7.00-7.45	B6					(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					Chiselling		Water Added	General Remarks
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	
06/04/2020	0.00	0.00	200					(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			STRATA					Instrument/ Backfill
Depth	Type No	Test Result	Water	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 10.00-10.45	B12 SJ11	N52					at c.10.50-10.80m BGL ... blue light grey in colour.	
10.50 10.50	J13	100/40mm		-2.09		10.80		
Complete at 10.80m BGL.								

Boring Progress and Water Observations					Chiselling		Water Added	General Remarks
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	
06/04/2020	10.80	10.30	200	Dry	10.20 - 10.50	1:00		(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			STRATA					Instrument/ Backfill
Depth	Type No	Test Result	Water	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)		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	MADE GROUND (Grey cobbles and boulders. Cobbles are subangular and includes slag. Boulders are subangular and includes slag. Slag is vesicular).	
				(0.90)		0.90		
				8.46		1.70	Firm becoming stiff brown red grey CLAY with occasional sand lenses and interlaminated silt and clay laminae.	
				(1.30)		1.30		
3.00	ES1			7.16		3.00	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)						
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					Chiselling		Water Added	General Remarks
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	
24/04/2020	0.00	0.00	200					(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			STRATA					Instrument/ Backfill
Depth	Type No	Test Result	Water	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 9.00-9.45	SJ16 B17	100/40mm				(0.80) 9.50	Complete at 9.50m BGL.	

Boring Progress and Water Observations					Chiselling		Water Added	General Remarks
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	
24/04/2020	9.50	8.80	200	Dry	8.70 - 9.00	1:00		(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			STRATA					Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	
					(0.60)		MADE GROUND (Black gravelly fine to coarse sand. Gravel is fine to coarse subangular and includes ash, macadam, concrete).	
				8.26	(0.60)		MADE GROUND (Concrete/slag).	
				8.06	(0.80)		Firm orange brown mottled grey slightly sandy CLAY.	
					(1.70)			
				6.36	(2.50)		Firm laminated red dark brown sandy silty CLAY. Sand is fine to medium.	
2.50 2.50-2.95 2.50 2.95	ES1 U2 PID J3	(75) <0.1ppm			(2.30)			
3.50-3.95 3.50-3.95	SJ4 B5	N13			(4.80)		Firm laminated red dark brown sandy slightly gravelly silty CLAY. Sand is fine to medium subrounded and includes sandstone, mudstone and limestone.	
4.00	J6				(5.80)			
4.50-4.95	U7	(90)		4.06	(1.00)			
4.95 5.00	J8 J9				(1.90)		Stiff to very stiff dark brown slightly sandy gravelly CLAY. Gravel is fine to coarse subangular and includes sandstone, mudstone and limestone.	
5.50-5.95 5.50-5.95	B11 SJ10	N49		3.06	(7.70)			
6.50	J12				(1.16)			
7.00-7.45 7.00-7.45	SJ13 B14	N76		1.16				

Boring Progress and Water Observations					Chiselling		Water Added	General Remarks
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	
15/04/2020	0.00	0.00	200					(1) Description derived from drillers daily report. (2) Advanced through trial pit PRAIRIE_AUK_TP156A. Descriptions between 0.00-4.50m 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			STRATA					Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	
8.00	J15						Extremely weak thinly laminated grey MUDSTONE destructured with many interlamination of extremely weak gypsum. (Recovered as clayey slightly sandy gravel). (continued)	
8.50-8.95 8.50-8.95	SJ16 B17	100/55mm				(1.80)		
9.00 9.00-9.45	SJ18 B19	100/40mm						
				-0.64		9.50	Boring complete at 9.50m BGL - continued by rotary drilling.	

Boring Progress and Water Observations					Chiselling		Water Added	General Remarks
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	
15/04/2020	9.50	8.80	200	Dry	8.70 - 9.00	1:00		(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					Instrument/ Backfill	
Depth & (Core Ø)	TCR (SCR) RQD	Fracture Index	Water	Reduced Level	Legend	Depth (Thickness)	Description		
							Discontinuity Detail		Main
9.50 (92mm)	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).	
10.00 (92mm)	0 (0) 0					(1.50)			
10.50 (92mm)	0 (0) 0								
11.00				-2.14		11.00	11.00-11.45m ... non-intact.	Extremely weak red brown MUDSTONE residual. (Recovered as sandy clay).	
	80 (35) 18	NI				(0.45)			
		12		-2.59		11.45	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							12.00-12.30m ... horizontal to subhorizontal (0-10 degrees) closely to very closely spaced undulating rough stained (brown) discontinuities.		
	100 (55) 44	12							
		NI				(2.15)	12.30-12.86m ... non-intact.		
13.00		12					12.86-13.60m ... horizontal to subhorizontal (0-10 degrees) closely to very closely spaced undulating rough stained (brown) discontinuities.		
	52 (52) 52								

Drilling Progress and Water Observations				Standard Penetration Test			Flush			General Remarks
Date	Depth	Casing	Water Standing	Depth	Type	Result	From - To	Type	Returns (%)	
04/05/2020	9.50	9.00	Dry				9.50 - 10.00	W	50	(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.
							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	

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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				Instrument/ Backfill	
Depth & (Core Ø)	TCR (SCR) RQD	Fracture Index	Water	Reduced Level	Legend	Depth (Thickness)	Description		
							Discontinuity Detail		Main
(92mm)		NR		-4.74		13.60	13.60-14.00m ... no recovery.	(1) Red MARL/SANDSTONE with gypsum.	
						(0.40)			
				-5.14		14.00	Complete at 14.00m BGL.		

Drilling Progress and Water Observations				Standard Penetration Test			Flush			General Remarks
Date	Depth	Casing	Water Standing	Depth	Type	Result	From - To	Type	Returns (%)	
04/05/2020	14.00	11.00	10.86							(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			STRATA					Instrument/ Backfill
Depth	Type No	Test Result	Water	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					(0.80)	MADE GROUND (Firm to stiff orange brown mottled grey and black slightly sandy clay. Strong hydrocarbon odour noted). (Possibly Natural Ground).	
0.50	J3	2.9ppm				(0.80)		
0.50-1.00	PID							
1.00	B4	12.8ppm		10.89		1.20		
1.00	ES5	(75)						
1.00	PID							
1.20-1.65	U6							
1.65	J7					(1.10)	Firm indistinctly laminated grey brown sandy slightly gravelly CLAY. Gravel is firm to coarse subangular to subrounded and includes sandstone. Strong hydrocarbon odour noted.	
1.70	ES8	27.6ppm						
1.70	PID	N15						
2.00-2.45	SJ9			9.79		2.30		
2.00-2.45	B10							
2.50	J11					(2.50)	Firm thinly laminated brown slightly sandy CLAY with fine yellow brown sandy on the laminae.	
2.50	J12	10.8ppm						
2.50	PID							
3.00-3.45	U13	(60)						
3.45	J14					(2.50)		
3.50	ES15	26.1ppm						
3.50	PID							
4.00-4.45	SJ16	N21						
4.00-4.45	B17							
4.50	J18			7.29		4.80		
5.00-5.45	U19	(90)				(0.50)	(1) Firm to stiff laminated red brown silty CLAY.	
5.00-5.45				6.79		5.30		
5.45	J20					(0.50)	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			6.29		5.80		
6.00-6.45	SJ22	100/110mm				(1.00)	Very weak dark blue grey MUDSTONE.	
6.00-6.45	B23							
6.50	SJ24	100/45mm		5.28		6.80		
Boring complete at 6.80m BGL - continued by rotary drilling.								

Boring Progress and Water Observations					Chiselling		Water Added	General Remarks
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	
23/04/2020	0.00	0.00	200		6.20 - 6.50	1:00		(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.
23/04/2020	6.80	5.80	200	Dry				

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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			STRATA					Instrument/ Backfill	
Depth & (Core Ø)	TCR (SCR) RQD	Fracture Index	Water	Reduced Level	Legend	Depth (Thickness)	Description		
							Discontinuity Detail		Main
6.80 (140mm)	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.	
7.30 (140mm)	100 (10) 0	15					7.30-7.55m ... non-intact. 7.30-8.70m ... horizontal to subhorizontal (0-10 degrees) closely to very closely spaced planar to undulating smooth locally stained (grey) discontinuities.		
7.80 (140mm)	100 (50) 10					(1.90)	7.64-7.68m ... non-intact. 7.70-7.85m ... non-intact.		
8.80 (140mm)	73 (54) 34	7		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.	Medium strong light grey SILTSTONE unweathered locally partially weathered.	
10.30 (140mm)	0 (0) 0	NR				(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. 9.90-10.80m ... no recovery.		
10.80 (140mm)	0 (0) 0								

Drilling Progress and Water Observations				Standard Penetration Test			Flush			General Remarks
Date	Depth	Casing	Water Standing	Depth	Type	Result	From - To	Type	Returns (%)	
30/04/2020	6.80	6.80	Dry				6.80 - 7.30	Water	80	(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.
							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	

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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: 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			STRATA				Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	
3.00 3.00-3.45 3.00 3.45	ES1 U2 PID J3	(35) <0.1ppm		6.30		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 is vesicular grey green.
				4.80		3.00	Firm indistinctly laminated orange brown mottled grey slightly sandy CLAY.
4.00 4.00-4.45	J4 B5			2.80		5.00	Firm thinly laminated brown slightly sandy CLAY with fine yellow brown sand on the laminae.
5.00-5.45 5.45	U6 J7	(45)		0.50		7.30	Soft to firm thinly laminated dark brown slightly sandy CLAY with fine yellow brown sand on the laminae.
6.00 6.50-6.95 6.50-6.95	J8 SJ9 B10	N13					Firm to stiff red brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular and includes sandstone, mudstone, siltstone and coal.
7.50	J11						

Boring Progress and Water Observations					Chiselling		Water Added	General Remarks
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	
20/04/2020	0.00	0.00	200					(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 between 16.80-20.80m BGL.
20/04/2020	5.00	4.80	200	Dry				
21/04/2020	5.00	4.80	200	4.36				

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			STRATA					Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	
8.00-8.45	U12	(75)				(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							
9.50-9.95	SJ15	N59						
9.50-9.95	B16							
10.50	J17							
11.00-11.45	U18	(100)						
11.45	J19							
12.00	J20							
12.50-12.95	SJ21	N98						
12.50-12.95	B22							
13.50	J23							
14.00-14.45	B25	100/220mm						
14.00	SJ24							
14.50	J26							
15.00-15.45	B28	100/70mm						
15.00	SJ27							
15.50	SJ29	100/50mm						
15.80-16.30	C30						Boring complete at 15.80m BGL - continued by rotary drilling.	

Boring Progress and Water Observations					Chiselling		Water Added	General Remarks
Date	Depth	Casing	Casing Dia (mm)	Water Standing	From - To	Duration (hh:mm)	From - To	
21/04/2020	13.00	12.80	200	Dry	13.00 - 15.50	6:00		(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 between 16.80-20.80m BGL.
22/04/2020	13.00	12.80	200	6.74				
22/04/2020	15.80	15.30	200	7.39				

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				Instrument/ Backfill	
Depth & (Core Ø)	TCR (SCR) RQD	Fracture Index	Water	Reduced Level	Legend	Depth (Thickness)	Description		
							Discontinuity Detail		Main
15.80 (92mm)	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)	0 (0) 0					(1.20)			
16.80 (92mm)	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.	
17.80 (92mm)	100 (37) 23	10					17.60-17.90m ... non-intact.		
17.80 (92mm)		NI					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.		
17.80 (92mm)		10					18.40-18.70m ... non-intact.		
19.30 (92mm)	67 (35) 27	NR				(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							19.30-19.80m ... no recovery.		

Drilling Progress and Water Observations				Standard Penetration Test			Flush			General Remarks
Date	Depth	Casing	Water Standing	Depth	Type	Result	From - To	Type	Returns (%)	
01/05/2020	15.80	15.80	14.28				15.80 - 16.30	W	100	(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 between 16.80-20.80m BGL.
01/05/2020	19.30	15.80	12.37				16.30 - 16.80	W	100	
04/05/2020	19.30	15.80					16.80 - 17.80	W	100	
							17.80 - 19.30	W	100	
							19.30 - 20.80	W	100	

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					Instrument/ Backfill	
Depth & (Core Ø)	TCR (SCR) RQD	Fracture Index	Water	Reduced Level	Legend	Depth (Thickness)	Description		
							Discontinuity Detail		Main
(92mm)		10		-13.00	[Legend symbols]	19.80-20.06m ... non-intact.	Moderately weak to strong red brown MUDSTONE partially weathered, locally destructured, with many interbeds of gypsum. (continued)	[Backfill symbols]	
						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.			
							Complete at 20.80m BGL.		

Drilling Progress and Water Observations				Standard Penetration Test			Flush			General Remarks
Date	Depth	Casing	Water Standing	Depth	Type	Result	From - To	Type	Returns (%)	
04/05/2020	20.80	15.80	15.20							(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 between 16.80-20.80m 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



Trial Pit Records



Trial Pit Summary Table

Exploratory Hole Number	Excavation Method	Completion Depth (m BGL)	Remarks
PRAIRIE_AUK_TP101	Machine excavated	4.50	Advanced to required depth.
PRAIRIE_AUK_TP102	Machine excavated	4.30	Advanced to required depth
PRAIRIE_AUK_TP103	Machine excavated	1.70	Terminated due to close proximity to sewer.
PRAIRIE_AUK_TP104	Machine excavated	4.00	Advanced to required depth.
PRAIRIE_AUK_TP105	Machine excavated	4.40	Continued as PRAIRIE_AUK_BH104. Terminated due to slow progress.
PRAIRIE_AUK_TP106	Machine excavated	3.50	Advanced to required depth.
PRAIRIE_AUK_TP107	Machine excavated	3.00	Continued as BH103. Advanced to required depth.
PRAIRIE_AUK_TP108	Machine excavated	4.00	Terminated due to possible concrete.
PRAIRIE_AUK_TP109	Machine excavated	3.10	Advanced to required depth.
PRAIRIE_AUK_TP110	Machine excavated	4.50	Advanced to required depth.
PRAIRIE_AUK_TP111	Machine excavated	3.20	Advanced to required depth.
PRAIRIE_AUK_TP112	Machine excavated	3.40	Advanced to required depth.
PRAIRIE_AUK_TP113	Machine excavated	3.80	Terminated due to concrete plinth and groundwater ingress.
PRAIRIE_AUK_TP114	Machine excavated	2.00	Terminated due to water ingress and instability.
PRAIRIE_AUK_TP115	Machine excavated	3.10	Terminated due to water ingress.
PRAIRIE_AUK_TP116	Machine excavated	3.90	Advanced to required depth.
PRAIRIE_AUK_TP117	Machine excavated	3.30	Terminated due to instability.
PRAIRIE_AUK_TP118	Machine excavated	3.00	Advanced to required depth.
PRAIRIE_AUK_TP119	Machine excavated	3.20	Advanced to required depth.
PRAIRIE_AUK_TP120	Machine excavated	1.50	Terminated due to concrete obstruction.
PRAIRIE_AUK_TP120A	Machine excavated	2.90	Advanced to required depth.
PRAIRIE_AUK_TP121	Machine excavated	4.50	Continued as PRAIRIE_AUK_BH102.
PRAIRIE_AUK_TP122	Machine excavated	1.20	Terminated due to fast water ingress.
PRAIRIE_AUK_TP123	Machine excavated	2.80	Terminated due to brick structure.
PRAIRIE_AUK_TP124	Machine excavated	3.00	Advanced to required depth.
PRAIRIE_AUK_TP125	Machine excavated	0.20	Terminated due to concrete obstruction.
PRAIRIE_AUK_TP125A	Machine excavated	1.20	Terminated due to concrete base.
PRAIRIE_AUK_TP126	Machine excavated	2.70	Terminated due to concrete obstruction.
PRAIRIE_AUK_TP127	Machine excavated	1.70	Terminated due to concrete
PRAIRIE_AUK_TP127A	Machine excavated	3.00	Continued as PRAIRIE_AUK_BH101.
PRAIRIE_AUK_TP128	Machine excavated	1.10	Terminated due to services.



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



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



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





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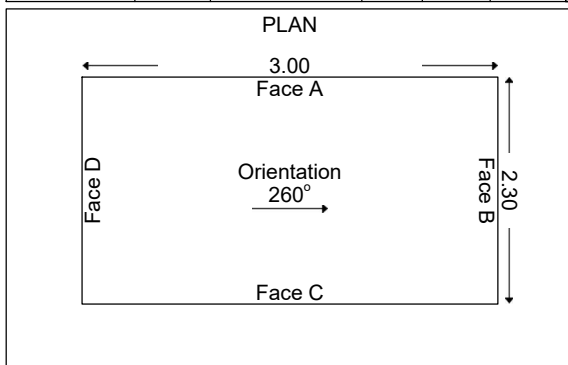
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TRIAL PIT RECORD

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			STRATA					
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	
0.10 0.20	J1 B2		Water	8.56	[Cross-hatch pattern]	0.30	MADE GROUND (Black sandy gravel. Gravel is fine to coarse subangular to subrounded and includes roadstone and concrete).	
0.60	J3							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).
0.90 1.00 1.00	B4 PID ES5	<0.1ppm					(1.50)	
1.80 1.80 1.80 2.10 2.20 2.20 2.50	HSV J6 B7 J8 PID ES9 J10	68 (32)kPa <0.1ppm		Water	7.06	[Cross-hatch pattern]	1.80	
					6.86		2.00	MADE GROUND (Firm grey mottled brown slightly sandy clay).
2.80 3.00	HSV B11	53 (22)kPa			6.56	[Horizontal line pattern]	2.30	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). Firm grey mottled brown slightly sandy CLAY.
3.50	J12						(2.00)	
4.00	B13				4.56		4.30	
4.40 4.40 4.50	HSV J14 B15	47 (18)kPa			4.36		4.50	Firm grey black slightly sandy CLAY with many partially decomposed plant remains. Organic odour noted. <i>Complete at 4.50m BGL.</i>



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
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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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TRIAL PIT RECORD

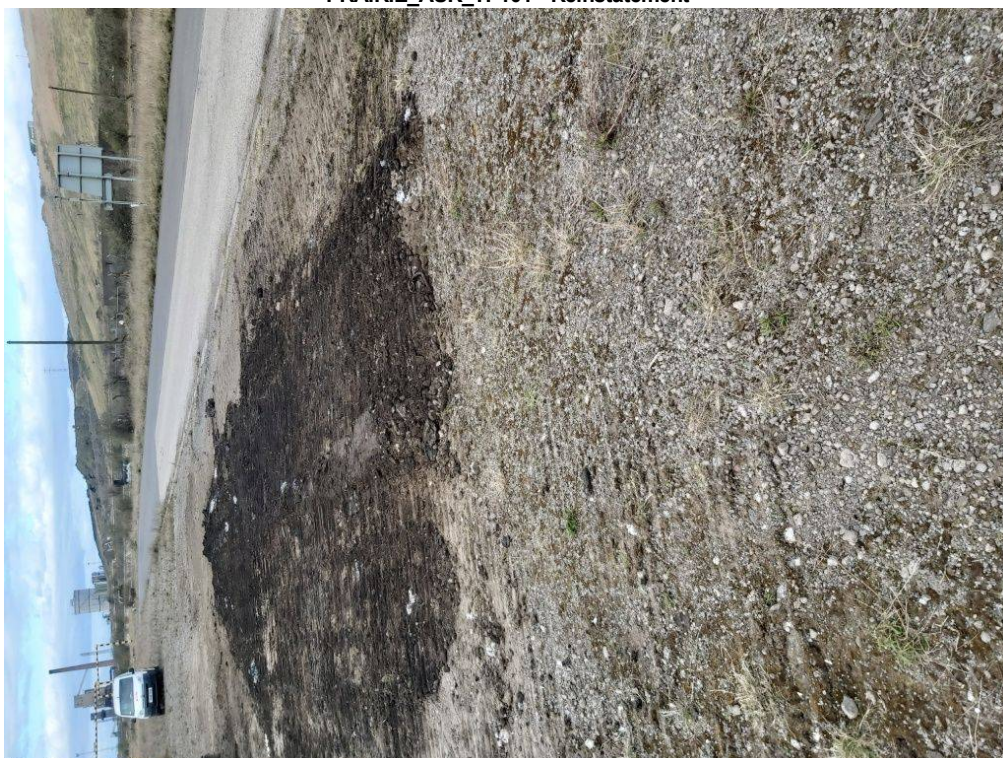
Status:-
PRELIM3

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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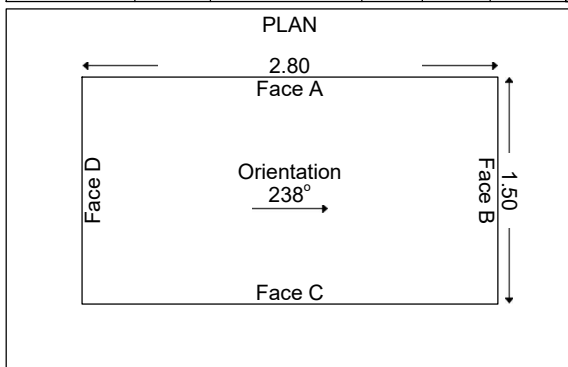
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TRIAL PIT RECORD

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: 1 of 3	

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.10 0.20	J1 B2			8.33		0.30	MADE GROUND (Grass over topsoil).
0.50 0.50	J3 PID	<0.1ppm				(1.00)	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).
1.00 1.00 1.00	ES4 B5 PID	<0.1ppm		7.33		1.30	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 1.50	J6 PID	0.1ppm					between c. 2.50-3.50m BGL ... wet clay with rancid stale water odour noted.
2.00 2.00 2.00	ES7 B8 PID	0.1ppm					
2.50 2.50	J9 PID	0.2ppm				(3.00)	
3.00 3.00 3.00	B10 ES11 PID	0.4ppm					
3.50 3.50	J12 PID	0.7ppm					
4.00	B13			4.33		4.30	at c.4.00m BGL ... whole glass bottle.
							Complete at 4.30m BGL.



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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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: 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





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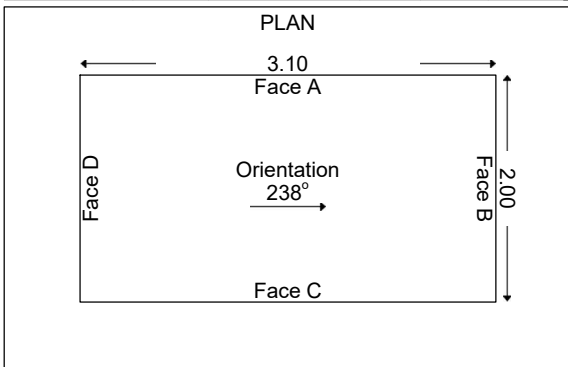
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TRIAL PIT RECORD

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 4	

SAMPLES & TESTS			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
0.50 0.50 0.80 1.00 1.00	J1 PID B2 ES3 PID	<0.1ppm <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).
1.50 1.50 1.70	J4 PID J5	<0.1ppm		5.99		at c.1.70m BGL ... yellow brown sand. Terminated at 1.70m BGL - due to close proximity to sewer.



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 4

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 4

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

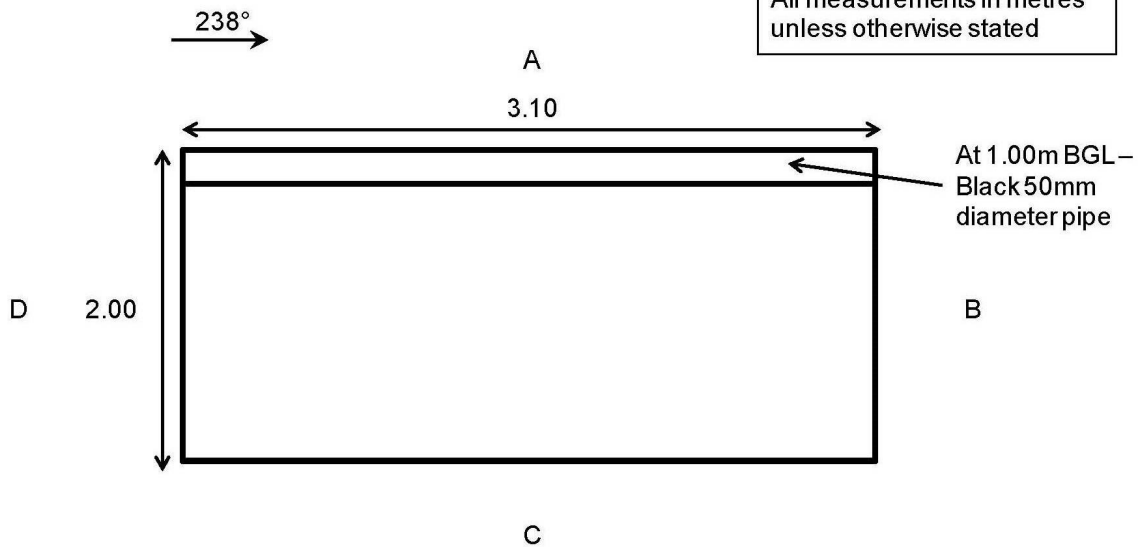
Project: Prairie Site Ground Investigation Works		Exploratory Hole No. PRAIRIE_AUK_TP103	
Client: South Tees Development Corporation	Location: E:454951.742 N:521784.855		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 7.692	Start Date: 21/04/2020	Sheet: 4 of 4

Figure PRAIRIE_AUK_TP103.5
PRAIRIE_AUK_TP103 Sketch

PLAN VIEW

Not to scale

All measurements in metres
unless otherwise stated





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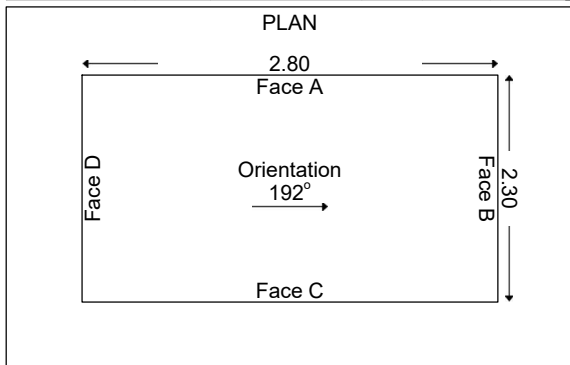
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TRIAL PIT RECORD

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



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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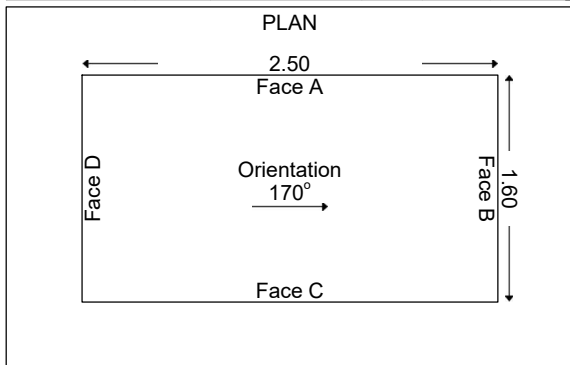
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	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).
0.80	J1			8.10		0.60	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	
1.80	J4						MADE GROUND (Firm brown slightly sandy slightly gravelly clay with low cobble content. Gravel is fine to coarse subangular and includes sandstone, mudstone, slag and red brick. Cobbles are subangular and include red brick and slag. Slag content is 0-25%. Slag is vesicular grey green white). at c.2.00m BGL ... engineer notes red brick dust coating on clay. from c.3.50m BGL ... becoming yellow brown gravelly.
2.00	HSV	60 (20)kPa					
2.00	B5						
2.50	PID	<0.1ppm					
2.80	ES6					(2.70)	
3.00	HSV	64 (24)kPa					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. Slag content is 0-25%. Slag is vesicular grey green white. Organic odour noted). <i>Terminated at 4.40m BGL - due to slow progress.</i>
3.00	B7						
3.80	J8			4.50		4.20	
4.20	J9						
4.30	B10			4.30		4.40	



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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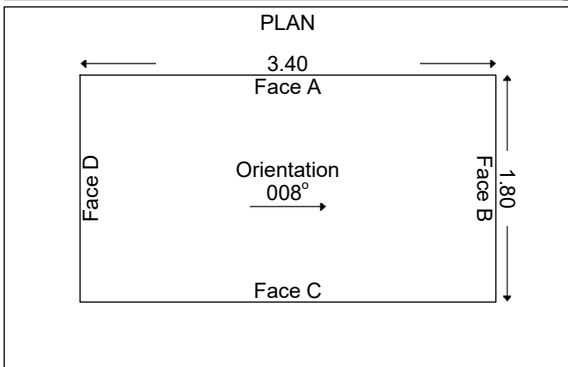
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TRIAL PIT RECORD

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			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
0.50 0.50	J1 PID	<0.1ppm			(1.80)	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. Slag content is 0-25%. Slag is vesicular grey green white).
1.00 1.00	B2 ES3 PID	<0.1ppm				
1.50 1.50	J4 PID	<0.1ppm		6.09	1.80	
2.00 2.00	B5 HSV	70 (26)kPa			(1.00)	Firm and stiff yellow brown mottled grey slightly sandy CLAY.
2.50 2.50	J6 PID	<0.1ppm		5.09	2.80	
3.00 3.00	B7 HSV	130 kPa			(0.70)	Stiff to very stiff orange slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular and includes sandstone, mudstone, coal and siltstone.
3.50 3.50	J8 PID	<0.1ppm		4.39	3.50	Complete at 3.50m BGL.



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. 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: 2 of 3

Figure PRAIRIE_AUK_TP106.1
PRAIRIE_AUK_TP106



Figure PRAIRIE_AUK_TP106.2
PRAIRIE_AUK_TP106





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Tel: 01772 735 300 Fax: 01772 735 999

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





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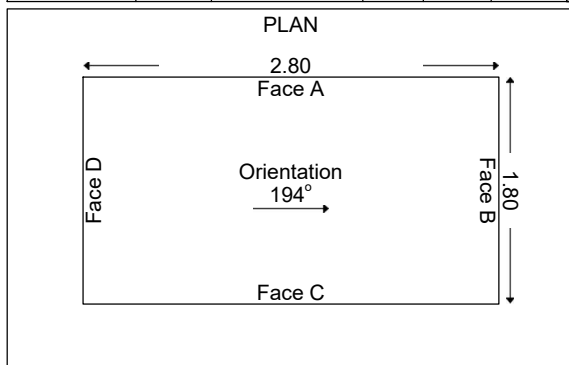
Tel: 0191 387 4700 Fax: 0191 387 4710
 Tel: 01772 735 300 Fax: 01772 735 999

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: 1 of 3	

SAMPLES & TESTS			STRATA						
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description		
0.05 0.05	J1 B2			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).		
0.50	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 0.80 1.00 1.00	PID ES11 HSV B4	<0.1ppm 72 (34)kPa				6.08		1.60	
1.70 1.80 1.80 2.00	J5 PID ES6 B7	<0.1ppm				5.58		2.10	MADE GROUND (Black gravelly sand with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse subangular and includes ash, macadam, coke and slag. Slag content is 25-50%. Slag is iron rich in places (rust). Cobbles are subangular and include fused coke).
2.30 2.50 2.50 2.80 2.80	J8 HSV B9 PID ES10	67 (34)kPa <0.1ppm				4.68		3.00	Firm to stiff grey brown slightly sandy CLAY.
							Complete at 3.00m BGL.		



GROUNDWATER
 Water strike 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





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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: 3 of 3

Figure PRAIRIE_AUK_TP107.3
PRAIRIE_AUK_TP107 - Spoil





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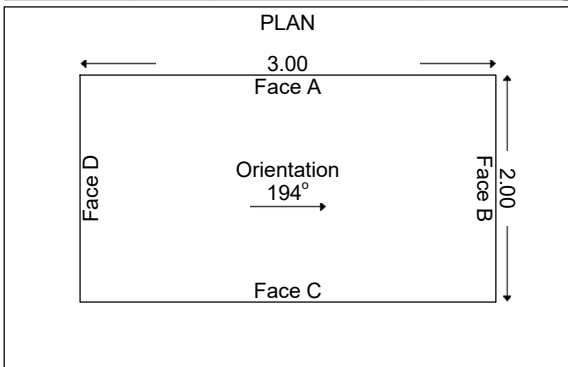
Tel: 0191 387 4700 Fax: 0191 387 4710
 Tel: 01772 735 300 Fax: 01772 735 999

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: 1 of 3	

SAMPLES & TESTS			STRATA					
Depth	Type No	Test Result	Water	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	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).	
0.80	J3	<0.1ppm				1.20	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.	
0.90	B4							
1.00	PID							
1.00	ES5							
1.80	J6	1.7ppm				2.80	at c.3.00m BGL ... oily sheen noted.	
1.90	B7							
2.00	PID							
2.00	ES8							
2.80	J9	0.6ppm			3.99	at c.4.00m BGL ... engineer notes possible concrete. <i>Terminated at 4.00m BGL - due to possible concrete.</i>		
2.90	B10							
3.00	PID							
3.00	ES11							



GROUNDWATER
 Water strike 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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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





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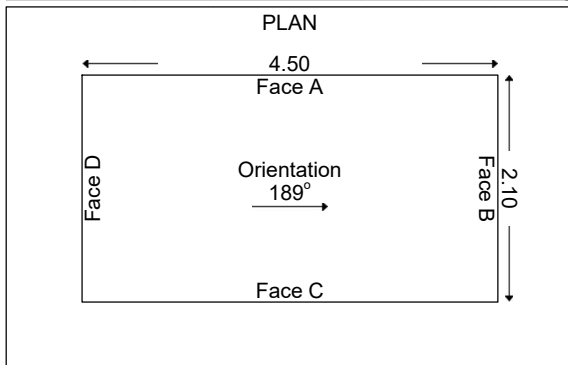
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TRIAL PIT RECORD

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			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
0.50 0.50	J1 PID	<0.1ppm			[Cross-hatched pattern]	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). (1.80)
1.00 1.00	B2 ES3 PID	0.1ppm				
1.50 1.50 1.70	J4 PID B5	0.1ppm		7.36	[Horizontal line pattern]	Firm to stiff indistinctly laminated orange brown mottled grey slightly sandy CLAY. between c.1.80-1.85m BGL ... possible relict topsoil (plant material). (1.30)
2.00 2.00 2.00	J6 HSV PID	82 (40)kPa <0.1ppm				
2.70	B7					
3.00 3.00 3.00	J8 HSV PID	103 (40)kPa <0.1ppm		6.06		Complete at 3.10m BGL.



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





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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: 3 of 3

Figure PRAIRIE_AUK_TP109.3
PRAIRIE_AUK_TP109 - Spoil





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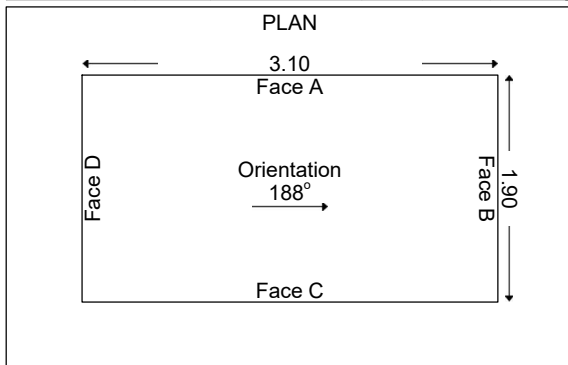
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TRIAL PIT RECORD

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: 1 of 3	

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description	
0.50 0.50	J1 PID	<0.1ppm	Water		Legend	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).	
1.00 1.00	B2 ES3 PID	<0.1ppm		(2.10)			from c. 1.50m BGL ... slightly sandy.
1.50 1.50	J4 PID	<0.1ppm					
2.00	B5			6.76		2.10	
2.50 2.50	J6 PID	0.3ppm					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).
2.80	ES7						
3.00 3.00	B8 HSV PID	59 (18)kPa 0.2ppm				(2.40)	
3.50 3.50	J9 PID	<0.1ppm					
4.00 4.00	B10 ES11 HSV PID	49 (12)kPa <0.1ppm				4.36	4.50
4.50 4.50	J12 PID	0.1ppm					Complete at 4.50m BGL.



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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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





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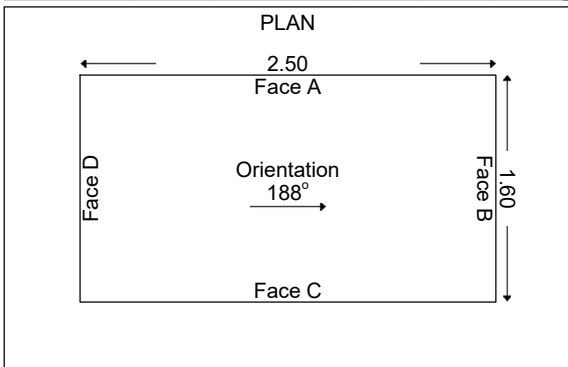
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.40 0.40 0.60	J1 PID B2	<0.1ppm		7.45		0.80	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. Slag content is 0-25%. Slag is vesicular grey green white).
1.00 1.00	J3 PID	0.1ppm				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. Slag content is 0-25%. Slag is vesicular grey green white).
1.50 1.50 1.60	ES4 PID B5	0.2ppm		6.25		2.00	Firm to stiff orange brown mottled grey slightly sandy CLAY.
2.00 2.00	J6 PID	<0.1ppm					
2.50 2.60	HSV B7	70 (30)kPa				1.20	
3.00 3.00 3.00	J8 HSV PID	101 (32)kPa <0.1ppm		5.05		3.20	Complete at 3.20m BGL.



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_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





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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: 3 of 3

Figure PRAIRIE_AUK_TP111.3
PRAIRIE_AUK_TP111 - Spoil





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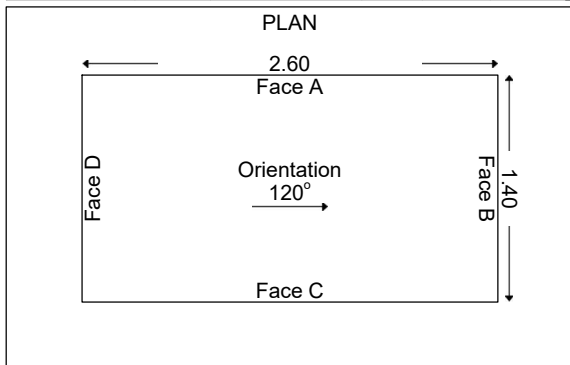
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.50 0.50 0.70	J1 PID B2	<0.1ppm		8.10		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. Slag content is 0-25%. Slag is vesicular grey green white).
1.00 1.00	J3 PID	<0.1ppm		7.00		1.90	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. Slag content is 0-25%. Slag is vesicular grey green white).
1.50 1.50 1.70	ES4 PID B5	<0.1ppm		6.50		2.40	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 2.00	J6 PID	0.5ppm		6.20		2.70	Firm orange brown mottled grey slightly sandy CLAY.
2.10 2.10	ES7 PID	0.9ppm		5.50		3.40	Soft to firm orange mottled brown sandy SILT/CLAY.
2.30 2.30	B8	76 (38)kPa					
2.50 2.50	HSV J9						
2.70 2.70	PID J10	<0.1ppm					
3.00 3.00	PID	<0.1ppm					
3.10 3.10	HSV B11	56 (24)kPa					
3.20							
							Complete at 3.40m BGL.



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





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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





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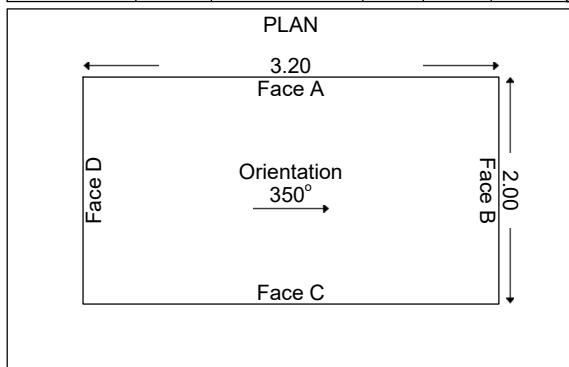
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TRIAL PIT RECORD

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 4	

SAMPLES & TESTS			Water	STRATA		
Depth	Type No	Test Result		Reduced Level	Legend	Description
0.05	J1			8.06		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					
1.30	PID	<0.1ppm				
1.30	ES5					
1.80	B6					from c. 1.30m BGL ... high cobble and boulder content. Cobbles and boulders are subangular and include concrete, brick and partially fused slag.
1.80						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.
2.50	J7				5.86	MADE GROUND (Firm orange brown slightly sandy clay). (Possibly Natural Ground).
2.80	B8					from c. 2.90m BGL ... Face A: slag or concrete plinth/ledge.
3.50	HSV	54 (20)kPa				Firm indistinctly laminated orange brown sandy CLAY with some silty sand lenses with some fine sand on lamination surfaces.
3.50	J9				5.16	
3.80	B10			4.36	Terminated at 3.80m BGL - due to concrete plinth and groundwater ingress.	



GROUNDWATER
 Water strike 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 4

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.	
Client: South Tees Development Corporation	Location: E:454694.546 N:521566.242		PRAIRIE_AUK_TP113
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 8.160	Start Date: 06/04/2020	

Figure PRAIRIE_AUK_TP113.3
PRAIRIE_AUK_TP113 - Spoil



Figure PRAIRIE_AUK_TP113.4
PRAIRIE_AUK_TP113 - Reinstatement





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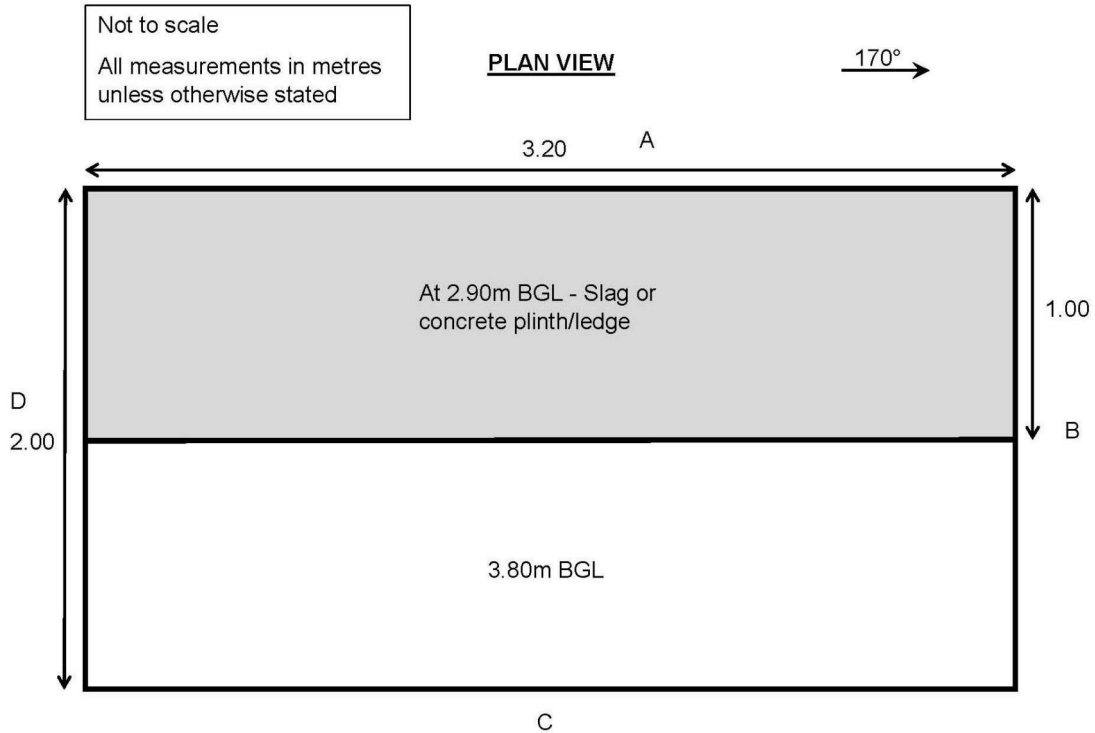
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TRIAL PIT RECORD

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: 4 of 4

Figure PRAIRIE_AUK_TP113.5
PRAIRIE_AUK_TP113 Sketch





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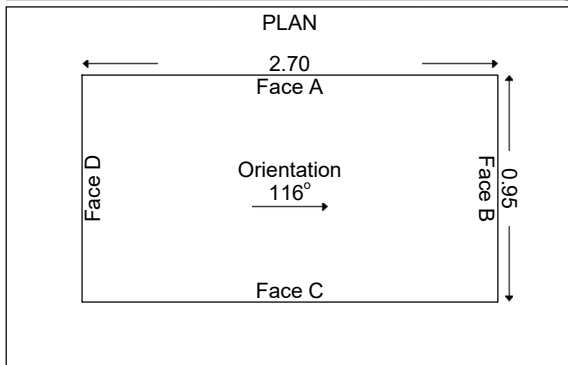
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TRIAL PIT RECORD

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 4	

SAMPLES & TESTS			Water	STRATA		
Depth	Type No	Test Result		Reduced Level	Legend	Description
0.10	J1			7.61	[Cross-hatched pattern]	0.15 MADE GROUND (Grass over brown sandy topsoil).
0.10	B2					1.85 2.00
0.30	J3					
0.40	B4					
0.50	ES5					
0.50	PID	7.2ppm				
0.90	ES6					
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.						



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

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 4

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 4

Figure PRAIRIE_AUK_TP114.3
PRAIRIE_AUK_TP114 - Spoil



Figure PRAIRIE_AUK_TP114.4
PRAIRIE_AUK_TP114 - Reinstatement





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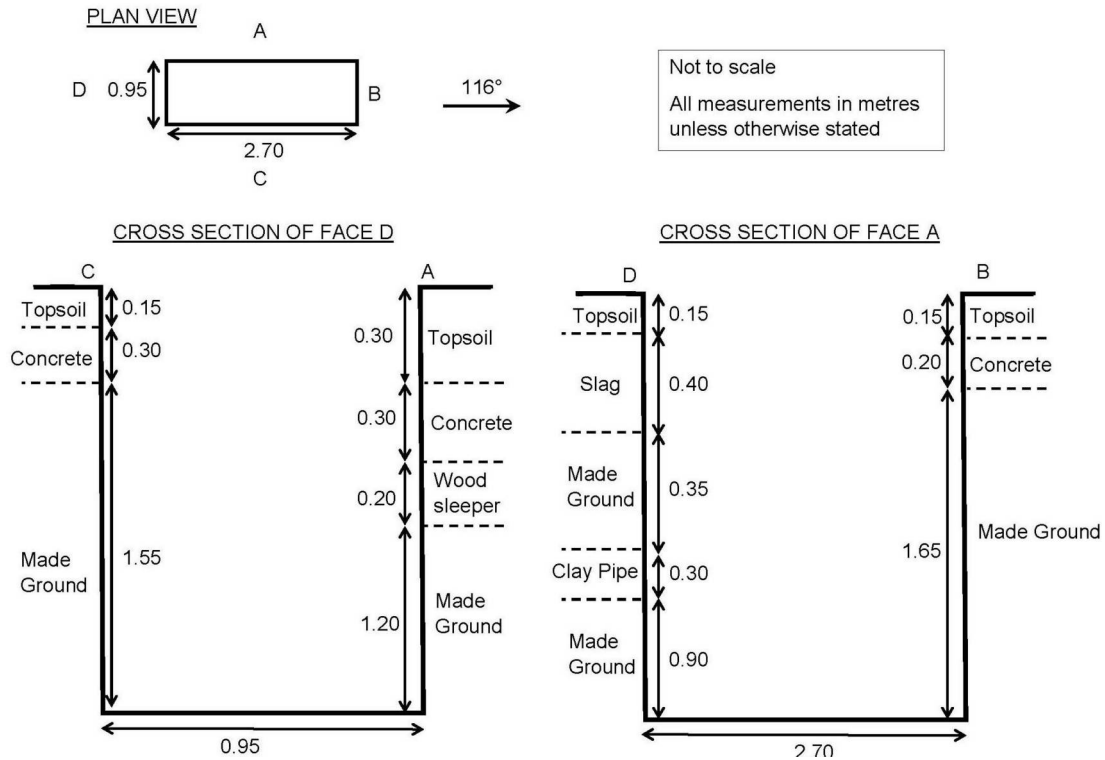
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TRIAL PIT RECORD

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: 4 of 4

Figure PRAIRIE_AUK_TP114.5
PRAIRIE_AUK_TP114 Sketch





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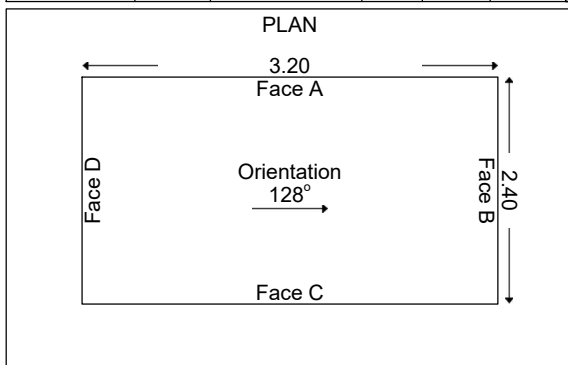
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TRIAL PIT RECORD

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 5	

SAMPLES & TESTS			STRATA					
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	
0.30	J1		↓ Water	7.44	[Cross-hatched pattern]	0.40	MADE GROUND (Dark brown sandy topsoil).	
0.30	B2						0.80	MADE GROUND (Yellow grey refractory bricks). from c.0.40m BGL ... Face D: concrete wall.
0.50	W9						1.20	
0.80	B3					6.64		
1.40	J4						1.90	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). between 1.20-3.10m BGL ... Face B: firm indistinctly laminated grey sandy silt/clay.
1.70	B5						3.10	
1.90	PID	<0.1ppm						
1.90	ES6							
2.00	HSV	25 (8)kPa						
2.40	J7							
2.70	B8			4.74			Terminated at 3.10m BGL - due to water ingress.	



GROUNDWATER
 Water strike at 0.30m BGL.

STABILITY
 Side A unstable from c.0.40m BGL.

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

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

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:454493.054 N:521548.834		PRAIRIE_AUK_TP115
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 7.843	Start Date: 08/04/2020	

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.	
Client: South Tees Development Corporation	Location: E:454493.054 N:521548.834		PRAIRIE_AUK_TP115
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 7.843	Start Date: 08/04/2020	

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.	
Client: South Tees Development Corporation	Location: E:454493.054 N:521548.834		PRAIRIE_AUK_TP115
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 7.843	Start Date: 08/04/2020	Sheet: 4 of 5

Figure PRAIRIE_AUK_TP115.5
 PRAIRIE_AUK_TP115 Sketch

CROSS SECTION OF FACE A

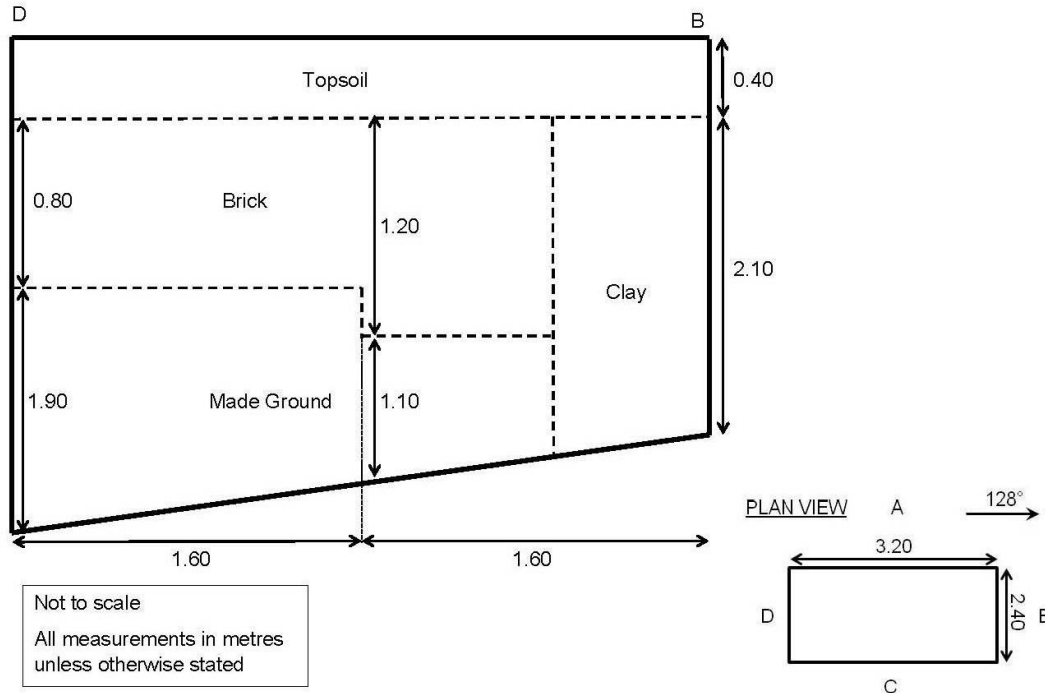
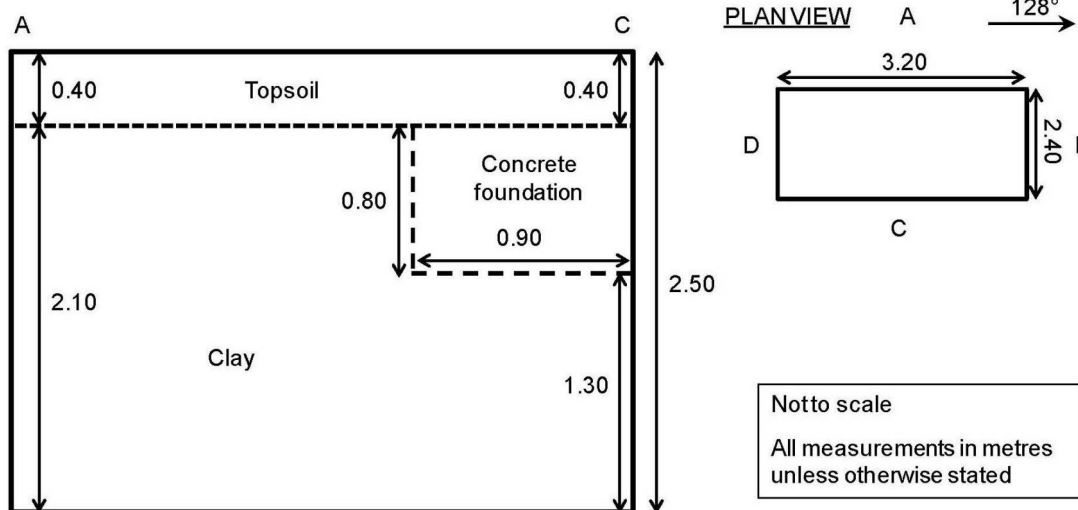


Figure PRAIRIE_AUK_TP115.6
 PRAIRIE_AUK_TP115 Sketch

CROSS SECTION OF FACE B





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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: 5 of 5

Figure PRAIRIE_AUK_TP115.7
PRAIRIE_AUK_TP115 Sketch

CROSS SECTION OF FACE C

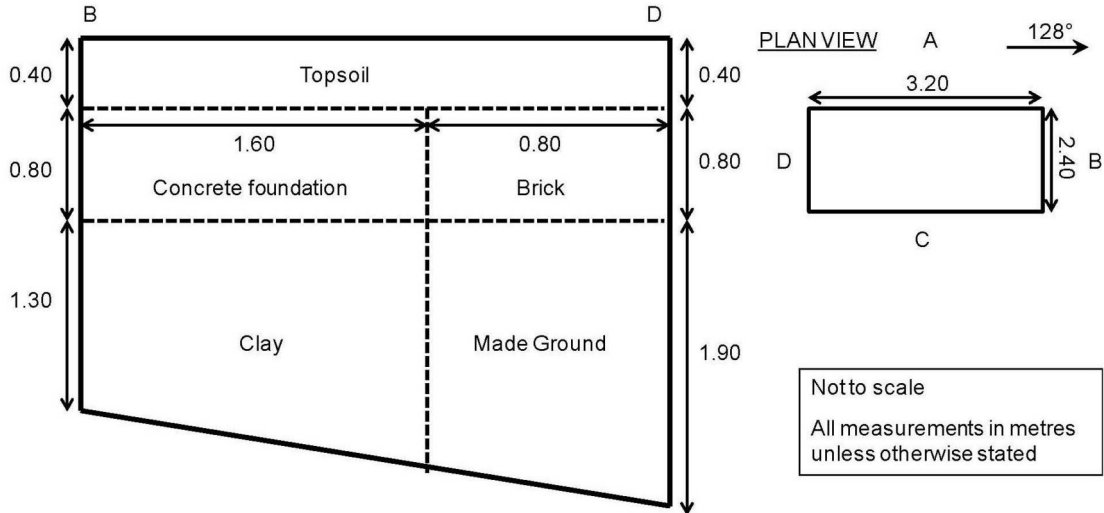
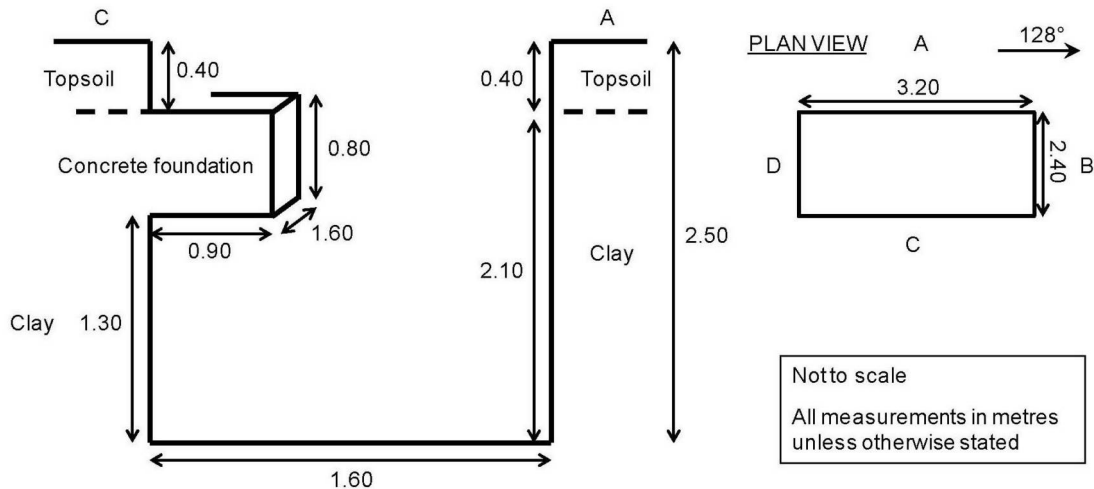


Figure PRAIRIE_AUK_TP115.8
PRAIRIE_AUK_TP115 Sketch

CROSS SECTION OF FACE D





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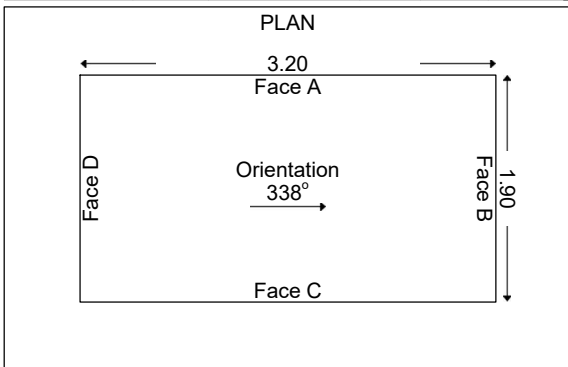
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TRIAL PIT RECORD

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



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_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: 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.	
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	

Figure PRAIRIE_AUK_TP116.3
PRAIRIE_AUK_TP116 - Spoil





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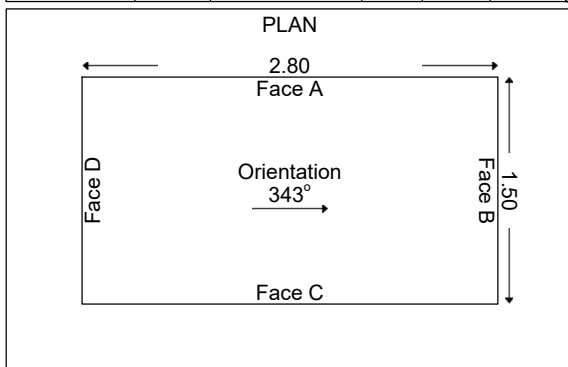
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TRIAL PIT RECORD

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			STRATA							
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description				
0.50 0.50	J1 PID	9.1ppm				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).				
1.00 1.20	B2 ES3 PID	10.4ppm					(2.60)			
1.20 1.50	J4									
2.00 2.00	B5 PID	9.6ppm								
2.50 2.50	J6						6.05			
2.50 2.80	J7						(0.70)			
3.00 3.00	ES8 PID	11.1ppm					5.35			
3.00 3.20	B9						3.30			
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 red brick, slag and concrete. Slag content is 75-100%. Slag is vesicular grey green white). <i>Terminated at 3.30m BGL - due to instability.</i>										



GROUNDWATER
 Groundwater seepage at 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





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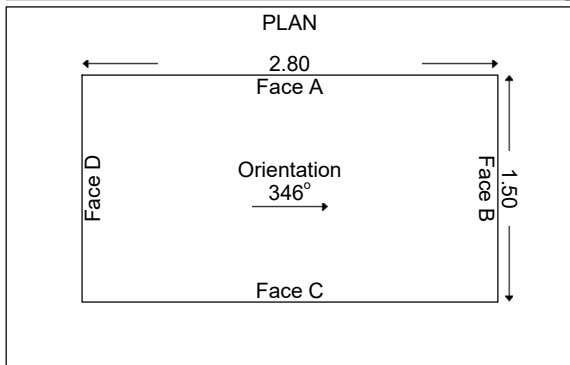
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description	
0.50	J1			8.48		MADE GROUND (Grass over topsoil).	
0.50	PID	0.2ppm				(1.30)	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. Slag content is 0-25%. Slag is vesicular grey green white).
1.00	B2						
1.20	ES3				7.18		Firm black brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular and includes mudstone. Organic odour noted.
1.20	PID	<0.1ppm					(Possible Made Ground).
1.50	J4				6.88		Firm orange brown mottled grey slightly sandy CLAY.
1.60	B5						
1.60	HSV	68 (42)kPa					
1.60	PID	<0.1ppm					
2.20	J6						
2.20	PID	<0.1ppm					
2.50	B7						
2.60	HSV	82 (40)kPa					
				5.58		Complete at 3.00m BGL.	



GROUNDWATER
 Groundwater seepage 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.	
Client: South Tees Development Corporation	Location: E:454893.854 N:521502.578		PRAIRIE_AUK_TP118
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 8.581	Start Date: 23/04/2020	

Figure PRAIRIE_AUK_TP118.3
PRAIRIE_AUK_TP118 - Spoil





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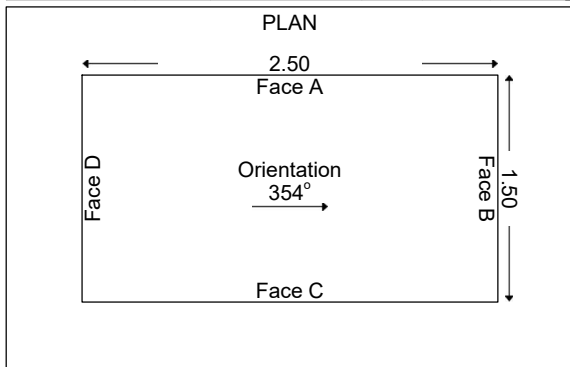
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TRIAL PIT RECORD

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	Description
0.50 0.50	J1 PID	<0.1ppm		8.83		0.10 MADE GROUND (Black macadam). 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).
1.00 1.00	B2 PID	<0.1ppm				(2.10)
1.50 1.50 1.50	ES3 J4 PID	<0.1ppm				
2.00 2.00	B5 PID	<0.1ppm	↓	6.73		2.20 from c. 1.50m BGL ... gravelly sand.
2.50 2.50 2.50 2.50 3.00 3.00	J6 ES7 HSV PID B8 HSV	47 (20)kPa <0.1ppm 65 (22)kPa				(1.00) Firm orange brown mottled grey slightly sandy CLAY.
				5.73		3.20 Complete at 3.20m BGL.



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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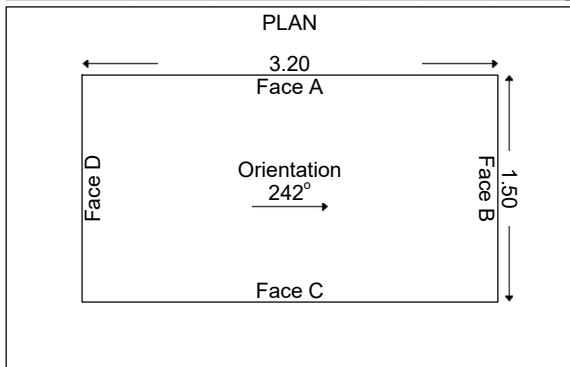
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TRIAL PIT RECORD

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			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
0.50 0.50 0.80 1.00 1.00 1.50 1.50	J1 PID B2 ES3 PID J4 PID	<0.1ppm <0.1ppm		6.50		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. Slag content is 0-25%. Slag is vesicular grey green white). at c.1.50m BGL ... concrete. <i>Terminated at 1.50m BGL - due to concrete obstruction.</i>



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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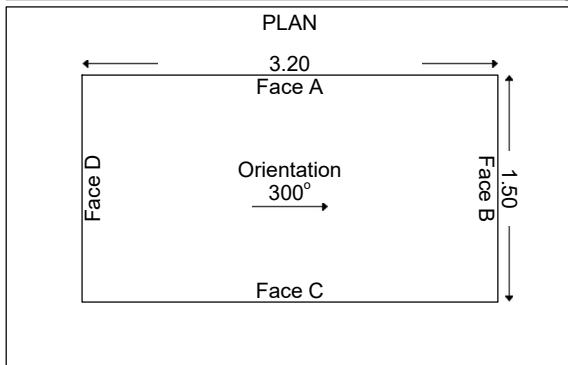
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TRIAL PIT RECORD

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			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
0.50 0.50 0.80 1.00 1.00	J1 PID B2 ES3 PID	<0.1ppm	↓	6.58		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. Slag content is 0-25%. Slag is vesicular grey green white). (1.30)
1.50 1.50 1.50 1.80	J4 HSV PID B5	62 (22)kPa <0.1ppm		5.88		Soft to firm yellow brown mottled grey sandy CLAY. (0.70)
2.50 2.50 2.50 2.80	J6 HSV PID B7	74 (18)kPa <0.1ppm		4.98		Firm to stiff thinly laminated orange brown mottled grey slightly sandy CLAY with fine yellow brown sand on the laminae. (0.90)
Complete at 2.90m BGL.						
(Vertical scale markings from 0 to 2.90m)						



GROUNDWATER
 Water strike 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.	
Client: South Tees Development Corporation	Location: E:454697.765 N:521513.778		PRAIRIE_AUK_TP120A
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 7.878	Start Date: 20/04/2020	

Figure PRAIRIE_AUK_TP120A.1
PRAIRIE_AUK_TP120A



Figure PRAIRIE_AUK_TP120A.2
PRAIRIE_AUK_TP120A





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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:454697.765 N:521513.778		PRAIRIE_AUK_TP120A
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 7.878	Start Date: 20/04/2020	

Figure PRAIRIE_AUK_TP120A.3
PRAIRIE_AUK_TP120A - Spoil





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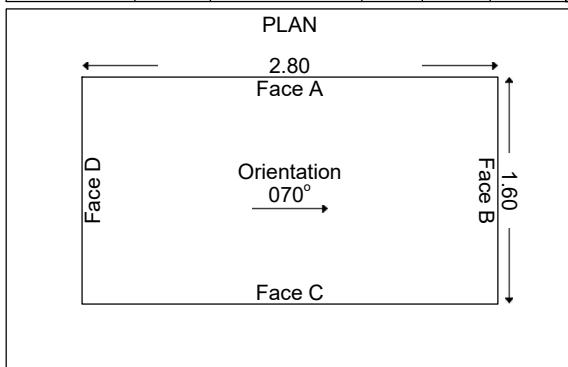
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TRIAL PIT RECORD

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			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
0.40	J1		↓ Water		(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. Slag content is 0-25%. Slag is vesicular grey green white).
0.80	B2			7.31	0.90	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.
1.20	J3					
1.50	PID	<0.1ppm				
1.50	ES4					
1.80	B5					
2.20	J6					
2.80	B7					(3.60)
3.20	J8					
3.80	B9					
4.20	J10					
4.50	B11		3.71	4.50	Complete at 4.50m BGL.	



GROUNDWATER
 Water 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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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	

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. 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: 3 of 3

Figure PRAIRIE_AUK_TP121.3
PRAIRIE_AUK_TP121 - Spoil





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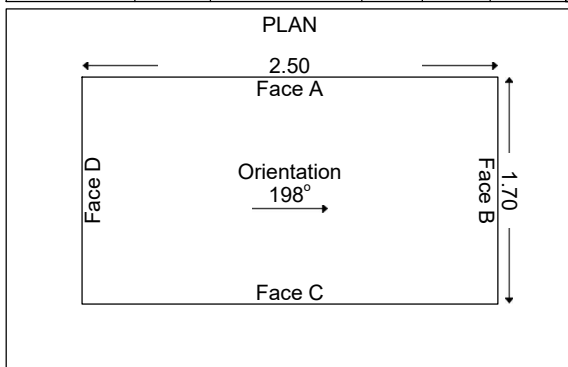
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TRIAL PIT RECORD

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			STRATA					
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	
0.40	J1					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. Slag content is 0-25%. Slag is vesicular grey green white. Slight hydrocarbon odour noted).	
0.80	B2							
1.00	PID	<0.1ppm			6.60		1.20	<i>Terminated at 1.20m BGL - due to fast water ingress.</i>
1.00	ES3							



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

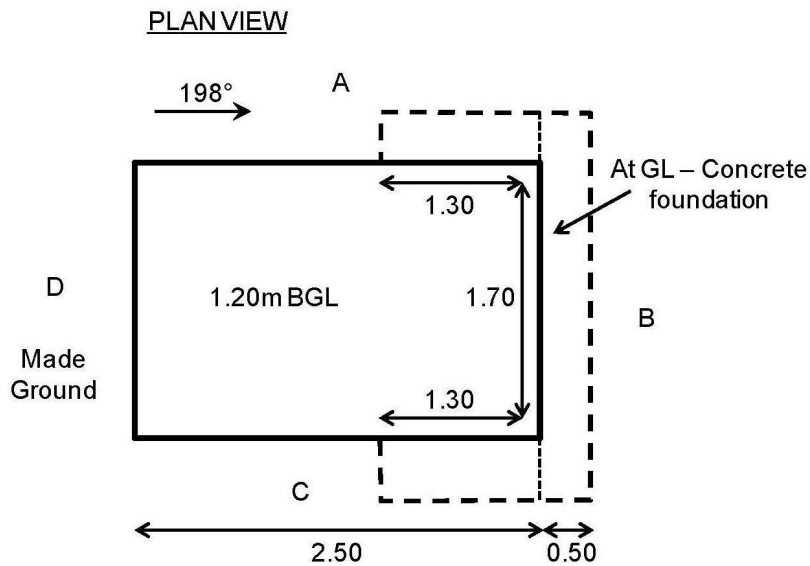
Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No.	
Client: South Tees Development Corporation	Location: E:454506.312 N:521498.464		PRAIRIE_AUK_TP122
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



Figure PRAIRIE_AUK_TP122.4
 PRAIRIE_AUK_TP122 Sketch



Notto scale
 All measurements in metres
 unless otherwise stated



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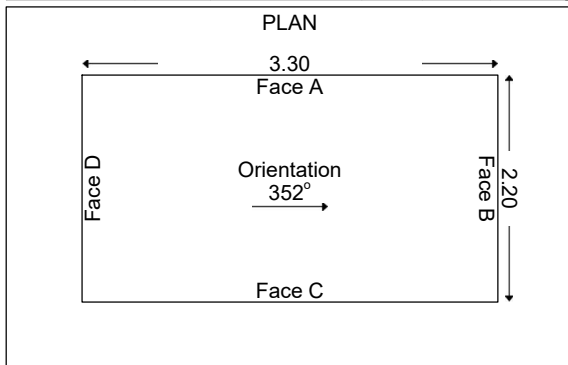
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TRIAL PIT RECORD

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			STRATA					
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	
0.30	J1	<0.1ppm	↓		[Cross-hatch pattern]	(0.80)	MADE GROUND (Brown sandy gravel. Gravel is fine to coarse subangular and includes slag, concrete, macadam and red and yellow brick. Slag content is 0-25%. Slag is vesicular grey green white).	
0.50	B2			7.36		0.80		
0.60	PID					[Cross-hatch pattern]	(2.00)	MADE GROUND (Red and yellow refractory bricks). (Engineer notes bricks are stacked - possible structure).
0.60	ES3						5.36	
1.50	B4						Terminated at 2.80m BGL - due to brick structure.	



GROUNDWATER
Water 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





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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: 3 of 3

Figure PRAIRIE_AUK_TP123.3
PRAIRIE_AUK_TP123 - Spoil





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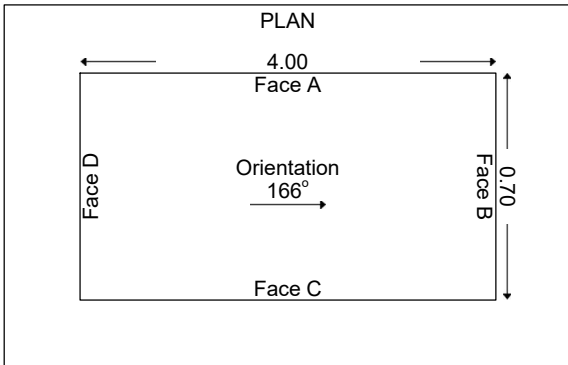
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TRIAL PIT RECORD

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 4	

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.10 0.20	J1 B2			7.97	[Cross-hatch pattern]	0.30	MADE GROUND (Black sandy topsoil).
1.00	J3				[Cross-hatch pattern]	(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).
1.50 1.50 1.50	PID B4 ES5	<0.1ppm		6.57	[Cross-hatch pattern]	1.70	
2.00 2.20	J6 HSV	32 (20)kPa			[Horizontal line pattern]	(1.30)	Firm indistinctly laminated orange brown mottled grey slightly sandy CLAY.
2.50 2.50 2.50	PID B7 ES8	<0.1ppm		5.27	[Horizontal line pattern]	3.00	
							Complete at 3.00m BGL.



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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Tel: 01772 735 300 Fax: 01772 735 999

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 4

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 4

Figure PRAIRIE_AUK_TP124.3
PRAIRIE_AUK_TP124 - Spoil



Figure PRAIRIE_AUK_TP124.4
PRAIRIE_AUK_TP124 - Spoil





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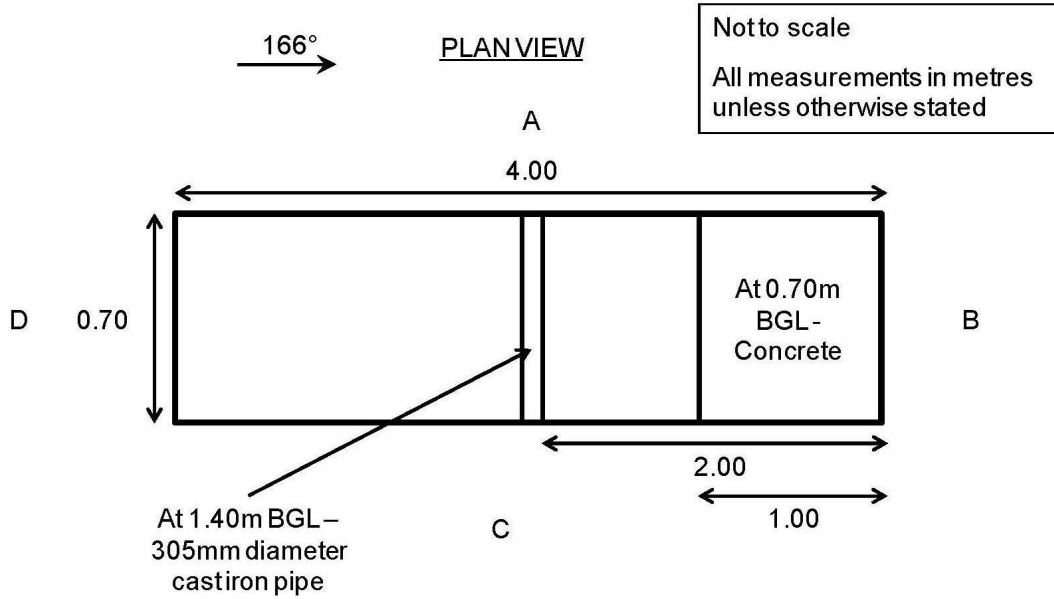
Tel: 0191 387 4700 Fax: 0191 387 4710
Tel: 01772 735 300 Fax: 01772 735 999

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: 4 of 4

Figure PRAIRIE_AUK_TP124.5
PRAIRIE_AUK_TP124 Sketch





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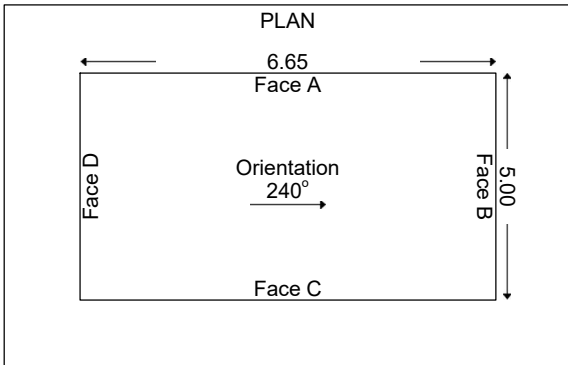
Tel: 0191 387 4700 Fax: 0191 387 4710
Tel: 01772 735 300 Fax: 01772 735 999

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



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

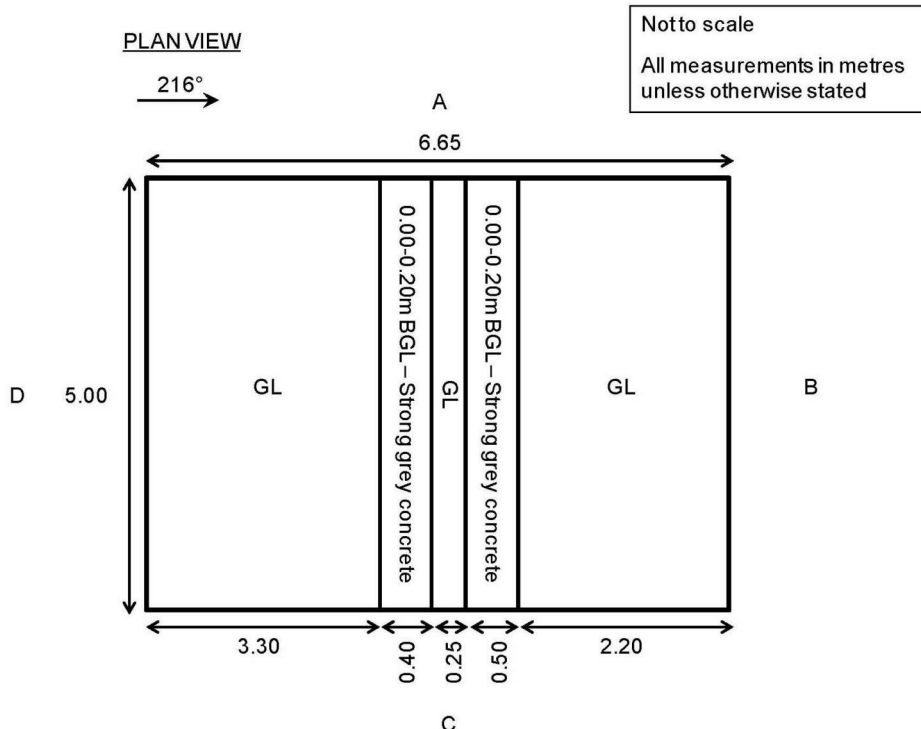
Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No. 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: 2 of 2

Figure PRAIRIE_AUK_TP125.1
PRAIRIE_AUK_TP125



Figure PRAIRIE_AUK_TP125.2
PRAIRIE_AUK_TP125 Sketch





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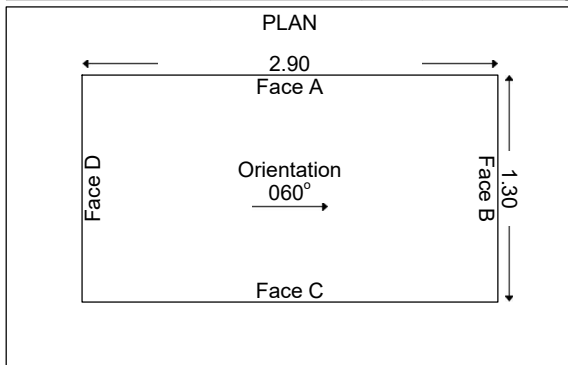
Tel: 0191 387 4700 Fax: 0191 387 4710
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No. PRAIRIE_AUK_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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.10 0.20	J1 B2			8.22		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		1.20	MADE GROUND (Concrete structure infilled with gravel (20mm)). at c.1.20m BGL ... concrete base. <i>Terminated at 1.20m BGL - due to concrete base.</i>



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

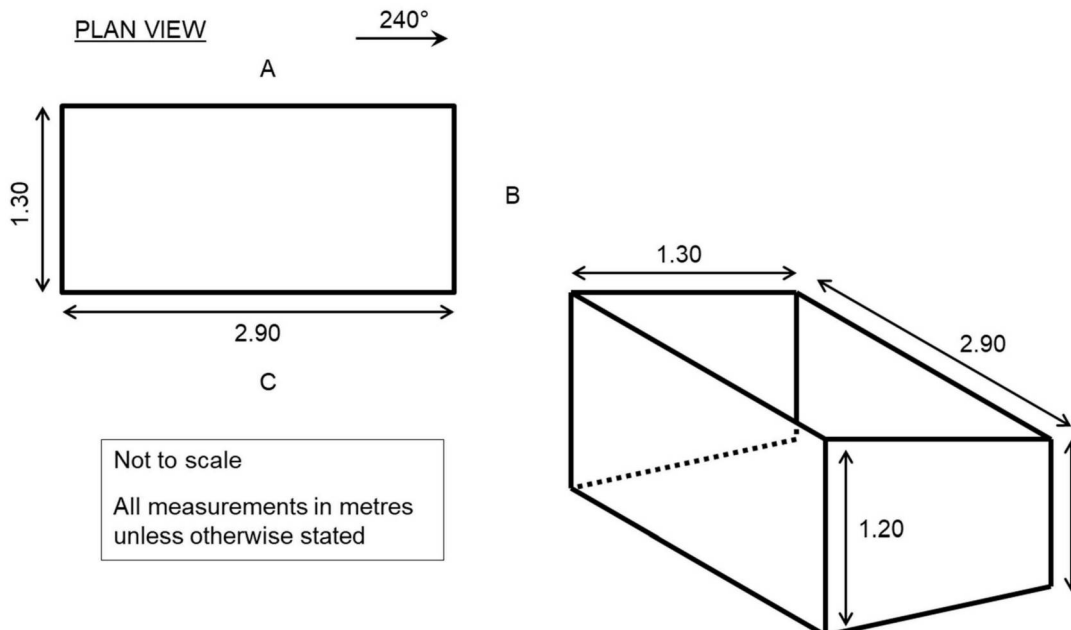
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Project: Prairie Site Ground Investigation Works		Exploratory Hole No. PRAIRIE_AUK_TP125A	
Client: South Tees Development Corporation	Location: E:454257.923 N:521427.282		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m):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

Figure PRAIRIE_AUK_TP125A.3
PRAIRIE_AUK_TP125A - Spoil



Figure PRAIRIE_AUK_TP125A.4
PRAIRIE_AUK_TP125A Sketch





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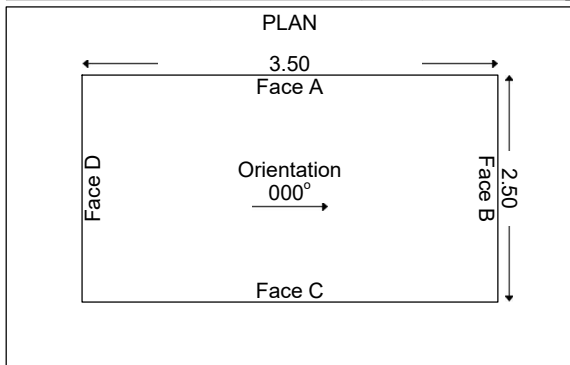
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.20 0.40	J1 B2			8.25		(0.50) 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%). at c.0.50m BGL ... top of concrete obstruction. Possible walls of subsurface structure.
1.40 1.80	J3 B4					(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 red and yellow brick. Slag content is 0-25%. Slag is vesicular grey green. Cobbles are angular and include 50-75% vesicular grey green slag. Boulders are angular and include 50-75% vesicular grey green slag). between c.0.50-2.70m BGL ... concrete structure surrounds the north and east faces of pit.
2.60 2.60	ES5 PID	0.2ppm		6.05		2.70	at c.2.70m BGL ... concrete obstruction - pit extended west. <i>Terminated at 2.70m BGL - due to concrete obstruction.</i>



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

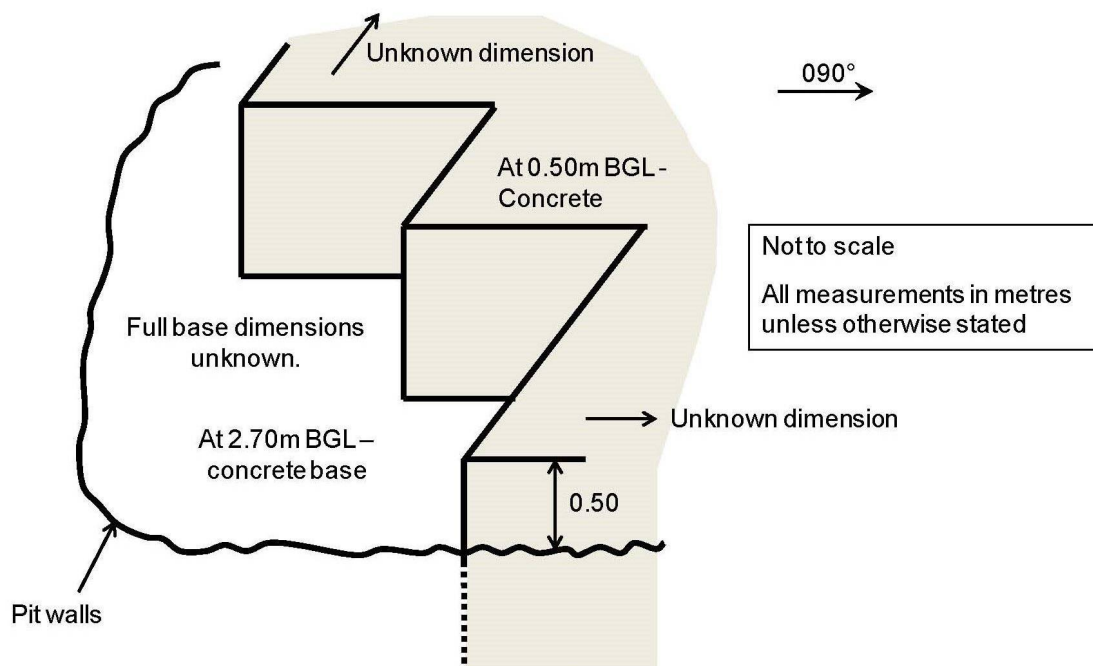
Status:-
PRELIM3

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



Figure PRAIRIE_AUK_TP126.4
PRAIRIE_AUK_TP126 Sketch





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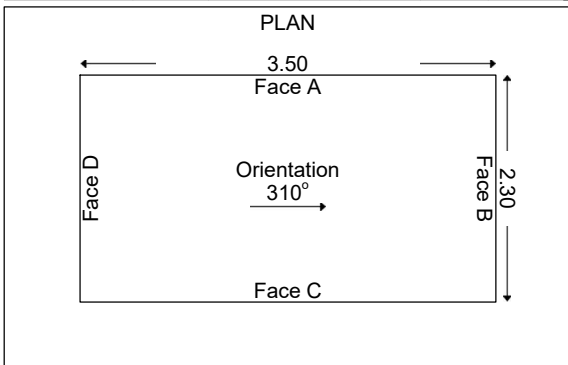
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.10 0.20 0.30 0.30 0.60	J1 B2 ES3 PID J4	<0.1ppm	↓ Water	8.08	[Cross-hatched pattern]	(0.40) 0.40	MADE GROUND (Brown grey sand and gravel. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded and includes slag, concrete, macadam and roadstone. Slag content is 0-25%. Slag is vesicular grey green white).
				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. Slag content is 0-25%. Slag is vesicular grey green white).
				7.38		1.10	MADE GROUND (Strong grey green concrete or slag).
1.40 1.40 1.60	J5 PID B6	<0.1ppm		6.78		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. Slag content is 0-25%. Slag is vesicular grey green white). at c.1.70m BGL ... concrete. <i>Terminated at 1.70m BGL - due to concrete.</i>



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. 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: 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

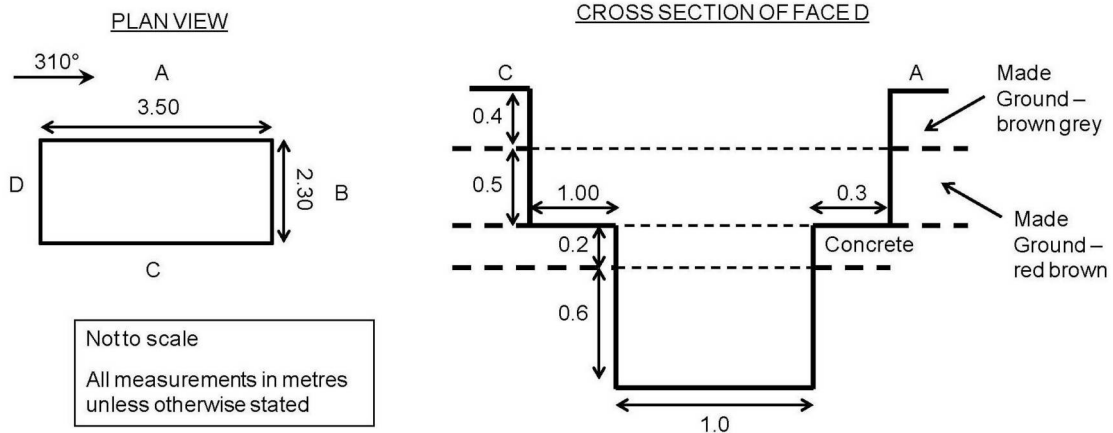
Status:-
PRELIM3

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



Figure PRAIRIE_AUK_TP127.4
 PRAIRIE_AUK_TP127 Sketch





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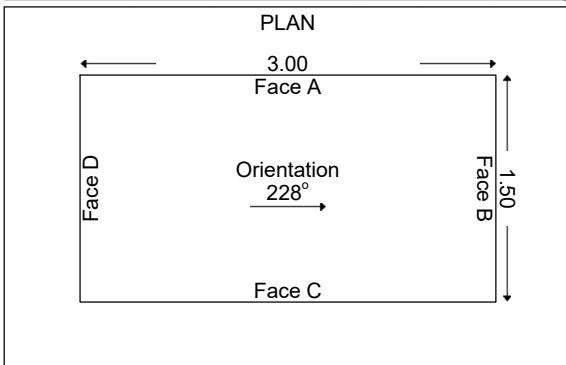
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TRIAL PIT RECORD

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: 1 of 3	

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
2.20	J1			8.24	(0.40)	0.40	MADE GROUND (Brown grey sand and gravel. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded and includes slag, concrete, macadam and roadstone. Slag content is 0-25%. Slag is vesicular grey green white).
2.50	B2	70 (34)kPa		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. Slag content is 0-25%. Slag is vesicular grey green white). between c.0.90-3.00m BGL ... Face D: Strong grey concrete wall/foundation.
2.50	HSV				(1.10)		Firm yellow brown mottled grey sandy CLAY. (Possible Made Ground).
2.80	ES3	<0.1ppm		5.64		3.00	Complete at 3.00m BGL.
2.80	PID						



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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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: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	

Figure PRAIRIE_AUK_TP127A.3
PRAIRIE_AUK_TP127A - Spoil





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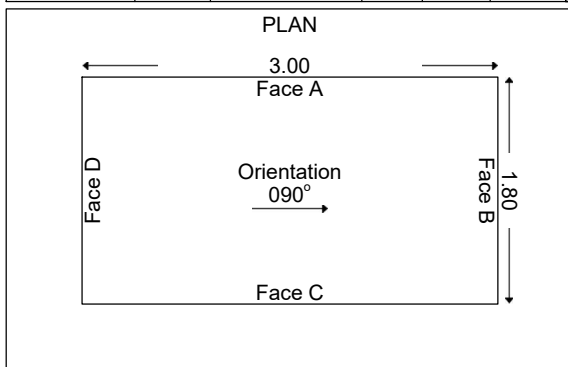
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1			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).
0.80	B2			7.12		(0.75)	MADE GROUND (Brown black sandy gravel with occasional pockets/lenses of soft to firm brown clay. Sand is fine to coarse. Gravel is fine to coarse subangular and includes red and yellow brick, coke, ash, clinker and slag. Slag content is 0-25%). at 1.00m BGL ... pocket of grey fine to coarse angular gravel in west of pit. Gravel is fine to coarse angular and includes mudstone/shale with strong hydrocarbon/creosote odour. MADE GROUND (Firm brown mottled orange clay). between c.1.00-1.10m BGL ... 100mm diameter cast iron pipe running 90 degrees. Engineer notes pipe probably runs through trenched section of reworked ground. <i>Terminated at 1.10m BGL - due to services.</i>
0.90	ES3	0.9ppm		7.02		1.00	
0.90	PID					1.10	



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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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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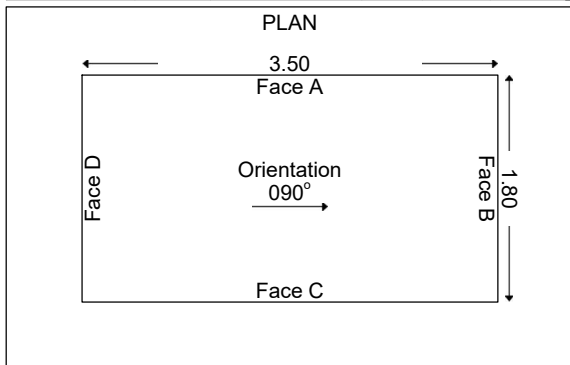
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TRIAL PIT RECORD

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			STRATA					
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	
0.60	J1	<0.1ppm		9.39	[Cross-hatch pattern]	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).	
0.80	B2			9.14		0.45		
				8.59	(0.55)	MADE GROUND (Concrete. Engineer notes possible old foundation/footing to the bricks exposed adjacent).		
1.40	J3			8.29	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, red brick, ash and clinker. Slag content is 50-75%. Slag is vesicular grey green).		
1.80	B4			(1.00)		Soft to firm and friable brown grey mottled black CLAY.		
2.10	PID					Firm and friable brown very sandy interlaminated SILT and CLAY with silty sand lenses.		
2.10	ES4A					7.29	2.30	Complete at 2.30m BGL.



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

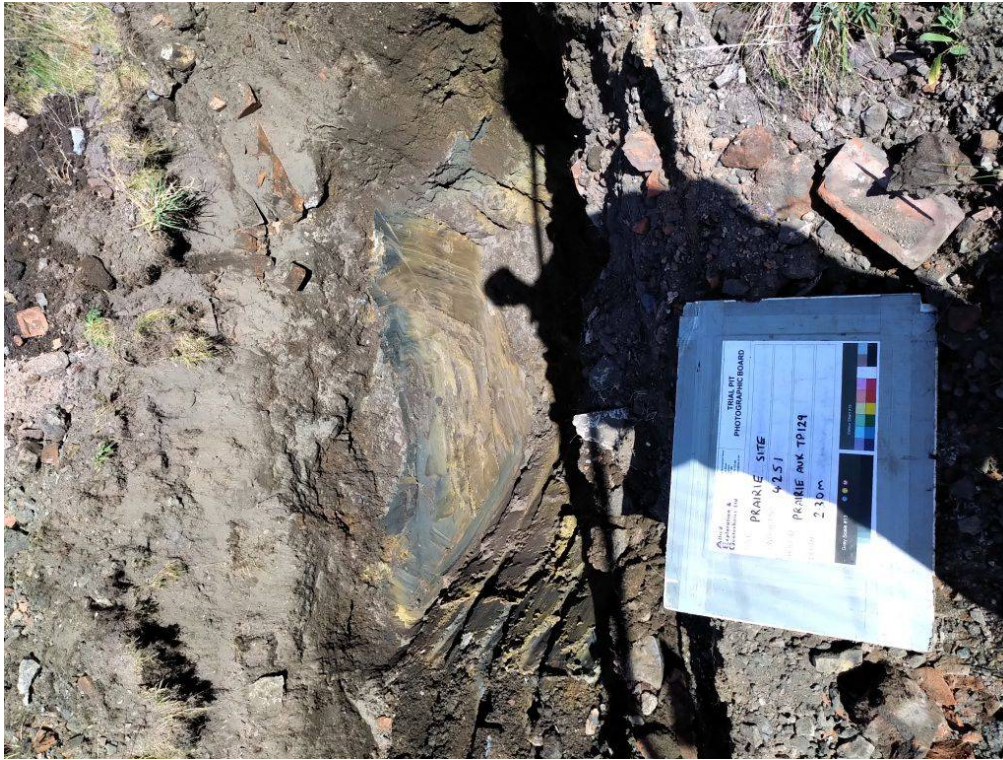


Figure PRAIRIE_AUK_TP129.2
PRAIRIE_AUK_TP129





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TRIAL PIT RECORD

Status:-
PRELIM3

Project: 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: 3 of 3

Figure PRAIRIE_AUK_TP129.3
PRAIRIE_AUK_TP129 - Spoil





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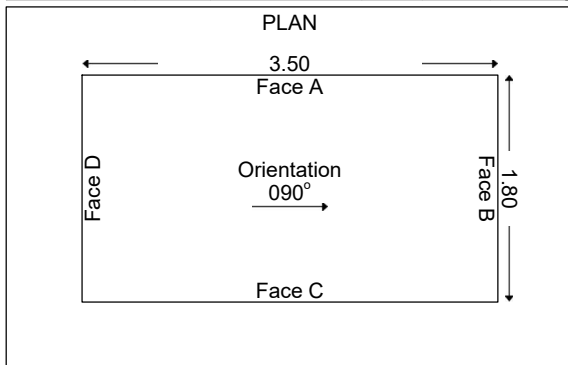
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TRIAL PIT RECORD

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			STRATA					
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	
0.20	J1			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).	
0.30	B2			8.74		0.40		
0.80	J3	1.0ppm			(0.60)		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 slag, concrete, red brick, ash and clinker. Cobbles are angular and include slag. Slag content is 50-75%. Slag is vesicular grey green).
0.90	B4				8.14		1.00	
1.00	ES4A						(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).
1.00	PID							
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. <i>Complete at 2.40m BGL.</i>	



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:-
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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





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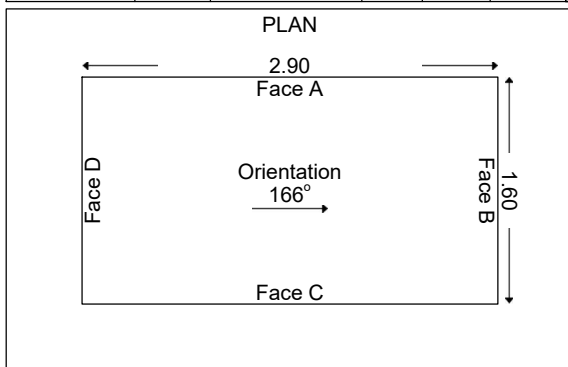
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.20	J1		Water	8.21	[Cross-hatch pattern]	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					0.50	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). from c.0.50-1.20m BGL ... partially cemented slag fill material.
1.00	J3					(2.00)	
1.50	B4						
1.80	ES5	<0.1ppm				6.21	2.50
1.80	PID				(1.00)		
2.00	J6				5.21	3.50	
2.60	J7	45 (20)kPa		5.21	[Cross-hatch pattern]	3.50	Firm indistinctly laminated grey mottled orange brown slightly sandy CLAY.
2.80	HSV					(1.00)	
2.80	B8			4.21	[Cross-hatch pattern]	4.50	Complete at 4.50m BGL.
3.60	J9	59 (34)kPa					
3.80	HSV				(1.00)		
3.80	B10						



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:-
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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





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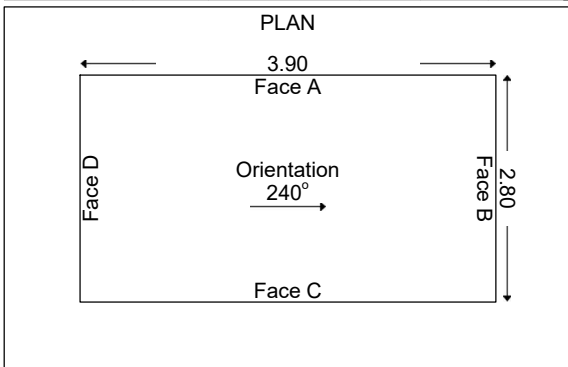
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TRIAL PIT RECORD

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 4	

SAMPLES & TESTS			STRATA					
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	
0.05	J1	<0.1ppm		8.66		0.05	MADE GROUND (Grass over brown sandy topsoil).	
				8.50		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). at c.0.90m BGL ... engineer notes girder on side C.
1.00	B3							
1.30	PID							
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. <i>Terminated at 2.30m BGL - due to concrete channel.</i>	



GROUNDWATER
 Water strike 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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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 4

Figure PRAIRIE_AUK_TP132.1
PRAIRIE_AUK_TP132



Figure PRAIRIE_AUK_TP132.2
PRAIRIE_AUK_TP132





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TRIAL PIT RECORD

Status:-
PRELIM3

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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 4

Figure PRAIRIE_AUK_TP132.3
PRAIRIE_AUK_TP132 - Spoil



Figure PRAIRIE_AUK_TP132.4
PRAIRIE_AUK_TP132 - Reinstatement





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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: 4 of 4

Figure PRAIRIE_AUK_TP132.5
PRAIRIE_AUK_TP132 Sketch



Not to scale
All measurements in metres
unless otherwise stated



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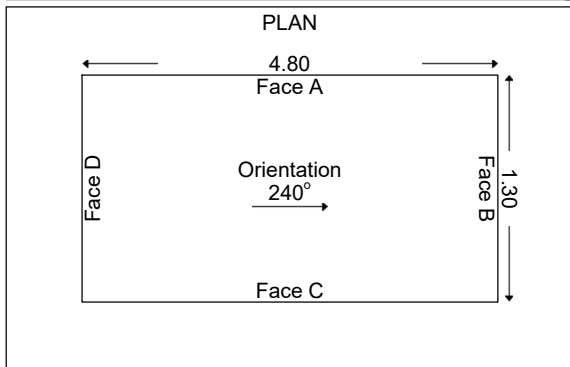
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TRIAL PIT RECORD

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 4	

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	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). <i>Terminated at 1.60m BGL - due to concrete structure and metal cables.</i>



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.	
Client: South Tees Development Corporation	Location: E:454897.504 N:521394.100		PRAIRIE_AUK_TP132A
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 8.542	Start Date: 02/04/2020	

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 4

Figure PRAIRIE_AUK_TP132A.3
PRAIRIE_AUK_TP132A



Figure PRAIRIE_AUK_TP132A.4
PRAIRIE_AUK_TP132A - Spoil





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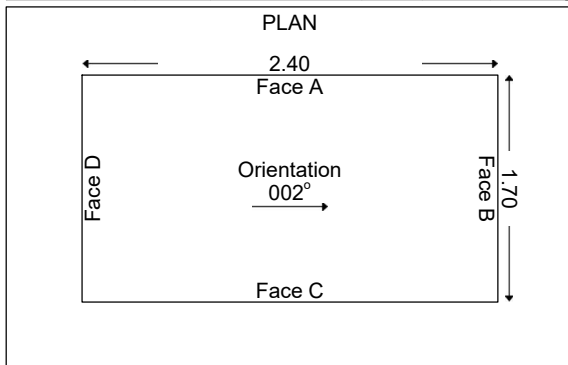
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TRIAL PIT RECORD

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: 1 of 3	

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.20	J1			8.79	[Cross-hatched pattern]	0.10	MADE GROUND (Grass over topsoil).
0.20	PID	<0.1ppm				(0.70)	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. Slag content is 0-25%. Slag is vesicular grey green white).
0.50	ES2						
0.50	PID	<0.1ppm		8.09		0.80	at c.0.10m BGL ... 4 No. subangular concrete boulders.
0.70	B3						
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					
2.00	B7			6.89		2.00	Complete at 2.00m BGL.



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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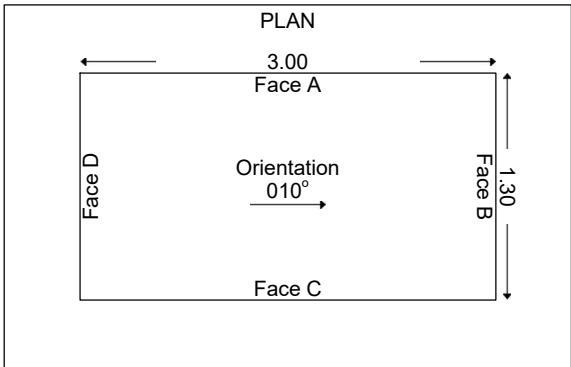
Tel: 0191 387 4700 Fax: 0191 387 4710
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No. PRAIRIE_AUK_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			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
0.50 0.50 0.80 1.00 1.00	J1 PID B2 ES3 PID	<0.1ppm <0.1ppm		7.41		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. possibly an old floor.
1.50 1.50 1.80 2.00 2.00	J4 HSV PID B5 ES6 PID	69 (18)kPa <0.1ppm <0.1ppm		6.11		Firm to stiff thinly laminated orange brown mottled grey slightly sandy CLAY with fine yellow brown sand dusting on the laminae.
2.50 2.50 2.50	J9 HSV PID	84 (28)kPa <0.1ppm				Complete at 2.60m BGL.



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

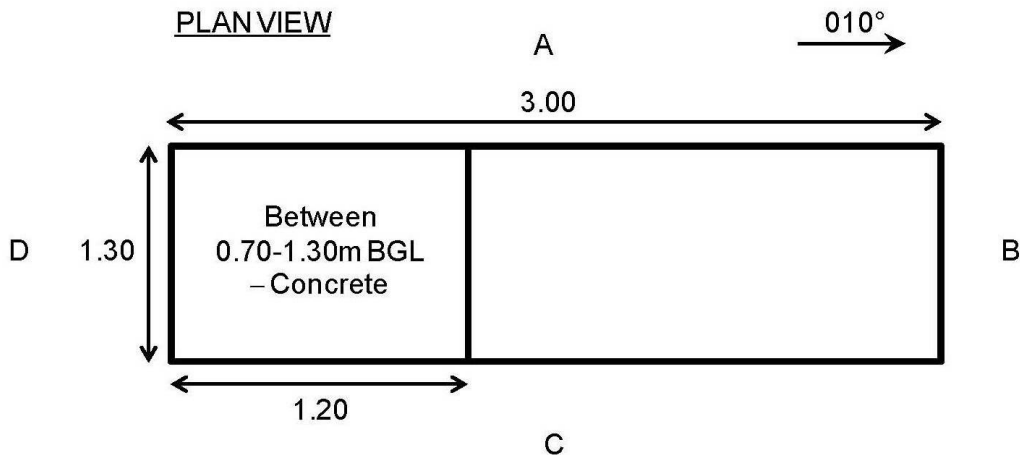
Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No.	
Client: South Tees Development Corporation	Location: E:454702.950 N:521396.264		PRAIRIE_AUK_TP134
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



Figure PRAIRIE_AUK_TP134.4
PRAIRIE_AUK_TP134 Sketch



Notto scale
All measurements in metres
unless otherwise stated



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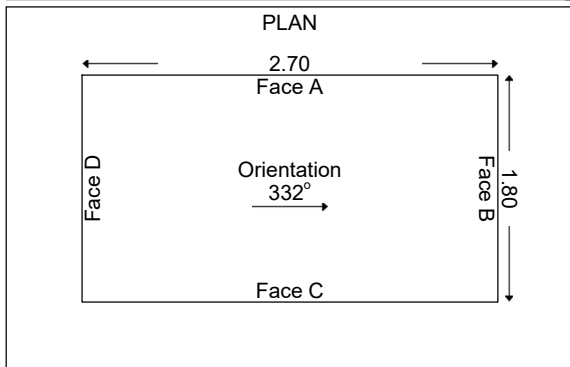
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Status:-
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Project: Prairie Site Ground Investigation Works		Exploratory Hole No. PRAIRIE_AUK_TP135	
Client: South Tees Development Corporation		Location: E:454599.377 N:521402.034	
Method (Equipment):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

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.05	J1		↓ Water	8.16	[Cross-hatch pattern]	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. Slag content is 0-25%. Slag is vesicular grey green white).	
1.00	B3			7.16	[Cross-hatch pattern]	1.10	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. Slag content is 0-25%. Slag is vesicular grey green white).
1.20	J4			(0.50)		Firm light orange brown sandy CLAY.	
1.30	ES5			[Horizontal dashes pattern]	6.66	1.60	Firm to stiff grey brown slightly sandy CLAY.
1.50	B6	<0.1ppm			(0.90)	Complete at 3.00m BGL.	
1.80	HSV	70 (22)kPa		5.76	2.50		
2.00	J7			[Horizontal dashes pattern]	5.26	3.00	
2.30	B8						
2.70	J9	70 (20)kPa					
2.80	HSV						
2.90	B10						



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:-
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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:-
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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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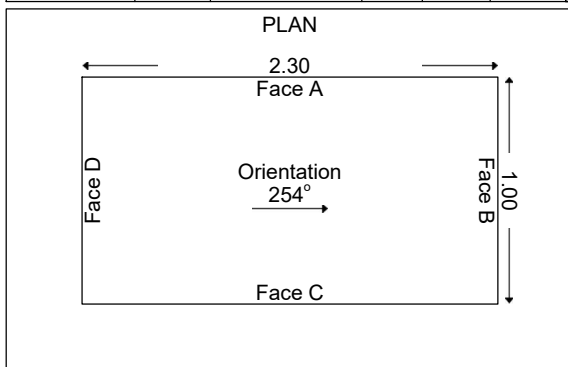
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TRIAL PIT RECORD

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			STRATA						
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description		
0.40	J1		↓ Water	7.64	[Cross-hatched pattern]	0.05	MADE GROUND (Grass over brown sandy topsoil).		
0.60	B2			7.44		0.25	MADE GROUND (Strong fine grey reinforced concrete (10mm diameter)).		
0.80	ES3	<0.1ppm		6.84		0.85	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).		
1.00	J4			1.25		MADE GROUND (Soft to firm friable and dessicated burnt orange sandy clay). from c.0.85m BGL ... brick structure (depth not confirmed due to water ingress).			
1.50	B6	40 (18)kPa							
1.50	HSV								
2.00	J7			5.59		2.10	Firm to stiff grey brown slightly sandy CLAY.		
2.40	J8	67 (16)kPa					[Horizontal line pattern]	1.00	
2.50	B9								
2.50	HSV								
2.90	ES10	<0.1ppm				3.10	Complete at 3.10m BGL.		
2.90	PID								



GROUNDWATER
 Water strike 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:-
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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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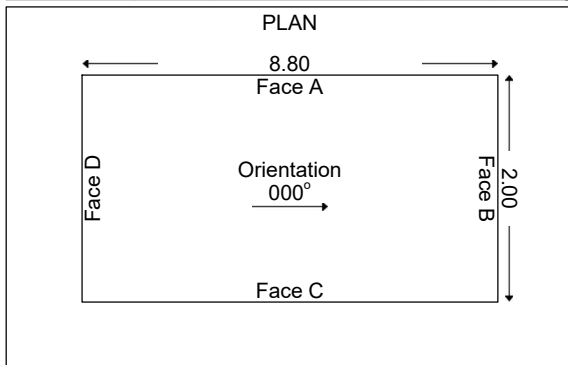
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TRIAL PIT RECORD

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 6	

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.10 0.20	J1 B2		↓ Water	7.34	[Cross-hatched pattern]	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	J3					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. Slag content is 0-25%. Slag is vesicular grey green white).
1.00	B4			6.39	[Horizontal line pattern]	1.45	at c.0.50m BGL ... top of covered drainage channel. at c.0.80m BGL ... 250mm diameter clay pipe running 315 degrees.
1.30 1.30 1.60	ES5 PID J6	<0.1ppm				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.
2.00 2.00	B7 HSV	48 (18)kPa				2.90	
2.60	J8			4.94			Complete at 2.90m BGL.



GROUNDWATER
Water strike 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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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 6

Figure PRAIRIE_AUK_TP137.1
PRAIRIE_AUK_TP137



Figure PRAIRIE_AUK_TP137.2
PRAIRIE_AUK_TP137





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TRIAL PIT RECORD

Status:-
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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 6

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 6

Figure PRAIRIE_AUK_TP137.5
PRAIRIE_AUK_TP137



Figure PRAIRIE_AUK_TP137.6
PRAIRIE_AUK_TP137 - Clay Pipe





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TRIAL PIT RECORD

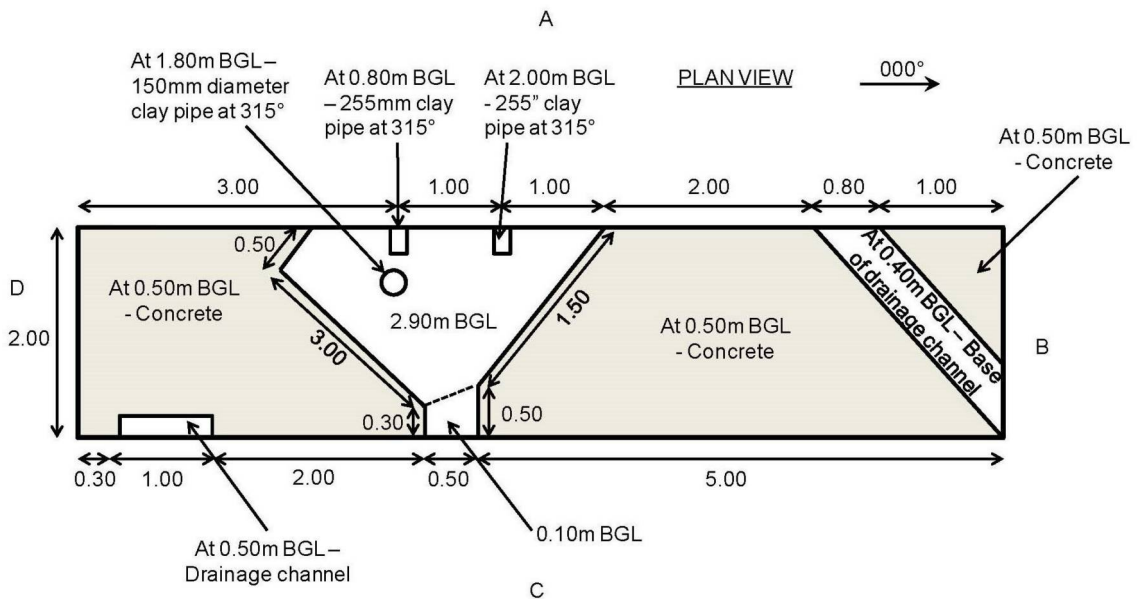
Status:-
PRELIM3

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

Figure PRAIRIE_AUK_TP137.7
 PRAIRIE_AUK_TP137 - Spoil



Figure PRAIRIE_AUK_TP137.8
 PRAIRIE_AUK_TP137 Sketch





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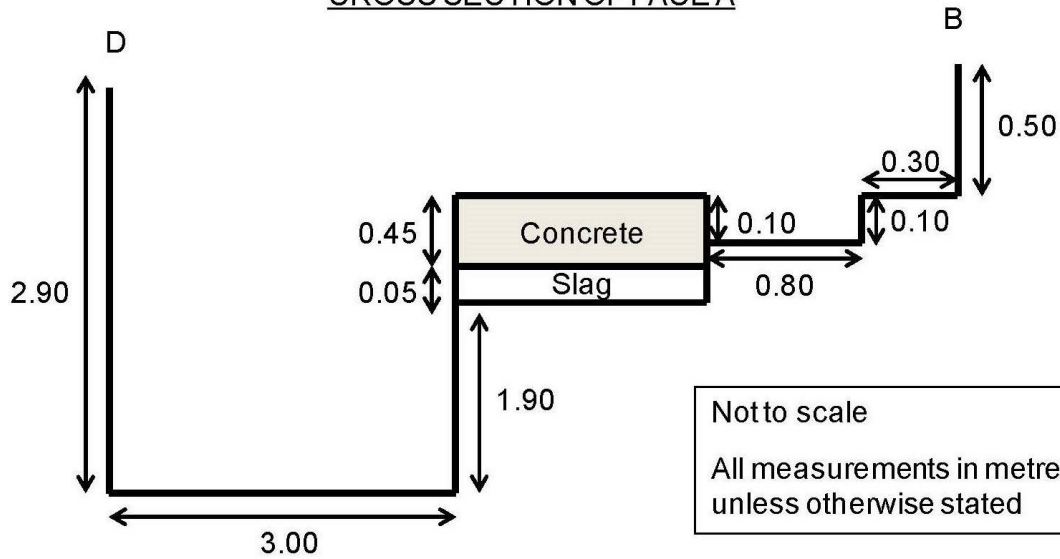
TRIAL PIT RECORD

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: 6 of 6

Figure PRAIRIE_AUK_TP137.9
PRAIRIE_AUK_TP137 Sketch

CROSS SECTION OF FACE A





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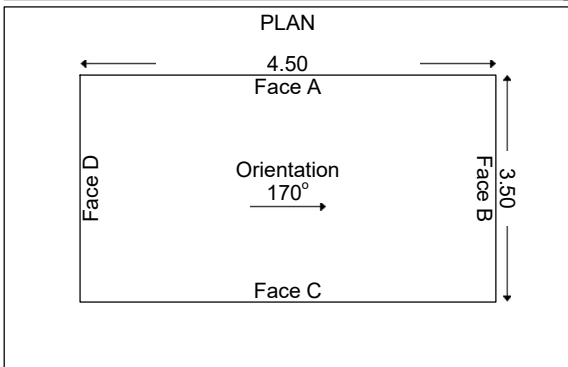
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TRIAL PIT RECORD

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			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	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, possible old floor.
1.00	B2					
1.20	ES3	<0.1ppm				
1.20	PID					
1.50	J4					
2.00	B5					at c.1.80m BGL ... slab of red bricks. at c.2.00m BGL ... metal slab with rebar. at c.2.20m BGL ... slab of red bricks.
				5.36		at c.2.60m BGL ... slab of red bricks. <i>Terminated at 2.60m BGL - due to instability.</i>



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
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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 - Boulders





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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





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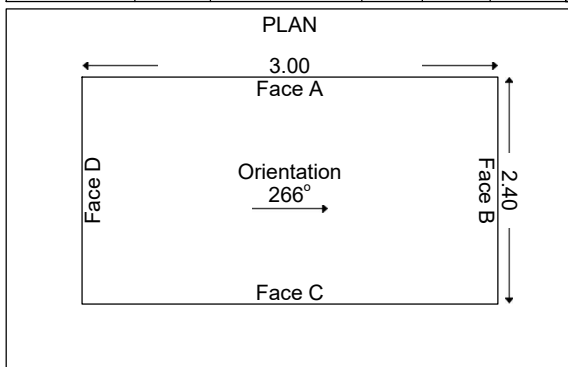
Tel: 0191 387 4700 Fax: 0191 387 4710
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No. PRAIRIE_AUK_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			STRATA				
Depth	Type No	Test Result	Water	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. Slag content is 0-25%. Slag is vesicular grey green white). from c.0.40m BGL ... Face A: concrete. from c.0.50m BGL ... Face C: concrete.
0.80	B2			7.37		1.00	
1.10	J3			7.17		1.20	
1.10	ES4	<0.1ppm					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). at c.1.20m BGL ... concrete, possible old floor. <i>Terminated at 1.20m BGL - due to concrete obstruction.</i>
1.10	B5						
1.10	PID						



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



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TRIAL PIT RECORD

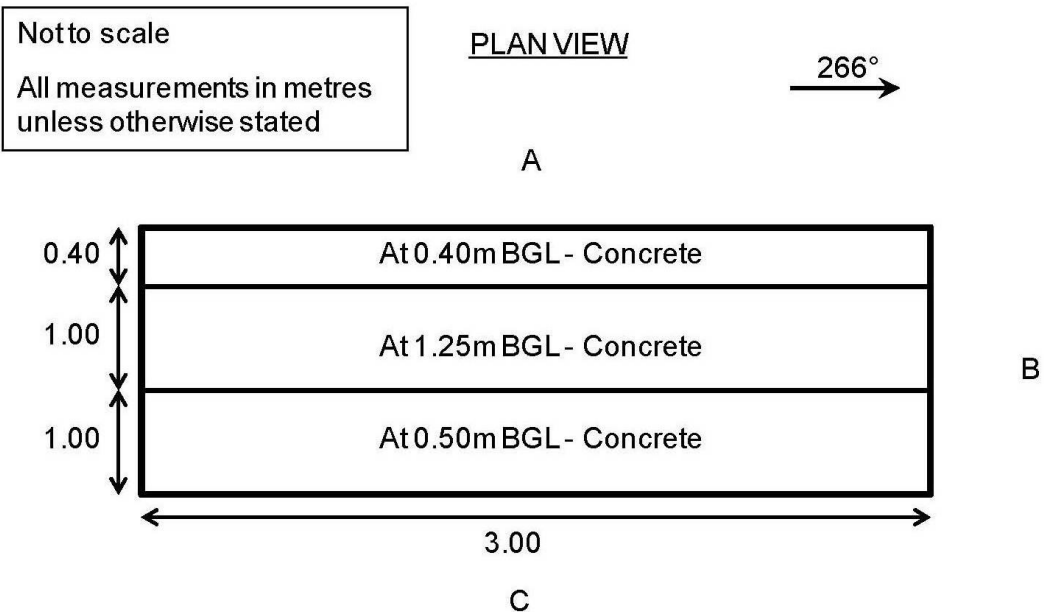
Status:-
PRELIM3

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



Figure PRAIRIE_AUK_TP139.4
 PRAIRIE_AUK_TP139 Sketch





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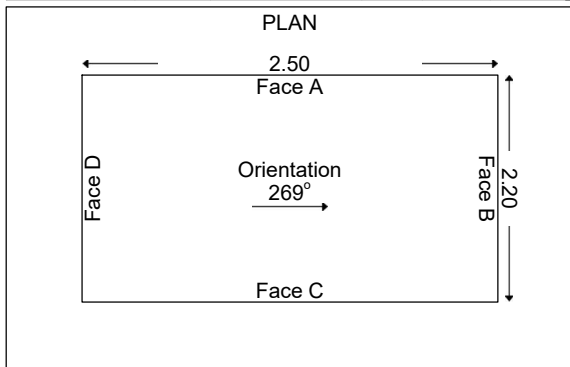
Tel: 0191 387 4700 Fax: 0191 387 4710
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TRIAL PIT RECORD

Status:-
PRELIM3

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

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	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. Slag content is 0-25%. Slag is vesicular grey green white). at c.0.30m BGL ... concrete, possibly an old floor. <i>Terminated at 0.30m BGL - due to concrete obstruction.</i>



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.	
Client: South Tees Development Corporation	Location: E:454376.105 N:521344.320		PRAIRIE_AUK_TP139A
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 8.406	Start Date: 16/04/2020	

Figure PRAIRIE_AUK_TP139A.1
PRAIRIE_AUK_TP139A



Figure PRAIRIE_AUK_TP139A.2
PRAIRIE_AUK_TP139A





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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:454376.105 N:521344.320		PRAIRIE_AUK_TP139A
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 8.406	Start Date: 16/04/2020	

Figure PRAIRIE_AUK_TP139A.3
PRAIRIE_AUK_TP139A - Spoil





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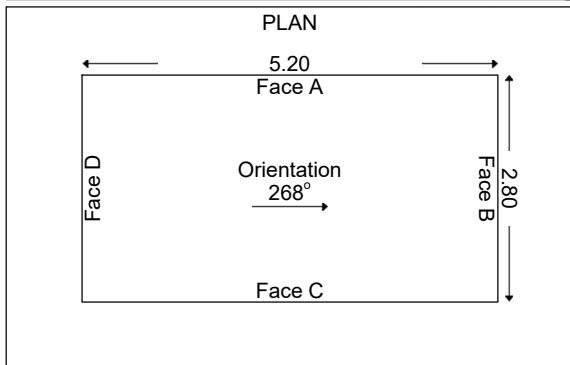
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No.	
Client: South Tees Development Corporation		Location: PRAIRIE_AUK_TP139B	
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 0.20 0.30 0.30	J1 B2 ES3 PID	<0.1ppm		7.87	(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).	
				7.47	(0.40)	0.90	MADE GROUND (Strong grey concrete).
				6.67	(0.80)	1.70	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). between c.1.20-2.20m BGL ... Face D: brick wall.
2.50	HSV	47 (16)kPa				(2.30)	Soft to firm thinly laminated grey brown sandy CLAY with fine yellow brown sand on the laminae. from c.2.00m BGL ... Face A: brick and concrete structure.
3.00 3.10 3.30 3.30 3.50	J4 B5 ES6 PID HSV	<0.1ppm 77 (22)kPa		4.37	4.00	from c.3.50m BGL ... firm to stiff.	
Complete at 4.00m BGL.							



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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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





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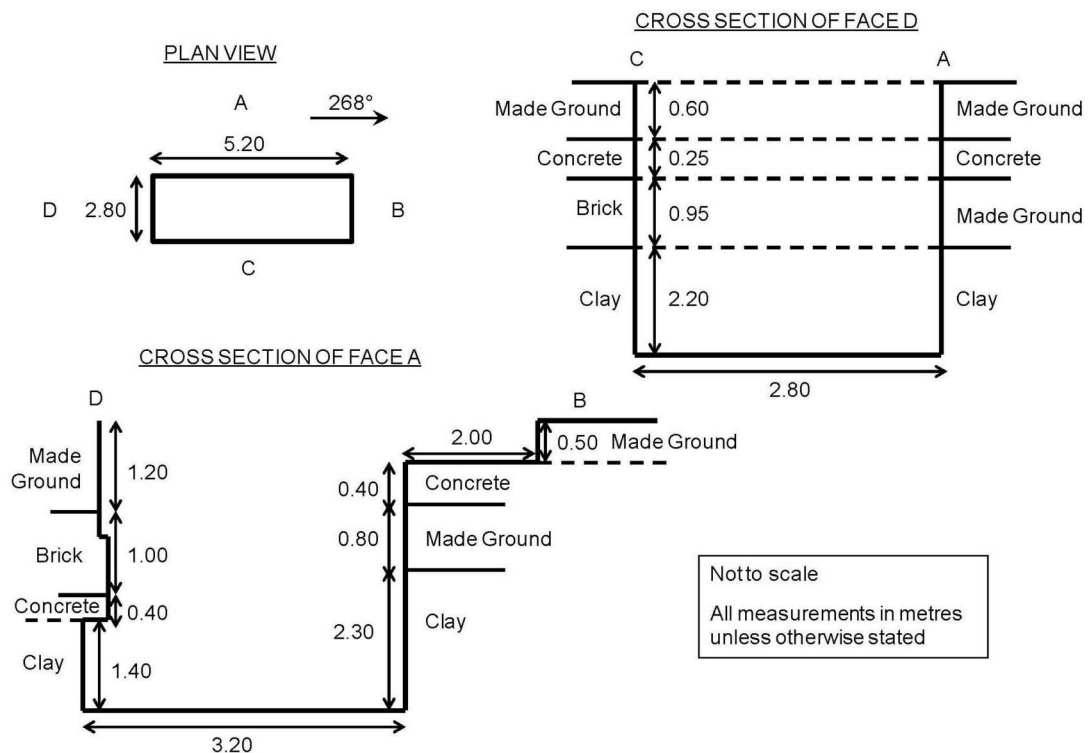
Status:-
PRELIM3

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



Figure PRAIRIE_AUK_TP139B.4
PRAIRIE_AUK_TP139B Sketch





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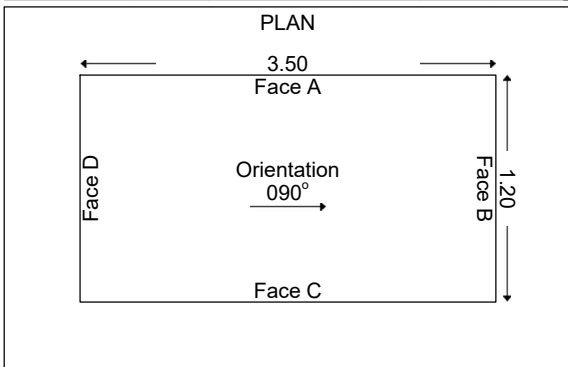
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1			8.67	[Cross-hatched pattern]	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).
0.50	PID	0.8ppm		8.47		0.30	
0.80	B2			8.37		0.40	
1.00	ES3					(0.80)	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).
1.00	PID	<0.1ppm		7.57	[X-pattern]	1.20	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).
1.40	J4						
1.50	PID	<0.1ppm					
1.60	B5					(1.40)	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%).
2.40	J6			6.17	[Dotted pattern]	2.60	Firm (friable) brown silty CLAY with yellow silty fine to medium sand lenses. Engineer notes becoming interlaminated silt and clay with depth. <i>Complete at 2.60m BGL.</i>
2.50	B7						
2.60	ES8						



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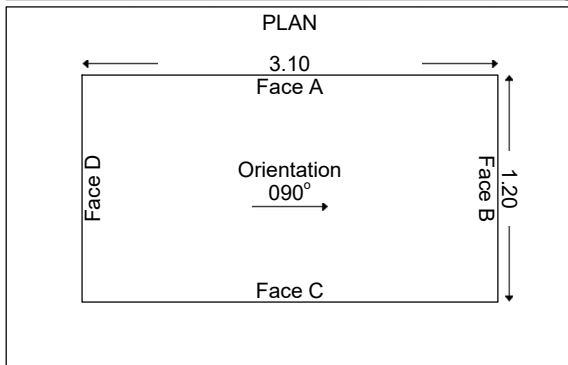
Tel: 0191 387 4700 Fax: 0191 387 4710
 Tel: 01772 735 300 Fax: 01772 735 999

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: 1 of 3	

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1			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	PID	0.8ppm				(0.70)	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	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).
1.00	PID	0.6ppm				(1.10)	MADE GROUND (Soft/loose black clayey silt with hydrocarbon/creosote/ammonia odour). (Engineer notes material is probably soot/chimney particles).
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. <i>Terminated at 3.00m BGL - due to concrete.</i>



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_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.	
Client: South Tees Development Corporation	Location: E:454997.498 N:521308.610		PRAIRIE_AUK_TP141
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 8.907	Start Date: 23/04/2020	

Figure PRAIRIE_AUK_TP141.3
PRAIRIE_AUK_TP141 - Spoil





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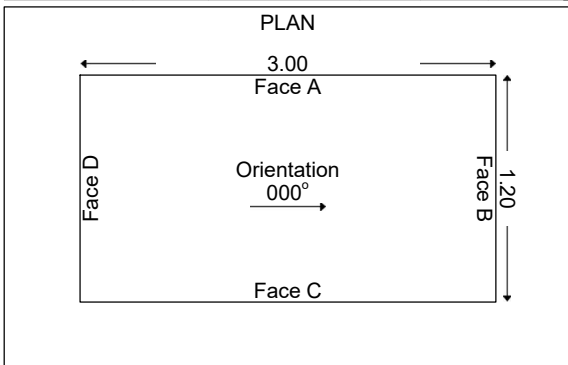
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1 PID B2	0.8ppm	~	8.70	[Cross-hatched pattern]	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				(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).	
0.70							
0.90	ES3 PID	3.9ppm	~	7.90	[Cross-hatched pattern]	1.00	
1.00				7.70		1.20	
1.50	ES4 PID J5	3.0ppm	~	7.20	[Cross-hatched pattern]	1.70	MADE GROUND (Concrete blocks (backfilled)).
1.50							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							<i>Terminated at 1.70m BGL - due to concrete.</i>



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

STABILITY
Pit sides and base stable throughout excavation.

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





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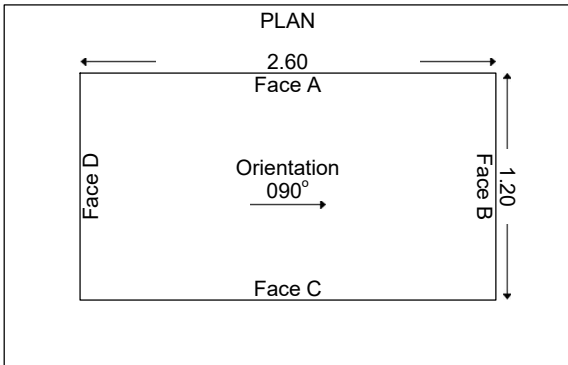
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TRIAL PIT RECORD

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



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





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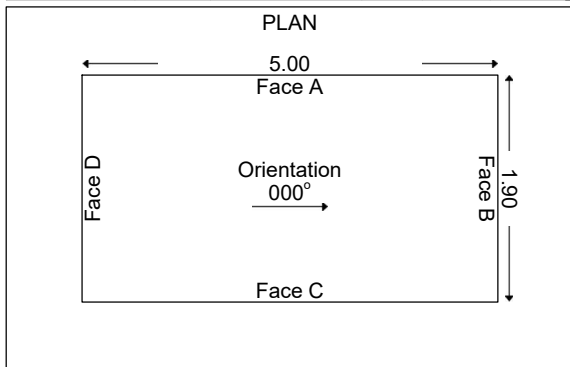
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TRIAL PIT RECORD

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			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
0.40	J1					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. <i>Terminated at 1.20m BGL - due to concrete base.</i>
0.50	PID	0.8ppm			(1.20)	
0.60	B2					
0.80	ES3					
1.00	PID	1.5ppm		7.60	1.20	



GROUNDWATER
 Saturated strata (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
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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





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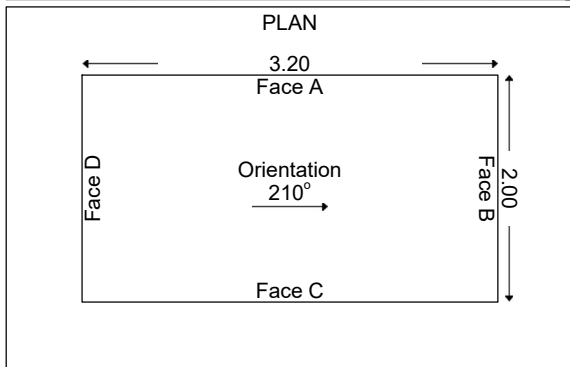
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TRIAL PIT RECORD

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			STRATA					
Depth	Type No	Test Result	Water	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 and brick. Slag content is 0-25%. Slag is vesicular grey green white).
1.00	B3						at c.1.60m BGL ... slight hydrocarbon odour.	
1.60	PID	0.2ppm			7.21		1.70	Firm to stiff orange brown mottled grey slightly sandy CLAY.
1.60	ES4							
1.90	J5						(0.80)	
2.00	HSV	77 (30)kPa						
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.	



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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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





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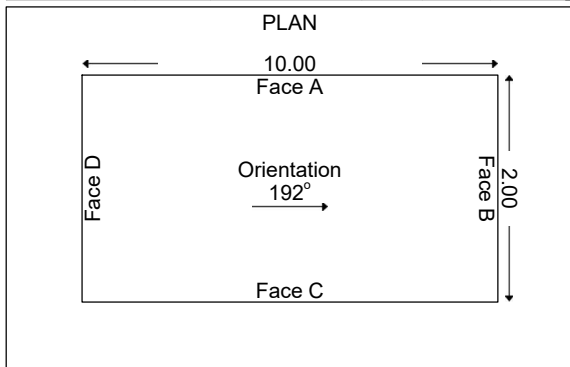
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TRIAL PIT RECORD

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: 1 of 2	

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	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 slab with rebar, possibly an old floor). <i>Terminated at 0.30m BGL - due to concrete.</i>



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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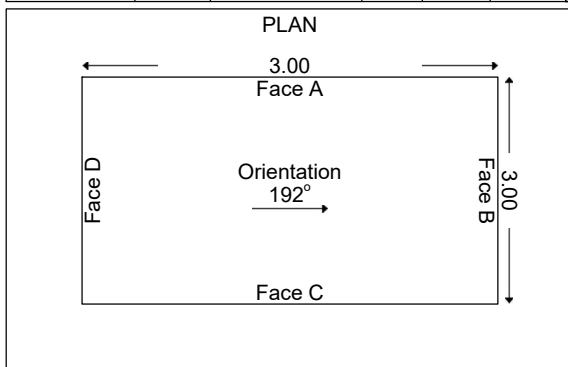
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TRIAL PIT RECORD

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			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
				8.50	XXXXXX	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 slab, possibly an old floor. Terminated at 0.10m BGL - due to concrete.



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	

Figure PRAIRIE_AUK_TP146A.1
PRAIRIE_AUK_TP146A





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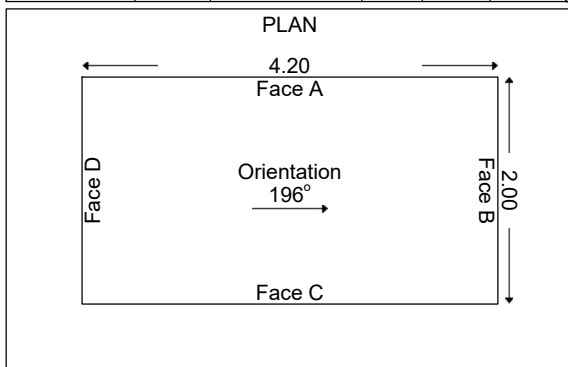
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
				8.54	[Cross-hatched pattern]	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 slab, possibly an old floor). <i>Terminated at 0.60m BGL - due to concrete.</i>



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
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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:454603.479 N:521283.232		PRAIRIE_AUK_TP146B
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 8.643	Start Date: 14/04/2020	

Figure PRAIRIE_AUK_TP146B.1
PRAIRIE_AUK_TP146B



Figure PRAIRIE_AUK_TP146B.2
PRAIRIE_AUK_TP146B - Spoil





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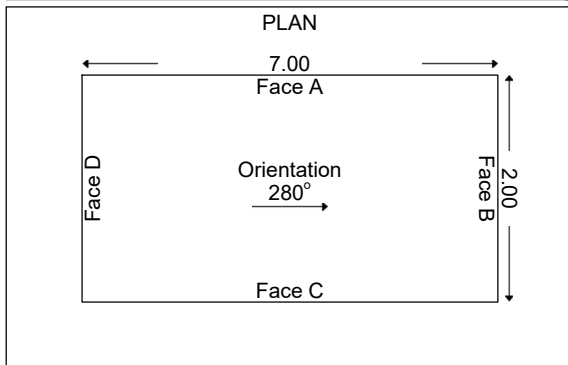
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TRIAL PIT RECORD

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: 1 of 3	

SAMPLES & TESTS			Water	STRATA		
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)
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					from c.2.50m BGL ... fissured.
2.50	PID	<0.1ppm				
2.50	HSV	97 (30)kPa				
2.50	ES9					
2.50	J10					
2.70			5.68		3.00	Complete at 3.00m BGL.



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:-
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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





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TRIAL PIT RECORD

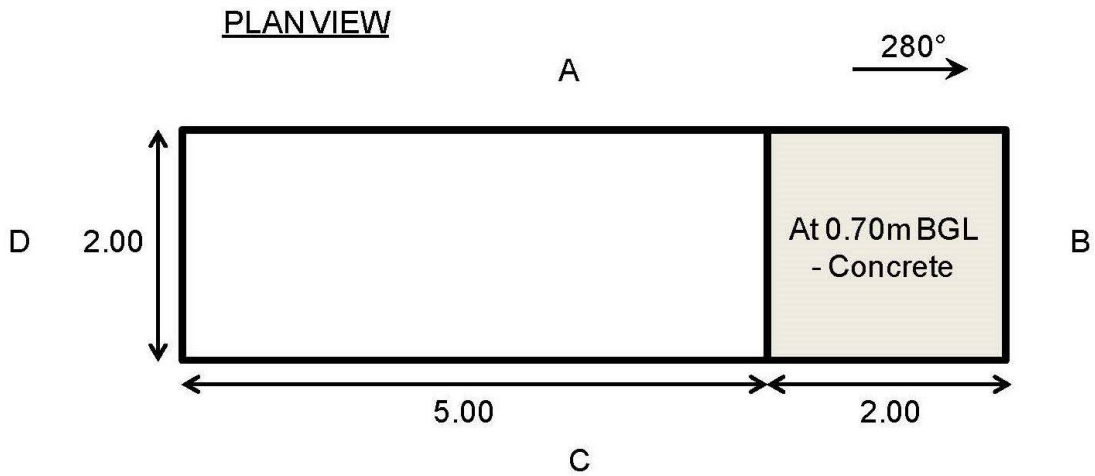
Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No.	
Client: South Tees Development Corporation	Location: E:454595.940 N:521282.000		PRAIRIE_AUK_TP146C
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



Figure PRAIRIE_AUK_TP146C.4
PRAIRIE_AUK_TP146C Sketch



Not to scale
All measurements in metres
unless otherwise stated



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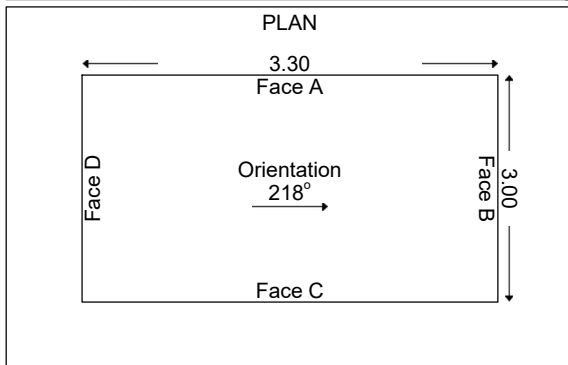
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.40	J1		↓ Water		[Cross-hatch pattern]	(0.80)	MADE GROUND (Brown gravelly sand. Sand is fine to coarse. Gravel is fine to coarse subangular and includes concrete, brick and slag. Slag content is 0-25%. Slag is vesicular grey green white).
0.60	B2			7.80		0.80	
1.10	J3			7.60	1.00	MADE GROUND (Strong green grey fine grained concrete, possibly an old floor). from c.0.80m BGL ... Face C: concrete wall/structure.	
1.50	ES4	<0.1ppm		6.80	1.80	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. Slag content is 0-25%. Slag is vesicular grey green white). at c.1.80m BGL ... concrete. <i>Terminated at 1.80m BGL - due to concrete.</i>	
1.50	PID						
1.70	B5						



GROUNDWATER
 Perched water 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
 (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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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





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TRIAL PIT RECORD

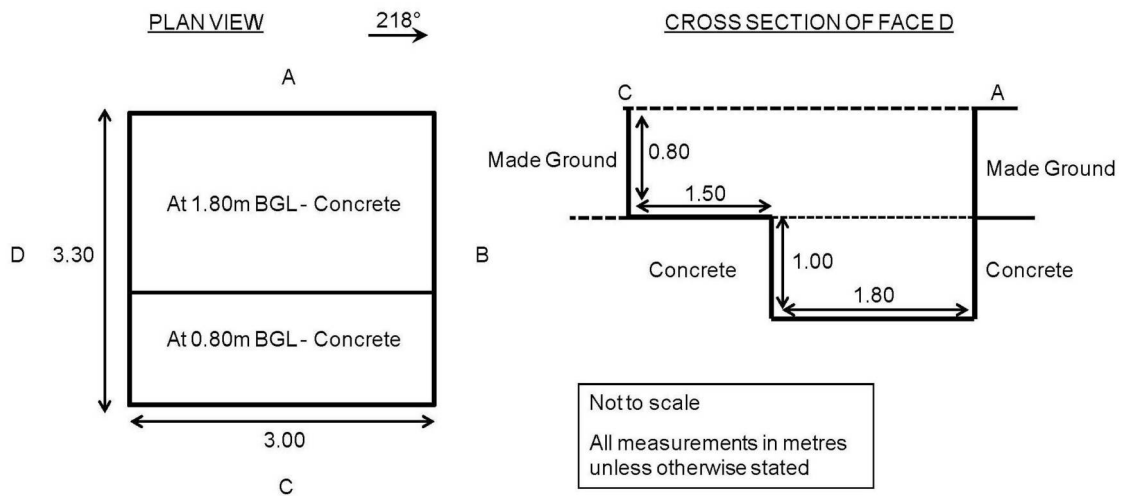
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Project: Prairie Site Ground Investigation Works		Exploratory Hole No. PRAIRIE_AUK_TP147	
Client: South Tees Development Corporation	Location: E:454535.320 N:521258.153		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m):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

Figure PRAIRIE_AUK_TP147.3
 PRAIRIE_AUK_TP147 - Spoil



Figure PRAIRIE_AUK_TP147.4
 PRAIRIE_AUK_TP147 Sketch





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

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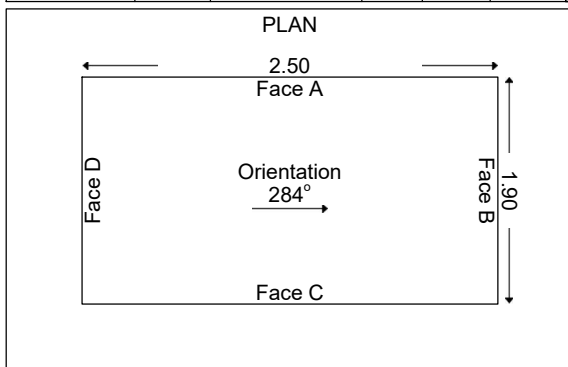
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TRIAL PIT RECORD

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



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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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





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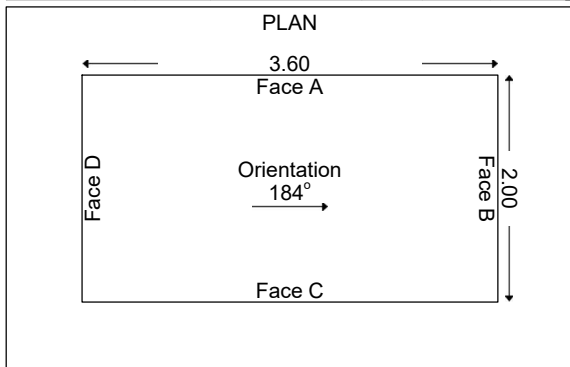
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TRIAL PIT RECORD

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: 1 of 3	

SAMPLES & TESTS			STRATA						
Depth	Type No	Test Result	Water	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 and 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	<0.1ppm		7.46		(0.50)	1.50	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. Slag content is 0-25%. Slag is vesicular grey green white).	
1.30	B4						(0.50)	2.00	between c.1.00-1.20m BGL ... strong grey reinforced concrete (10mm diameter rebar).
1.40	ES5								MADE GROUND (Strong ground grey concrete or slag).
1.40	PID						Terminated at 2.00m BGL - due to concrete/slag.		
1.40	B6								
1.70									



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
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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: 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.	
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	

Figure PRAIRIE_AUK_TP148A.3
PRAIRIE_AUK_TP148A - Spoil





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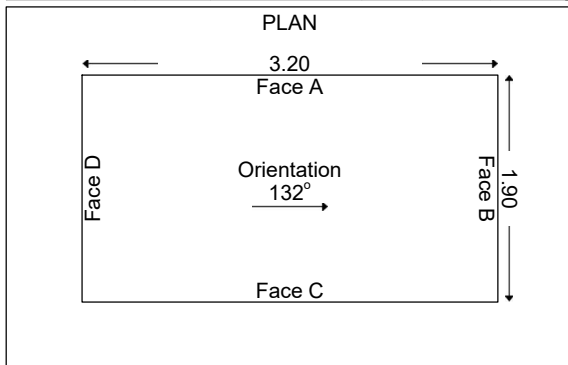
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	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 1.30	ES3 PID	<0.1ppm		6.30		1.50	
1.80	J4					(1.50)	Firm indistinctly laminated orange brown mottled grey slightly sandy CLAY.
2.00 2.20	HSV B5	55 (34)kPa					
2.80 2.80	J6 HSV	68 (20)kPa		4.80		3.00	Complete at 3.00m BGL.



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_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





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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: 3 of 3

Figure PRAIRIE_AUK_TP149.3
PRAIRIE_AUK_TP149 - Spoil





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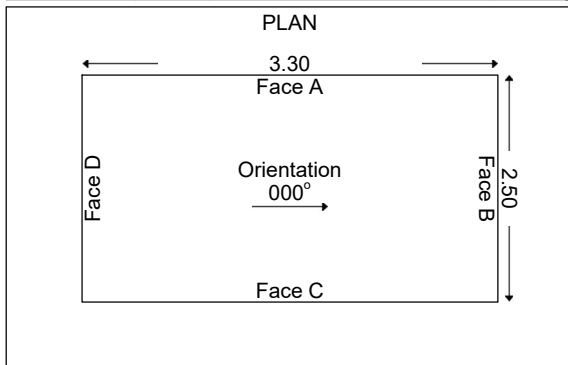
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TRIAL PIT RECORD

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			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
0.50	J1			8.67	(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).
0.60	B2				0.50	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).
1.50	ES3				1.70	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.
					2.20	at c.2.20m BGL ... 610mm diameter metal pipe (redundant) running 000 degrees. <i>Terminated at 2.20m BGL - due to service.</i>



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_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.	
Client: South Tees Development Corporation	Location: E:454235.334 N:521322.653		PRAIRIE_AUK_TP150
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

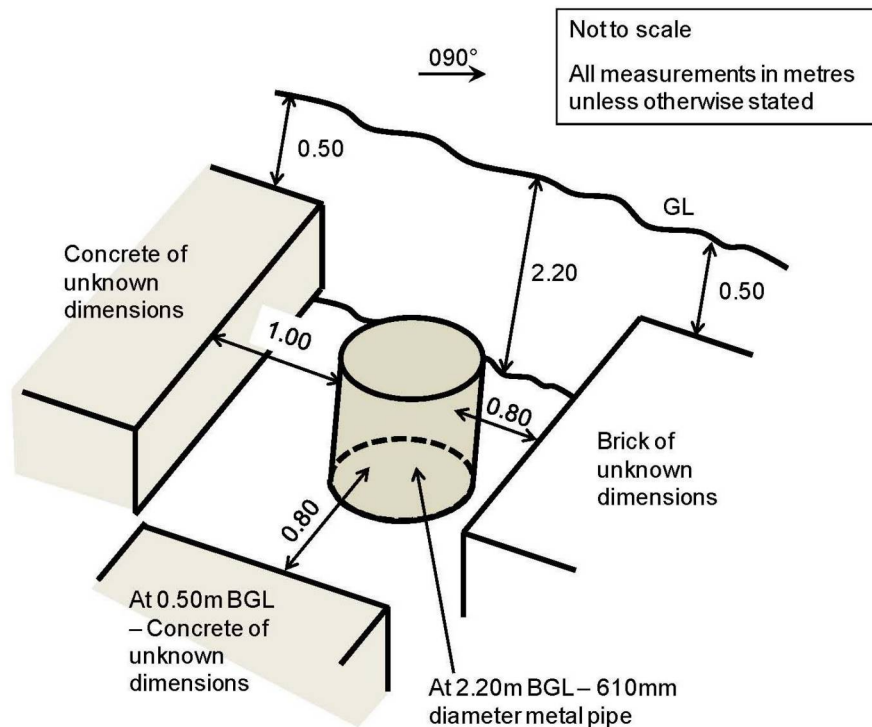
Status:-
PRELIM3

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



Figure PRAIRIE_AUK_TP150.6
PRAIRIE_AUK_TP150 Sketch





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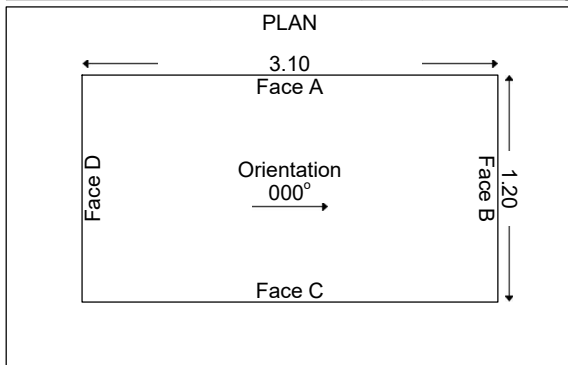
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.30	J1			10.30	[Cross-hatched pattern]	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).
0.40	B2			10.00		0.50	
0.50	PID	1.1ppm		9.90		0.60	
0.80	J3				[Cross-hatched pattern]		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).
1.00	B4						
1.00	PID	0.8ppm					
1.20	ES5						
1.50	PID	0.9ppm					
1.80	J6				[Cross-hatched pattern]	(2.30)	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).
2.00	B7						
2.00	PID	<0.1ppm					
2.50	PID	<0.1ppm					
2.80	J8			7.60	[Cross-hatched pattern]	2.90	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).
3.00	PID	<0.1ppm					
3.20	B9						
3.80	J10				[Cross-hatched pattern]	(1.30)	Firm (friable) brown silty CLAY with yellow silty fine to medium sand lenses. Engineer notes becoming faintly interlaminated silt and clay with depth.
4.20	B11			6.30		4.20	
							Complete at 4.20m BGL.



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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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





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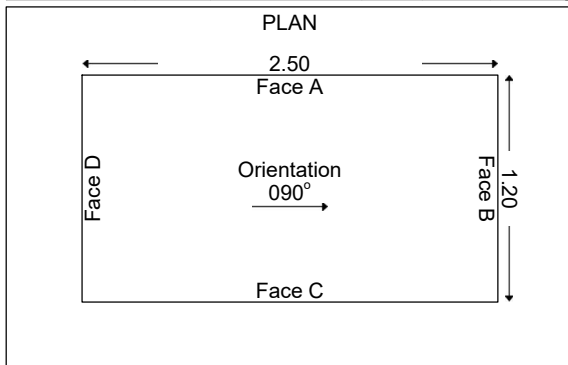
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TRIAL PIT RECORD

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: 1 of 3

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.30	J1			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).
0.50	PID	0.3ppm		9.56		0.40	
0.65	J2			9.36		0.60	
0.80	B3					(1.50)	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	1.6ppm					
1.50	PID	0.8ppm					
1.60	J4					2.10	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).
1.80	B5						
2.00	ES6			7.86			
							at c.2.10m BGL ... concrete. Complete at 2.10m BGL.



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





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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





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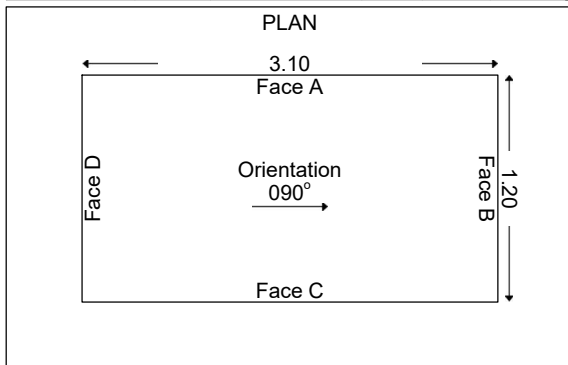
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1			9.24	[Cross-hatched pattern]	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).
0.50	PID	1.8ppm		9.14		0.30	
0.80	J2				[Cross-hatched pattern]	0.60	MADE GROUND (Macadam).
0.90	B3					(0.60)	
1.00	PID	0.5ppm		8.24	[Cross-hatched pattern]	1.20	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).
1.10	ES4						
1.50	J5				[Horizontal line pattern]	(1.20)	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					
1.60	B6				[Horizontal line pattern]		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.
2.00	PID	<0.1ppm					
2.40	J7			7.04		2.40	Complete at 2.40m BGL.



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





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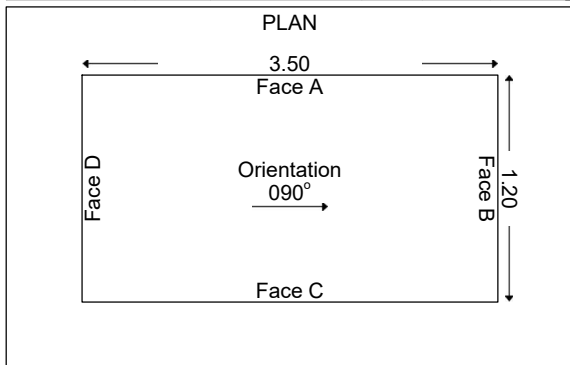
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.50	PID J1	1.1ppm		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).
0.60				8.99		0.30	
0.80	B2	0.2ppm		8.39		0.60	MADE GROUND (Grey gravel. Gravel is medium to coarse subangular and includes limestone and slag. Slag content is 0-25%).
0.85	ES3					0.90	
1.00	PID						
1.30	J4	<0.1ppm				(2.20)	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. Firm grey brown slightly sandy CLAY. Sand is fine to medium. Engineer notes grading to interlaminated silt/clay with depth.
1.50	PID						
1.60	B5						
2.30	J6						Complete at 3.10m BGL.
2.60	B7						
				6.19		3.10	



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_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





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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: 3 of 3

Figure PRAIRIE_AUK_TP154.3
PRAIRIE_AUK_TP154



Figure PRAIRIE_AUK_TP154.4
PRAIRIE_AUK_TP154 - Spoil





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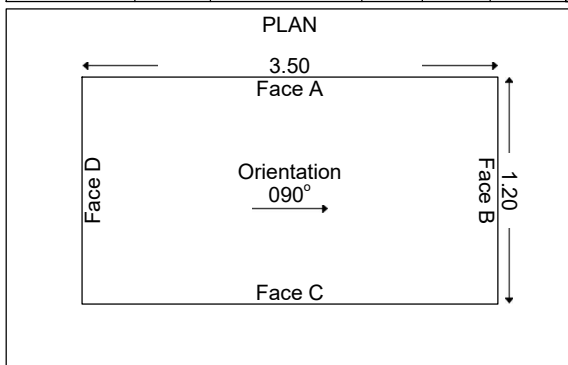
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TRIAL PIT RECORD

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: 1 of 3	

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.40	J1	1.8ppm	☞	9.34	[Cross-hatched pattern]	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).
0.40	B2			9.24		0.30	
0.50	B2	0.1ppm	☞	8.74	[Cross-hatched pattern]	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	☞		[Horizontal line pattern]	(1.40)	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						
1.50	PID	<0.1ppm	☞		[Horizontal line pattern]		Firm grey brown slightly sandy CLAY. Sand is fine to medium. Engineer notes grading to interlaminated silt and clay with depth.
1.60	B5						
2.20	J6			7.34		2.20	Complete at 2.20m BGL.



GROUNDWATER
Saturated strata 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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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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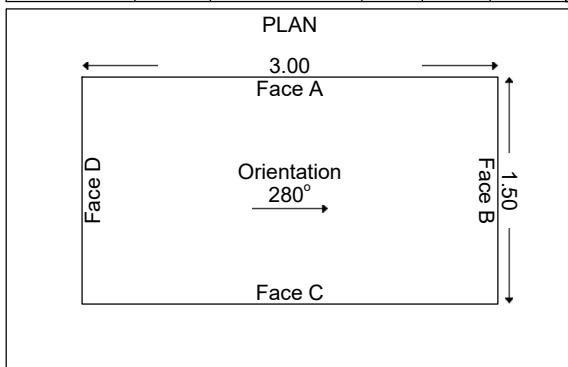
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
			↓	8.35	[Cross-hatched pattern]	(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. Slag content is 0-25%. Slag is vesicular grey green white). at c.0.60m BGL ... concrete. <i>Terminated at 0.60m BGL - due to concrete.</i>



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





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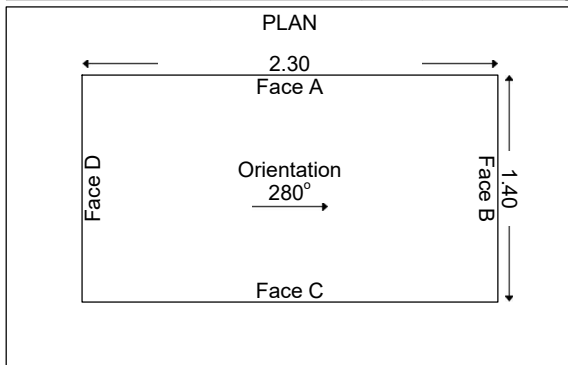
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	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			8.26		0.60	
0.30	PID	<0.1ppm					
0.50	B3						
0.70	B4			8.06		0.80	MADE GROUND (Strong dark grey fine grained concrete or 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.



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:454619.192 N:521200.662		PRAIRIE_AUK_TP156A
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 8.863	Start Date: 14/04/2020	

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.	
Client: South Tees Development Corporation	Location: E:454619.192 N:521200.662		PRAIRIE_AUK_TP156A
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 8.863	Start Date: 14/04/2020	

Figure PRAIRIE_AUK_TP156A.3
PRAIRIE_AUK_TP156A - Spoil





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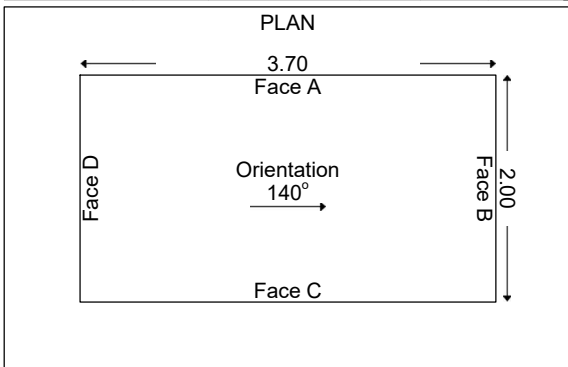
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TRIAL PIT RECORD

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			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
0.50	J1					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. Slag content is 0-25%. Slag is vesicular grey green white). at c.1.10m BGL ... concrete. <i>Terminated at 1.10m BGL - due to concrete.</i>
0.80	ES2					
0.80	PID	<0.1ppm		7.64		
1.00	B3					



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
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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





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TRIAL PIT RECORD

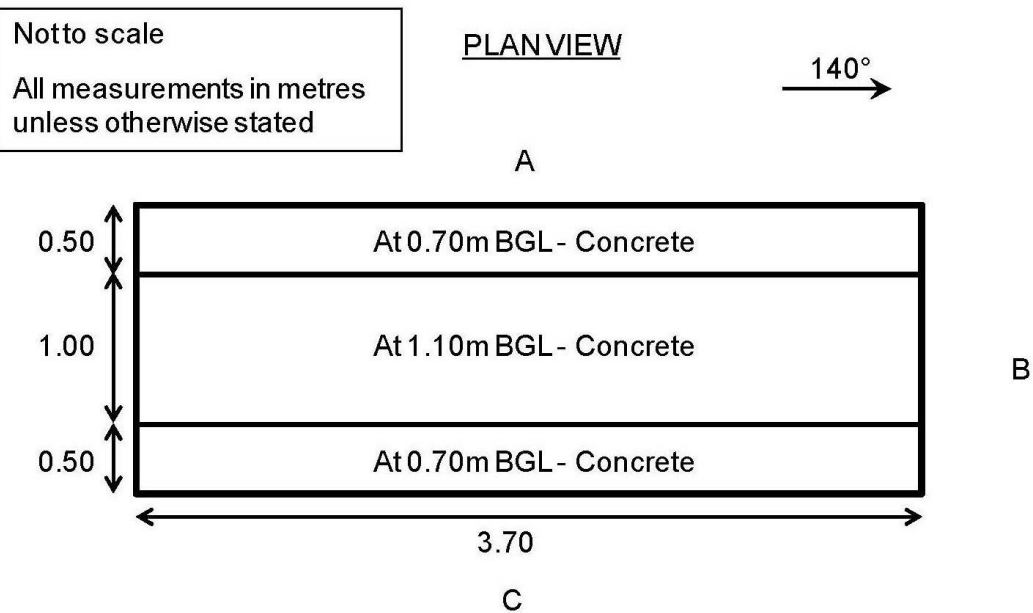
Status:-
PRELIM3

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: 3 of 3

Figure PRAIRIE_AUK_TP157.3
PRAIRIE_AUK_TP157 - Spoil



Figure PRAIRIE_AUK_TP157.4
PRAIRIE_AUK_TP157 Sketch





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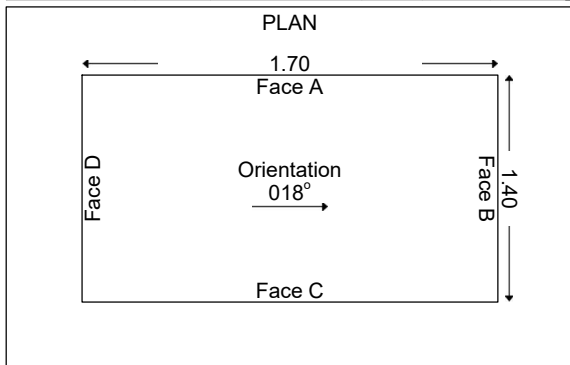
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TRIAL PIT RECORD

Status:-
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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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
				7.48		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. Slag content is 0-25%. Slag is vesicular grey green white). from c.0.10m BGL ... Face A: brick structure. at c.1.30m BGL ... concrete. <i>Terminated at 1.30m BGL - due to concrete.</i>



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
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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

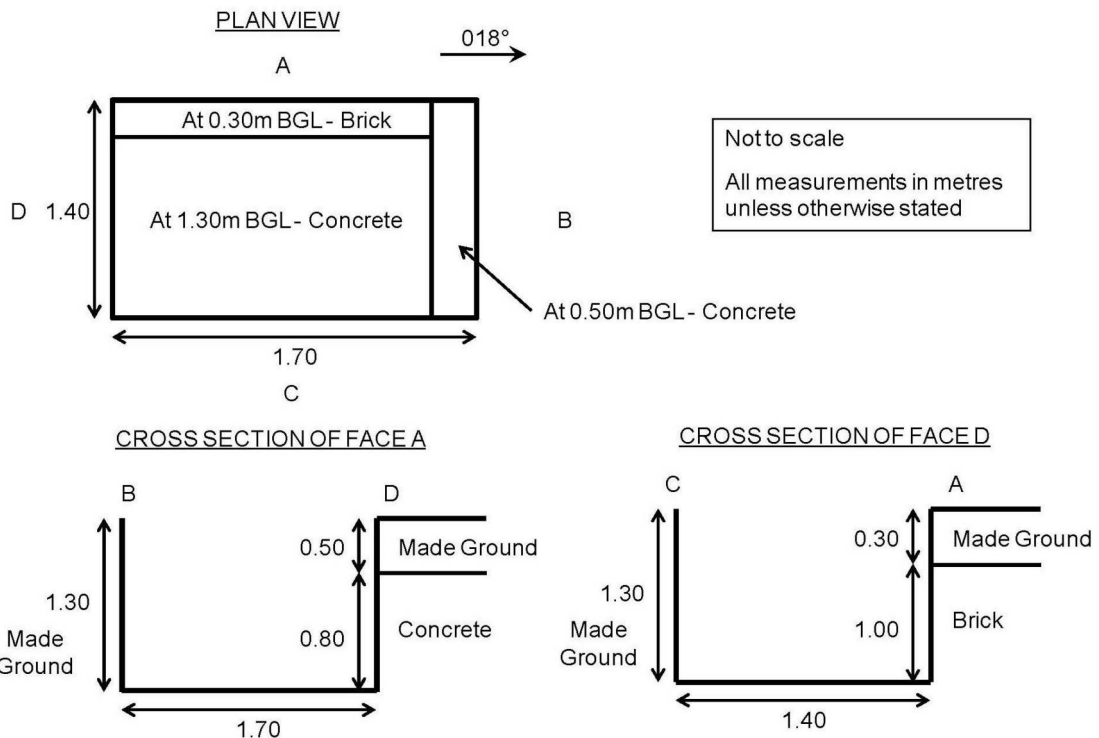
Status:-
PRELIM3

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



Figure PRAIRIE_AUK_TP157A.4
PRAIRIE_AUK_TP157A Sketch





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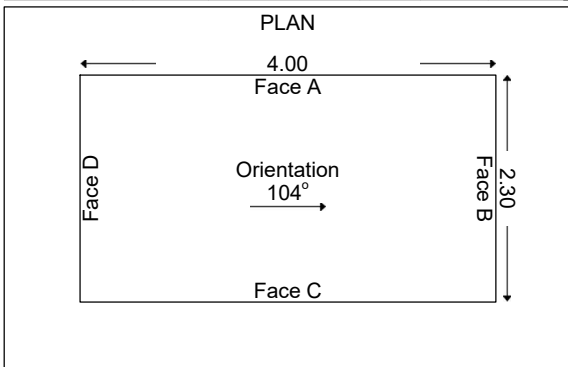
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TRIAL PIT RECORD

Status:-
PRELIM3

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

SAMPLES & TESTS			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
			↓	5.15	(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.



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.	
Client: South Tees Development Corporation	Location: E:454499.221 N:521207.945		PRAIRIE_AUK_TP157B
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 8.652	Start Date: 17/04/2020	

Figure PRAIRIE_AUK_TP157B.1
PRAIRIE_AUK_TP157B



Figure PRAIRIE_AUK_TP157B.2
PRAIRIE_AUK_TP157B





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TRIAL PIT RECORD

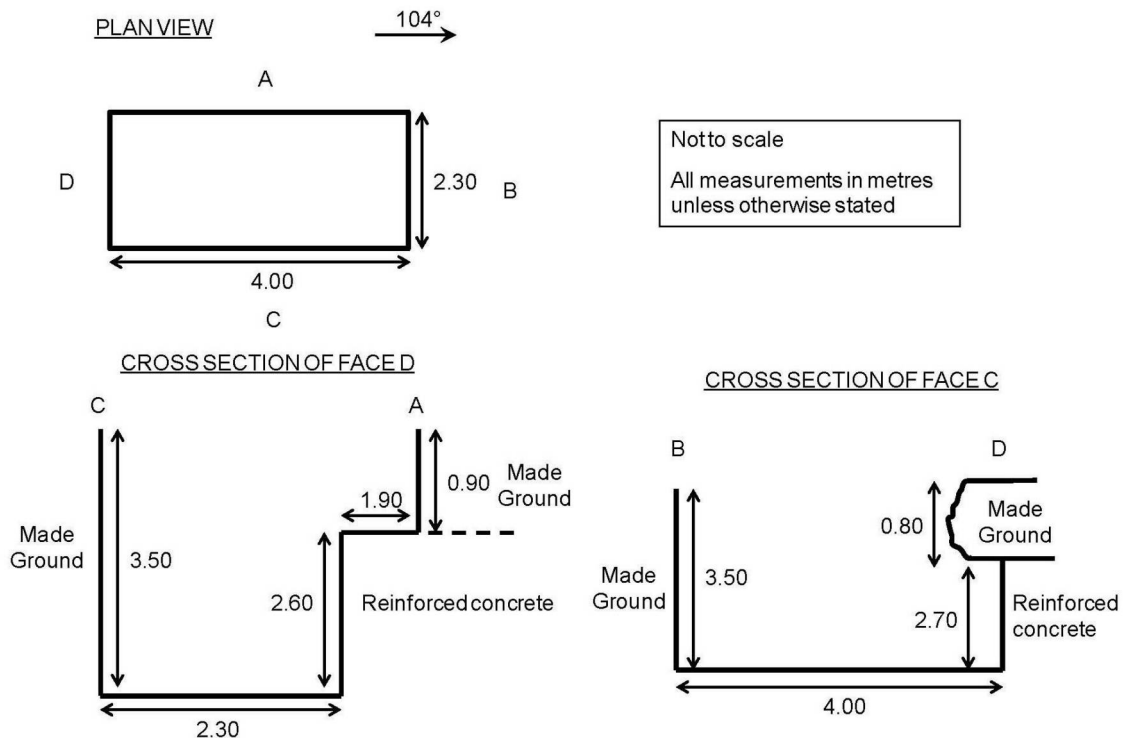
Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No.	
Client: South Tees Development Corporation	Location: E:454499.221 N:521207.945		PRAIRIE_AUK_TP157B
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



Figure PRAIRIE_AUK_TP157B.4
 PRAIRIE_AUK_TP157B Sketch





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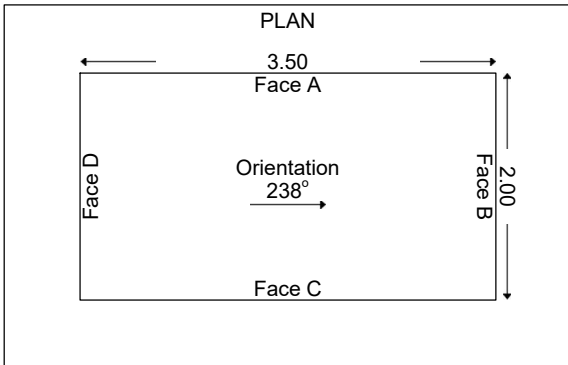
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TRIAL PIT RECORD

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: 1 of 4	

SAMPLES & TESTS			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
0.50	J1		↓		[Cross-hatch pattern]	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. Slag content is 0-25%. Slag is vesicular grey green white).
1.00	B2			(2.00)		
1.30	ES3	<0.1ppm				Firm to stiff indistinctly laminated orange brown mottled grey slightly sandy CLAY.
1.30	PID					
1.50	J4					
1.90	B5			6.66	2.00	
2.50	J6	95 (41)kPa				Complete at 3.20m BGL.
2.50	HSV			(1.20)		
3.00	B7		5.46	3.20		



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
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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:454406.541 N:521196.157		PRAIRIE_AUK_TP158
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 8.657	Start Date: 17/04/2020	Sheet: 2 of 4

Figure PRAIRIE_AUK_TP158.1
PRAIRIE_AUK_TP158



Figure PRAIRIE_AUK_TP158.2
PRAIRIE_AUK_TP158





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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 4

Figure PRAIRIE_AUK_TP158.3
PRAIRIE_AUK_TP158



Figure PRAIRIE_AUK_TP158.4
PRAIRIE_AUK_TP158 - Spoil





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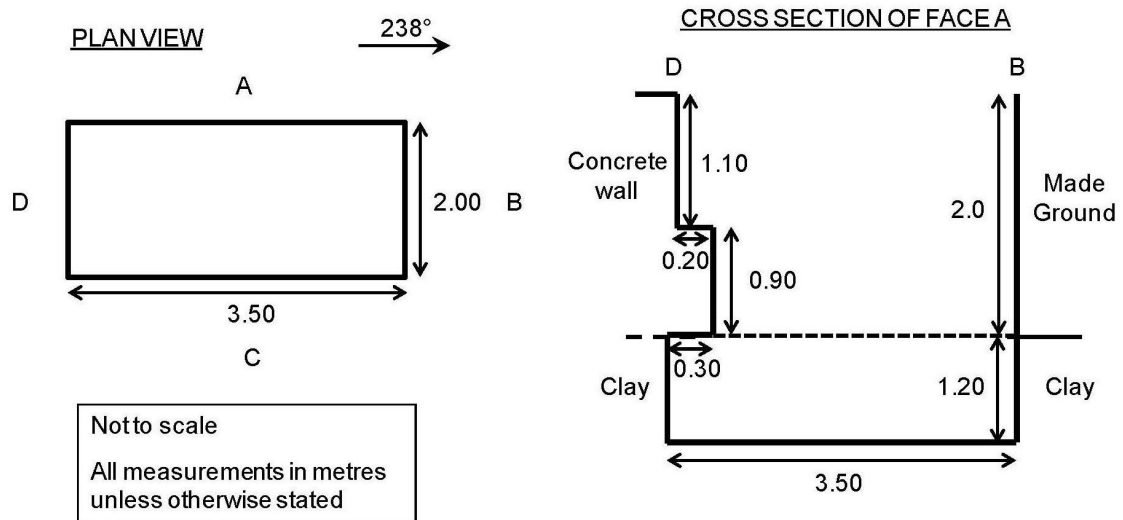
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TRIAL PIT RECORD

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: 4 of 4

Figure PRAIRIE_AUK_TP158.5
PRAIRIE_AUK_TP158 Sketch





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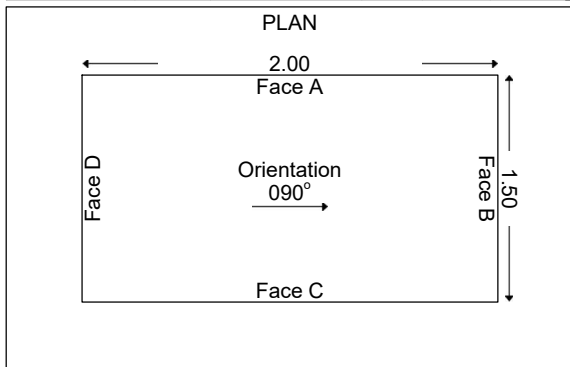
Tel: 0191 387 4700 Fax: 0191 387 4710
 Tel: 01772 735 300 Fax: 01772 735 999

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			STRATA						
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description		
0.20	J1	<0.1ppm		8.01		(0.90)	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					(0.60)			
0.60	ES3					7.41		1.50	MADE GROUND (Brown gravel. Gravel is fine to medium subrounded and includes sandstone and clinker). (Pipe bedding). at c.1.20m BGL ... 150mm diameter clay pipe (broken).
0.60	PID							(1.00)	Soft to firm (friable) interlaminated brown SILT and CLAY with silty sand/sandy silt lenses.
1.80	J4								
2.30	B5			6.41		2.50	Complete at 2.50m BGL.		



GROUNDWATER
 Saturated strata 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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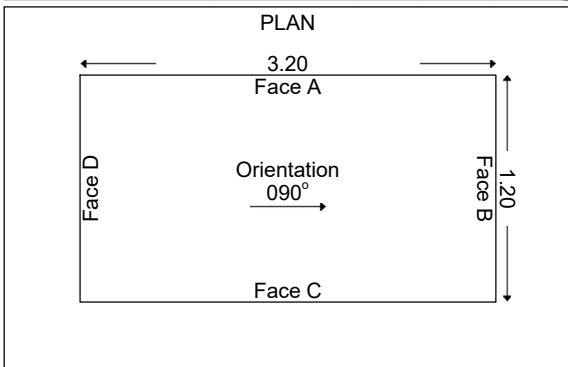
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 Tel: 01772 735 300 Fax: 01772 735 999

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			STRATA				
Depth	Type No	Test Result	Water	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	
0.70	J3					0.80	MADE GROUND (Concrete and 10mm diameter rebar).
0.75	ES4						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). Firm laminated grey brown slightly sandy CLAY. Sand is fine to medium. at c.0.80m BGL ... 150mm diameter cast iron pipe (redundant) in western edge of pit running 000 degrees.
1.00	PID	0.7ppm					
1.10	J5						
1.30	B6					1.30	
1.50	PID	<0.1ppm					
2.10	J7			7.96		2.10	Complete at 2.10m BGL.



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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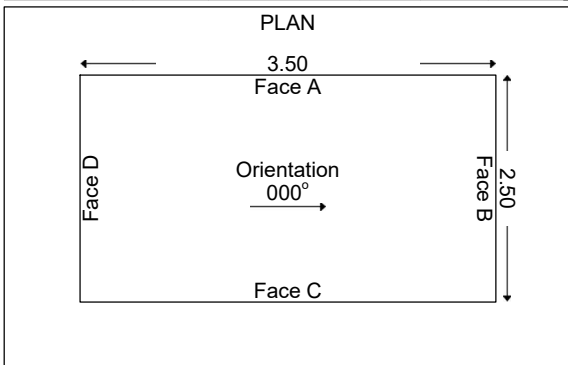
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TRIAL PIT RECORD

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 4	

SAMPLES & TESTS			Water	STRATA		
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)
0.50	J1		9.73	[Cross-hatched pattern]	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).
0.80	B2	0.8ppm			(0.90)	
0.80	PID					
1.00	ES3		8.83	[Cross-hatched pattern]	1.20	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).
1.50	J4			[Horizontal line pattern]	(1.50)	(Engineer notes concrete structure close to pit walls). at c.1.20m BGL ... concrete noted. Pit extended west to avoid.
1.80	B5					between c.1.20-2.30m BGL ... possibly reworked due to adjacent structures.
2.00	ES6	<0.1ppm				Firm brown laminated brown CLAY with yellow fine to coarse sand lenses.
2.00	PID					
2.50	J7		7.33	[Horizontal line pattern]	2.70	Complete at 2.70m BGL.



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 4

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 4

Figure PRAIRIE_AUK_TP161.3
PRAIRIE_AUK_TP161



Figure PRAIRIE_AUK_TP161.4
PRAIRIE_AUK_TP161 - Spoil





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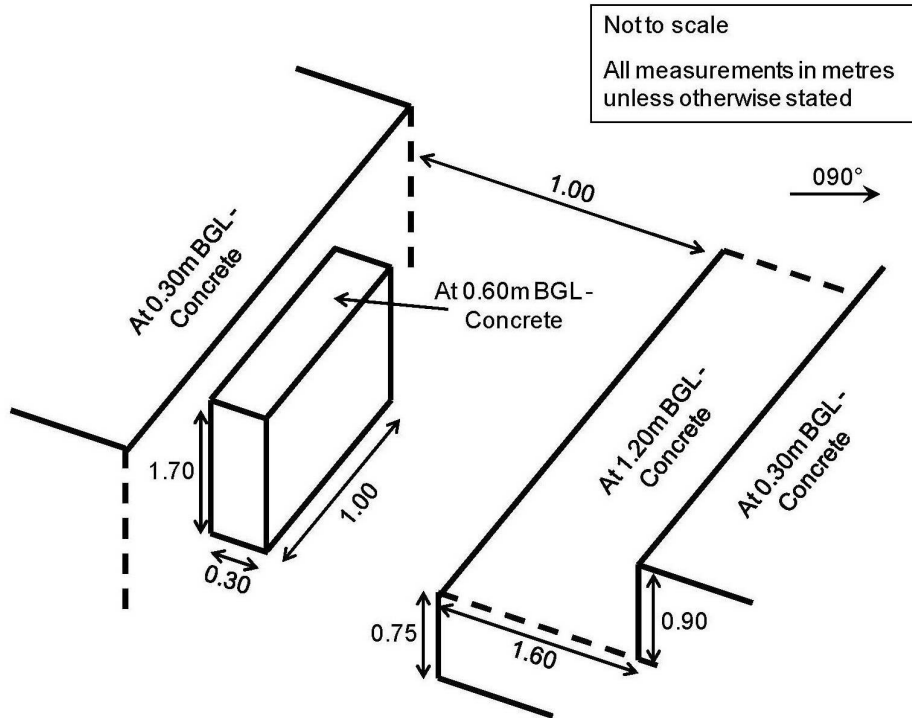
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TRIAL PIT RECORD

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: 4 of 4

Figure PRAIRIE_AUK_TP161.5
PRAIRIE_AUK_TP161 Sketch





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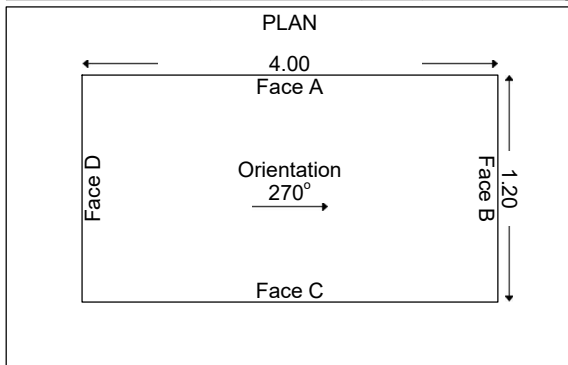
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TRIAL PIT RECORD

Status:-
PRELIM3

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

SAMPLES & TESTS			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
0.70	J1			10.16	(0.40)	MADE GROUND (Brown red yellow cobbles. Cobbles are angular and include red brick).
0.90	B2			10.06	0.40 0.50	MADE GROUND (Concrete).
1.60	J3				(1.30)	MADE GROUND (Black brown sandy gravel with medium cobble content and fragments of wood. Sand is fine to coarse. Gravel is fine to coarse subangular and includes brick, slag, ash and clinker. Slag content is 50-75%. Cobbles are angular and include slag and red brick. Slag content is 25-50%. Slag is vesicular grey).
1.70	ES4	<0.1ppm		8.76	1.80	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				(1.20)	
2.00	J5				3.00	
2.50	B6			7.56		
3.10	J7				(1.00)	Firm interlaminated brown slightly sandy SILT and CLAY.
3.50	B8			6.56	4.00	at c.3.50m BGL ... insufficiently cohesive.
						Complete at 4.00m BGL.



GROUNDWATER
Saturated strata 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.	
Client: South Tees Development Corporation	Location: E:454442.350 N:521100.483		PRAIRIE_AUK_TP162
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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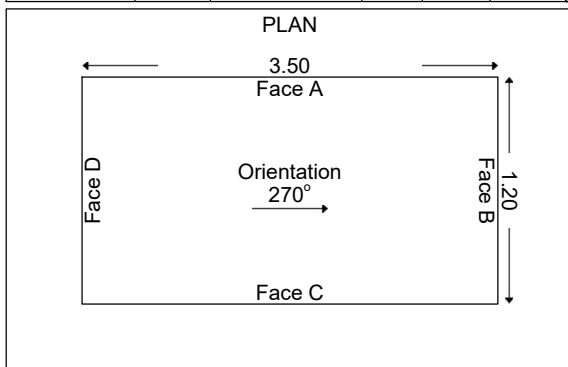
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1			9.78		0.10	MADE GROUND (Brown black sand with many rootlets. Sand is fine to coarse and includes ash).
0.80	B2			8.88		1.00	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).
1.20	ES3 PID	4.5ppm		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). Soft to firm grey brown slightly sandy CLAY.	
1.60	J4 B5					1.10	
1.90	ES6 PID HSV	2.1ppm 54 (36)kPa					
2.00				7.48		2.40	Complete at 2.40m BGL.



GROUNDWATER
Saturated strata 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. 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: 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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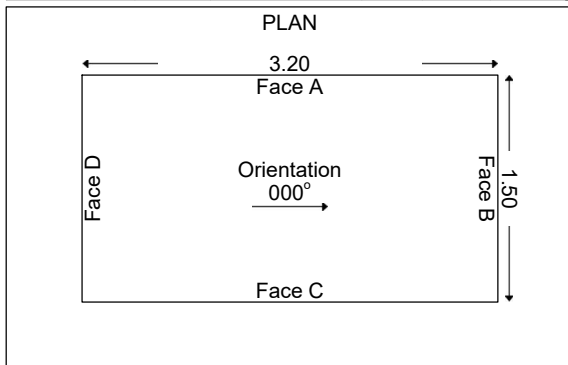
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TRIAL PIT RECORD

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			STRATA					
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	
0.50	J1	<0.1ppm		9.60		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).	
0.60	B2			9.20		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).	
0.70	ES3			8.80		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	PID						MADE GROUND (Brown red orange slightly gravelly sand. Sand is fine to coarse. Gravel is fine to medium subangular and includes clinker and coke).	
1.00	B4	<0.1ppm		7.60		2.40	Soft to firm interlaminated brown SILT and CLAY with silty sand lenses.	
1.30	ES5							
1.30	PID							
1.40	J6							
1.80	B7							
2.60	J8					1.40		
2.80	B9							
3.80	J10			6.20		3.80	Complete at 3.80m BGL.	



GROUNDWATER
 Saturated strata 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
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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: 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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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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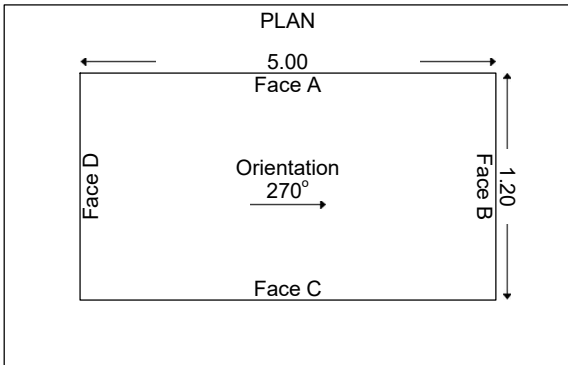
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TRIAL PIT RECORD

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: 1 of 3	

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	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). from c.0.00m BGL ... Face B: Concrete pillars.	
0.80	B2						
1.00	ES3	<0.1ppm					
1.00	PID			(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). at c.3.30m BGL ... concrete. Engineer notes evidence of reworked clay but unable to excavate properly to determine due to concrete. <i>Complete at 3.30m BGL.</i>
3.30	PID	<0.1ppm	10.19	3.30			
3.30	ES8						



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides moderately unstable throughout excavation.

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

GENERAL REMARKS
 (1) Brick wall found in Face A - set back under the concrete top layer - unable to measure. Refer to Photographs and sketches for further details.
 (2) Brick wall bisects pit (between Face A and Face C). Mainly demolished during excavation.

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

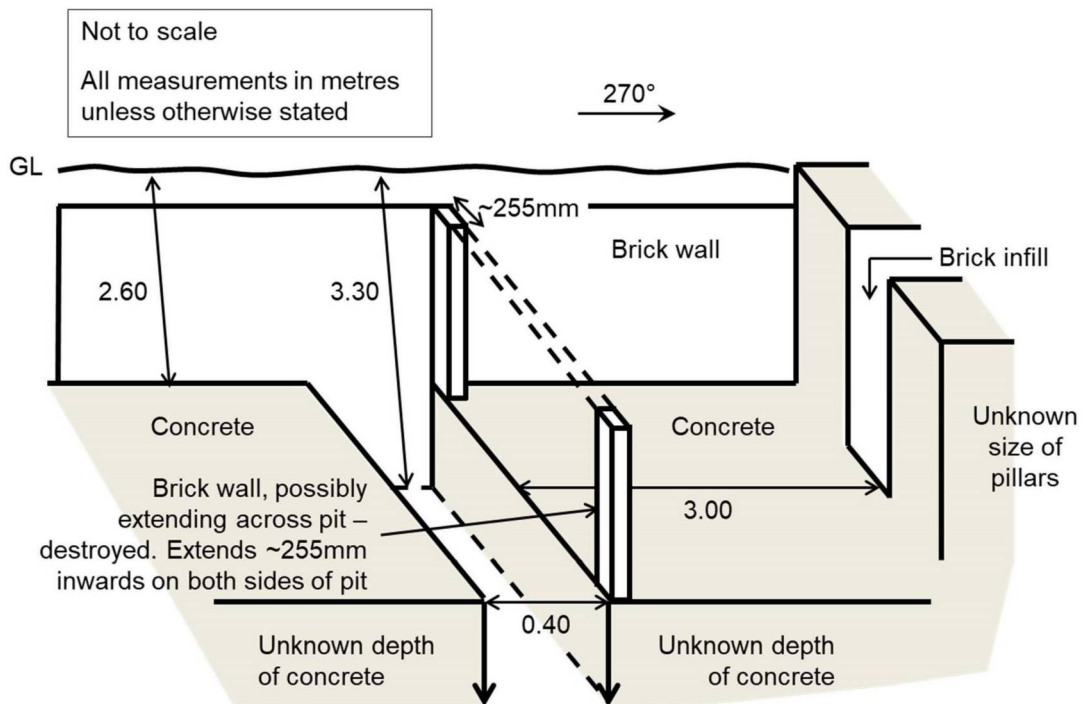
Status:-
PRELIM3

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



Figure PRAIRIE_AUK_TP165.4
PRAIRIE_AUK_TP165 Sketch





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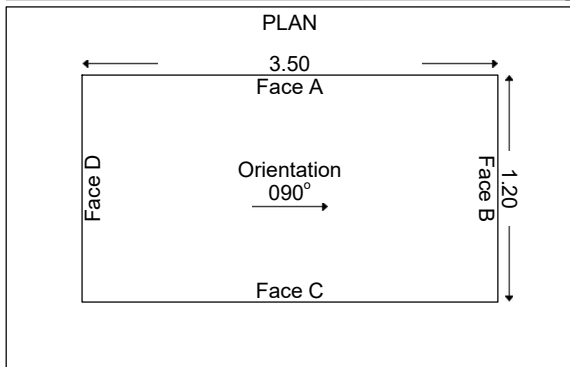
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.35	J1	0.2ppm		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).
0.40	B2			10.59		0.50	
0.45	ES3			10.29		0.80	
0.50	PID	<0.1ppm				(0.70)	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). MADE GROUND (Soft to firm grey mottled black silty clay). Firm slightly laminated brown grey CLAY.
0.60	J4						
0.70	B5						
1.00	J6						
1.00	PID						
1.10	B7			9.59		1.50	Complete at 1.50m BGL.
1.20	ES8						



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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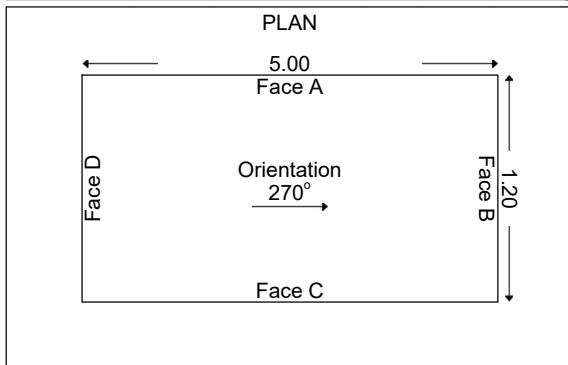
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1			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%).
0.80	B2					(2.40)	MADE GROUND (Grey cobbles and boulders with rebar (10-50mm). Cobbles and boulders are angular and include concrete).
1.50	J3						
1.80	B4						
2.40	J5			10.61			2.60
2.50	ES6	<0.1ppm					Complete at 2.60m BGL.
2.50	PID						



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_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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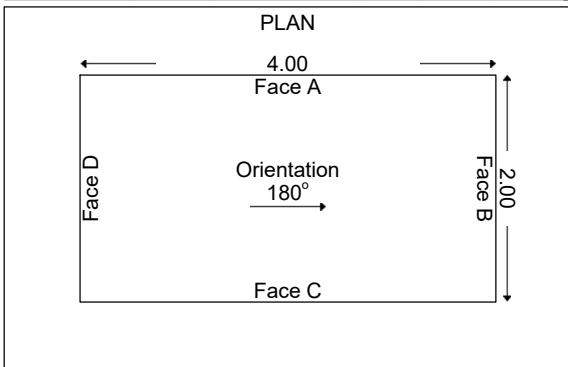
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.05	ES1	<0.1ppm		10.02		0.10	MADE GROUND (Brown clayey sand with many rootlets. Sand is fine to coarse and includes ash).
0.05	PID			9.72		0.40	
0.20	J2			9.02		(0.70)	
0.30	B3					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)	
0.60	J4						
0.80	B5	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	96 (42)kPa		8.02		(1.00)	Firm to stiff brown red grey CLAY with occasional sand lenses.
1.60	B7						
2.00	HSV					2.10	Complete at 2.10m BGL.



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
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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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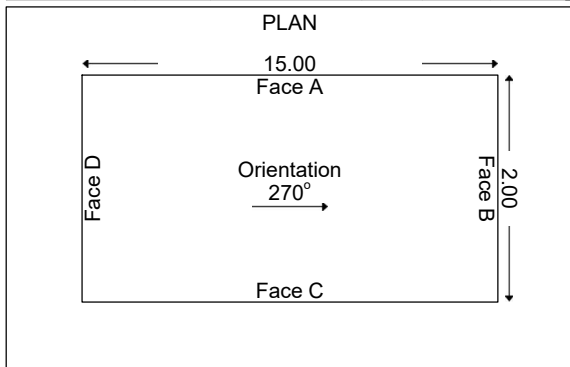
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No.	
Client: South Tees Development Corporation		Location: E: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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1			12.23	[Cross-hatched pattern]	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). at c.0.70m BGL ... concrete slab (coke oven slab). Pit extended 3.00m east.
0.80	B2			11.73		1.20	
1.50	ES3			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 red and yellow brick. Slag content is 0-25%. Slag is vesicular grey. Engineer also notes iron plates, 50mm rebar, cast iron metal objects). 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.
							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. <i>Complete at 2.20m BGL.</i>



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_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





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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: 3 of 4

Figure PRAIRIE_AUK_TP169.3
PRAIRIE_AUK_TP169



Figure PRAIRIE_AUK_TP169.4
PRAIRIE_AUK_TP169





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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: 4 of 4

Figure PRAIRIE_AUK_TP169.5
PRAIRIE_AUK_TP169 - Spoil





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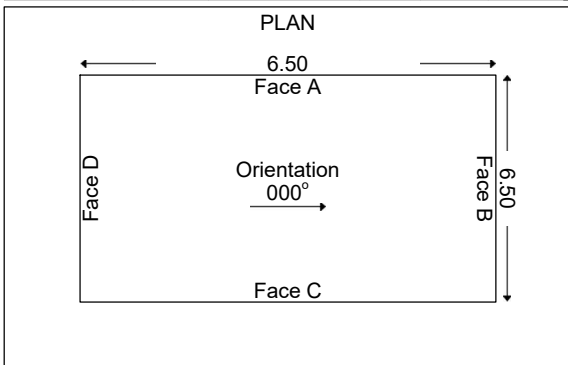
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TRIAL PIT RECORD

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: 1 of 3	

SAMPLES & TESTS			Water	STRATA				
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description	
0.30	J1	<0.1ppm		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).	
0.40	B2					(0.50)		
0.50	ES3					9.71		0.70
0.50	PID					9.61		0.80
1.00	ES4	17.5ppm				(0.50)	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	PID					9.11		1.30
1.50	J5	1.1ppm				(0.50)	MADE GROUND (Concrete and cast iron cover. Pit extended to excavate down eastern edge of slab).	
1.50	PID					8.61		1.80
1.80	B6							
							MADE GROUND (Firm grey mottled black silty slightly sandy clay with yellow brown sand lenses. Sand is fine to medium. Slight hydrocarbon odour).	
							Firm to stiff (friable) laminated red brown CLAY with brown silty fine to medium sand lenses.	
							Complete at 1.80m BGL.	



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_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





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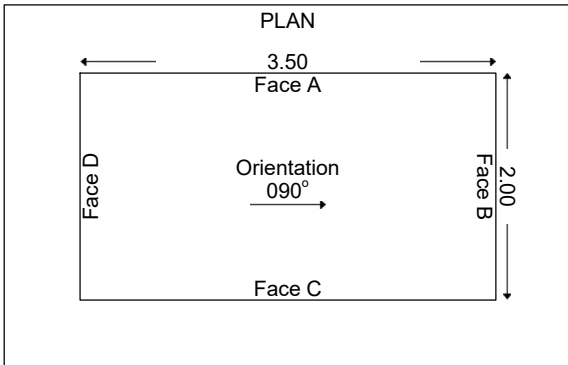
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.50	PID	1.4ppm		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).
0.60	J1					(0.50)	
0.70	B2						
0.75	ES3			10.59		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).
1.00	PID	1.3ppm					
1.10	J4			10.29		1.30	MADE GROUND (Soft to firm grey mottled silty clay).
1.20	B5						
1.30	ES6						
1.50	J7					(0.80)	Firm laminated brown CLAY with yellow brown fine to coarse sand lenses.
1.50	PID	<0.1ppm					
1.80	B8			9.49		2.10	
							Complete at 2.10m BGL.



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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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





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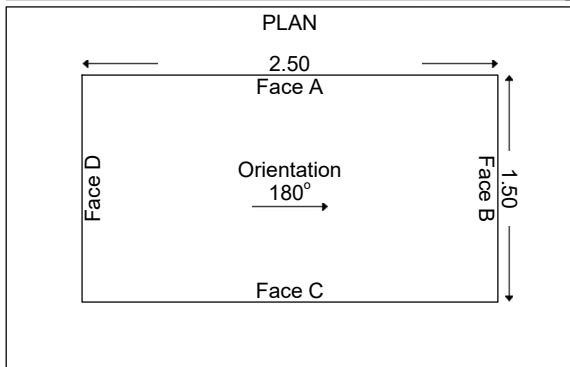
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.40	J1	<0.1ppm		12.66		0.20	MADE GROUND (Brown clayey sand with many rootlets. Sand is fine to coarse and includes ash).
0.60	B2			11.90		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).	
0.80	ES3						
0.80	PID						
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. <i>Terminated at 2.10m BGL - due to instability and concrete obstruction.</i>			



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





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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: 3 of 3

Figure PRAIRIE_AUK_TP172.3
PRAIRIE_AUK_TP172 - Spoil





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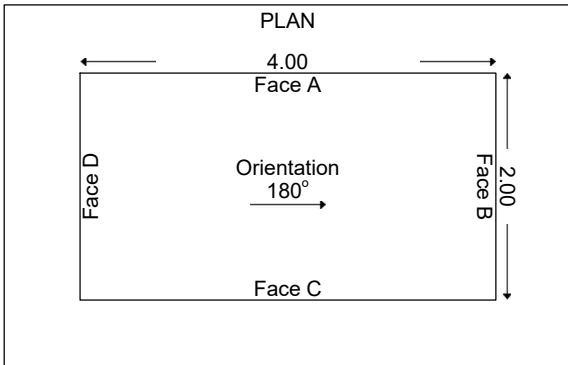
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	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	
0.60	J1	<0.1ppm					MADE GROUND (Grey gravel. Gravel is medium to coarse subangular to subrounded and includes slag. Slag content is 75-100%. Slag is vesicular). 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						
1.40	J4						
1.50	HSV*					(2.30)	
1.80	B5						
2.40	J6						
2.50	HSV*						
				8.71		2.70	Complete at 2.70m BGL.



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.	
Client: South Tees Development Corporation	Location: E:454451.197 N:520922.212		PRAIRIE_AUK_TP173
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 11.407	Start Date: 09/04/2020	

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





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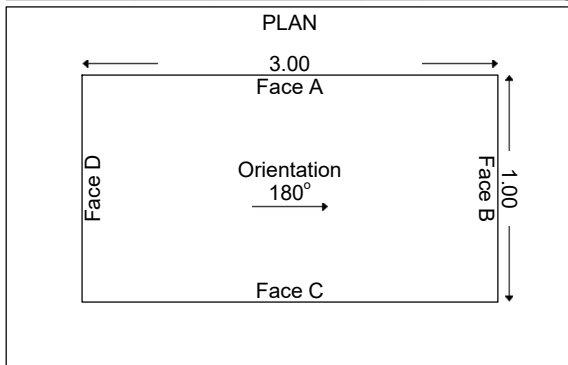
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TRIAL PIT RECORD

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			STRATA					
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	
0.40	J1			11.75		0.10	MADE GROUND (Brown clayey sand with many rootlets. Sand is fine to coarse and includes ash).	
0.60	B2					(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).	
0.80	ES3	<0.1ppm			10.75		1.10	Soft (friable) grey brown mottled clayey SILT with clay bands and yellow sand lenses. Sand is fine to coarse.
0.80	PID							
1.20	J4							
1.40	B5							
1.60	ES6	<0.1ppm						
1.60	PID							
					9.25			2.60



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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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





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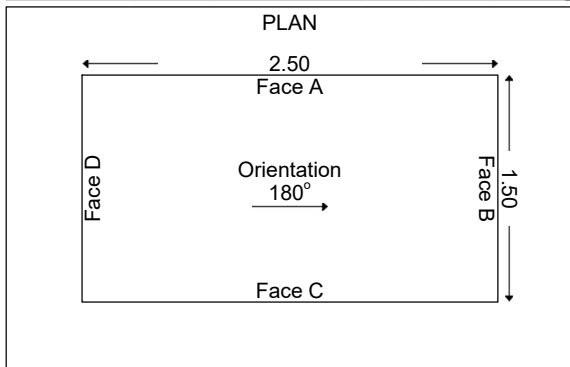
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TRIAL PIT RECORD

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: 1 of 3	

SAMPLES & TESTS			Water	STRATA		
Depth	Type No	Test Result		Reduced Level	Legend	Description
0.40	J1		11.79	[Cross-hatch pattern]	0.30	MADE GROUND (Brown clayey sand with many rootlets. Sand is fine to coarse and includes ash).
0.60	B2				(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.
0.80	ES3 PID	101.1ppm	11.19	[Cross-hatch pattern]	0.90	
1.40	J4			[X pattern]		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		[X pattern]		
1.60	B5			[X pattern]		
1.80	ES6 PID	5.3ppm		[X pattern]		
2.50	HSV*			[X pattern]		Complete at 4.50m BGL.
2.60	J7			[X pattern]	(3.60)	
2.80	B8			[X pattern]		
3.50	HSV*			[X pattern]		
3.60	J9			[X pattern]		
			7.59	[X pattern]	4.50	



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





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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: 3 of 3

Figure PRAIRIE_AUK_TP175.3
PRAIRIE_AUK_TP175 - Spoil





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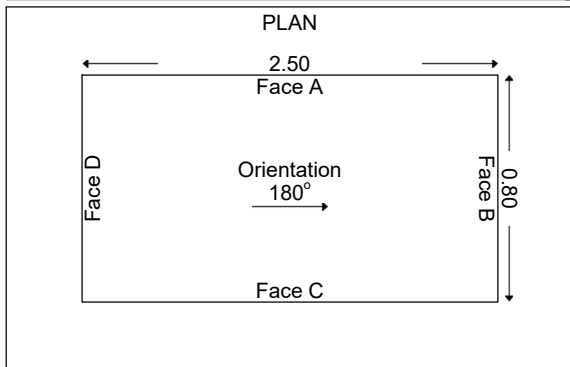
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No.	
Client: South Tees Development Corporation		Location: PRAIRIE_AUK_TP176	
Method (Equipment): Machine Excavated (360 Tracked Excavator)		Ground Level (m): 12.168	Start Date: 07/04/2020
		Sheet: 1 of 3	

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.40	J1			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).
0.50	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	ES3	1.1ppm		11.17		1.00	(Engineer notes 150mm cast iron pipe broken and loose in pit).
0.90	PID					(1.00)	Soft to firm grey brown mottled silty CLAY/clayey SILT with traces of organic debris.
1.50	HSV	54 (36)kPa					
1.50	J4						
2.00	B5			10.17			Complete at 2.00m BGL.



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
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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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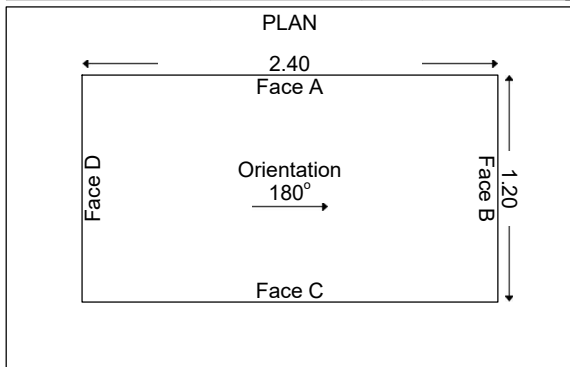
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TRIAL PIT RECORD

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			STRATA					
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	
0.50	J1	1.1ppm		12.88		0.10	MADE GROUND (Brown clayey sand with many rootlets. Sand is fine to coarse and includes ash).	
0.60	ES2			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)).
0.70	PID					(0.40)		
0.90	B3			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%).
1.00	J4			11.78		1.20		MADE GROUND (Soft to firm brown grey mottled dark grey slightly sandy clay. Sand is fine to medium).
1.40	J6	<0.1ppm				(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			10.68		2.30	Terminated at 2.30m BGL - due to instability and proximity to services.	



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.	
Client: South Tees Development Corporation	Location: E:454522.291 N:520695.237		PRAIRIE_AUK_TP177
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: 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: 3 of 3

Figure PRAIRIE_AUK_TP177.3
PRAIRIE_AUK_TP177 - Spoil





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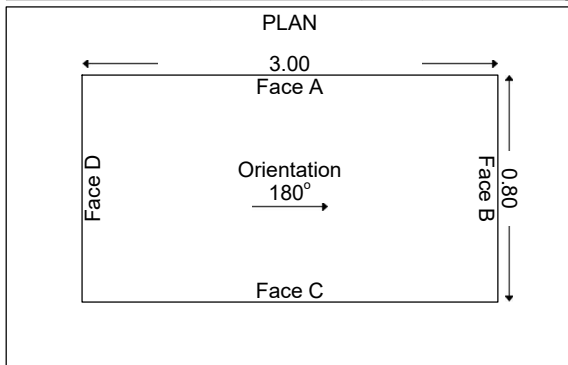
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No.	
Client: South Tees Development Corporation		Location: E: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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.40	J1			13.06		0.10	MADE GROUND (Brown clayey sand with many rootlets. Sand is fine to coarse and includes ash).
0.60	B2			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).
0.80	ES3	<0.1ppm		(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			11.66		1.50	Firm brown grey mottled dark grey slightly sandy CLAY. Sand is fine to medium.
1.40	J4			(1.70)			
1.60	B5	53 (26)kPa		9.96		3.20	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.
1.80	HSV		8.66	4.50	Complete at 4.50m BGL.		
2.80	HSV	52 (26)kPa					
3.50	HSV*						



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.	
Client: South Tees Development Corporation	Location: E:454541.891 N:520667.710		PRAIRIE_AUK_TP178
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 13.162	Start Date: 06/04/2020	

Figure PRAIRIE_AUK_TP178.3
PRAIRIE_AUK_TP178 - Spoil





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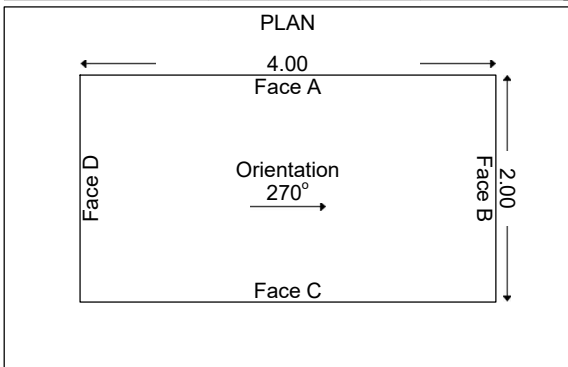
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TRIAL PIT RECORD

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			STRATA					
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	
0.20	J1		~	10.72	[Cross-hatched pattern]	0.10	MADE GROUND (Brown clayey sand with many rootlets. Sand is fine to coarse and includes ash).	
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%).	
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	3.8ppm		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 and sheen noted).	
1.40	PID							
1.70	J5	2.1ppm					0.50	
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							
2.00	ES7							
2.00	HSV*						Complete at 2.00m BGL.	



GROUNDWATER
Saturated strata 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.	
Client: South Tees Development Corporation	Location: E:454418.321 N:521016.092		PRAIRIE_AUK_TP179
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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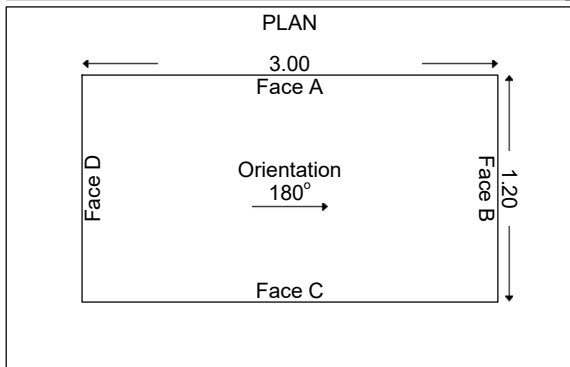
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TRIAL PIT RECORD

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: 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	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. <i>Complete at 0.40m BGL.</i>



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
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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





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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	

Figure PRAIRIE_AUK_TP180.3
PRAIRIE_AUK_TP180 - Spoil





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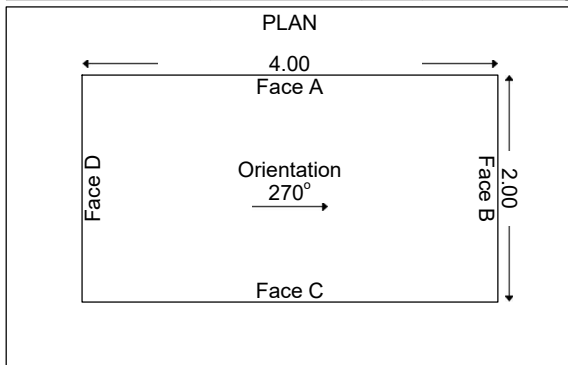
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No.	
Client: South Tees Development Corporation		Location: E: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			STRATA					
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	
0.30	J1			10.06		0.10	MADE GROUND (Brown clayey sand with many rootlets. Sand is fine to coarse and includes ash).	
0.50	B2					(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%).	
0.60	ES3	<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).
0.60	PID							
1.10	B4					8.46	1.70	Firm becoming stiff brown red grey CLAY with occasional sand lenses and interlaminated silt and clay laminae.
1.80	J5							
2.00	HSV	93 (42)kPa				(1.00)		
2.00	B6							
2.50	ES7	<0.1ppm		7.46		2.70	Complete at 2.70m BGL.	
2.50	PID							



GROUNDWATER
Saturated strata 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
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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: 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.	
Client: South Tees Development Corporation	Location: E:454402.534 N:521065.535		PRAIRIE_AUK_TP181
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 10.158	Start Date: 09/04/2020	

Figure PRAIRIE_AUK_TP181.3
PRAIRIE_AUK_TP181 - Spoil





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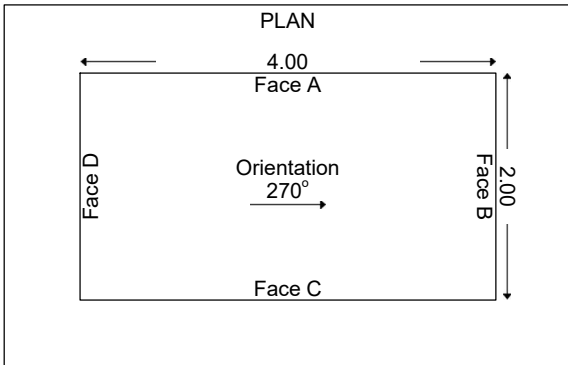
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TRIAL PIT RECORD

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			STRATA					
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	
0.30	J1			11.24		0.10	MADE GROUND (Brown clayey sand with many rootlets. Sand is fine to coarse and includes ash).	
0.60	B2			10.54		0.80	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).	
0.90	ES3	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 and sheen noted).		
0.90	PID							
1.30	J4						(1.60)	Soft to firm brown grey thinly and thickly interbedded SILT and CLAY with occasional sand lenses.
1.50	HSV*							
1.60	B5							
2.00	ES6							
2.50	HSV*			8.64		2.70	Complete at 2.70m BGL.	



GROUNDWATER
Saturated strata 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
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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





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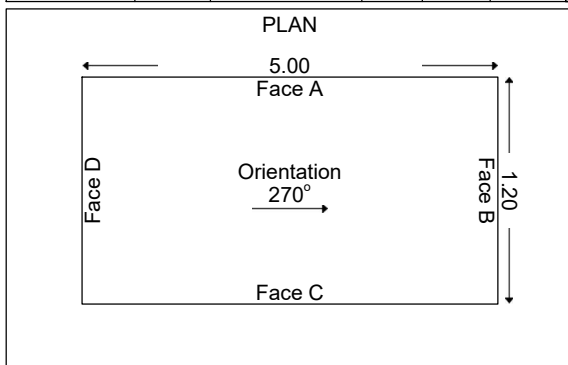
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.50	J1			13.20		0.10	MADE GROUND (Brown sand with many rootlets. Sand is fine to coarse and includes ash).
0.80	B2					(0.90)	MADE GROUND (Black brown sandy gravel with medium cobble content and fragments of wood. Sand is fine to coarse. 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%).
				12.30		1.00	MADE GROUND (Concrete with 10-20mm rebar. Pit extended to continue excavation).
				11.70		1.60	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).
						(2.50)	
				9.20		4.10	at c.4.10m BGL ... concrete slab. Terminated at 4.10m BGL - due to concrete slab.



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





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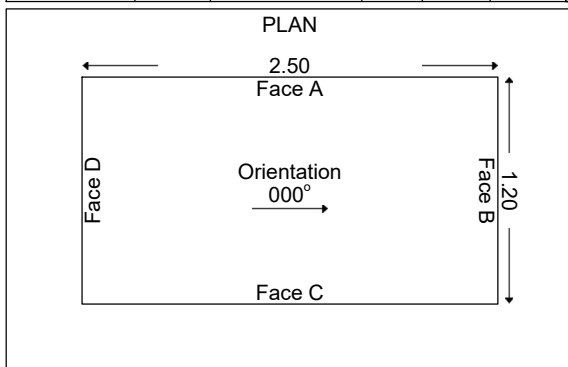
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TRIAL PIT RECORD

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: 1 of 3	

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.20 0.30 0.30	J1 ES2 PID	<0.1ppm		12.69		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 grey)
0.80	B3			11.99		1.10	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. <i>Terminated at 1.10m BGL - due to concrete obstruction.</i>



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_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





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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: 3 of 3

Figure PRAIRIE_AUK_TP184.3
PRAIRIE_AUK_TP184 - Spoil





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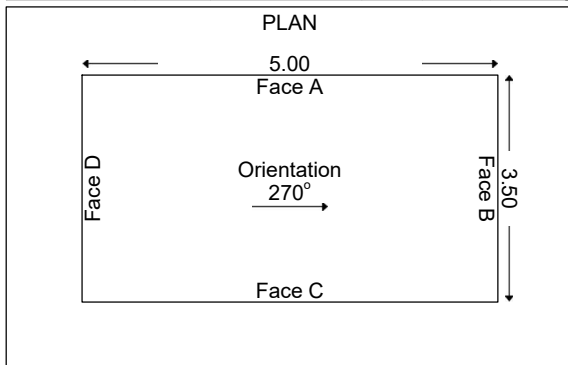
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TRIAL PIT RECORD

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			STRATA					
Depth	Type No	Test Result	Water	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							
4.10	J3			8.73		4.00	Friable interbedded brown SILT and laminated CLAY.	
4.20	B4					(0.50)		
4.30	ES5			8.23		4.50		
4.30	PID	<0.1ppm						Complete at 4.50m BGL.



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





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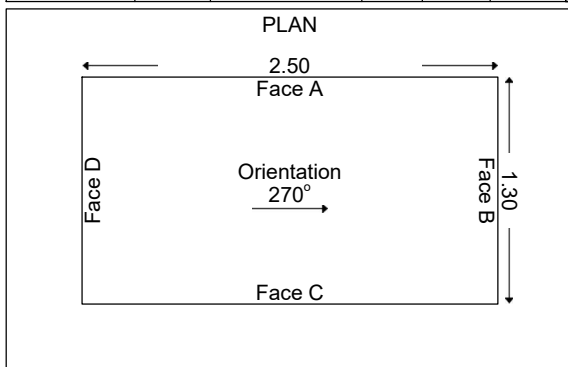
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.35	J1	5.1ppm		12.01		0.30	MADE GROUND (Brown slightly clayey sand with many rootlets. Sand is predominantly ash).
0.40	B2			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).
0.50	ES3			1.20		1.80	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).
0.50	PID						at c.1.80m BGL ... concrete base/slab.
1.00	EW4			Terminated at 1.80m BGL - due to concrete slab.			



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
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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: 2 of 3

Figure PRAIRIE_AUK_TP186.1
PRAIRIE_AUK_TP186



Figure PRAIRIE_AUK_TP186.2
PRAIRIE_AUK_TP186





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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: 3 of 3

Figure PRAIRIE_AUK_TP186.3
PRAIRIE_AUK_TP186 - Spoil





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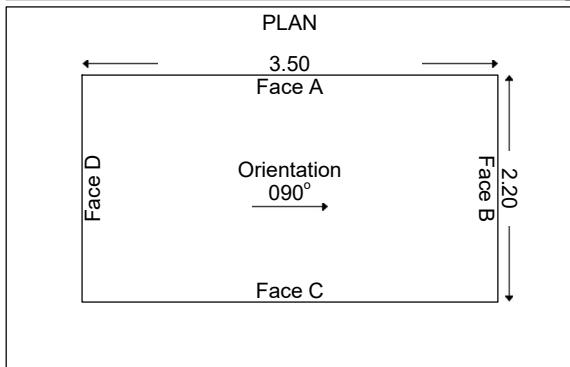
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TRIAL PIT RECORD

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			STRATA						
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description		
0.50	J1	1.3ppm		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	PID			10.32		(0.45)	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	0.2ppm		9.92		1.20	MADE GROUND (Soft to firm grey mottled black silty clay).		
0.70	ES3			9.32		(0.60)	Firm laminated brown CLAY with yellow brown fine to coarse sand lenses.		
1.00	J4					9.32		1.80	Complete at 1.80m BGL.
1.10	PID								
1.30	B5								
1.50	J6								
1.80	B7								
	ES8								



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_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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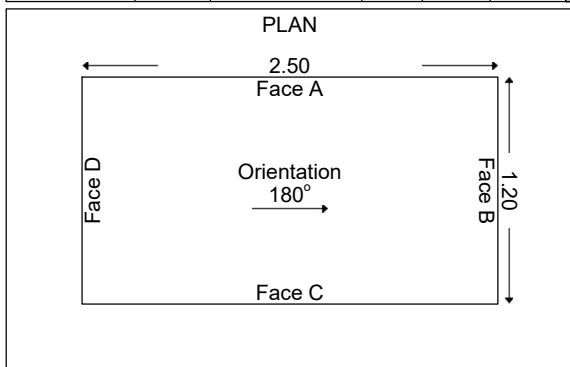
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TRIAL PIT RECORD

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			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
0.40	J1			12.52		0.10
0.60	B2			0.10		
1.00	ES3	1.2ppm		2.00		
1.00	PID					
1.40	J4					
1.60	B5		10.52	2.10	at c.2.10m BGL .. concrete obstruction (possible basement). <i>Complete at 2.10m BGL.</i>	



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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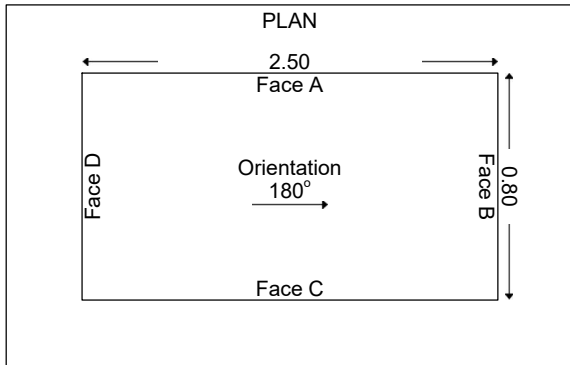
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.30	J1			12.58		0.10	MADE GROUND (Brown clayey sand with many rootlets. Sand is fine to coarse and includes ash).
0.50	B2			11.20		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).	
1.40	J3	83 (42)kPa		11.38		Soft to firm grey brown mottled silty CLAY/clayey SILT with traces of organic debris.	
1.50	HSV			1.40			
1.50	B4	<0.1ppm					
1.60	ES4A						
1.60	PID						
2.50	HSV	103 (46)kPa		9.98		2.70	
2.70	J5			9.68		3.00	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	<0.1ppm					Complete at 3.00m BGL.
3.00	PID						
3.00	ES7						



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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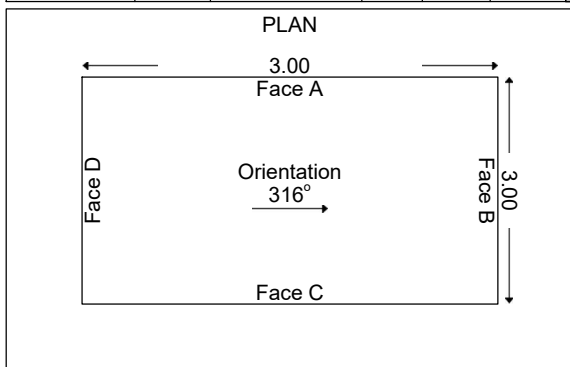
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TRIAL PIT RECORD

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: 1 of 3	

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
			↓			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. Slag content is 0-25%. Slag is vesicular grey green white).
				6.95		0.80	
				6.75		1.00	MADE GROUND (Yellow sand. Sand is fine to coarse). (Engineer notes possible pipe bedding). <i>Terminated at 1.00m BGL - due to possible service.</i>



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:-
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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: 3 of 3

Figure PRAIRIE_AUK_TP190.3
PRAIRIE_AUK_TP190 - Spoil





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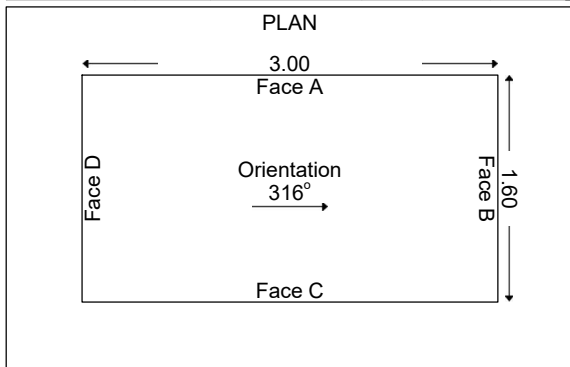
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TRIAL PIT RECORD

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			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	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. Slag content is 0-25%. Slag is vesicular grey green white). between c.0.70-1.20m BGL ... brick structure in Face C and D housing cables.
1.00	B2			6.74	1.20	
1.10	ES3	<0.1ppm				Firm thinly laminated grey brown slightly sandy CLAY with fine yellow brown sand on the laminae.
1.10	PID					
1.50	J4					
1.50	HSV	51 (20)kPa				(1.80)
2.00	B5					
2.50	J6				3.00	Complete at 3.00m BGL.
2.50	HSV	53 (18)kPa		4.94		



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

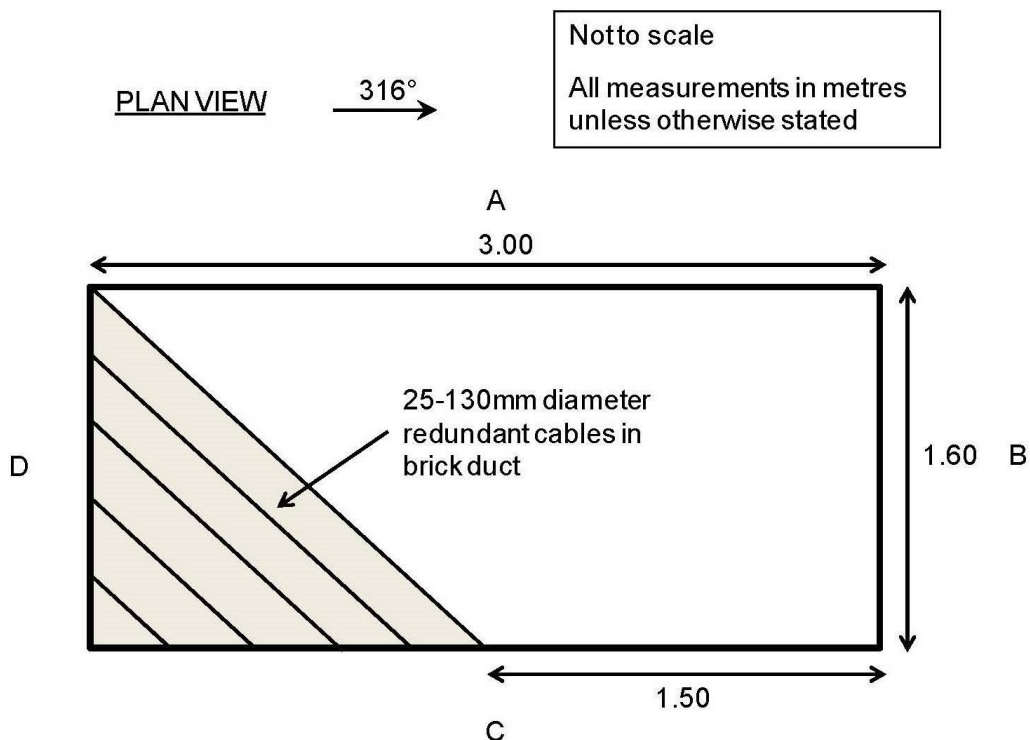
Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No. 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: 3 of 3

Figure PRAIRIE_AUK_TP190A.3
PRAIRIE_AUK_TP190A - Spoil



Figure PRAIRIE_AUK_TP190A.4
PRAIRIE_AUK_TP190A Sketch





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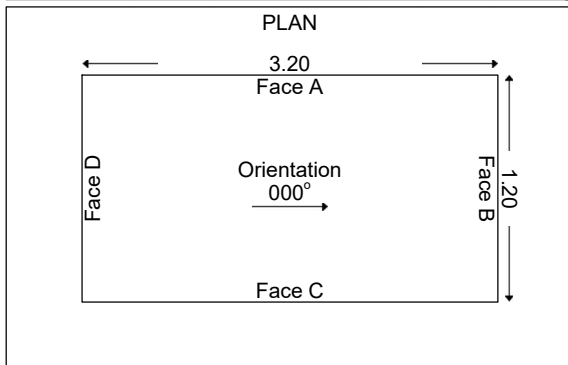
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TRIAL PIT RECORD

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: 1 of 3	

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
				8.78	[Cross-hatched pattern]	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	[Horizontal line pattern]	0.90	Soft becoming firm grey mottled black slightly sandy CLAY. Sand is fine to medium.
				7.68		(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.



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
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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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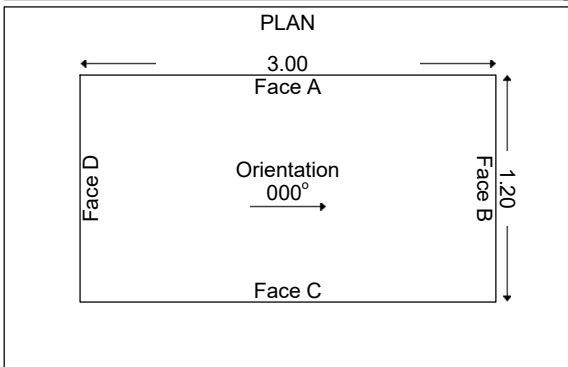
Tel: 0191 387 4700 Fax: 0191 387 4710
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No. PRAIRIE_AUK_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			STRATA				
Depth	Type No	Test Result	Water	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	Soft becoming firm grey mottled black slightly sandy CLAY. Sand is fine to medium.
				7.95		1.30	Firm brown grey CLAY.
				7.15		(0.80)	2.10 Complete at 2.10m BGL.



GROUNDWATER
 Saturated strata 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
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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: 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





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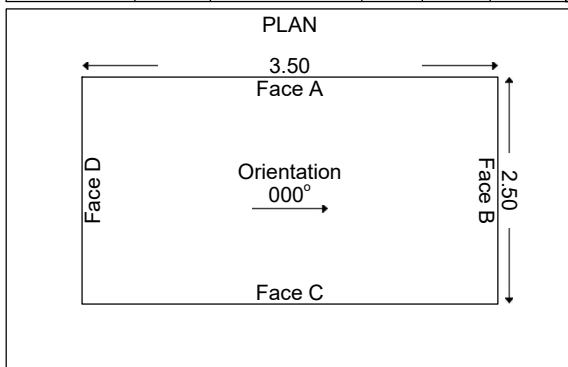
Tel: 0191 387 4700 Fax: 0191 387 4710
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No. PRAIRIE_AUK_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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.80	ES1			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). 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). 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. 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 sheen and odour noted). Firm grey green mottled black CLAY. Complete at 1.00m BGL.
				10.07		0.60	
				9.77		0.90	
				9.67		1.00	



GROUNDWATER
 Saturated strata 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: 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: 3 of 3

Figure PRAIRIE_AUK_TP193.3
PRAIRIE_AUK_TP193 - Spoil





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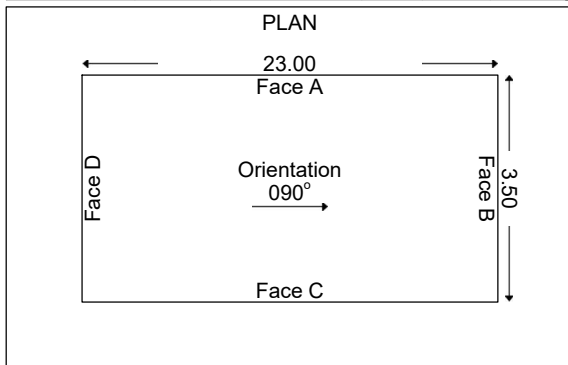
Tel: 0191 387 4700 Fax: 0191 387 4710
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No. PRAIRIE_AUK_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			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	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). 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).
				(4.40)		
				6.07		4.60 Complete at 4.60m BGL.



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.	
Client: South Tees Development Corporation	Location: E:454417.220 N:521030.278		PRAIRIE_AUK_TP193A
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 10.665	Start Date: 30/04/2020	

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.	
Client: South Tees Development Corporation	Location: E:454417.220 N:521030.278		PRAIRIE_AUK_TP193A
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 10.665	Start Date: 30/04/2020	

Figure PRAIRIE_AUK_TP193A.5
PRAIRIE_AUK_TP193A - Spoil



Figure PRAIRIE_AUK_TP193A.6
PRAIRIE_AUK_TP193A - Spoil





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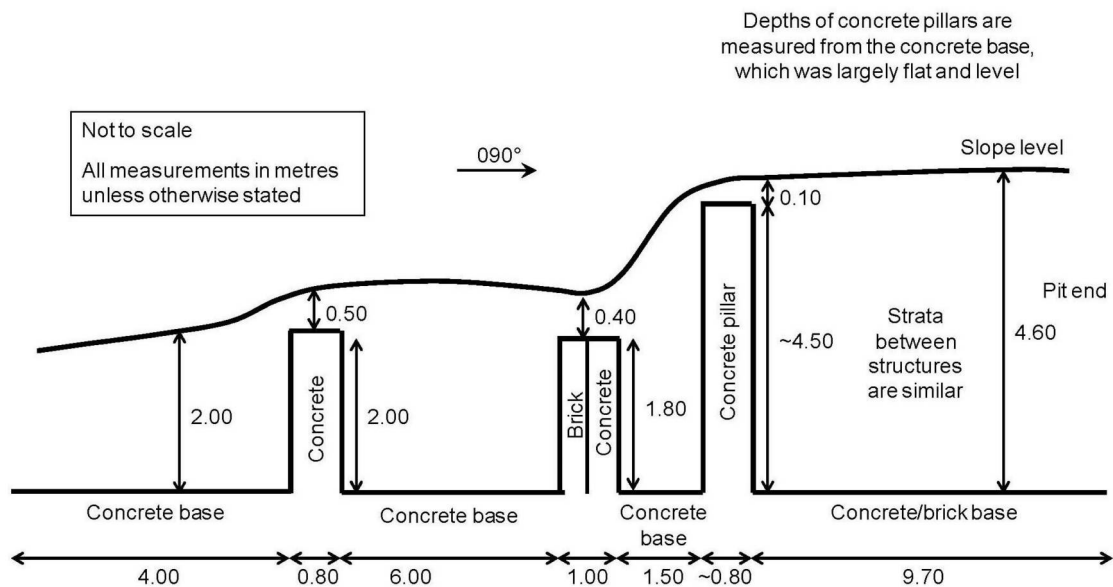
Status:-
PRELIM3

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



Figure PRAIRIE_AUK_TP193A.8
 PRAIRIE_AUK_TP193A Sketch





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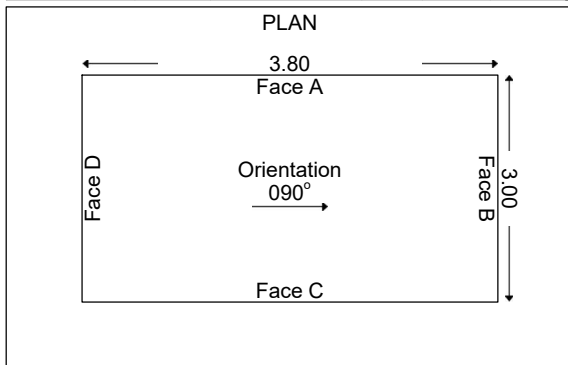
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TRIAL PIT RECORD

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: 1 of 4	

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description	
1.40	ES1					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	
				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.
				11.01		2.20	Firm brown grey mottled black CLAY. Hydrocarbon odour noted. (Engineer notes contamination from strata above). <i>Complete at 2.20m BGL.</i>



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.	
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	

Figure PRAIRIE_AUK_TP194A.1
PRAIRIE_AUK_TP194A



Figure PRAIRIE_AUK_TP194A.2
PRAIRIE_AUK_TP194A





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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	

Figure PRAIRIE_AUK_TP194A.3
PRAIRIE_AUK_TP194 (From Section E looking towards Section A)



Figure PRAIRIE_AUK_TP194A.4
PRAIRIE_AUK_TP194 - Spoil



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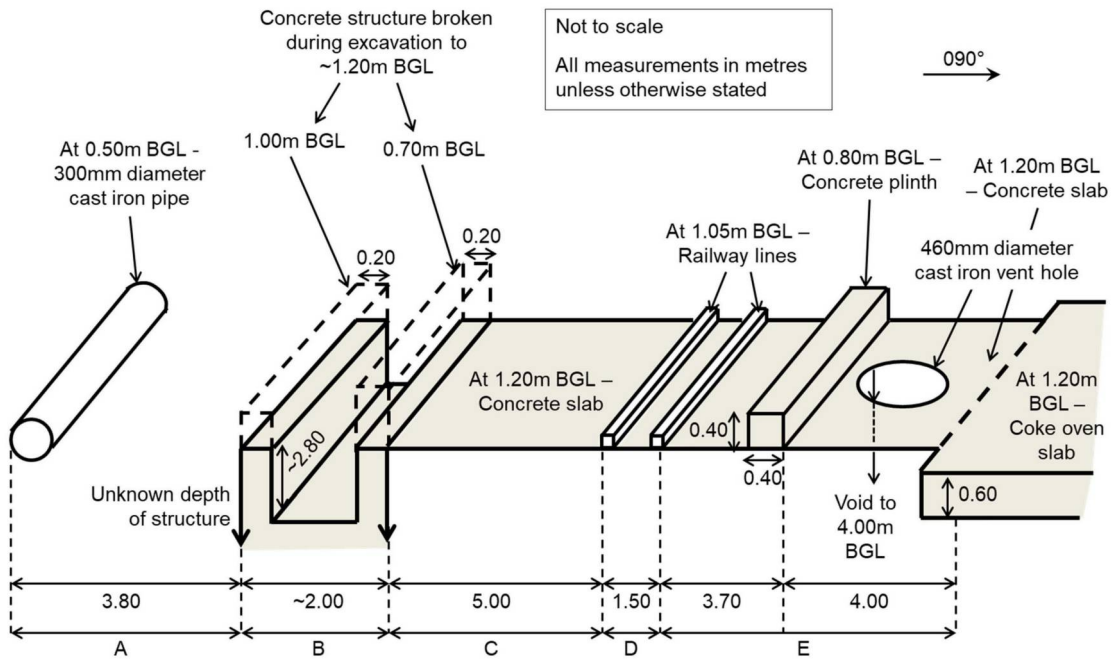
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TRIAL PIT RECORD

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: 4 of 4

Figure PRAIRIE_AUK_TP194A.5
 PRAIRIE_AUK_TP194 Sketch





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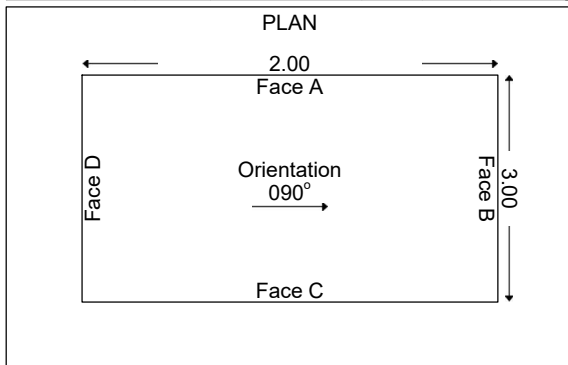
Tel: 0191 387 4700 Fax: 0191 387 4710
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No. PRAIRIE_AUK_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			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
				10.41		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.
					(2.80)	
					2.80	



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 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

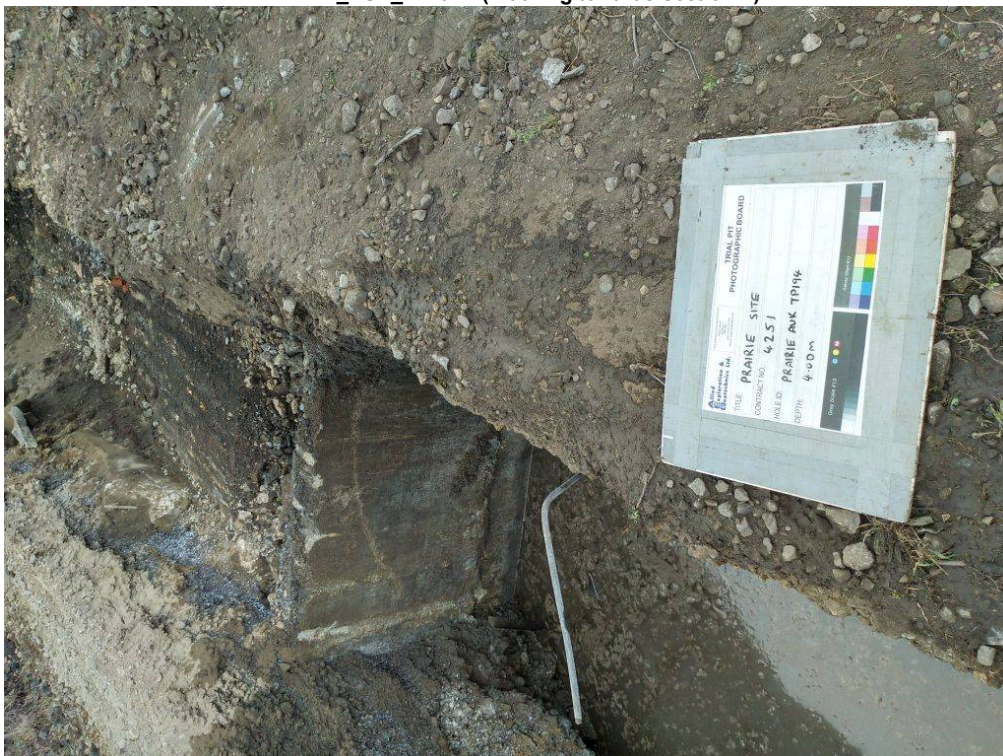
Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No.	
Client: South Tees Development Corporation	Location: E:454444.765 N:520997.809	PRAIRIE_AUK_TP194B	
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_TP194B



Figure PRAIRIE_AUK_TP194B.2
PRAIRIE_AUK_TP194B (Looking towards Section C)





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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_TP194B
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 13.208	Start Date: 29/04/2020	

Figure PRAIRIE_AUK_TP194B.3
PRAIRIE_AUK_TP194 (From Section E looking towards Section A)



Figure PRAIRIE_AUK_TP194B.4
PRAIRIE_AUK_TP194 - Spoil





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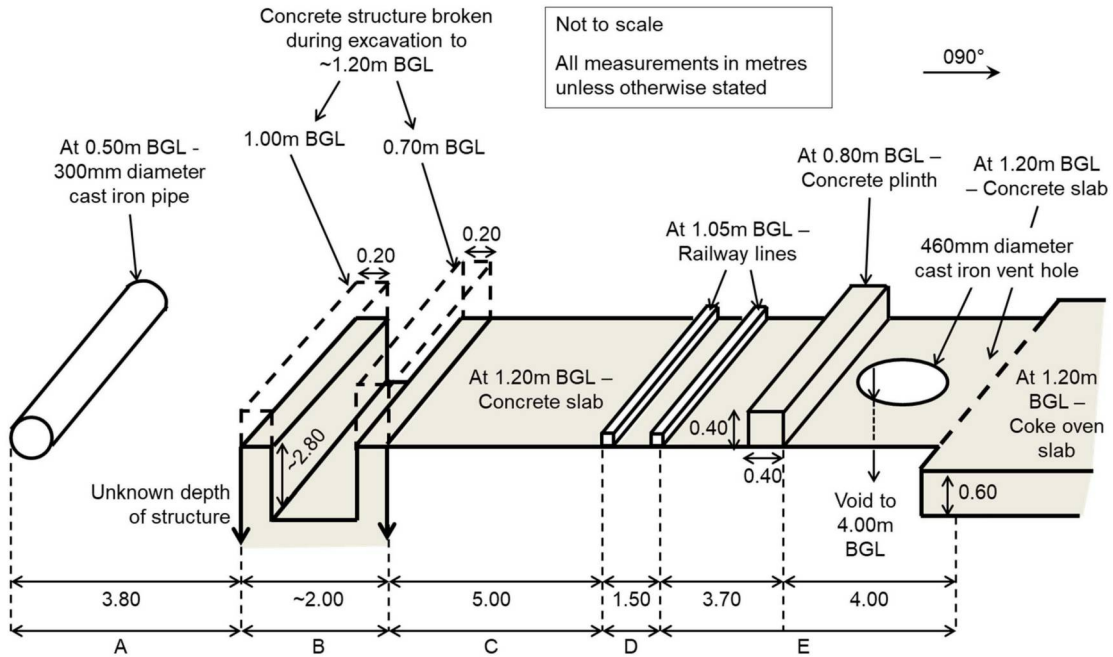
Tel: 0191 387 4700 Fax: 0191 387 4710
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No. PRAIRIE_AUK_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 Sketch





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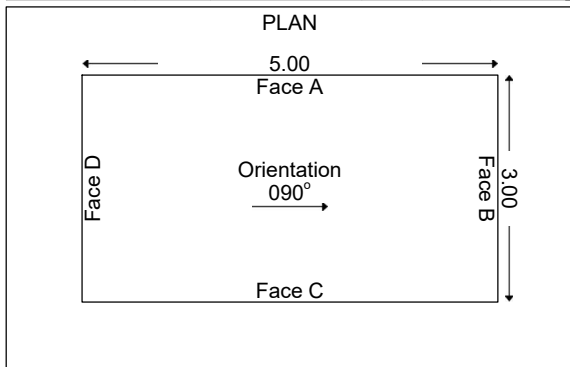
Tel: 0191 387 4700 Fax: 0191 387 4710
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No. PRAIRIE_AUK_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			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
				12.01		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.



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

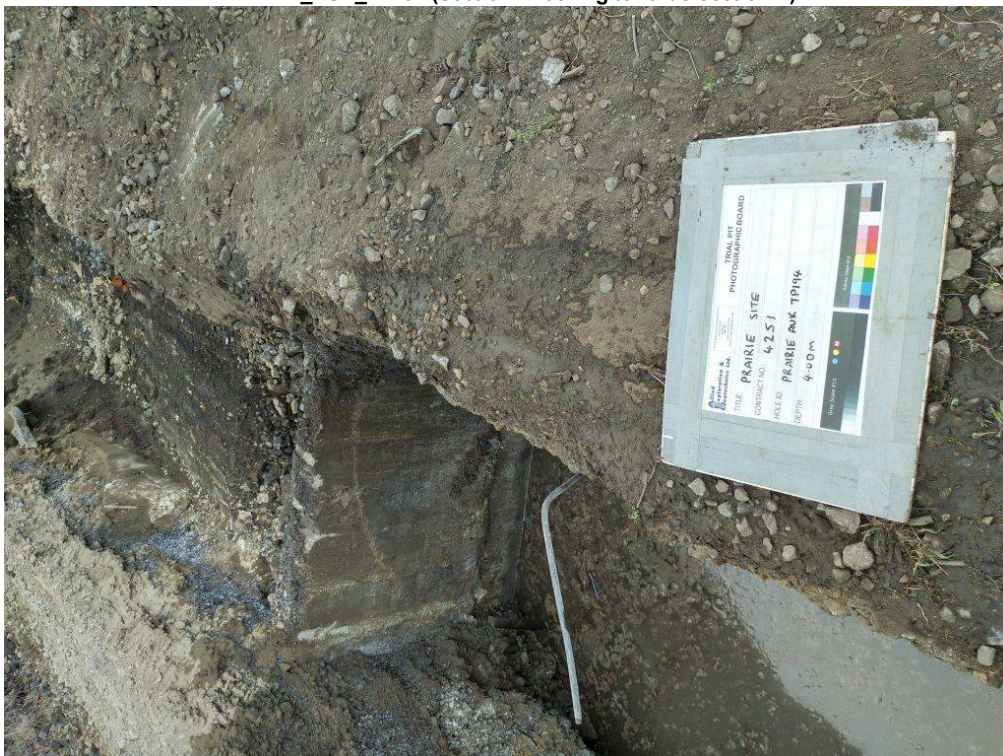
Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No.	
Client: South Tees Development Corporation	Location: E:454444.765 N:520997.809	PRAIRIE_AUK_TP194C	
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_TP194C



Figure PRAIRIE_AUK_TP194C.2
PRAIRIE_AUK_TP194 (Section B looking towards Section C)





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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_TP194C
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 13.208	Start Date: 29/04/2020	

Figure PRAIRIE_AUK_TP194C.3
PRAIRIE_AUK_TP194 (From Section E looking towards Section A)



Figure PRAIRIE_AUK_TP194C.4
PRAIRIE_AUK_TP194 - Spoil



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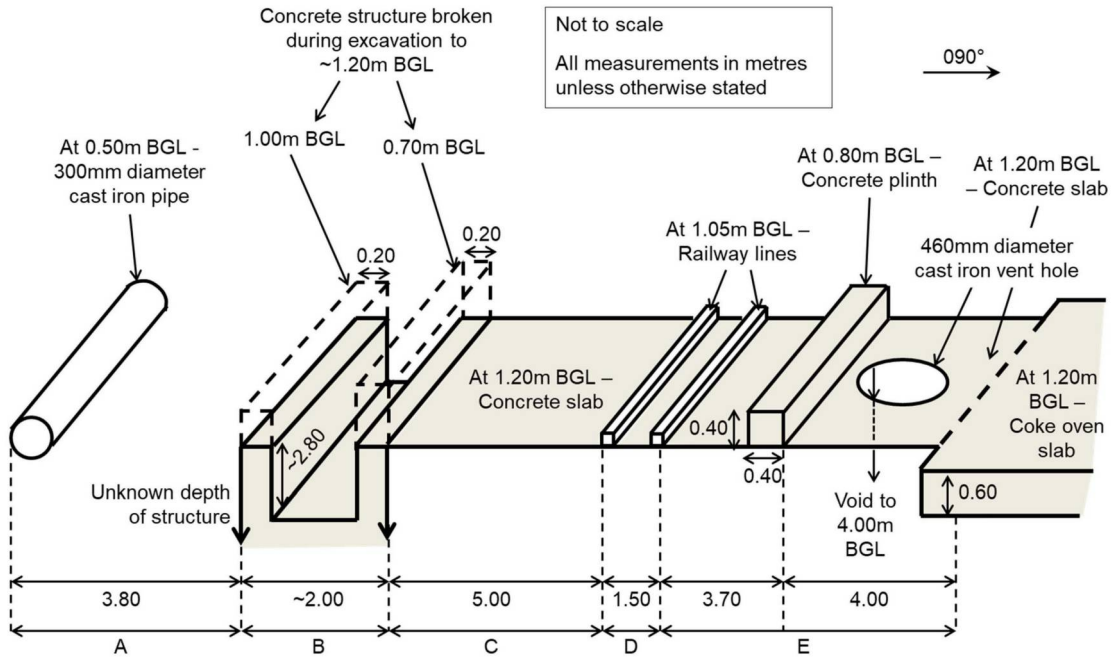
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TRIAL PIT RECORD

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_TP194C
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 Sketch





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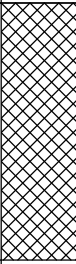
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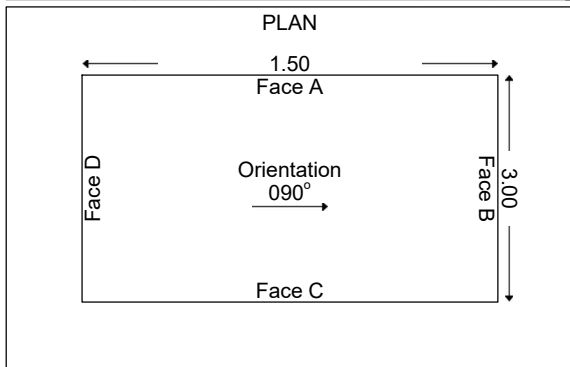
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TRIAL PIT RECORD

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			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
				11.51		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.



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.	
Client: South Tees Development Corporation	Location: E:454444.765 N:520997.809		PRAIRIE_AUK_TP194D
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 13.208	Start Date: 29/04/2020	

Figure PRAIRIE_AUK_TP194D.1
PRAIRIE_AUK_TP194D



Figure PRAIRIE_AUK_TP194D.2
PRAIRIE_AUK_TP194D





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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_TP194D
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 13.208	Start Date: 29/04/2020	

Figure PRAIRIE_AUK_TP194D.3
PRAIRIE_AUK_TP194 (From Section E looking towards Section A)



Figure PRAIRIE_AUK_TP194D.4
PRAIRIE_AUK_TP194 - Spoil



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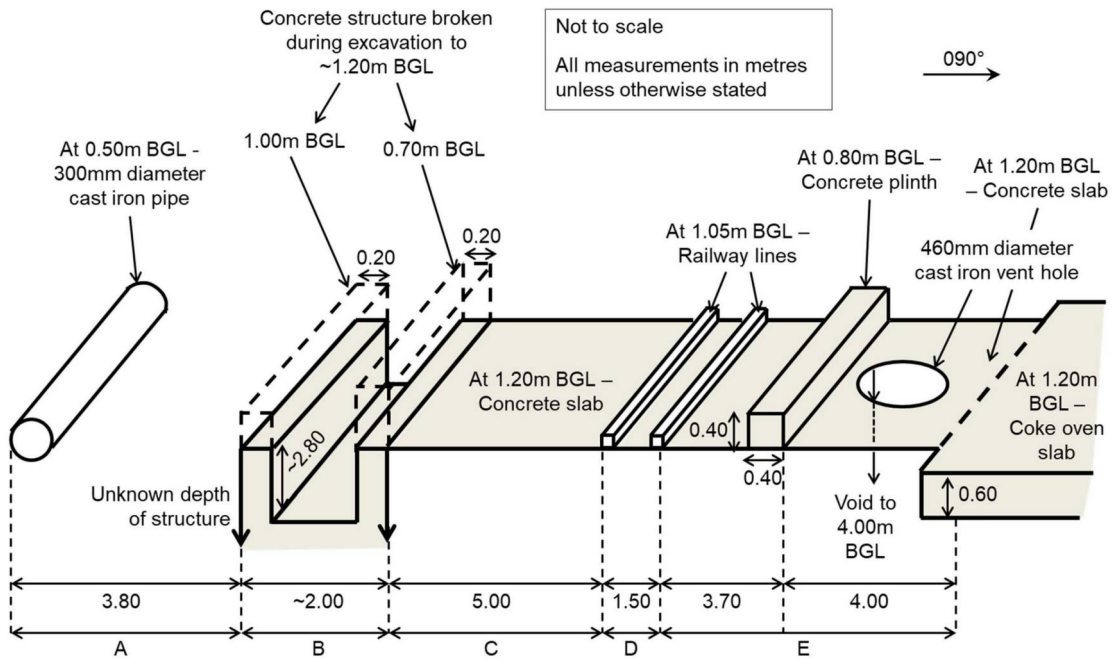
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TRIAL PIT RECORD

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 Sketch





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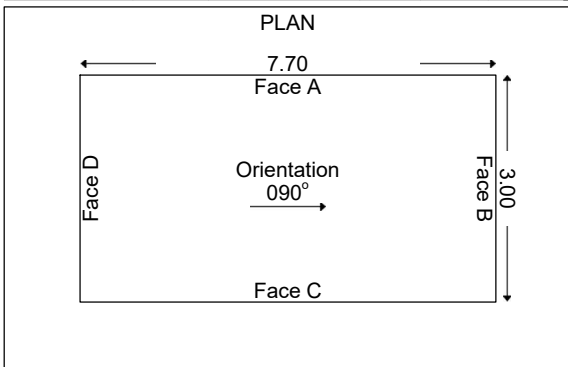
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TRIAL PIT RECORD

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			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
				12.01		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. <i>Terminated at 1.20m BGL - due to concrete obstruction.</i>



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
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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_TP194E



Figure PRAIRIE_AUK_TP194E.2
PRAIRIE_AUK_TP194E





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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_TP194E
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 13.208	Start Date: 29/04/2020	

Figure PRAIRIE_AUK_TP194E.3
PRAIRIE_AUK_TP194E



Figure PRAIRIE_AUK_TP194E.4
PRAIRIE_AUK_TP194 (From Section E looking towards Section A)





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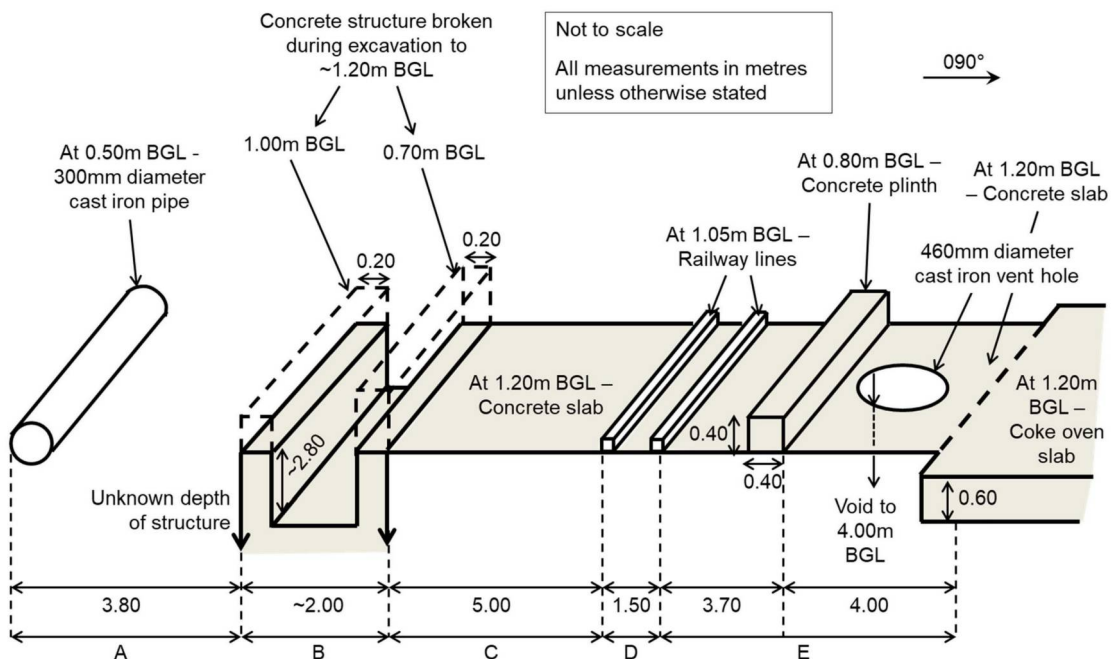
TRIAL PIT RECORD

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

Figure PRAIRIE_AUK_TP194E.6
PRAIRIE_AUK_TP194 Sketch





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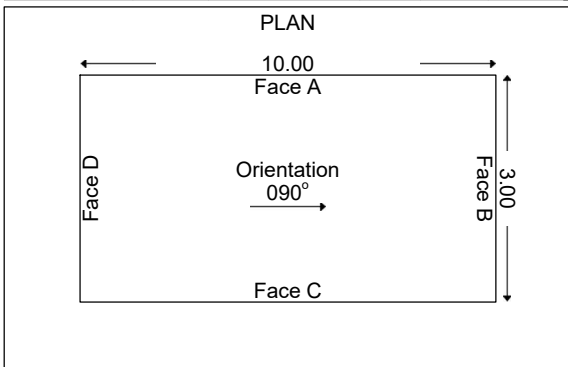
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No.	
Client: South Tees Development Corporation		Location: PRAIRIE_AUK_TP195	
Method (Equipment): Machine Excavated (360 Tracked Excavator)		Ground Level (m): 12.556	Start Date: 28/04/2020
		Sheet: 1 of 4	

SAMPLES & TESTS			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	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).
				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).
				11.46		1.10 at c.0.70m BGL ... concrete slab - extend pit east.
				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).
						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. <i>Terminated at 2.10m BGL - due to concrete obstruction.</i>



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
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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 4

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 4

Figure PRAIRIE_AUK_TP195.3
PRAIRIE_AUK_TP195



Figure PRAIRIE_AUK_TP195.4
PRAIRIE_AUK_TP195 - Spoil





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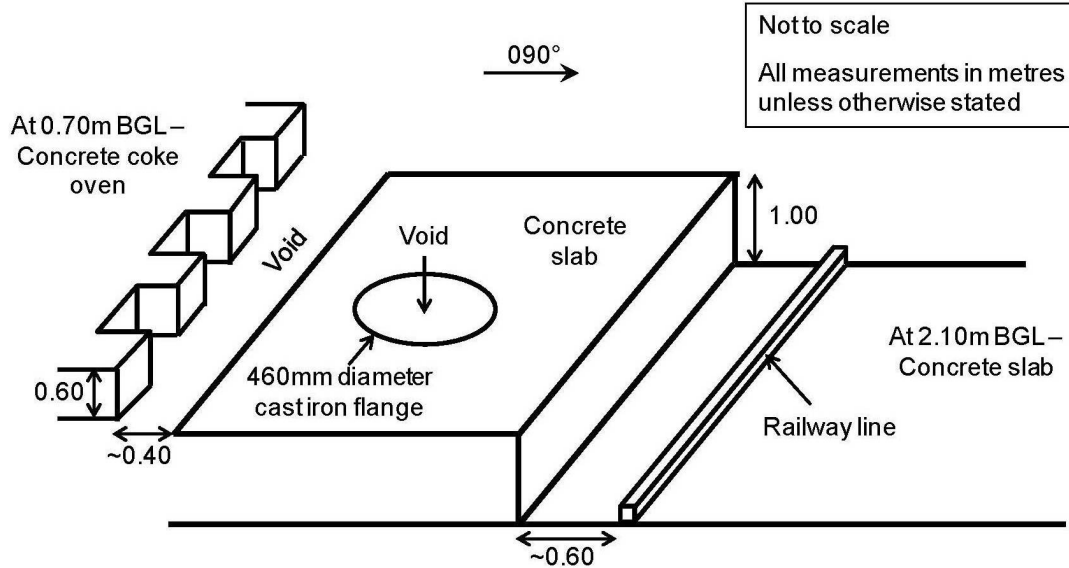
Tel: 0191 387 4700 Fax: 0191 387 4710
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No. PRAIRIE_AUK_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: 4 of 4

Figure PRAIRIE_AUK_TP195.5
PRAIRIE_AUK_TP195 Sketch





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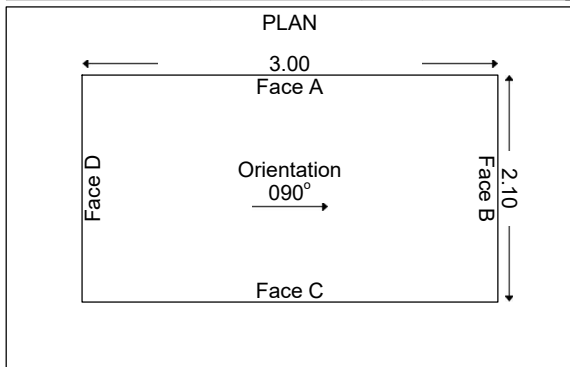
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description	
1.40	ES1					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.	
				9.79		(1.40)	
				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 is 75-100%. Slag is vesicular grey/grey green. Strong hydrocarbon/creosote odour and sheen noted).
				9.19		(2.00)	Firm brown grey mottled black CLAY. Hydrocarbon contamination from strata above. <i>Terminated at 2.00m BGL - due to concrete obstruction.</i>



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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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_TP196A



Figure PRAIRIE_AUK_TP196A.2
PRAIRIE_AUK_TP196 (Section A towards Section B)





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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:454436.008 N:520967.820		PRAIRIE_AUK_TP196A
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 11.190	Start Date: 29/04/2020	

Figure PRAIRIE_AUK_TP196A.3
PRAIRIE_AUK_TP196 (Section B towards Section A)



Figure PRAIRIE_AUK_TP196A.4
PRAIRIE_AUK_TP196 - Spoil





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TRIAL PIT RECORD

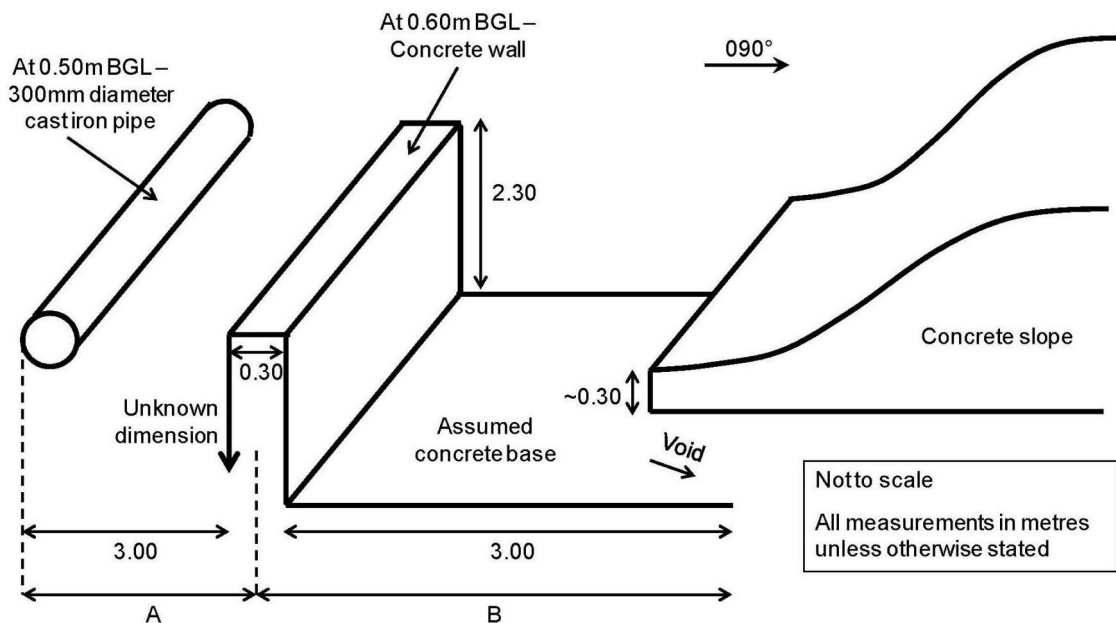
Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No. PRAIRIE_AUK_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



Figure PRAIRIE_AUK_TP196A.6
PRAIRIE_AUK_TP196 Sketch





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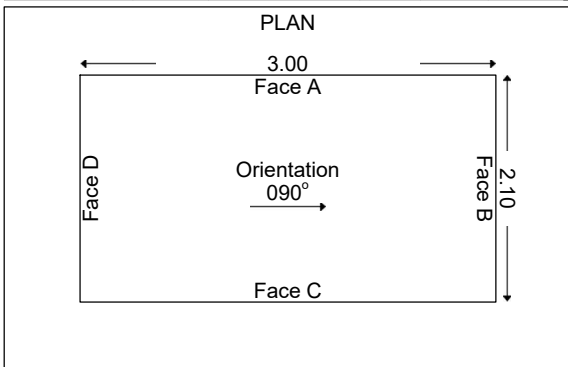
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TRIAL PIT RECORD

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: 1 of 5	

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
				9.99		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		2.90	Terminated at 2.90m BGL - due to concrete obstruction.



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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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No.	
Client: South Tees Development Corporation	Location: E:454436.008 N:520967.820		PRAIRIE_AUK_TP196B
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 11.190	Start Date: 29/04/2020	

Figure PRAIRIE_AUK_TP196B.1
PRAIRIE_AUK_TP196B



Figure PRAIRIE_AUK_TP196B.2
PRAIRIE_AUK_TP196B





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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:454436.008 N:520967.820		PRAIRIE_AUK_TP196B
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 11.190	Start Date: 29/04/2020	

Figure PRAIRIE_AUK_TP196B.3
PRAIRIE_AUK_TP196 (Section A towards Section B)



Figure PRAIRIE_AUK_TP196B.4
PRAIRIE_AUK_TP196 (Section B towards Section A)





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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:454436.008 N:520967.820		PRAIRIE_AUK_TP196B
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 11.190	Start Date: 29/04/2020	

Figure PRAIRIE_AUK_TP196B.5
PRAIRIE_AUK_TP196 - Spoil



Figure PRAIRIE_AUK_TP196B.6
PRAIRIE_AUK_TP196 - Spoil





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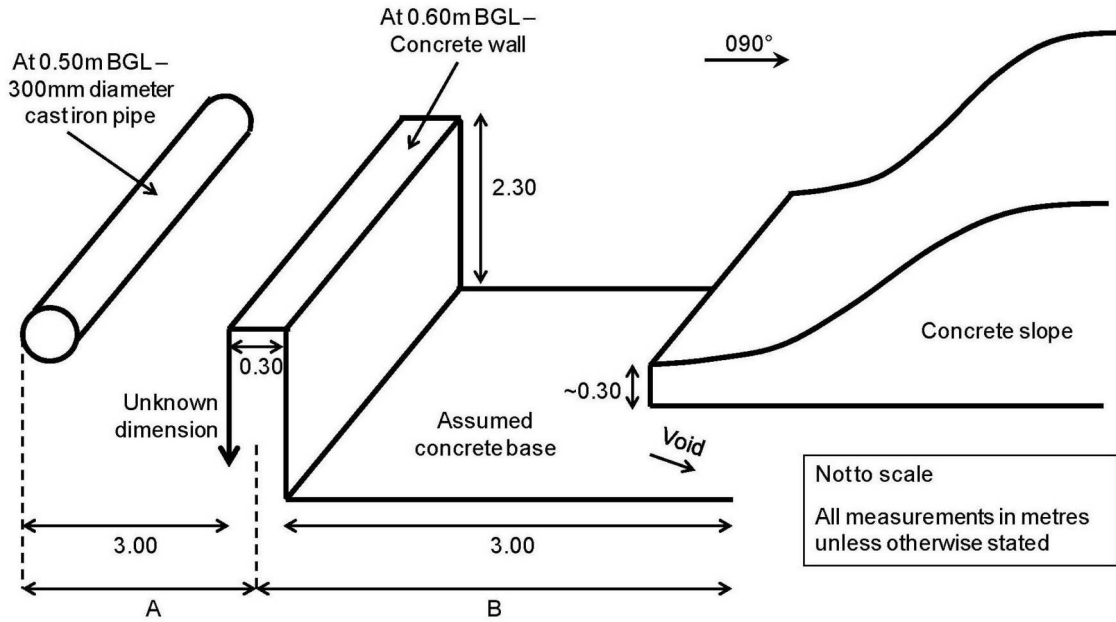
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TRIAL PIT RECORD

Status:-
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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: 5 of 5

Figure PRAIRIE_AUK_TP196B.7
PRAIRIE_AUK_TP196 Sketch





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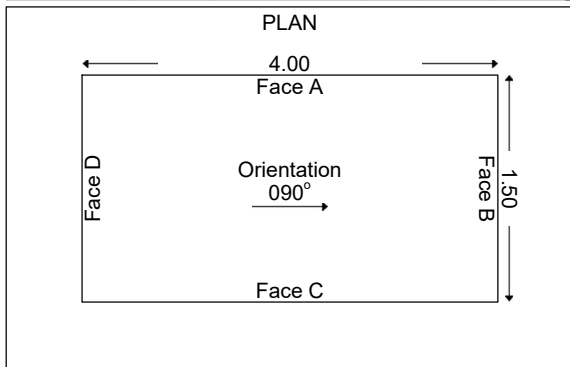
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No. PRAIRIE_AUK_TP197	
Client: South Tees Development Corporation		Location: E:454449.745 N:520922.379	
Method (Equipment): Machine Excavated (360 Tracked Excavator)		Ground Level (m): 11.396	Start Date: 29/04/2020
		Sheet: 1 of 4	

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
						(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).
				9.60		1.80	
				8.60	2.80		<i>Terminated at 2.80m BGL - due to concrete obstruction.</i>



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.
 (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.	
Client: South Tees Development Corporation	Location: E:454449.745 N:520922.379		PRAIRIE_AUK_TP197
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 11.396	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:454449.745 N:520922.379		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 11.396	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

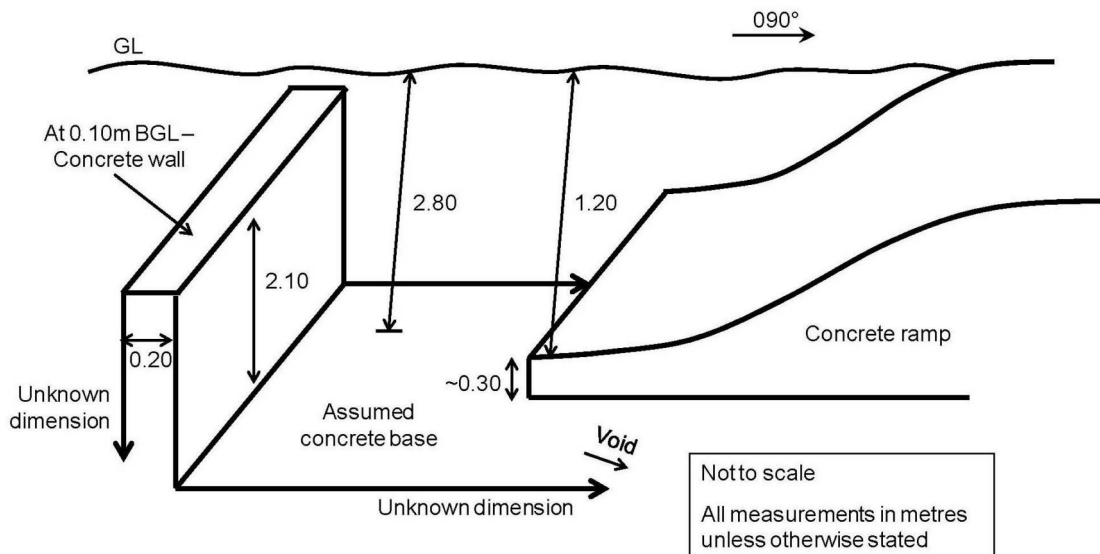
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Project: Prairie Site Ground Investigation Works		Exploratory Hole No. PRAIRIE_AUK_TP197	
Client: South Tees Development Corporation	Location: E:454449.745 N:520922.379		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 11.396	Start Date: 29/04/2020	Sheet: 4 of 4

Figure PRAIRIE_AUK_TP197.5
PRAIRIE_AUK_TP197 - Spoil



Figure PRAIRIE_AUK_TP197.6
PRAIRIE_AUK_TP197 Sketch





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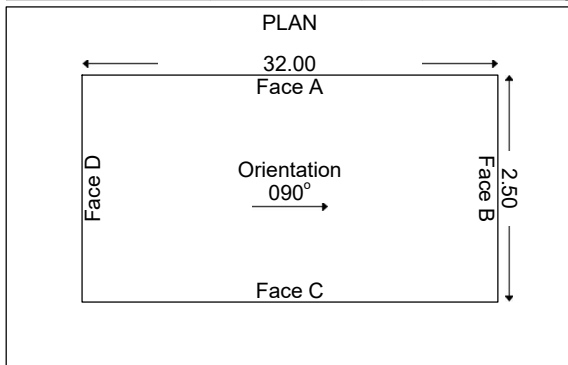
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TRIAL PIT RECORD

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 7	

SAMPLES & TESTS			STRATA					
Depth	Type No	Test Result	Water	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)	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 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).	
				11.74		1.20		
						(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. <i>Terminated at 2.60m BGL - due to concrete obstruction.</i>	



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
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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 7

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 7

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 7

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.	
Client: South Tees Development Corporation	Location: E:454458.796 N:520990.155		PRAIRIE_AUK_TP198
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 12.937	Start Date: 27/04/2020	

Figure PRAIRIE_AUK_TP198.7
PRAIRIE_AUK_TP198



Figure PRAIRIE_AUK_TP198.8
PRAIRIE_AUK_TP198





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TRIAL PIT RECORD

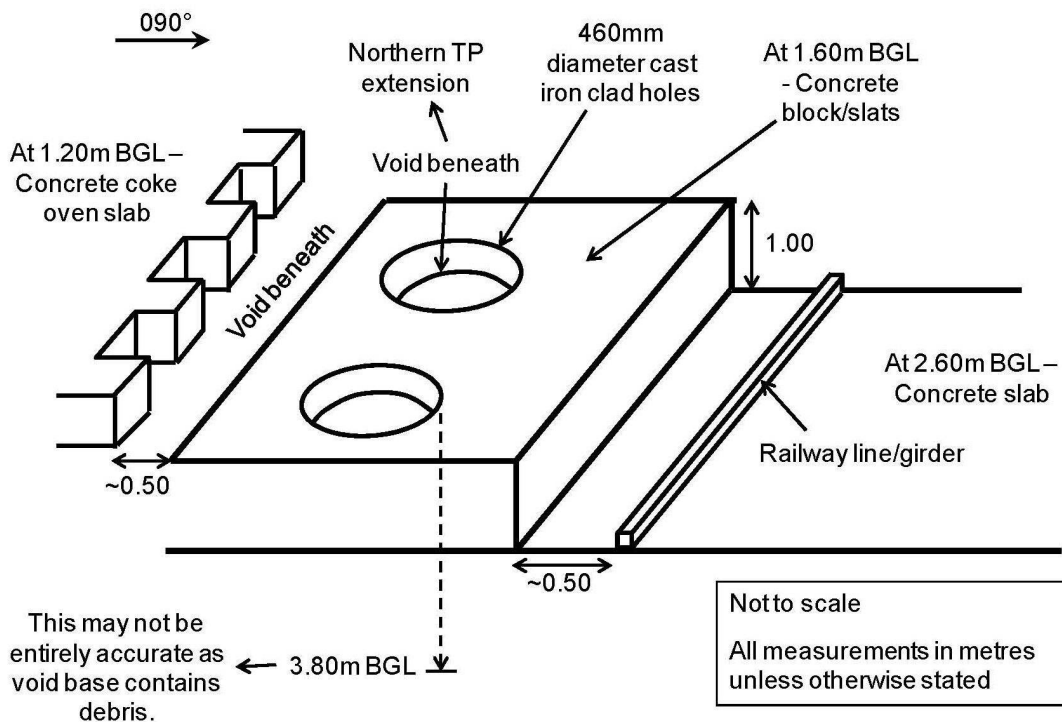
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PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No.	
Client: South Tees Development Corporation	Location: E:454458.796 N:520990.155		PRAIRIE_AUK_TP198
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 12.937	Start Date: 27/04/2020	Sheet: 6 of 7

Figure PRAIRIE_AUK_TP198.9
 PRAIRIE_AUK_TP198 - Spoil



Figure PRAIRIE_AUK_TP198.10
 PRAIRIE_AUK_TP198 Sketch





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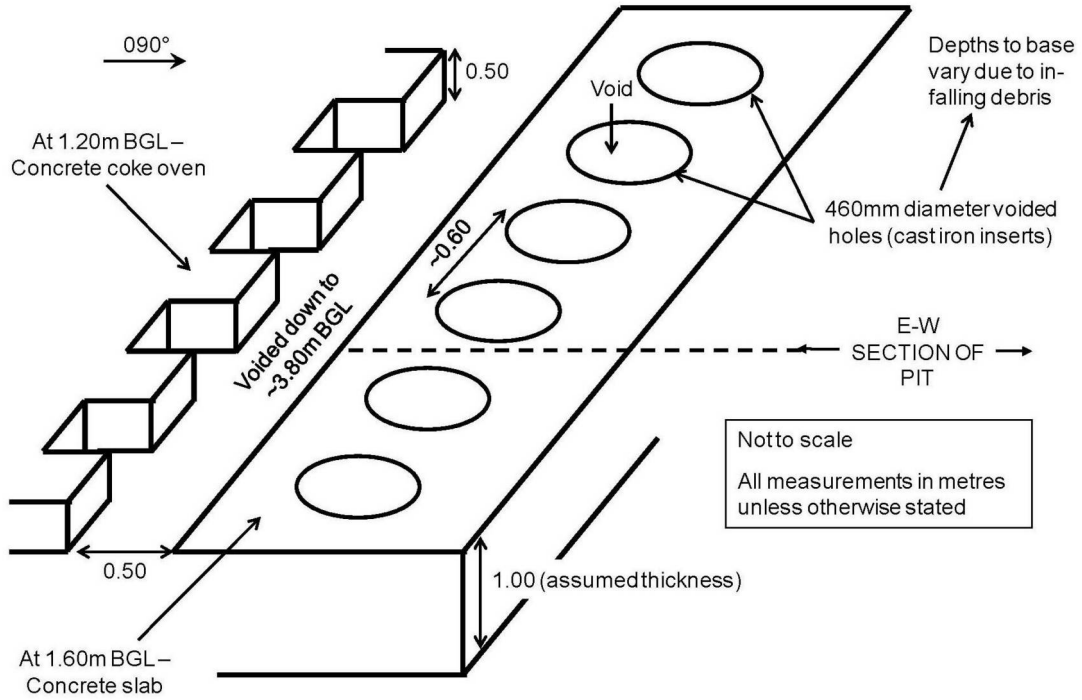
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TRIAL PIT RECORD

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: 7 of 7

Figure PRAIRIE_AUK_TP198.11
PRAIRIE_AUK_TP198 Sketch





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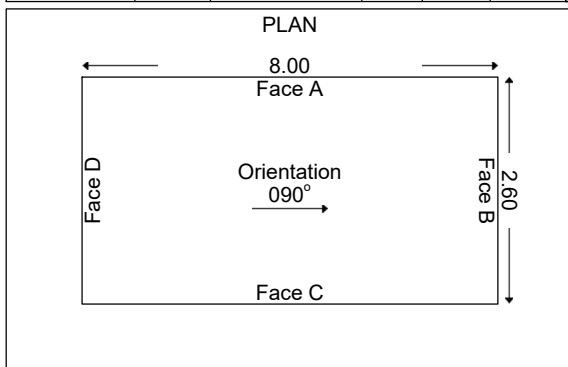
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No. PRAIRIE_AUK_TP199	
Client: South Tees Development Corporation		Location: E:454465.130 N:521024.309	
Method (Equipment): Machine Excavated (360 Tracked Excavator)		Ground Level (m): 13.209	Start Date: 27/04/2020
		Sheet: 1 of 4	

SAMPLES & TESTS			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
				13.01		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).
				10.21		3.00 MADE GROUND (Concrete and red brick floor).
				9.41		3.80 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).
				8.21		5.00 Firm to stiff red brown grey slightly sandy CLAY. Sand is fine to medium.
				8.01		5.20 <i>Complete at 5.20m BGL.</i>



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.	
Client: South Tees Development Corporation	Location: E:454465.130 N:521024.309		PRAIRIE_AUK_TP199
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 13.209	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:454465.130 N:521024.309		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 13.209	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





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TRIAL PIT RECORD

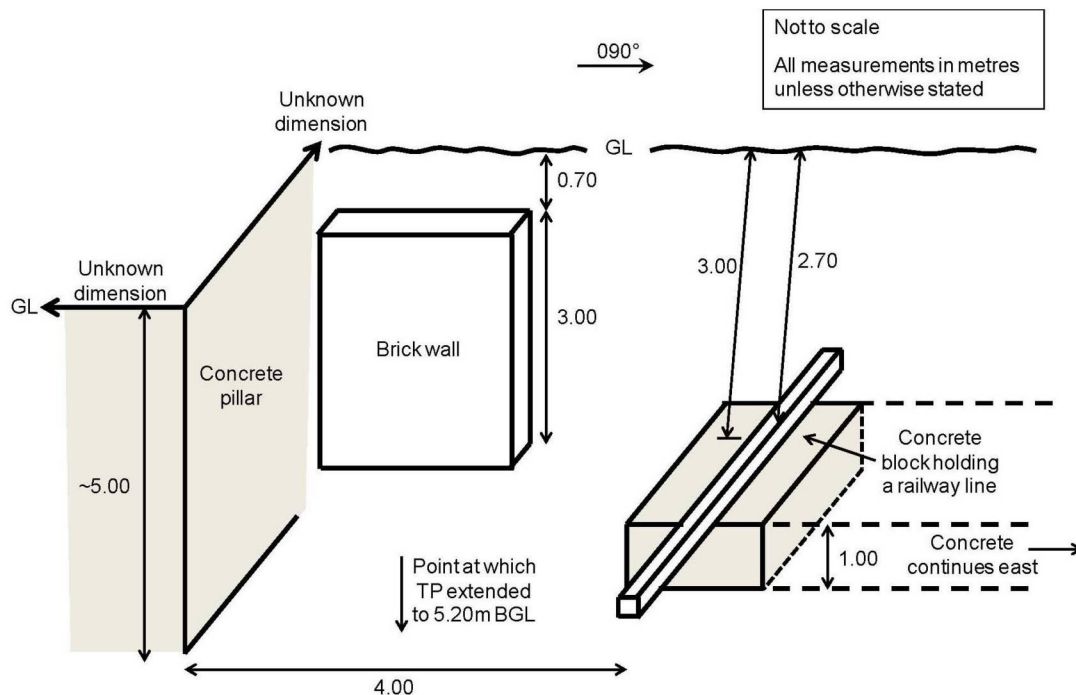
Status:-
PRELIM3

Project: Prairie Site Ground Investigation Works		Exploratory Hole No. PRAIRIE_AUK_TP199	
Client: South Tees Development Corporation	Location: E:454465.130 N:521024.309		
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 13.209	Start Date: 27/04/2020	Sheet: 4 of 4

Figure PRAIRIE_AUK_TP199.5
PRAIRIE_AUK_TP199 - Spoil



Figure PRAIRIE_AUK_TP199.6
PRAIRIE_AUK_TP199 Sketch





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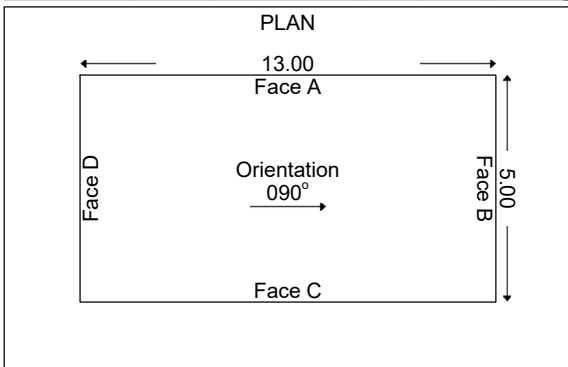
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TRIAL PIT RECORD

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 6	

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	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.



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
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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:454446.479 N:521086.026		PRAIRIE_AUK_TP200A
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 10.527	Start Date: 28/04/2020	

Figure PRAIRIE_AUK_TP200A.1
PRAIRIE_AUK_TP200



Figure PRAIRIE_AUK_TP200A.2
PRAIRIE_AUK_TP200





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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:454446.479 N:521086.026		PRAIRIE_AUK_TP200A
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 10.527	Start Date: 28/04/2020	

Figure PRAIRIE_AUK_TP200A.3
PRAIRIE_AUK_TP200



Figure PRAIRIE_AUK_TP200A.4
PRAIRIE_AUK_TP200





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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:454446.479 N:521086.026	PRAIRIE_AUK_TP200A	
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 10.527	Start Date: 28/04/2020	Sheet: 4 of 6

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.	
Client: South Tees Development Corporation	Location: E:454446.479 N:521086.026		PRAIRIE_AUK_TP200A
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 10.527	Start Date: 28/04/2020	

Figure PRAIRIE_AUK_TP200A.7
PRAIRIE_AUK_TP200 - Spoil



Figure PRAIRIE_AUK_TP200A.8
PRAIRIE_AUK_TP200 - Spoil





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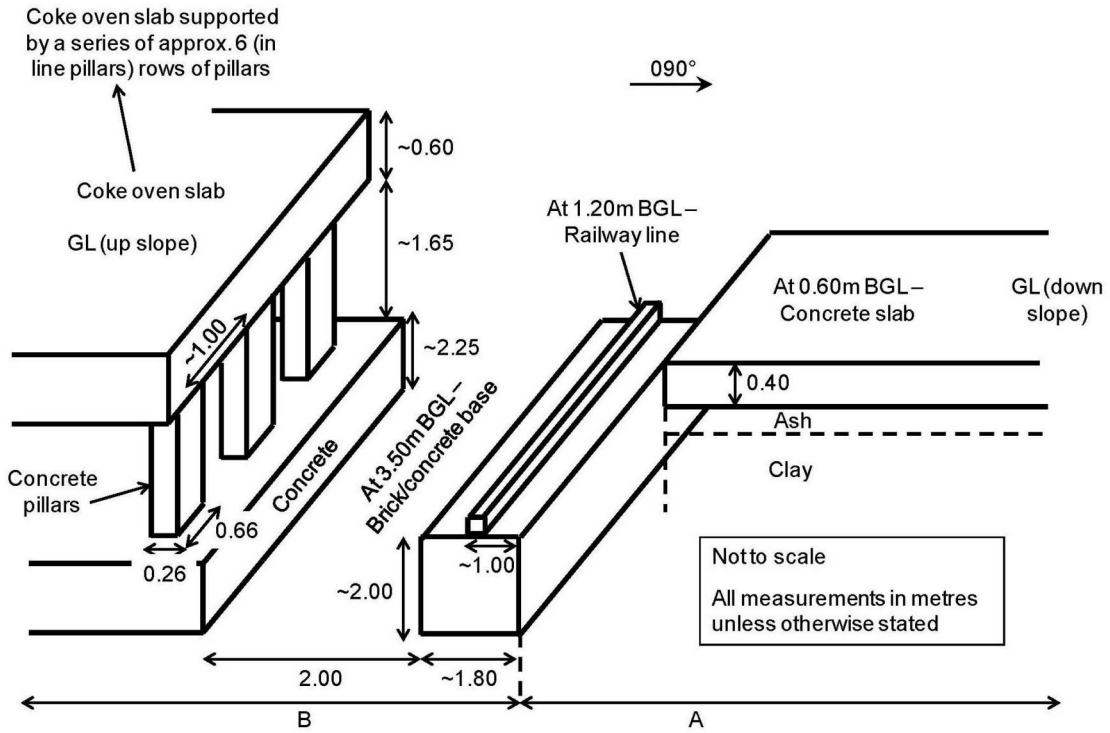
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TRIAL PIT RECORD

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: 6 of 6

Figure PRAIRIE_AUK_TP200A.9
PRAIRIE_AUK_TP200 Sketch





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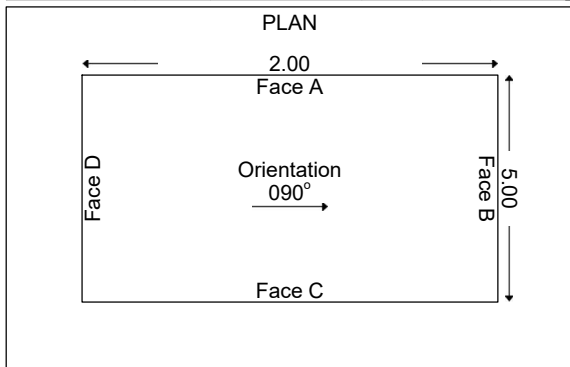
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TRIAL PIT RECORD

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 6	

SAMPLES & TESTS			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	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).
				7.03	3.50 <i>Complete at 3.50m BGL.</i>	



GROUNDWATER
 Water strike 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.	
Client: South Tees Development Corporation	Location: E:454446.479 N:521086.026		PRAIRIE_AUK_TP200B
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 10.527	Start Date: 28/04/2020	

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.	
Client: South Tees Development Corporation	Location: E:454446.479 N:521086.026		PRAIRIE_AUK_TP200B
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 10.527	Start Date: 28/04/2020	

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.	
Client: South Tees Development Corporation	Location: E:454446.479 N:521086.026	PRAIRIE_AUK_TP200B	
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 10.527	Start Date: 28/04/2020	Sheet: 4 of 6

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.	
Client: South Tees Development Corporation	Location: E:454446.479 N:521086.026		PRAIRIE_AUK_TP200B
Method (Equipment): Machine Excavated (360 Tracked Excavator)	Ground Level (m): 10.527	Start Date: 28/04/2020	

Figure PRAIRIE_AUK_TP200B.7
PRAIRIE_AUK_TP200 - Spoil



Figure PRAIRIE_AUK_TP200B.8
PRAIRIE_AUK_TP200 - Spoil





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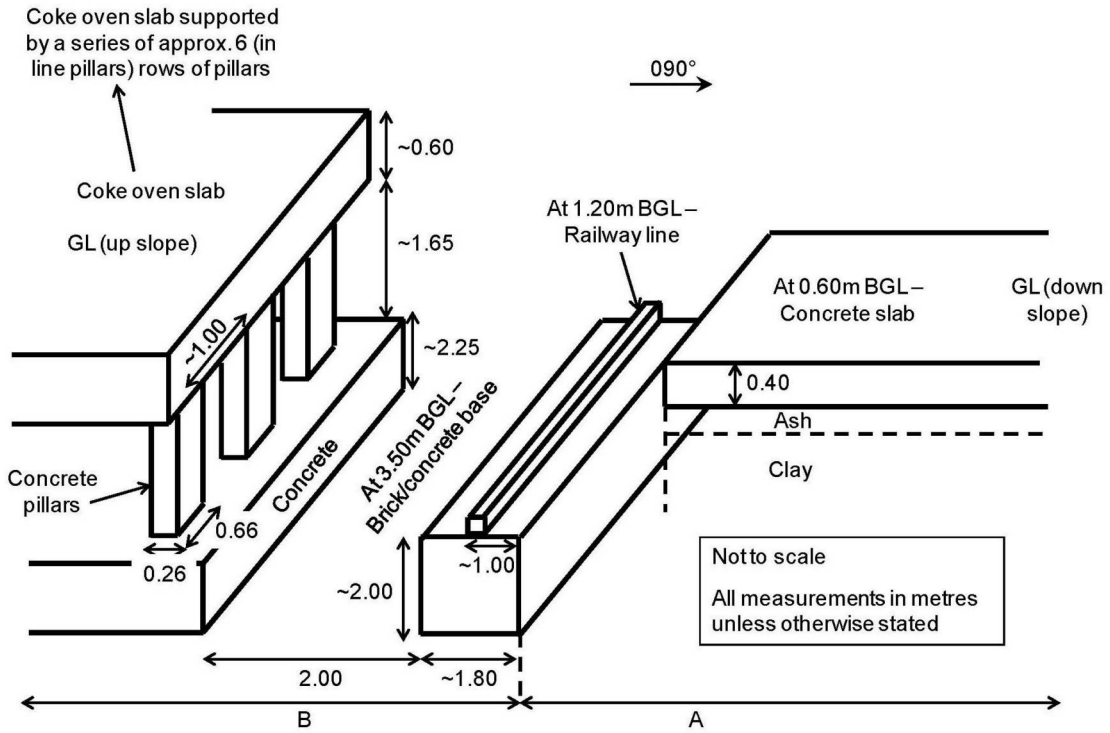
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TRIAL PIT RECORD

Status:-
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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: 6 of 6

Figure PRAIRIE_AUK_TP200B.9
PRAIRIE_AUK_TP200 Sketch





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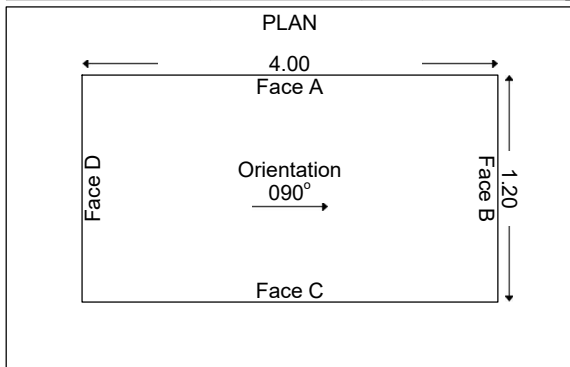
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TRIAL PIT RECORD

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			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description	
3.60	ES1			15.33		0.20	
				(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	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).
				(1.60)			
				12.53		3.00	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).
				(1.40)			
				11.13		4.40	Complete at 4.40m BGL.



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 into a raised earth bund. All measurements taken from top of 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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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:-
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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



Groundwater Observations Made at the Time of Site Works



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GROUNDWATER OBSERVATIONS MADE AT THE TIME OF SITE WORKS (WATER STRIKES)

Exploratory Hole No.	Date	Depth of Water (m)	Depth of Casing (m)	Depth Sealed (m)	Final Depth (m)	Total Time (mins)	Depth After 5 mins	Depth After 10 mins	Depth After 15 mins	Depth After 20 mins	Remarks
PRAIRIE_AUK_BH101	27/04/2020	3.00	2.80	4.00	2.58	20	2.88	2.64	2.60	2.58	Slow inflow.
PRAIRIE_AUK_BH101	28/04/2020	14.80	14.46		12.36	20	14.06	13.72	13.11	12.36	Slow inflow.
PRAIRIE_AUK_BH105	16/04/2020	3.00	2.88	4.00	2.88	20	2.96	2.93	2.90	2.88	Water strike (slow inflow).
PRAIRIE_AUK_BH105	16/04/2020	8.60	8.40		4.32	20	6.84	6.11	5.63	4.32	Water strike.
PRAIRIE_AUK_BH110	21/04/2020	10.30	10.06	12.50	8.47	20	9.42	9.06	8.78	8.47	Water strike.
PRAIRIE_AUK_TP107	06/04/2020	2.00									Water strike.
PRAIRIE_AUK_TP108	06/04/2020	2.30									Water strike.
PRAIRIE_AUK_TP112	22/04/2020	2.40									Water strike.
PRAIRIE_AUK_TP113	06/04/2020	1.70									Water strike.
PRAIRIE_AUK_TP115	08/04/2020	0.30									Water strike.
PRAIRIE_AUK_TP119	22/04/2020	2.20									Water strike.
PRAIRIE_AUK_TP120A	20/04/2020	1.30									Water strike.



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GROUNDWATER OBSERVATIONS MADE AT THE TIME OF SITE WORKS (WATER STRIKES)

Exploratory Hole No.	Date	Depth of Water (m)	Depth of Casing (m)	Depth Sealed (m)	Final Depth (m)	Total Time (mins)	Depth After 5 mins	Depth After 10 mins	Depth After 15 mins	Depth After 20 mins	Remarks
PRAIRIE_AUK_TP121	09/04/2020	0.90									Water strike.
PRAIRIE_AUK_TP122	08/04/2020	0.30									Water strike (Heavy inflow).
PRAIRIE_AUK_TP123	08/04/2020	0.60									Water strike.
PRAIRIE_AUK_TP127	23/04/2020	1.70									Water strike.
PRAIRIE_AUK_TP132	02/04/2020	1.90									Water strike.
PRAIRIE_AUK_TP135	15/04/2020	1.10									Water strike.
PRAIRIE_AUK_TP136	15/04/2020	0.30									Water strike.
PRAIRIE_AUK_TP137	15/04/2020	0.50									Water strike.
PRAIRIE_AUK_TP139B	16/04/2020	0.90									Water strike.
PRAIRIE_AUK_TP143	23/04/2020	1.80			1.60						Water strike (Heavy inflow).
PRAIRIE_AUK_TP147	17/04/2020	1.60									Perched water.
PRAIRIE_AUK_TP156	14/04/2020	0.60									Water strike.

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GROUNDWATER OBSERVATIONS MADE AT THE TIME OF SITE WORKS (WATER STRIKES)

Exploratory Hole No.	Date	Depth of Water (m)	Depth of Casing (m)	Depth Sealed (m)	Final Depth (m)	Total Time (mins)	Depth After 5 mins	Depth After 10 mins	Depth After 15 mins	Depth After 20 mins	Remarks
PRAIRIE_AUK_TP157B	17/04/2020	1.00									Water strike.
PRAIRIE_AUK_TP158	17/04/2020	1.00									Water strike.
PRAIRIE_AUK_TP190	16/04/2020	0.80									Water strike.
PRAIRIE_AUK_TP190A	16/04/2020	1.20									Water running from brick cable duct in Faces C and D.
PRAIRIE_AUK_TP200B	28/04/2020	3.50									Water strike (Slight inflow).



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GROUNDWATER OBSERVATIONS MADE AT THE TIME OF SITE WORKS (GROUNDWATER SEEPAGES)

Monitoring Point	Date	Depth (m)	Remarks
PRAIRIE_AUK_TP101	01/04/2020	2.00	Groundwater seepage.
PRAIRIE_AUK_TP114	07/04/2020	0.50	Groundwater seepage.
PRAIRIE_AUK_TP117	23/04/2020	2.60	Groundwater seepage.
PRAIRIE_AUK_TP118	23/04/2020	1.40	Groundwater seepage.
PRAIRIE_AUK_TP120	20/04/2020	1.50	Groundwater seepage.
PRAIRIE_AUK_TP126	17/04/2020	2.70	Slight groundwater seepage (water perched on concrete base).
PRAIRIE_AUK_TP128	17/04/2020	1.00	Saturated strata (slight inflow) at 1.00m BGL. Engineer notes contaminated water seeping from contaminated mudstone pocket into clay.
PRAIRIE_AUK_TP142	23/04/2020	1.20	Saturated strata between 1.00-1.20m BGL (Slight inflow). Water contains globules of oil/contaminants.
PRAIRIE_AUK_TP144	24/04/2020	1.10	Saturated strata (Slight inflow).
PRAIRIE_AUK_TP145	14/04/2020	1.70	Groundwater seepage.
PRAIRIE_AUK_TP146C	14/04/2020	1.20	Groundwater seepage.
PRAIRIE_AUK_TP148A	16/04/2020	1.70	Slight groundwater seepage.
PRAIRIE_AUK_TP155	21/04/2020	0.80	Saturated strata (Slight inflow).
PRAIRIE_AUK_TP159	16/04/2020	1.50	Saturated strata between 0.90-1.50m BGL.
PRAIRIE_AUK_TP162	14/04/2020	2.80	Saturated strata (Heavy inflow).
PRAIRIE_AUK_TP163	14/04/2020	1.10	Saturated strata (Slight inflow).
PRAIRIE_AUK_TP164	16/04/2020	2.40	Saturated strata between 1.20-2.40m BGL (Slow inflow).
PRAIRIE_AUK_TP174	08/04/2020	2.00	Slight groundwater seepage.
PRAIRIE_AUK_TP175	06/04/2020	0.90	Perched water (Slight inflow).
PRAIRIE_AUK_TP177	07/04/2020	1.40	Saturated strata (Heavy inflow).

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GROUNDWATER OBSERVATIONS MADE AT THE TIME OF SITE WORKS (GROUNDWATER SEEPAGES)

Monitoring Point	Date	Depth (m)	Remarks
PRAIRIE_AUK_TP178	09/04/2020	1.50	Perched water (Slight inflow).
PRAIRIE_AUK_TP179	09/04/2020	1.20	Saturated strata (Heavy inflow).
PRAIRIE_AUK_TP181	09/04/2020	1.70	Saturated strata (Slight inflow).
PRAIRIE_AUK_TP182	09/04/2020	1.10	Saturated strata (Slight inflow).
PRAIRIE_AUK_TP186	07/04/2020	1.00	Saturated strata (Moderate inflow). Possibly backfilled cellar/basement.
PRAIRIE_AUK_TP188	08/04/2020	1.70	Saturated strata (Heavy inflow).
PRAIRIE_AUK_TP189	07/04/2020	1.30	Perched water (Slight inflow).
PRAIRIE_AUK_TP192	01/05/2020	1.10	Saturated strata (Slight inflow).
PRAIRIE_AUK_TP193	30/04/2020	0.80	Saturated strata (Slow inflow).
PRAIRIE_AUK_TP194A	29/04/2020	1.50	Saturated strata (Moderate inflow).
PRAIRIE_AUK_TP194B	29/04/2020	1.80	Saturated strata (Heavy inflow).
PRAIRIE_AUK_TP196A	29/04/2020	1.80	Saturated strata (Heavy inflow).
PRAIRIE_AUK_TP196B	29/04/2020	1.80	Saturated strata (Heavy inflow).
PRAIRIE_AUK_TP197	29/04/2020	1.80	Saturated strata (Heavy inflow).

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Groundwater Monitoring Results



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GROUNDWATER MONITORING RESULTS

Monitoring Point	Date and Time	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Remarks
PRAIRIE_AUK_BH101	06/05/2020 00:00	10.00m 19mm SPIE	8.64	2.00	6.64	
PRAIRIE_AUK_BH101	15/06/2020 12:05	10.00m 19mm SPIE	8.64	1.77	6.87	
PRAIRIE_AUK_BH101	30/06/2020 09:27	10.00m 19mm SPIE	8.64	1.69	6.95	
PRAIRIE_AUK_BH101	06/05/2020 00:00	16.50m 50mm SP	8.64	3.00	5.64	
PRAIRIE_AUK_BH101	15/06/2020 12:05	16.50m 50mm SP	8.64	1.78	6.86	
PRAIRIE_AUK_BH101	30/06/2020 09:23	16.50m 50mm SP	8.64	1.64	7.00	
PRAIRIE_AUK_BH102	06/05/2020 00:00	7.20m 50mm SP	8.21	1.10	7.11	
PRAIRIE_AUK_BH102	15/06/2020 14:16	7.20m 50mm SP	8.21	0.83	7.38	
PRAIRIE_AUK_BH102	30/06/2020 09:10	7.20m 50mm SP	8.21	0.90	7.31	
PRAIRIE_AUK_BH103	06/05/2020 00:00	8.50m 50mm SP	7.68	2.25	5.43	
PRAIRIE_AUK_BH103	15/06/2020 11:40	8.50m 50mm SP	7.68	1.71	5.97	
PRAIRIE_AUK_BH103	30/06/2020 08:49	8.50m 50mm SP	7.68	1.92	5.76	
PRAIRIE_AUK_BH104	06/05/2020 00:00	18.50m 50mm SP	8.70	6.40	2.30	
PRAIRIE_AUK_BH104	15/06/2020 14:35	18.50m 50mm SP	8.70	4.06	4.64	
PRAIRIE_AUK_BH104	30/06/2020 11:01	18.50m 50mm SP	8.70	6.21	2.49	
PRAIRIE_AUK_BH105	06/05/2020 00:00	11.00m 50mm SP	8.26	4.60	3.66	
PRAIRIE_AUK_BH105	15/06/2020 15:29	11.00m 50mm SP	8.26	4.49	3.77	
PRAIRIE_AUK_BH105	30/06/2020 12:09	11.00m 50mm SP	8.26	4.51	3.75	
PRAIRIE_AUK_BH106	06/05/2020 00:00	10.00m 50mm SP	8.71	3.94	4.77	
PRAIRIE_AUK_BH106	15/06/2020 14:52	10.00m 50mm SP	8.71	2.73	5.98	

SP = Standpipe - SPIE = Standpipe Piezometer.

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GROUNDWATER MONITORING RESULTS

Monitoring Point	Date and Time	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Remarks
PRAIRIE_AUK_BH106	30/06/2020 11:28	10.00m 50mm SP	8.71	3.28	5.43	
PRAIRIE_AUK_BH107	06/05/2020 00:00	8.00m 50mm SP	10.16	3.16	7.00	
PRAIRIE_AUK_BH107	15/06/2020 12:41	8.00m 50mm SP	10.16	3.21	6.95	
PRAIRIE_AUK_BH107	30/06/2020 13:05	8.00m 50mm SP	10.16	3.12	7.04	
PRAIRIE_AUK_BH108	06/05/2020 00:00	6.00m 19mm SPIE	8.86	2.20	6.66	
PRAIRIE_AUK_BH108	15/06/2020 15:17	6.00m 19mm SPIE	8.86	1.14	7.72	
PRAIRIE_AUK_BH108	30/06/2020 11:55	6.00m 19mm SPIE	8.86	0.35	8.51	
PRAIRIE_AUK_BH108	06/05/2020 00:00	14.00m 50mm SP	8.86	5.00	3.86	
PRAIRIE_AUK_BH108	15/06/2020 15:15	14.00m 50mm SP	8.86	4.91	3.95	
PRAIRIE_AUK_BH108	30/06/2020 11:51	14.00m 50mm SP	8.86	4.81	4.05	
PRAIRIE_AUK_BH109	06/05/2020 00:00	11.80m 50mm SP	12.09	5.44	6.65	
PRAIRIE_AUK_BH109	15/06/2020 13:04	11.80m 50mm SP	12.09	5.97	6.12	
PRAIRIE_AUK_BH109	30/06/2020 13:29	11.80m 50mm SP	12.09	6.72	5.37	
PRAIRIE_AUK_BH110	06/05/2020 00:00	20.80m 50mm SP	7.80	4.00	3.80	
PRAIRIE_AUK_BH110	15/06/2020 12:23	20.80m 50mm SP	7.80	3.84	3.96	
PRAIRIE_AUK_BH110	30/06/2020 09:46	20.80m 50mm SP	7.80	3.87	3.93	

SP = Standpipe - SPIE = Standpipe Piezometer.

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Gas Monitoring Results



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GAS MONITORING RESULTS

Monitoring Point	Date and Time	Weather Condition	Temperature °C	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Flow Range (l/hr)	Diff Pressure (mbar)	ATM Pressure Range (mbar)	Methane % v/v		Methane % LEL		Carbon Dioxide % v/v		Oxygen % v/v		Hydrogen Sulphide (ppm)	Carbon Monoxide (ppm)	Remarks
											(P)	(S)	(P)	(S)	(P)	(S)	(D)	(S)			
PRAIRIE_AUK_BH101	06/05/2020 00:00	Fair	14	10.00m 19mm SPIE	8.64	2.00	6.64	-1.2	11.13	1028	0.4	0.4	8.0	8.0	0.1	<0.1	19.0	19.0	1.0	4.0	
PRAIRIE_AUK_BH101	06/05/2020 00:00	Fair	14	16.50m 50mm SP	8.64	3.00	5.64	-0.4	1.53	1028	0.4	0.4	8.0	8.0	0.1	0.1	20.3	20.3	1.0	<0.1	
PRAIRIE_AUK_BH102	06/05/2020 00:00	Fair	14	7.20m 50mm SP	8.21	1.10	7.11	-5.0	-2.43	1028	0.4	0.4	8.0	8.0	0.1	<0.1	20.5	20.5	1.0	<1.0	
PRAIRIE_AUK_BH102	15/06/2020 14:16	Overcast	15	7.20m 50mm SP	8.21	0.83	7.38	0.1	0.33	1016	0.1	0.1	2.0	2.0	0.1	0.1	20.4	20.4	<1.0	1.0	
PRAIRIE_AUK_BH102	30/06/2020 09:10	Overcast	15	7.20m 50mm SP	8.21	0.90	7.31	0.1	-0.07	1001	<0.1	<0.1	<2.0	<2.0	0.1	0.1	20.5	20.5	<1.0	3	
PRAIRIE_AUK_BH103	06/05/2020 00:00	Fair	14	8.50m 50mm SP	7.68	2.25	5.43	-5.3	-3.36	1028	0.4	0.4	8.0	8.0	0.1	0.1	20.5	20.5	1.0	6.0	
PRAIRIE_AUK_BH104	06/05/2020 00:00	Fair	14	18.50m 50mm SP	8.70	6.40	2.30	-2.7	2.08	1028	0.4	0.4	8.0	8.0	0.1	0.1	20.4	20.4	1.0	2.0	
PRAIRIE_AUK_BH104	15/06/2020 14:35	Overcast	15	18.50m 50mm SP	8.70	4.06	4.64	0.1	-0.09	1016	0.1	0.1	2.0	2.0	0.3	0.2	18.6	18.6	<1.0	6.0	
PRAIRIE_AUK_BH104	30/06/2020 11:01	Overcast	15	18.50m 50mm SP	8.70	6.21	2.49	0.1	-0.31	1001	0.1	0.1	2.0	2.0	0.3	0.3	18.9	18.9	<1.0	3	
PRAIRIE_AUK_BH105	06/05/2020 00:00	Fair	14	11.00m 50mm SP	8.26	4.60	3.66	-0.6	-2.46	1027	0.4	0.4	8.0	8.0	0.1	0.1	20.4	20.4	1.0	<1.0	
PRAIRIE_AUK_BH105	15/06/2020 15:29	Overcast	15	11.00m 50mm SP	8.26	4.49	3.77	0.1	0.02	1016	0.1	0.1	2.0	2.0	0.3	0.3	19.6	19.6	<1.0	5.0	

See attached Calibration Certificate for Model No. and any other details. SP = Standpipe - SPIE = Standpipe Piezometer. (P) = Peak - (S) = Steady - (D) = Decline.

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GAS MONITORING RESULTS

Monitoring Point	Date and Time	Weather Condition	Temperature °C	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Flow Range (l/hr)	Diff Pressure (mbar)	ATM Pressure Range (mbar)	Methane % V/V		Methane % LEL		Carbon Dioxide % V/V		Oxygen % V/V		Hydrogen Sulphide (ppm)	Carbon Monoxide (ppm)	Remarks
											(P)	(S)	(P)	(S)	(P)	(S)	(D)	(S)			
PRAIRIE_AUK_BH105	30/06/2020 12:09	Overcast	15	11.00m 50mm SP	8.26	4.51	3.75	0.1	0.05	1002	<0.1	<0.1	<2.0	<2.0	0.2	0.2	19.8	19.8	<1.0	4	
PRAIRIE_AUK_BH106	06/05/2020 00:00	Fair	14	10.00m 50mm SP	8.71	3.94	4.77	-0.6	-2.46	1027	0.4	0.4	8.0	8.0	0.1	0.1	20.4	20.4	1.0	<1.0	
PRAIRIE_AUK_BH106	15/06/2020 14:52	Overcast	15	10.00m 50mm SP	8.71	2.73	5.98	0.0	0.14	1016	0.1	0.1	2.0	2.0	0.1	0.1	19.9	19.9	<1.0	2.0	
PRAIRIE_AUK_BH106	30/06/2020 11:28	Overcast	15	10.00m 50mm SP	8.71	3.28	5.43	0.0	0.15	1002	<0.1	<0.1	<2.0	<2.0	0.1	0.1	20.6	20.6	<1.0	2	
PRAIRIE_AUK_BH107	06/05/2020 00:00	Fair	14	8.00m 50mm SP	10.16	3.16	7.00	-1.1	-2.29	1027	0.4	0.4	8.0	8.0	0.7	0.7	19.8	19.8	1.0	2.0	
PRAIRIE_AUK_BH107	15/06/2020 12:41	Overcast	15	8.00m 50mm SP	10.16	3.21	6.95	0.1	0.28	1015	0.1	0.1	2.0	2.0	3.2	3.2	16.8	16.8	<1.0	2.0	
PRAIRIE_AUK_BH107	30/06/2020 13:05	Overcast	15	8.00m 50mm SP	10.16	3.12	7.04	0.1	0.05	1002	0.1	0.1	<2.0	<2.0	1.9	1.9	18.6	18.6	<1.0	3	
PRAIRIE_AUK_BH108	06/05/2020 00:00	Fair	14	6.00m 19mm SPIE	8.86	2.20	6.66	-4.4	5.20	1027	0.5	0.5	10.0	10.0	0.1	0.1	20.5	20.2	1.0	<1.0	
PRAIRIE_AUK_BH108	15/06/2020 15:17	Overcast	15	6.00m 19mm SPIE	8.86	1.14	7.72	0.2	-0.06	1016	0.1	0.1	2.0	2.0	0.4	0.4	19.4	19.4	<1.0	1.0	
PRAIRIE_AUK_BH108	30/06/2020 11:55	Overcast	15	6.00m 19mm SPIE	8.86	0.35	8.51	0.0	0.24	1002	<0.1	<0.1	<2.0	<2.0	0.1	0.1	20.6	20.6	<1.0	<1.0	
PRAIRIE_AUK_BH108	06/05/2020 00:00	Fair	14	14.00m 50mm SP	8.86	5.00	3.86	-7.1	-5.74	1027	0.5	0.5	10.0	10.0	0.1	0.1	20.1	20.1	1.0	4.0	

See attached Calibration Certificate for Model No. and any other details. SP = Standpipe - SPIE = Standpipe Piezometer. (P) = Peak - (S) = Steady - (D) = Decline.

	Contract Title :- Prairie Site Ground Investigation Works				Client :- South Tees Development Corporation				AEG Contract No :- 4251				
	Date of Issue :- 16/07/2020			Page No. :- 2 of 3		Checked By :-			Approved By :-			Certificate No. :- MON/4251/2	


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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GAS MONITORING RESULTS



Monitoring Point	Date and Time	Weather Condition	Temperature °C	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Flow Range (l/hr)	Diff Pressure (mbar)	ATM Pressure Range (mbar)	Methane % V/V		Methane % LEL		Carbon Dioxide % V/V		Oxygen % V/V		Hydrogen Sulphide (ppm)	Carbon Monoxide (ppm)	Remarks
											(P)	(S)	(P)	(S)	(P)	(S)	(D)	(S)			
PRAIRIE_AUK_BH109	06/05/2020 00:00	Fair	14	11.80m 50mm SP	12.09	5.44	6.65	-1.3	-1.92	1027	0.4	0.4	8.0	8.0	0.6	0.2	19.9	19.9	1.0	1.0	
PRAIRIE_AUK_BH109	15/06/2020 13:04	Overcast	15	11.80m 50mm SP	12.09	5.97	6.12	0.1	0.02	1015	0.1	0.1	2.0	2.0	1.7	1.7	18.4	18.4	<1.0	1.0	
PRAIRIE_AUK_BH109	30/06/2020 13:29	Overcast	15	11.80m 50mm SP	12.09	6.72	5.37	0.4	4.79	1002	0.5	0.5	10.0	10.0	4.0	4.0	15.4	15.4	<1.0	10	
PRAIRIE_AUK_BH110	06/05/2020 00:00	Fair	14	20.80m 50mm SP	7.80	4.00	3.80	-0.8	-2.25	1028	0.5	0.5	10.0	10.0	0.1	0.1	20.4	20.4	1.0	3.0	
PRAIRIE_AUK_BH110	15/06/2020 12:23	Overcast	15	20.80m 50mm SP	7.80	3.84	3.96	0.1	-0.07	1016	0.1	0.1	2.0	2.0	0.2	0.2	11.9	11.9	<0.1	32.0	
PRAIRIE_AUK_BH110	30/06/2020 09:46	Overcast	15	20.80m 50mm SP	7.80	3.87	3.93	0.1	-0.21	1001	0.1	0.1	2.0	2.0	0.4	0.4	5.5	5.5	<1.0	13	

See attached Calibration Certificate for Model No. and any other details. SP = Standpipe - SPIE = Standpipe Piezometer. (P) = Peak - (S) = Steady - (D) = Decline.

	Contract Title :- Prairie Site Ground Investigation Works				Client :- South Tees Development Corporation				AEG Contract No :- 4251			
	Date of Issue :- 16/07/2020		Page No. :- 3 of 3		Checked By :-		Approved By :-		Certificate No. :- MON/4251/3			

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IN-SITU WATER QUALITY PARAMETER MONITORING RESULTS							
Date of Test: 02/07/2020		Operator: A. Masterman					
Weather Condition (inc temperature) : Overcast/Showers (11°C)							
Monitoring Point	Time (hrs)	pH	Temp (°C)	Electrical Conductivity (Actual) (µs)	Redox Potential (mv)	Dissolved Oxygen (%)	Total Dissolved Solids (ppm)
PRAIRIE_AUK_BH105	10:13:00	7.78	11.23	1394.10	-198.80	4.11	1.23
	10:16:00	7.71	11.21	1462.20	-197.00	2.53	1.29
	10:19:00	7.43	11.23	1598.80	-185.50	1.89	1.41
	10:22:00	7.37	11.27	1623.20	-179.50	1.80	1.43
PRAIRIE_AUK_BH107	11:44:00	6.93	12.00	2177.60	9.10	6.26	1.88
	11:47:00	6.94	12.02	2178.60	12.10	7.05	1.88
	11:50:00	6.94	12.17	2188.90	16.60	9.01	1.88
	11:53:00	6.92	12.07	2184.30	-1.50	5.44	1.89
	11:56:00	6.91	11.78	2168.00	-29.50	3.70	1.89
	11:59:00	6.91	11.75	2167.00	-40.30	2.99	1.89
	12:02:00	6.90	11.81	2172.30	-56.30	3.23	1.89
	12:05:00	6.89	11.63	2162.50	-71.50	2.24	1.89
12:08:00	6.89	11.56	2166.20	-78.90	2.12	1.89	
PRAIRIE_AUK_BH108 (Deep)	09:08:00	7.69	11.23	2645.00	-156.90	4.52	2.34
	09:11:00	7.17	11.26	2935.30	-141.70	3.36	2.59
	09:14:00	6.96	11.28	2971.80	-125.70	2.15	2.62
	09:17:00	6.92	11.29	2979.60	-110.20	2.11	2.62
	09:20:00	6.90	11.28	2984.50	-103.30	1.77	2.63
PRAIRIE_AUK_BH108 (Shallow)	09:33:00	7.49	11.64	2398.40	-174.90	20.18	2.09
	09:36:00	7.39	11.63	2400.00	-182.20	16.98	2.10
	09:39:00	7.38	11.64	2402.90	-181.80	17.37	2.10
PRAIRIE_AUK_BH109	13:22:00	6.53	12.15	5418.60	-103.40	8.04	4.69
	13:25:00	6.53	11.67	5378.40	-114.70	5.25	4.69
	13:28:00	6.53	11.52	5344.30	-113.00	4.76	4.68
	13:31:00	6.54	11.45	5312.60	-110.50	4.12	4.66
Remarks :	PRAIRIE_AUK_BH108 (Shallow) - Testing undertaken in container (not in-line)						
Contract Title: Prairie Site Ground Investigation Works				Client: South Tees Development Corporation			
	Checked By:			Approved By:			
	Date Issued: 16/07/2020		Page No. : 1 of 1	AEG Contract No. : 4251			

CERTIFICATION OF CALIBRATION



Date Of Calibration: 21-Feb-2019

Certificate Number: G506065_2/22573

Issued by: QED Environmental Systems Ltd.

Customer: Lombard North Central Plc
Royal Bank of Scotland The Gemini Building 24-25 St Andrew Square
Edinburgh EH2 1AF UNITED KINGDOM

Description: Gas Analyser

Model: GA5000

Serial Number: G506065

UKAS Accredited results:

Methane (CH ₄)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	4.8	0.41
15.0	14.8	0.64
49.9	49.3	0.94

Carbon Dioxide (CO ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	4.9	0.43
15.0	14.8	0.70
50.1	50.1	1.1

Oxygen (O ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
21.0	21.1	0.31

All concentrations are molar.

CH₄, CO₂ readings recorded at : 33.1 °C ± 2.5 °C

O₂ readings recorded at : 22.8 °C ± 2.5 °C

Barometric Pressure : 1013 mbar ± 4 mbar

Method of Test : The analyser is calibrated in a temperature controlled chamber using a series of reference gases, in compliance with procedure LP004.

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance: 101 IGC Instance: N/A

Page 1 of 2 | LP015GIUKAS-2.4

www.qedenv.com +44 (0) 333 800 0088 sales@qedenv.co.uk

QED Environmental Systems Ltd. Cyan Park - Unit 3, Jimmy Hill Way, Coventry, CV2 4QP, UNITED KINGDOM

Registered in England and Wales 1898734

CERTIFICATION OF CALIBRATION



Date Of Calibration: 21-Feb-2019

Certificate Number: G506065_2/22573

Issued by: QED Environmental Systems Ltd.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

Calibrations marked 'Non-UKAS Accredited results' on this certificate have been included for completeness.

Non-UKAS accredited results after adjustment:

Barometer (mbar)	
Reference	Instrument Reading
1013	1013

Additional Gas Cells		
Gas	Certified Gas (ppm)	Instrument Reading (ppm)
CO	497	507
H ₂ S	257	257

Internal Flow	
Applied (l/hr)	Instrument Reading (l/hr)
5	5.2
10	10.3

Date of Issue : 25-Feb-2019

Approved by Signatory

Dawn Hemings

Laboratory Inspection

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance:101 IGC Instance:N/A

Page 2 of 2 | LP015GIUKAS-2.4

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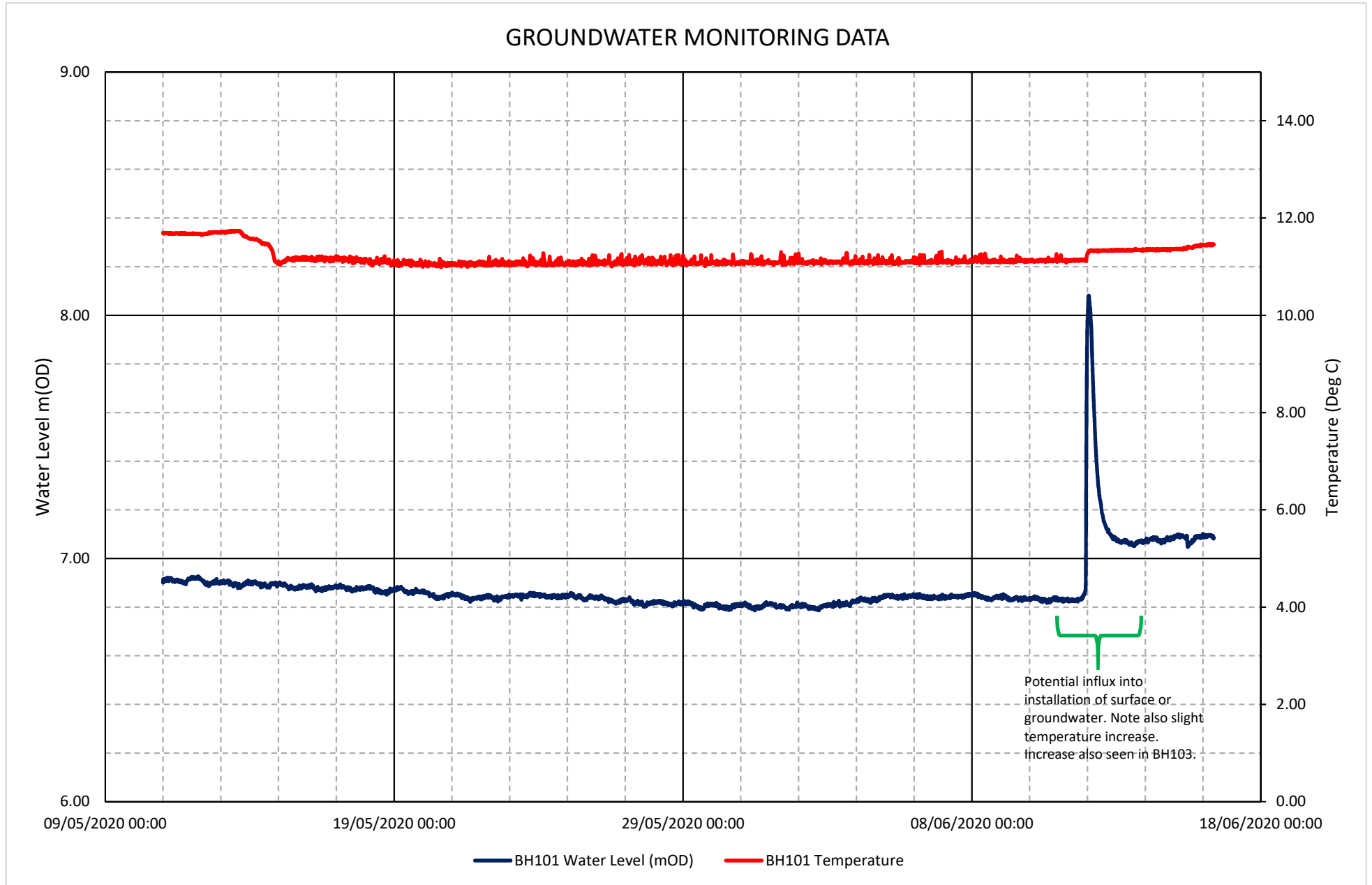
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Continuous Groundwater/Tidal Monitoring Results



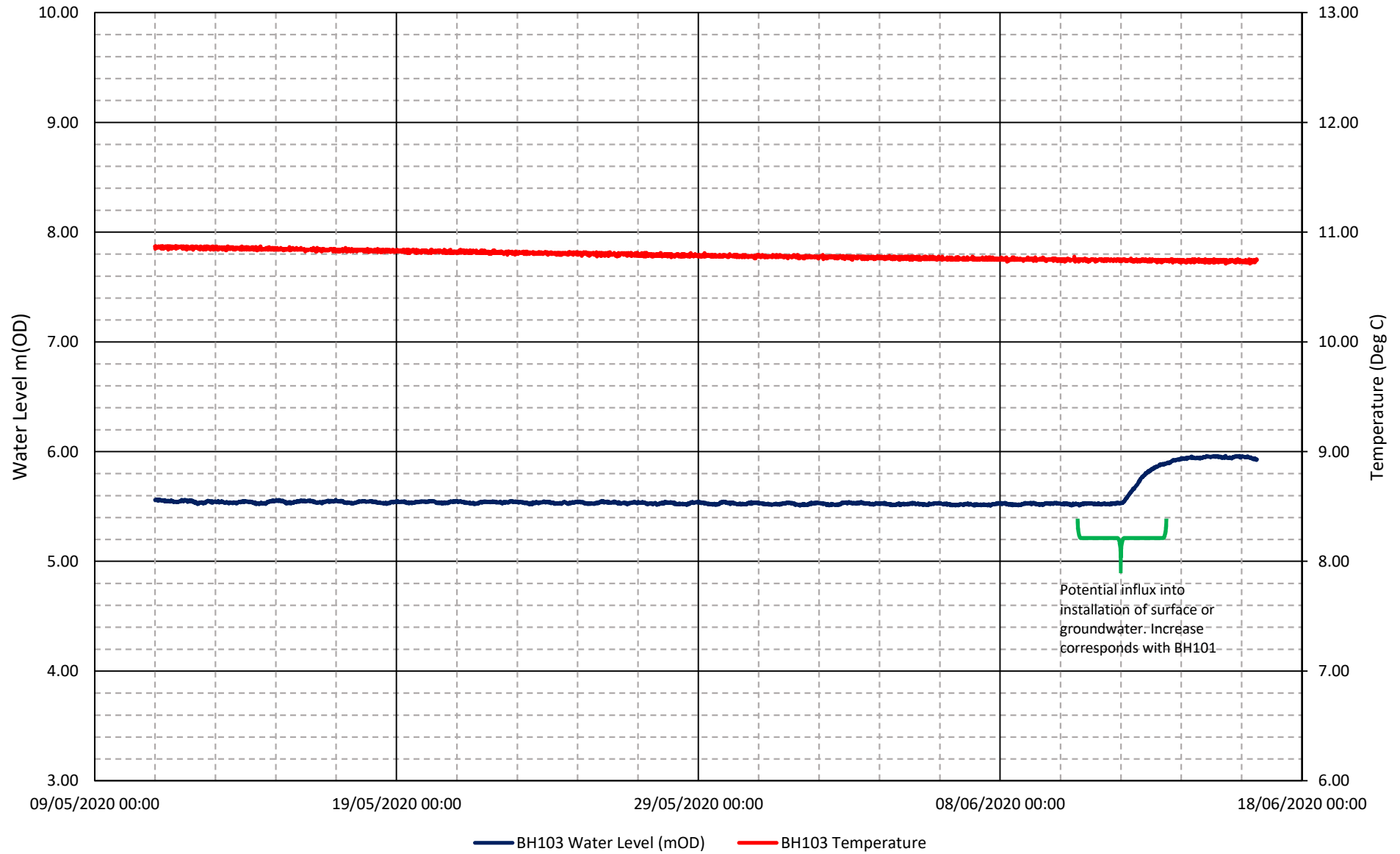
GROUNDWATER MONITORING DATA

GROUNDWATER MONITORING DATA



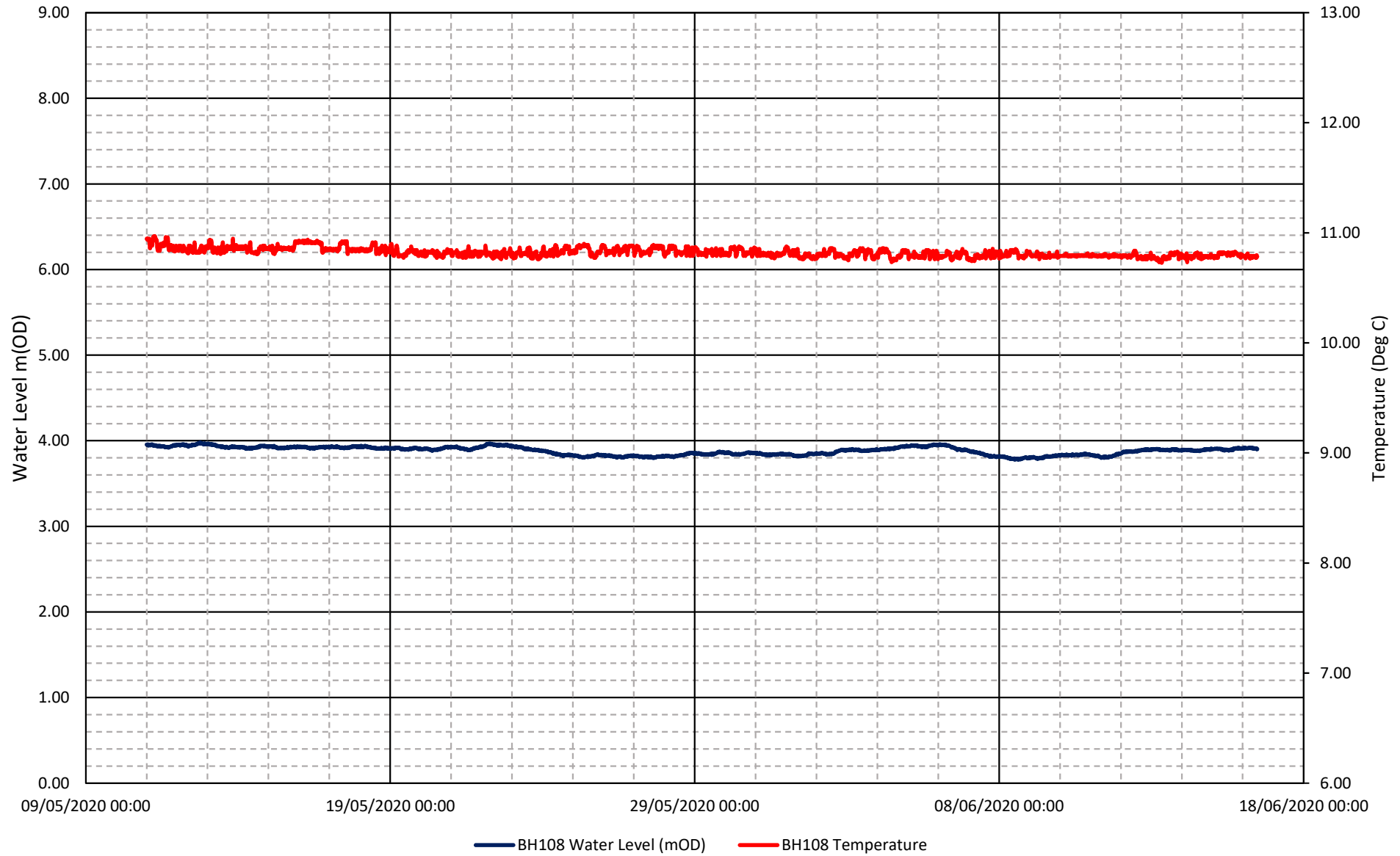
GROUNDWATER MONITORING DATA

GROUNDWATER MONITORING DATA



GROUNDWATER MONITORING DATA

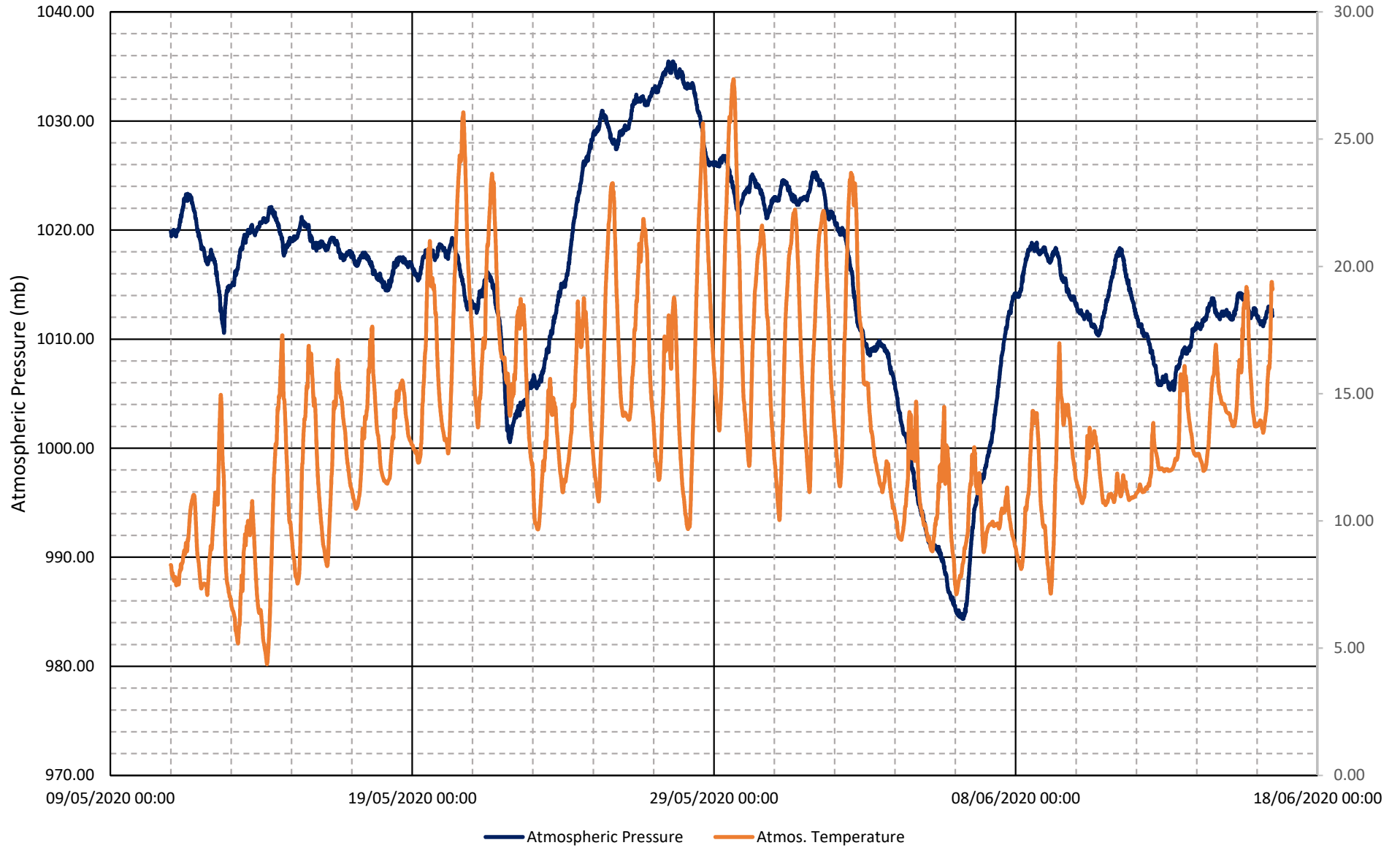
GROUNDWATER MONITORING DATA



Title: Prairie Site Ground Investigation Works
Contract No: 4251
Client: South Tees Development Corporation
Printed: 29/07/2020

GROUNDWATER MONITORING DATA

ATMOSPHERIC PRESSURE MONITORING DATA



In-situ Test Report Certificate



ALLIED EXPLORATION & GEOTECHNICS LIMITED

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IN-SITU TESTING REPORT CERTIFICATE



Contract Title: Prairie Site Ground Investigation Works

AEG Reference: 4251

Client Address: South Tees Development Corporation

I certify that *In-situ* testing was carried out on the above contract in accordance with techniques outlined in BS 1377: 1990: Part 9 or other appropriate standards as quoted, and the following results, given on the attached enclosures, were obtained.

The tests carried out are indicated in the attached table showing the enclosure number and the total number of pages.

For and on behalf of Allied Exploration & Geotechnics Limited

- Nick Vater (Managing Director)
- Kevin Warriner (HSE & Quality Director)

Signed _____

Date: 01 July 2020

Tests marked not UKAS accredited in this certificate are not included in the UKAS accreditation schedule for our laboratory. Any opinions and interpretations expressed herein are outside the scope of the laboratory's UKAS accreditation

IN-SITU TESTING REPORT CERTIFICATE

ENCLOSURES

Enclosure Number	Description	UKAS Accredited	Reference	No. of Pages
0	Test Report Certificate	N/A		2
1	Standard Penetration Test Results (SPT)	Yes	BS 1377 Part 9 1990	15
2	Hand Shear Vane Test Results	No		7
3	Photo-Ionisation Detector Test Results	No		7
4	<i>In-situ</i> Water Quality Parameter Test Results	No		4
5	Hydraulic Conductivity: Slug Test Results	No		
-	Density by Core Cutter Method	Yes	BS 1377 Part 9 1990	-
-	Determination of the Vane Shear Strength (Down the Hole)	Yes	BS 1377 Part 9 1990	-
-	Shallow Pad (skip) Load Test Results	No	BS 1377 Part 9 1990	-
-	Determination of the California Bearing Ratio	Yes	BS 1377 Part 9 1990	-
-	Plate Loading Test Results	No	BS 1377 Part 9 1990	-
-	Apparent Resistivity of Soil	No	BS 1377 Part 9 1990	-
-	Redox Potential of Soil	No	BS 1377 Part 9 1990	-
-	Determination of the Soil Infiltration Rate for Soakaway Design	No	BRE Digest 365:1991	-

Standard Penetration Test Results



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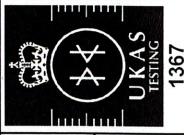
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STANDARD PENETRATION TEST RESULTS

(BS EN ISO 22476-3: 2005)

Exploratory Hole No.	Test Depth (Reduced Level) m	Water Depth (Casing) m	Rod Length m	SPT Hammer Ref.	Energy Ratio %	SEATING DRIVE						TEST DRIVE						Rod Length Corr. C_R	Energy Ratio Corr. C_E	Pen (mm)/Blow	SPT'N' Value	SPT'N' Value (Corr.) N_{60}	Shoe or Cone	Remarks		
						Pen mm	Blows	Pen mm	Blows	Pen mm	Blows	Pen mm	Blows	Pen mm	Blows	Pen mm	Blows								Total Pen mm	Total Blows
PRAIRIE_AUK_BH101	4.00 (4.64)	Dry (3.80)	4.00	ATH09	51	75	2	75	3	150	5	75	3	75	3	75	3	75	4	300	13	23.08	13	8	S	
PRAIRIE_AUK_BH101	6.00 (2.64)	Dry (5.80)	6.00	ATH09	51	75	2	75	3	150	5	75	4	75	5	75	5	75	5	300	17	17.65	17	12	S	
PRAIRIE_AUK_BH101	9.50 (-0.86)	Dry (9.30)	9.50	ATH09	51	75	2	75	3	150	5	75	5	75	5	75	5	75	5	300	18	16.67	18	15	S	
PRAIRIE_AUK_BH101	12.50 (-3.86)	Dry (12.30)	12.50	ATH09	51	75	9	75	10	150	19	75	24	75	28	75	26	285	26	285	100	2.85	-	-	S	
PRAIRIE_AUK_BH101	14.00 (-5.36)	Dry (13.80)	14.00	ATH09	51	75	16	75	16	150	32	75	26	75	22	75	29	285	29	285	100	2.85	-	-	S	
PRAIRIE_AUK_BH101	15.50 (-6.86)	11.36 (15.30)	15.50	ATH09	51	75	17	75	20	150	37	75	25	75	30	75	15	245	15	245	100	2.45	-	-	S	
PRAIRIE_AUK_BH101	17.00 (-8.36)	12.06 (16.80)	17.00	ATH09	51	75	17	75	10	150	27	75	5	75	12	75	30	300	30	300	55	5.45	55	47	S	
PRAIRIE_AUK_BH101	18.00 (-9.36)	10.47 (17.80)	18.00	ATH09	51	20	50		20	50	50	25	100				25				100	0.25	-	-	S	
PRAIRIE_AUK_BH101	18.40 (-9.76)	11.02 (18.20)	18.40	ATH09	51	15	50		15	50	50	20	100				20				100	0.20	-	-	S	
PRAIRIE_AUK_BH103	3.50 (4.18)	Dry (3.30)	3.50	ATH09	51	75	2	75	3	150	5	75	4	75	5	75	6	300	6	300	20	15.00	20	13	S	

NOTE: Please refer to calibration certificate for additional information and corresponding Exploratory Hole record for sampling details. Uncorrected and corrected SPT'N' values are presented on the attached graphical plot relative to each Exploratory Hole.

	Contract Title :- Prairie Site Ground Investigation Works		Client :- South Tees Development Corporation		
	Date of Issue :- 01/07/2020		Approved By :-		
Page No. :- 1 of 5		Checked By :-		Certificate No. :- SPT/4251/1	

ALLIED EXPLORATION & GEOTECHNICS LIMITED


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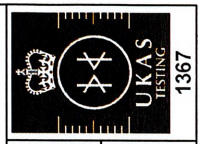
STANDARD PENETRATION TEST RESULTS

(BS EN ISO 22476-3: 2005)

Exploratory Hole No.	Test Depth (Reduced Level) m	Water Depth (Casing) m	Rod Length m	SPT Hammer Ref.	Energy Ratio E_r %	SEATING DRIVE						TEST DRIVE						Rod Length Corr. C_r	Energy Ratio Corr. C_e	Pen (mm)/Blow	SPT'N' Value	SPT'N' Value (Corr.) N_{60}	Shoe or Cone	Remarks						
						Pen mm	Blows	Pen mm	Blows	Pen mm	Blows	Pen mm	Blows	Pen mm	Blows	Pen mm	Blows								Pen mm	Blows	Total Pen mm	Total Blows		
PRAIRIE_AUK_BH103	5.50 (2.18)	DRY (5.30)	5.50	ATH09	51	75	3	75	4	150	7	75	5	75	5	75	5	75	5	75	6	300	21	0.82	0.85	14.29	21	15	S	
PRAIRIE_AUK_BH103	8.50 (-0.82)	DRY (8.30)	8.50	ATH09	51	75	4	75	5	150	9	75	8	75	8	75	10	75	11	300	37	0.94	0.85	8.11	37	30	S			
PRAIRIE_AUK_BH103	11.50 (-3.82)	DRY (11.30)	11.50	ATH09	51	75	6	75	17	150	23	75	24	75	18	75	18	75	20	300	80	1.00	0.85	3.75	80	68	S			
PRAIRIE_AUK_BH103	13.00 (-5.32)	DRY (12.80)	13.00	ATH09	51	75	9	75	16	150	25	75	25	75	41	50	34	200	100	1.00	0.85	2.00	-	-	-	-	S			
PRAIRIE_AUK_BH103	13.50 (-5.82)	DRY (13.30)	13.50	ATH09	51	75	22	75	26	150	48	75	47	55	53	130	100	130	100	1.00	0.85	1.30	-	-	-	-	S			
PRAIRIE_AUK_BH104	7.00 (1.70)	DRY (6.80)	7.00	ATH09	51	75	5	75	5	150	10	75	6	75	8	75	8	75	10	300	32	0.88	0.85	9.38	32	24	S			
PRAIRIE_AUK_BH104	10.00 (-1.30)	DRY (9.80)	10.00	ATH09	51	75	6	75	7	150	13	75	8	75	9	75	9	75	10	300	36	1.00	0.85	8.33	36	31	S			
PRAIRIE_AUK_BH104	12.00 (-3.30)	DRY (11.80)	12.00	ATH09	51	75	8	75	18	150	26	75	19	75	24	75	31	270	100	1.00	0.85	2.70	-	-	-	-	S			
PRAIRIE_AUK_BH104	13.00 (-4.30)	DRY (12.80)	13.00	ATH09	51	75	10	75	20	150	30	75	23	75	34	75	43	225	100	1.00	0.85	2.25	-	-	-	-	S			
PRAIRIE_AUK_BH105	4.00 (4.26)	DRY (3.80)	4.00	ATH09	51	75	2	75	3	150	5	75	3	75	3	75	3	300	13	0.76	0.85	23.08	13	8	S					

NOTE: Please refer to calibration certificate for additional information and corresponding Exploratory Hole record for sampling details. Uncorrected and corrected SPT'N' values are presented on the attached graphical plot relative to each Exploratory Hole.

	Contract Title :-		Client :-		AEG Contract No :-	
	Prairie Site Ground Investigation Works		South Tees Development Corporation		4251	
Date of Issue :-		Checked By :-		Certificate No. :-		
01/07/2020				SPT/4251/2		
Page No. :-		2 of 5				




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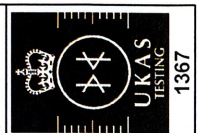
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STANDARD PENETRATION TEST RESULTS (BS EN ISO 22476-3: 2005)

Exploratory Hole No.	Test Depth (Reduced Level)	Water Depth (Casing)	Rod Length	SPT Hammer Ref.	Energy Ratio E_r	SEATING DRIVE						TEST DRIVE						Rod Length Corr. C_R	Energy Ratio Corr. C_e	Pen (mm)/Blow	SPTN Value	SPTN Value (Corr.) N_{60}	Shoe or Cone	Remarks				
						Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows								Pen	Blows	Total Pen	Total Blows
PRAIRIE_AUK_BH105	6.50 (1.76)	DRY (6.30)	6.50	ATH09	51	75	3	75	4	75	4	75	4	75	4	75	5	75	6	75	6	300	19	15.79	19	14	S	
PRAIRIE_AUK_BH105	9.50 (-1.24)	4.32 (9.30)	9.50	ATH09	51	75	12	75	23	75	36	75	38	75	26	35	75	26	185	100	185	100	-	1.85	-	S		
PRAIRIE_AUK_BH105	11.00 (-2.74)	7.36 (10.80)	11.00	ATH09	51	50	50	70	100	70	100	70	100	70	100	70	100	70	70	100	70	100	100	0.70	-	S		
PRAIRIE_AUK_BH105	11.20 (-2.94)	7.89 (11.00)	11.20	ATH09	51	50	30	55	100	55	100	55	100	55	100	55	100	55	55	100	55	100	100	0.55	-	S		
PRAIRIE_AUK_BH106	7.00 (1.71)	DRY (6.80)	7.00	ATH09	51	75	5	75	5	75	5	75	6	75	7	75	7	75	9	75	9	300	27	11.11	27	20	S	
PRAIRIE_AUK_BH106	10.00 (-1.25)	DRY (9.80)	10.00	ATH09	51	75	5	75	10	75	16	75	12	75	12	75	12	75	12	75	12	300	52	5.77	52	44	S	
PRAIRIE_AUK_BH106	10.50 (-1.79)	DRY (10.30)	10.50	ATH09	51	75	50	40	100	40	100	40	100	40	100	40	100	40	40	100	40	100	100	0.40	-	S		
PRAIRIE_AUK_BH107	4.00 (6.16)	1.63 (3.80)	4.00	ATH09	51	75	2	75	3	75	3	75	4	75	5	75	5	75	5	75	5	300	17	17.65	17	11	S	
PRAIRIE_AUK_BH107	6.50 (3.66)	DRY (6.30)	6.50	ATH09	51	75	3	75	3	75	3	75	4	75	5	75	5	75	5	75	5	300	17	17.65	17	12	S	
PRAIRIE_AUK_BH107	9.00 (1.16)	DRY (7.80)	9.00	ATH09	51	75	25	35	25	40	100	40	100	40	100	40	100	40	40	100	40	100	100	0.40	-	S		

NOTE: Please refer to calibration certificate for additional information and corresponding Exploratory Hole record for sampling details. Uncorrected and corrected SPTN values are presented on the attached graphical plot relative to each Exploratory Hole.

	Contract Title :-		Client :-		AEG Contract No :-	
	Prairie Site Ground Investigation Works		South Tees Development Corporation		4251	
Date of Issue :-		Checked By :-		Certificate No. :-		
01/07/2020		3 of 5		SPT/4251/3		



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STANDARD PENETRATION TEST RESULTS

(BS EN ISO 22476-3: 2005)

Exploratory Hole No.	Test Depth (Reduced Level) m	Water Depth (Casing) m	Rod Length m	SPT Hammer Ref.	Energy Ratio E_r %	SEATING DRIVE						TEST DRIVE						Rod Length Corr. C_r	Energy Ratio Corr. C_e	Pen (mm)/Blow	SPT'N Value	SPT'N Value (Corr.) N_{60}	Shoe or Cone S/C	Remarks		
						Pen mm	Blows No.	Pen mm	Blows No.	Pen mm	Blows No.	Pen mm	Blows No.	Pen mm	Blows No.	Pen mm	Blows No.								Pen mm	Blows No.
PRAIRIE_AUK_BH108	3.50 (5.36)	DRY (3.30)	3.50	ATH09	51	75	1	75	3	150	4	75	3	75	3	75	3	75	3	300	13	23.08	13	8	S	
PRAIRIE_AUK_BH108	5.50 (3.36)	DRY (5.30)	5.50	ATH09	51	75	2	75	3	150	5	75	5	75	12	75	14	75	18	300	49	6.12	49	34	S	
PRAIRIE_AUK_BH108	7.00 (1.86)	DRY (6.80)	7.00	ATH09	51	75	8	75	8	150	16	75	15	75	17	75	23	75	21	300	76	3.95	76	57	S	
PRAIRIE_AUK_BH108	8.50 (0.36)	DRY (8.30)	8.50	ATH09	51	70	50	55	100	70	50	55	100							55	100	0.55	-	-	S	
PRAIRIE_AUK_BH108	9.00 (-0.14)	DRY (8.80)	9.00	ATH09	51	35	50	40	100	35	50	40	100							40	100	0.40	-	-	S	
PRAIRIE_AUK_BH109	2.00 (10.09)	DRY (1.80)	2.00	ATH09	51	75	2	75	3	150	5	75	3	75	3	75	4	75	5	300	15	20.00	15	9	S	
PRAIRIE_AUK_BH109	4.00 (8.09)	DRY (3.80)	4.00	ATH09	51	75	2	75	2	150	4	75	3	75	5	75	6	75	7	300	21	14.29	21	14	S	
PRAIRIE_AUK_BH109	6.00 (6.09)	DRY (5.80)	6.00	ATH09	51	75	9	75	20	150	29	75	53	35	47					110	100	1.10	-	-	S	
PRAIRIE_AUK_BH109	6.50 (5.59)	DRY (6.30)	6.50	ATH09	51	60	50	45	100	60	50	45	100							45	100	0.45	-	-	S	
PRAIRIE_AUK_BH110	6.50 (1.30)	DRY (6.30)	6.50	ATH09	51	75	3	75	3	150	6	75	3	75	3	75	3	75	4	300	13	23.08	13	10	S	

NOTE: Please refer to calibration certificate for additional information and corresponding Exploratory Hole record for sampling details. Uncorrected and corrected SPT'N values are presented on the attached graphical plot relative to each Exploratory Hole.

	Contract Title :-		Client :-		AEG Contract No. :-	
	Prairie Site Ground Investigation Works		South Tees Development Corporation		4251	
Date of Issue :-		Checked By :-		Certificate No. :-		
01/07/2020		4 of 5		SPT/4251/4		



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STANDARD PENETRATION TEST RESULTS

(BS EN ISO 22476-3: 2005)

Exploratory Hole No.	Test Depth (Reduced Level)	Water Depth (Casing)	Rod Length	SPT Hammer Ref.	Energy Ratio E _s	SEATING DRIVE						TEST DRIVE						Rod Length Corr. C _R	Energy Ratio Corr. C _E	Pen (mm)/Blow	SPTN Value	SPTN Value (Corr.) N ₆₀	Shoe or Cone	Remarks
						Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows							
PRAIRIE_AUK_BH110	9.50 (-1.70)	Dry (9.30)	9.50	ATH09	51	75	3	75	6	75	9	75	10	75	34	300	59	49	S					
PRAIRIE_AUK_BH110	12.50 (-4.70)	Dry (12.30)	12.50	ATH09	51	75	9	75	12	75	19	75	25	75	41	300	98	83	S					
PRAIRIE_AUK_BH110	14.00 (-6.20)	6.74 (13.80)	14.00	ATH09	51	75	15	75	19	75	27	70	48			220	100	-	S					
PRAIRIE_AUK_BH110	15.00 (-7.20)	7.02 (14.80)	15.00	ATH09	51	55	50	70	100							70	100	-	S					
PRAIRIE_AUK_BH110	15.50 (-7.70)	7.39 (15.30)	15.50	ATH09	51	35	50	50	100							50	100	-	S					

NOTE: Please refer to calibration certificate for additional information and corresponding Exploratory Hole record for sampling details. Uncorrected and corrected SPTN values are presented on the attached graphical plot relative to each Exploratory Hole.

	Contract Title :-		Client :-		AEG Contract No :-	
	Prairie Site Ground Investigation Works		South Tees Development Corporation		4251	
Date of Issue :-		Checked By :-		Certificate No. :-		
01/07/2020		5 of 5		SPT/4251/5		



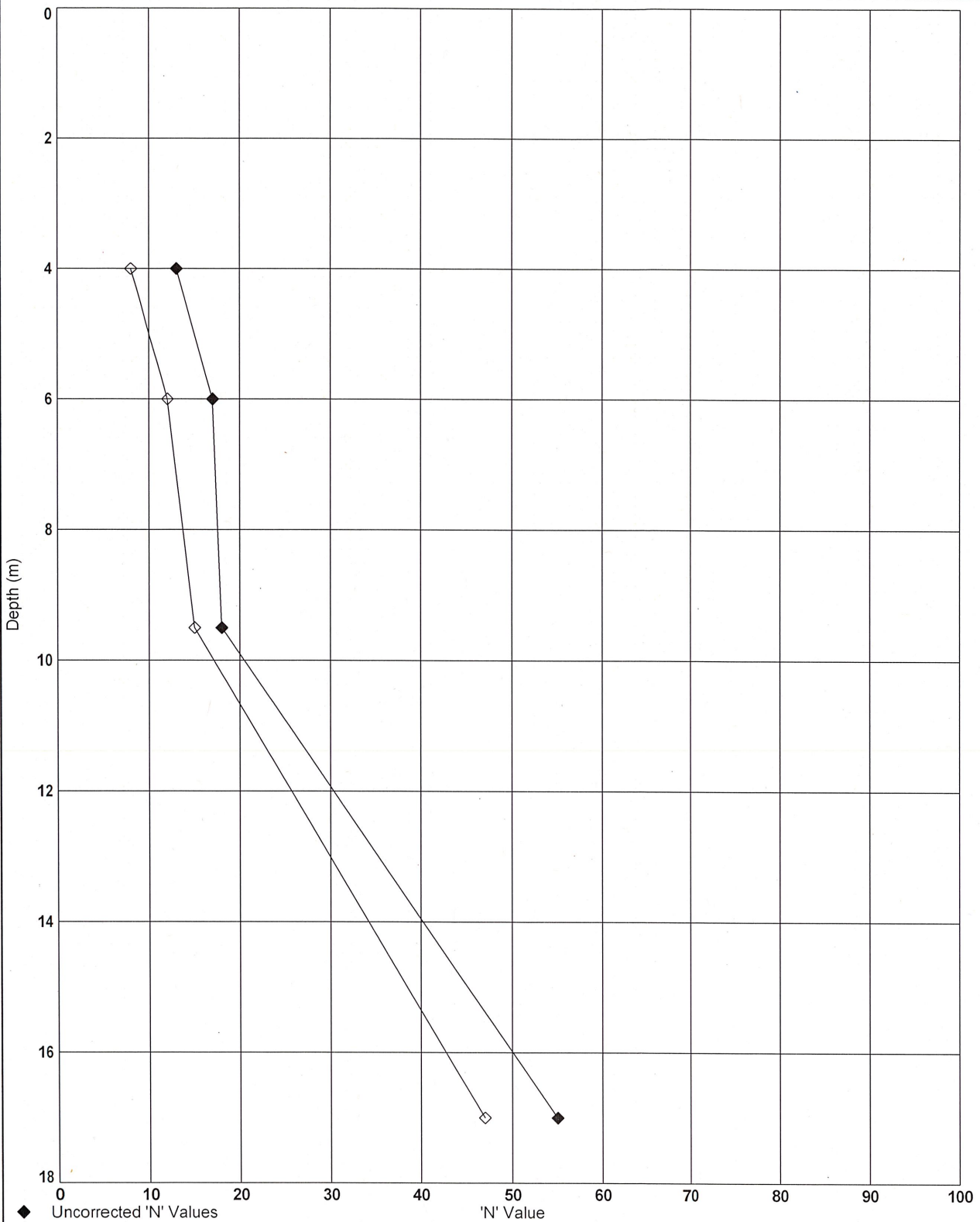
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STANDARD PENETRATION TEST RESULTS (BS EN ISO 22476-3: 2005)

Exploratory Hole No

PRAIRIE_AUK_BH101



Contract Title :- Prairie Site Ground Investigation Works	Client :- South Tees Development Corporation
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	Date of issue :- 30/06/2020	Certificate No :- SPT/4251/Graph/PRAIRIE_AUK_BH101	Operator :- L. Selkirk	
	Checked By :-	Approved By :-	AEG Contract No. :- 4251	

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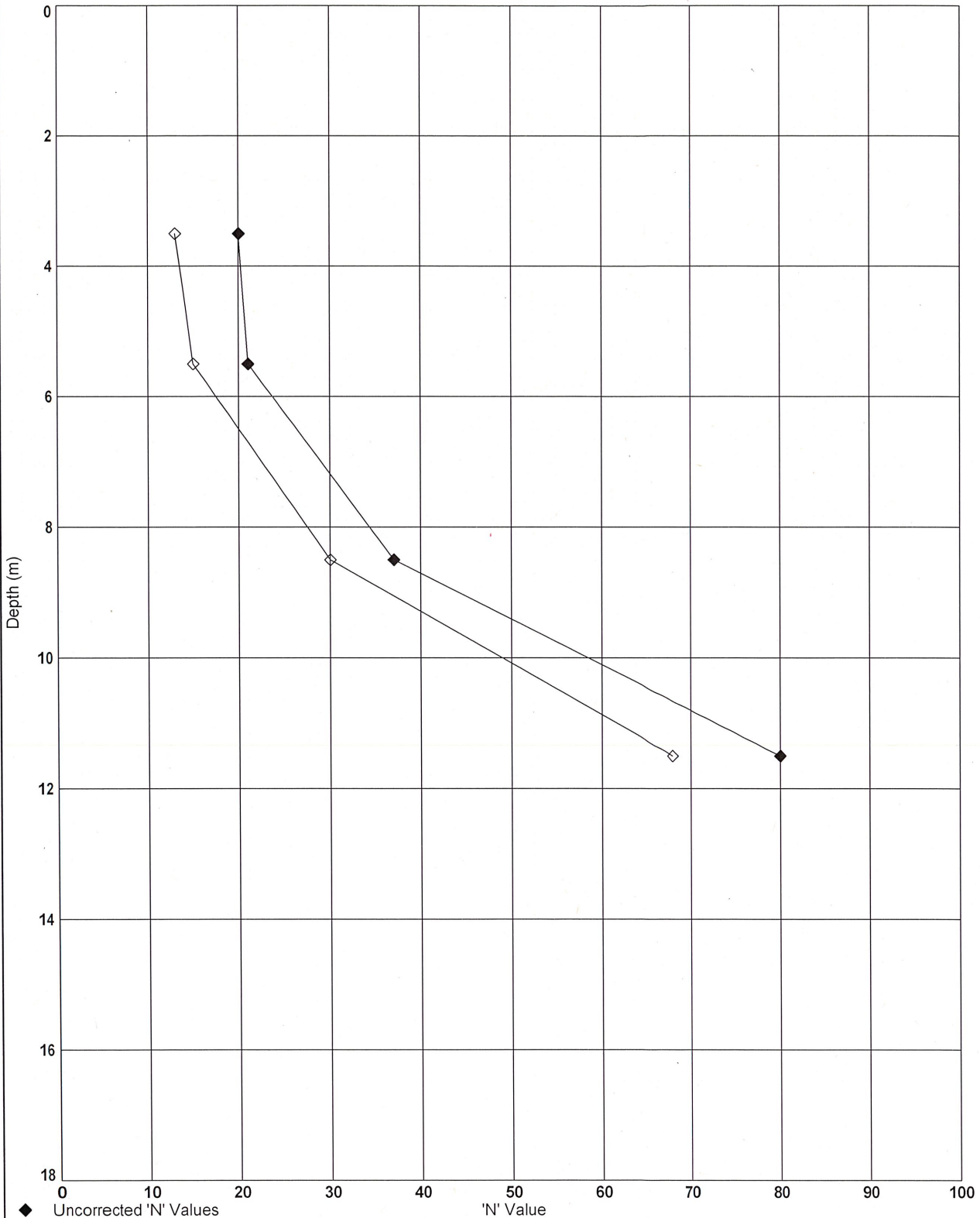
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STANDARD PENETRATION TEST RESULTS (BS EN ISO 22476-3: 2005)

Exploratory Hole No

PRAIRIE_AUK_BH103



◆ Uncorrected 'N' Values

◇ Corrected 'N' Values

Note: Graph does not display extrapolated SPT results (e.g. refusals).

Contract Title :-

Prairie Site Ground Investigation Works

Client :-

South Tees Development Corporation



Date of issue :-

30/06/2020

Certificate No :-

SPT/4251/Graph/PRAIRIE_AUK_BH103

Operator :-

L. Selkirk

Checked By :-

Approved By :-

AEG Contract No. :-

4251



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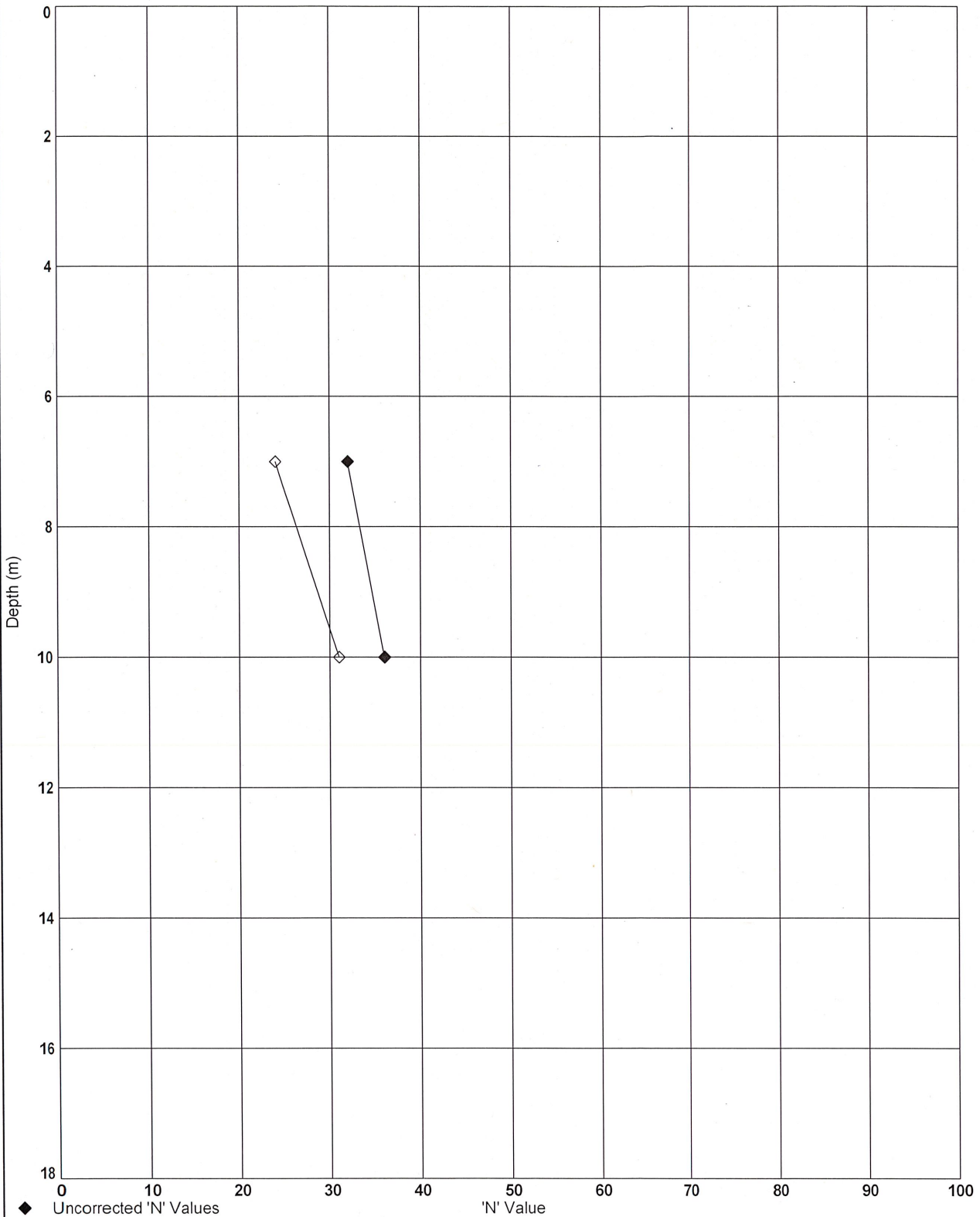
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STANDARD PENETRATION TEST RESULTS (BS EN ISO 22476-3: 2005)

Exploratory Hole No

PRAIRIE_AUK_BH104



◆ Uncorrected 'N' Values

◇ Corrected 'N' Values

Note: Graph does not display extrapolated SPT results (e.g. refusals).

Contract Title :-
Prairie Site Ground Investigation Works

Client :-
South Tees Development Corporation



Date of issue :-
30/06/2020

Certificate No :-
SPT/4251/Graph/PRAIRIE_AUK_BH104

Operator :-
L.S./L.H.

Checked By :-

Approved By :-

AEG Contract No. :-
4251



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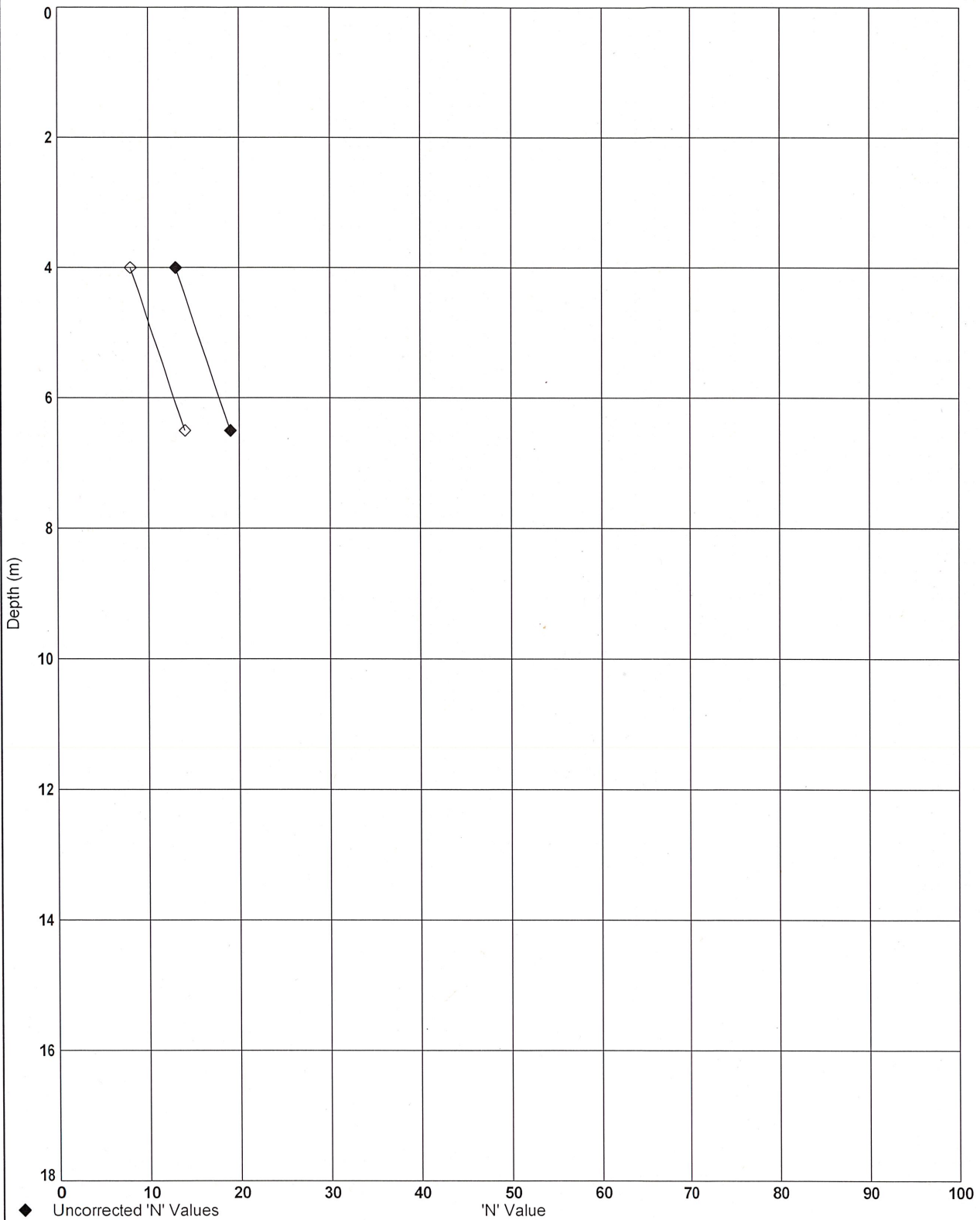
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STANDARD PENETRATION TEST RESULTS (BS EN ISO 22476-3: 2005)

Exploratory Hole No

PRAIRIE_AUK_BH105



Contract Title :- Prairie Site Ground Investigation Works

Client :- South Tees Development Corporation



Date of issue :-
30/06/2020

Certificate No :-
SPT/4251/Graph/PRAIRIE_AUK_BH105

Operator :-
L. Selkirk



Checked By :-

Approved By :-

AEG Contract No. :-
4251

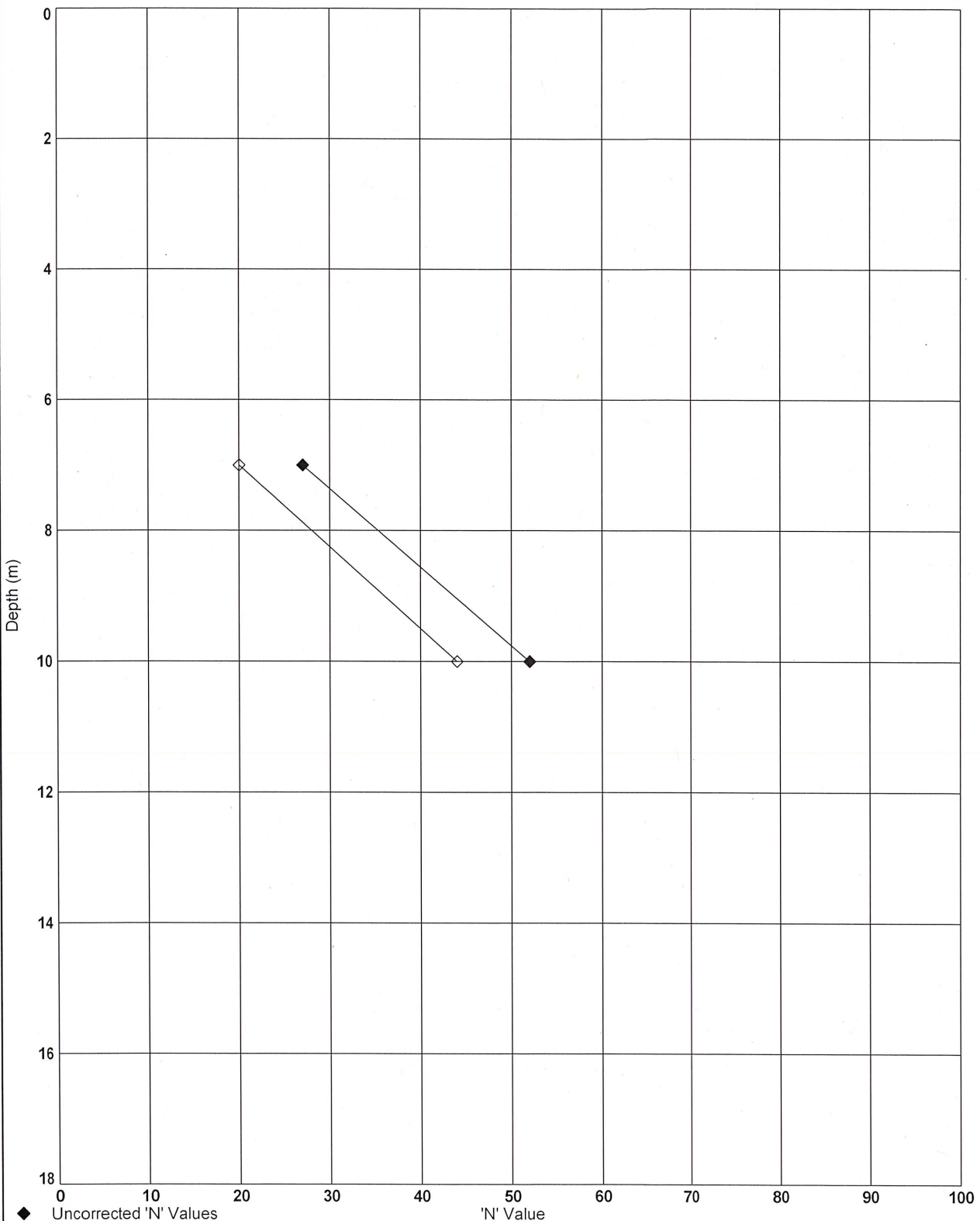
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STANDARD PENETRATION TEST RESULTS (BS EN ISO 22476-3: 2005)

Exploratory Hole No

PRAIRIE_AUK_BH106



Contract Title :- Prairie Site Ground Investigation Works

Client :- South Tees Development Corporation



Date of issue :- 30/06/2020

Certificate No :- SPT/4251/Graph/PRAIRIE_AUK_BH106

Operator :- L. Selkirk



Checked By :-

Approved By :-

AEG Contract No. :- 4251

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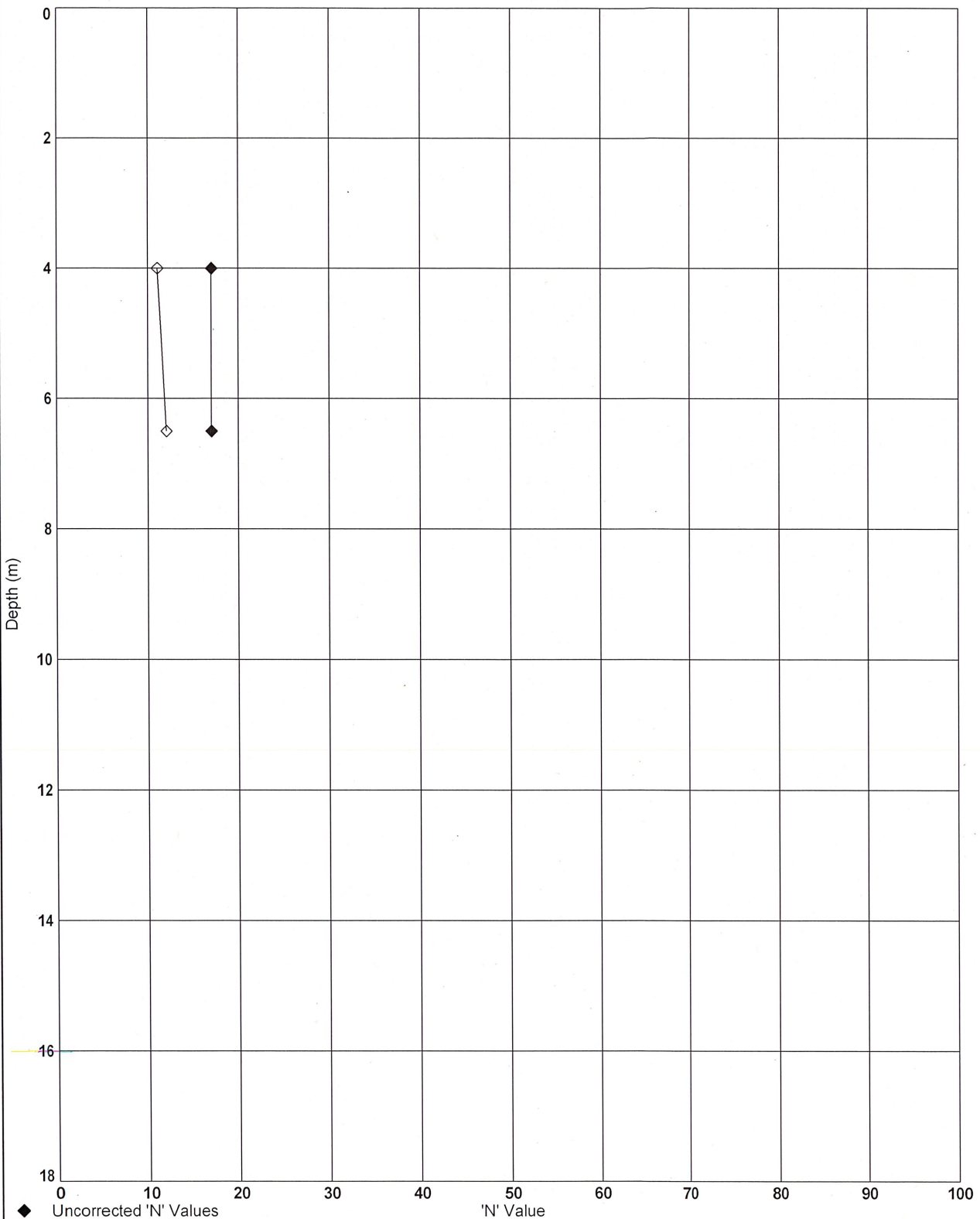
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STANDARD PENETRATION TEST RESULTS (BS EN ISO 22476-3: 2005)

Exploratory Hole No

PRAIRIE_AUK_BH107



Contract Title :-

Prairie Site Ground Investigation Works

Client :-

South Tees Development Corporation



Date of issue :-

30/06/2020

Certificate No :-

SPT/4251/Graph/PRAIRIE_AUK_BH107

Operator :-

L. Selkirk

Checked By :-

Approved By :-

AEG Contract No. :-

4251



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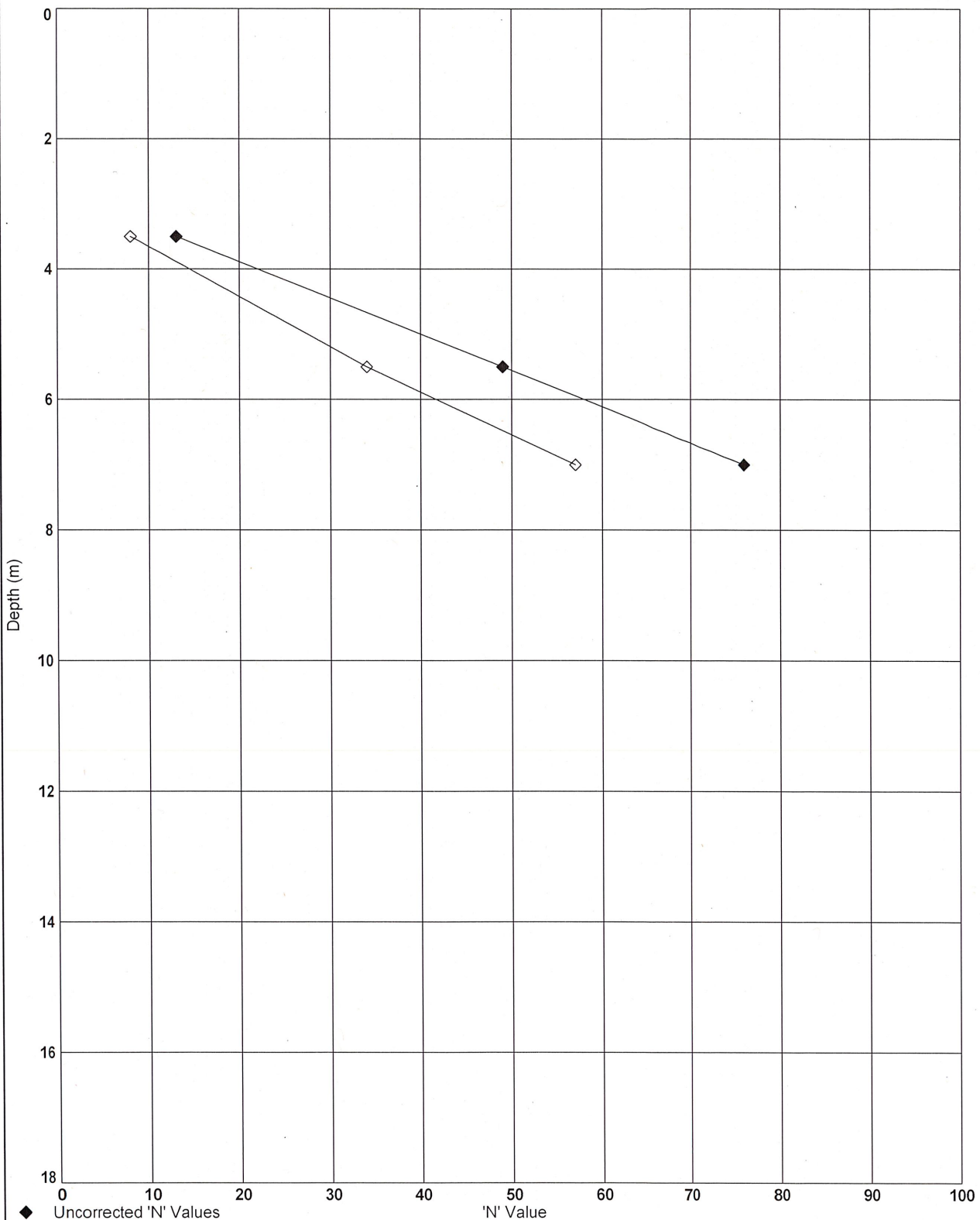
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STANDARD PENETRATION TEST RESULTS (BS EN ISO 22476-3: 2005)

Exploratory Hole No

PRAIRIE_AUK_BH108



Contract Title :- Prairie Site Ground Investigation Works

Client :- South Tees Development Corporation



Date of issue :-
30/06/2020

Certificate No :-
SPT/4251/Graph/PRAIRIE_AUK_BH108

Operator :-
L.S./L.H.

Checked By :-

Approved By :-

AEG Contract No. :-
4251



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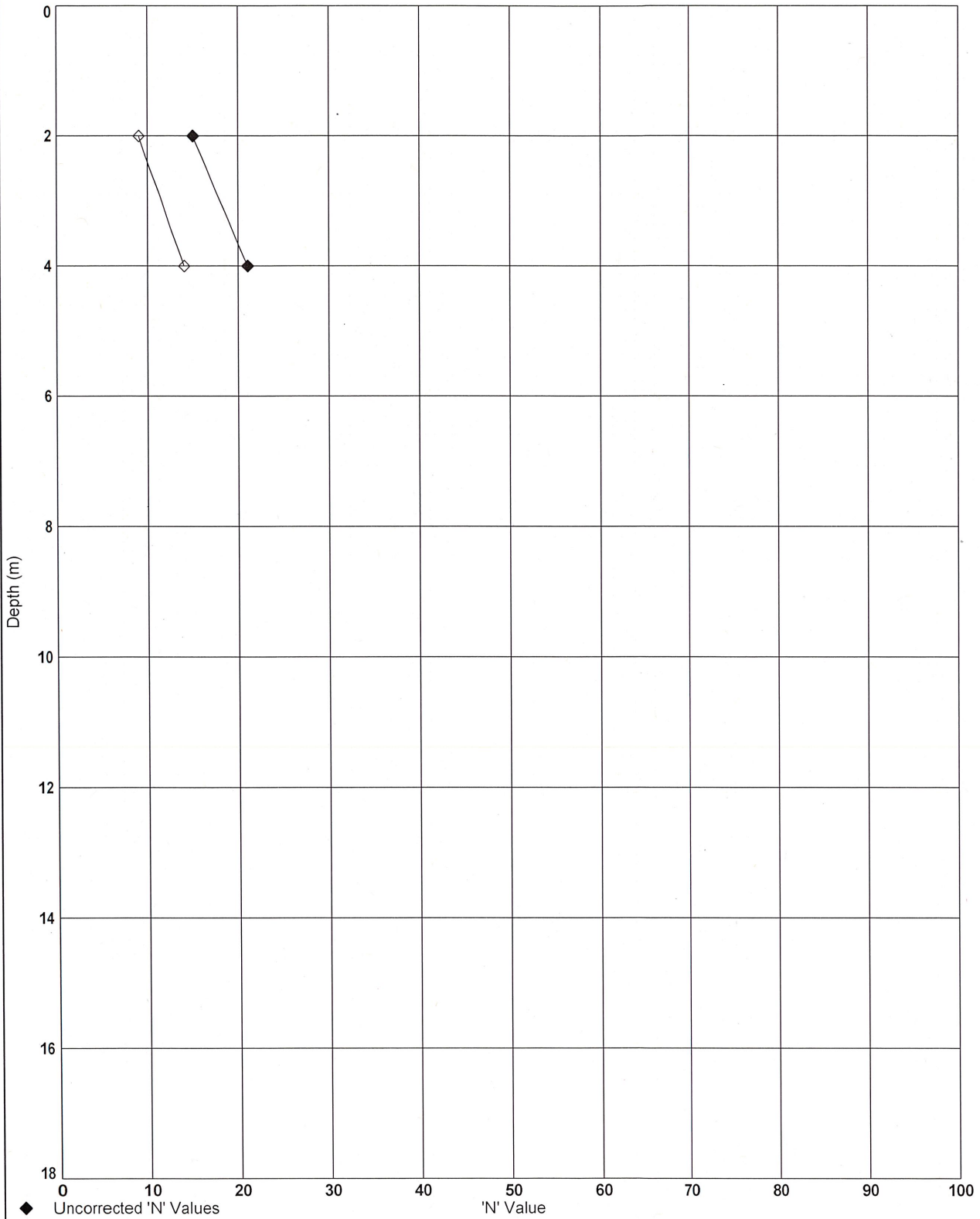
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STANDARD PENETRATION TEST RESULTS (BS EN ISO 22476-3: 2005)

Exploratory Hole No

PRAIRIE_AUK_BH109



◆ Uncorrected 'N' Values

◇ Corrected 'N' Values

Note: Graph does not display extrapolated SPT results (e.g. refusals).

Contract Title :-

Prairie Site Ground Investigation Works

Client :-

South Tees Development Corporation



Date of issue :-

30/06/2020

Certificate No :-

SPT/4251/Graph/PRAIRIE_AUK_BH109

Operator :-

L.S./L.H.

Checked By :-

Approved By :-

AEG Contract No. :-

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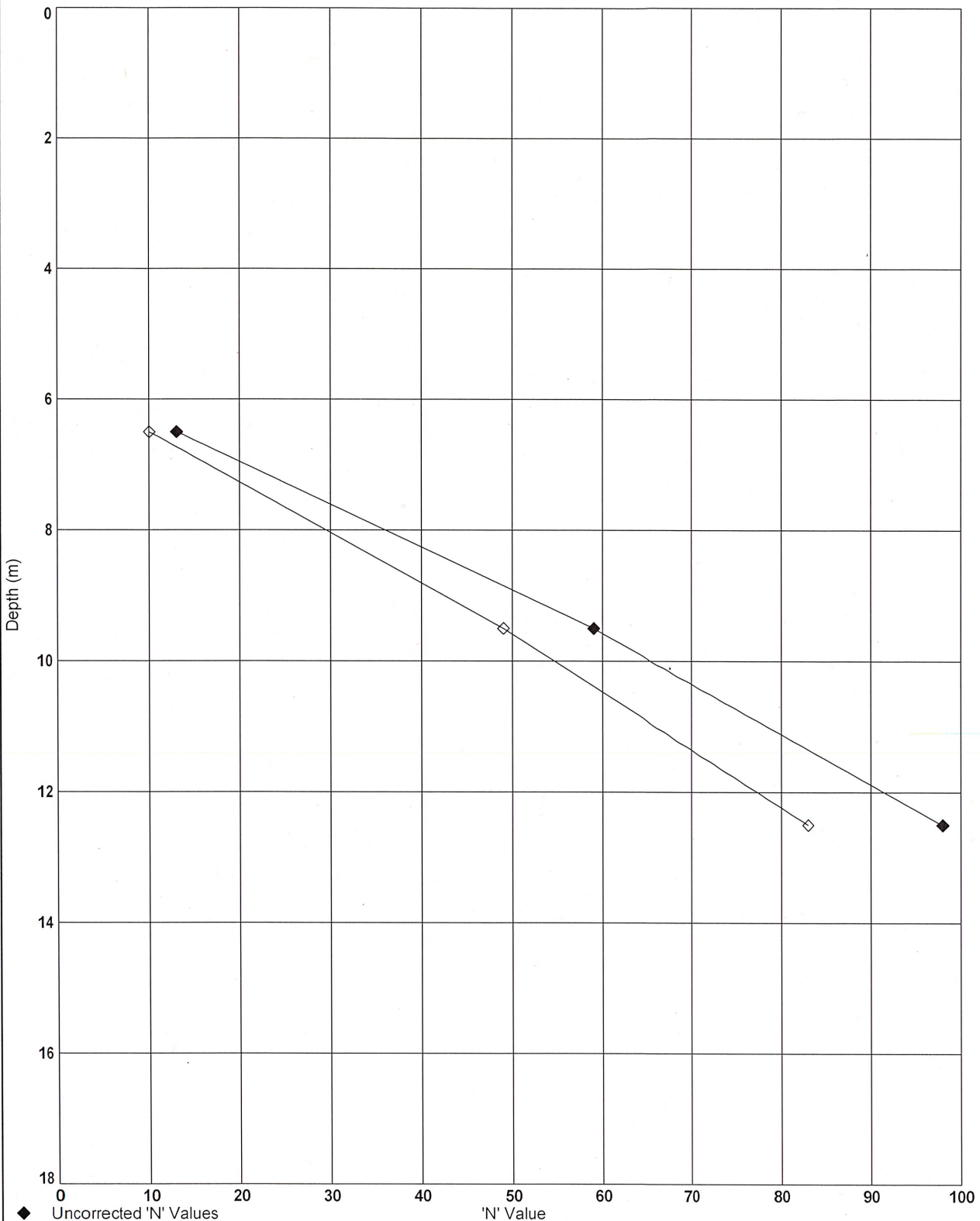
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STANDARD PENETRATION TEST RESULTS (BS EN ISO 22476-3: 2005)

Exploratory Hole No

PRAIRIE_AUK_BH110



Contract Title :- Prairie Site Ground Investigation Works

Client :- South Tees Development Corporation



Date of issue :- 30/06/2020

Certificate No :- SPT/4251/Graph/PRAIRIE_AUK_BH110

Operator :- L.S./L.H.



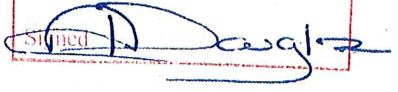
Checked By :-

Approved By :-

AEG Contract No. :- 4251

Unit 25 Stella Gill Industrial Estate
Pelton Fell
Chester-le-Street
DH2 2RG

SPT Hammer Ref: ATH09
Test Date: 23/05/2019
Report Date: 07/01/2020
File Name: ATH09.spt
Test Operator: BP

Signed: 

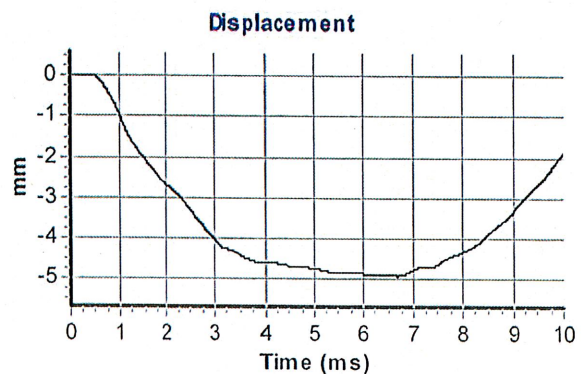
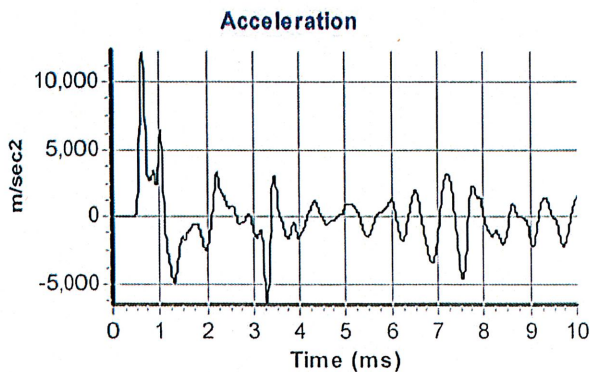
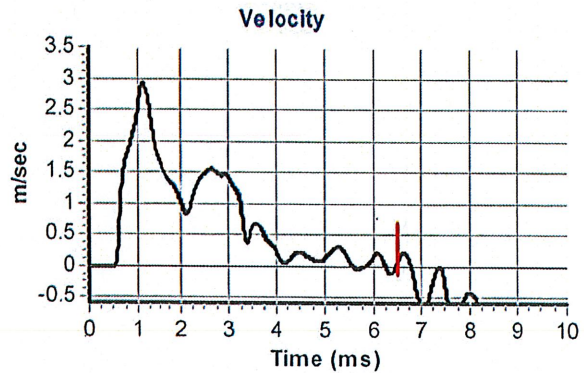
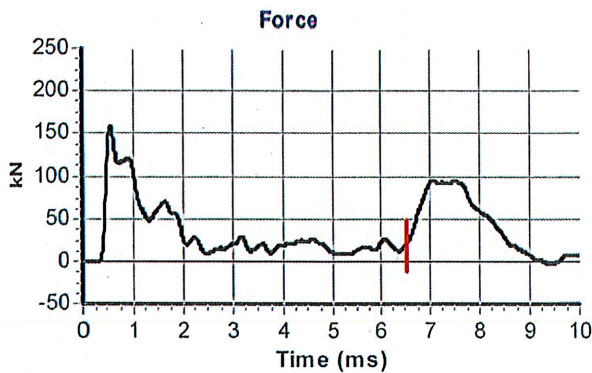
Instrumented Rod Data

Diameter d_r (mm): 54
Wall Thickness t_r (mm): 6.5
Assumed Modulus E_a (GPa): 208
Accelerometer No.1: 5991
Accelerometer No.2: 5990

SPT Hammer Information

Hammer Mass m (kg): 63.5
Falling Height h (mm): 760
SPT String Length L (m): 14.1

Comments / Location

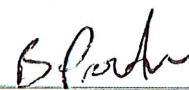


Calculations

Area of Rod A (mm²): 970
Theoretical Energy E_{theor} (J): 473
Measured Energy E_{meas} (J): 241

Energy Ratio E_r (%): 51

Signed: Brian Proctor
Title: Technician



The recommended calibration interval is 12 months

Hand Shear Vane Test Results



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HAND SHEAR VANE TEST RESULTS

Exploratory Hole No.	Date	Depth m	1st Result kPa	2nd Result kPa	3rd Result kPa	4th Result kPa	Average kPa	Remarks
PRAIRIE_AUK_TP101	01/04/2020	1.80	72 (32)	64	66	69	68 (32)	
PRAIRIE_AUK_TP101	01/04/2020	2.80	50 (22)	54	66	42	53 (22)	
PRAIRIE_AUK_TP101	01/04/2020	4.40	52 (18)	44	44	48	47 (18)	
PRAIRIE_AUK_TP104	01/04/2020	3.00	90 (22)	82	88	88	87 (22)	
PRAIRIE_AUK_TP104	01/04/2020	3.90	90 (32)	84	90	80	86 (32)	
PRAIRIE_AUK_TP105	01/04/2020	2.00	60 (20)	60	60	60	60 (20)	
PRAIRIE_AUK_TP105	01/04/2020	3.00	64 (24)	60	68	62	64 (24)	
PRAIRIE_AUK_TP106	23/04/2020	2.00	72 (26)	72	68	68	70 (26)	
PRAIRIE_AUK_TP106	23/04/2020	3.00	130	130	130	130	130	Results in excess of 130kPa - exceeds the device measuring range.
PRAIRIE_AUK_TP107	06/04/2020	1.00	73 (34)	72	68	76	72 (34)	
PRAIRIE_AUK_TP107	06/04/2020	2.50	64 (34)	62	68	72	67 (34)	
PRAIRIE_AUK_TP109	21/04/2020	2.00	76 (40)	82	82	86	82 (40)	

Residual results given in brackets.

Contract Title :- Prairie Site Ground Investigation Works		Client :- South Tees Development Corporation		AEG Contract No :- 4251	
Date of Issue :- 01/07/2020		Page No. :- 1 of 7		Checked By :- Approved By :-	
Contract Title :-		Client :-		AEG Contract No :-	
Date of Issue :-		Page No. :-		Certificate No. :-	




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HAND SHEAR VANE TEST RESULTS

Exploratory Hole No.	Date	Depth m	1st Result kPa	2nd Result kPa	3rd Result kPa	4th Result kPa	Average kPa	Remarks
PRAIRIE_AUK_TP106	21/04/2020	3.00	100 (40)	110	90	110	103 (40)	
PRAIRIE_AUK_TP110	21/04/2020	3.00	60 (18)	58	56	60	59 (18)	
PRAIRIE_AUK_TP110	21/04/2020	4.00	50 (12)	44	52	50	49 (12)	
PRAIRIE_AUK_TP111	22/04/2020	2.50	60 (30)	64	80	74	70 (30)	
PRAIRIE_AUK_TP111	22/04/2020	3.00	100 (32)	92	112	100	101 (32)	
PRAIRIE_AUK_TP112	22/04/2020	2.50	68 (38)	78	88	68	76 (38)	
PRAIRIE_AUK_TP112	22/04/2020	3.10	54 (24)	52	58	58	56 (24)	
PRAIRIE_AUK_TP113	06/04/2020	3.50	50 (20)	50	60	56	54 (20)	
PRAIRIE_AUK_TP113	08/04/2020	2.00	30 (8)	20	30	20	25 (8)	
PRAIRIE_AUK_TP116	23/04/2020	2.00	100 (68)	90	98	110	100 (68)	
PRAIRIE_AUK_TP116	23/04/2020	3.00	130	130	130	130	130	Results in excess of 130kPa - exceeds the device measuring range.
PRAIRIE_AUK_TP116	23/04/2020	1.60	64 (42)	72	68	68	68 (42)	

Residual results given in brackets.

	Contract Title :-		Client :-		AEG Contract No :-		
	Prairie Site Ground Investigation Works		South Tees Development Corporation		4251		
Date of Issue :-		Checked By :-		Approved By :-		Certificate No. :-	
01/07/2020		2 of 7				HSV/4251/2	

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 Regional Office: Unit 20 Business Development Centre, Eaham Wharf, Blackburn, BB1 9BL Tel: 01772 735 300 Fax: 01772 735 999

HAND SHEAR VANE TEST RESULTS

Exploratory Hole No.	Date	Depth m	1st Result kPa	2nd Result kPa	3rd Result kPa	4th Result kPa	Average kPa	Remarks
PRAIRIE_AUK_TP116	23/04/2020	2.60	80 (40)	86	82	80	82 (40)	
PRAIRIE_AUK_TP119	22/04/2020	2.50	52 (20)	40	54	40	47 (20)	
PRAIRIE_AUK_TP119	22/04/2020	3.00	70 (22)	60	66	64	65 (22)	
PRAIRIE_AUK_TP120A	20/04/2020	1.50	60 (22)	62	66	60	62 (22)	
PRAIRIE_AUK_TP120A	20/04/2020	2.50	70 (18)	76	76	74	74 (18)	
PRAIRIE_AUK_TP124	08/04/2020	2.20	32 (20)	34	32	30	32 (20)	
PRAIRIE_AUK_TP127A	23/04/2020	2.50	70 (34)	68	72	68	70 (34)	
PRAIRIE_AUK_TP131	02/04/2020	2.80	46 (20)	62	50	22	45 (20)	
PRAIRIE_AUK_TP131	02/04/2020	3.80	56 (34)	60	60	58	59 (34)	
PRAIRIE_AUK_TP133	22/04/2020	1.00	42 (22)	30	44	46	41 (22)	
PRAIRIE_AUK_TP133	22/04/2020	1.50	76 (18)	80	64	64	71 (18)	
PRAIRIE_AUK_TP134	20/04/2020	1.50	76 (18)	64	68	68	69 (18)	

Residual results given in brackets.

Contract Title :-	Prairie Site Ground Investigation Works	Client :-	South Tees Development Corporation	AEG Contract No :-	4251
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HAND SHEAR VANE TEST RESULTS

Exploratory Hole No.	Date	Depth m	1st Result kPa	2nd Result kPa	3rd Result kPa	4th Result kPa	Average kPa	Remarks
PRAIRIE_AUK_TP134	20/04/2020	2.50	84 (28)	86	84	82	84 (28)	
PRAIRIE_AUK_TP135	15/04/2020	1.80	66 (22)	72	68	72	70 (22)	
PRAIRIE_AUK_TP135	15/04/2020	2.80	70 (20)	62	72	74	70 (20)	
PRAIRIE_AUK_TP136	15/04/2020	1.50	38 (18)	40	40	42	40 (18)	
PRAIRIE_AUK_TP136	15/04/2020	2.50	66 (16)	66	70	64	67 (16)	
PRAIRIE_AUK_TP137	15/04/2020	2.00	56 (18)	42	48	46	48 (18)	
PRAIRIE_AUK_TP139B	16/04/2020	2.50	44 (16)	50	46	46	47 (16)	
PRAIRIE_AUK_TP139B	16/04/2020	3.50	80 (22)	70	80	76	77 (22)	
PRAIRIE_AUK_TP145	14/04/2020	2.00	82 (30)	72	76	76	77 (30)	
PRAIRIE_AUK_TP145	14/04/2020	3.00	62 (28)	62	64	68	64 (28)	
PRAIRIE_AUK_TP146C	14/04/2020	1.50	98 (40)	100	94	96	97 (40)	
PRAIRIE_AUK_TP146C	14/04/2020	2.50	92 (30)	106	92	96	97 (30)	

Residual results given in brackets.

	Contract Title :-		Client :-		AEG Contract No :-	
	Prairie Site Ground Investigation Works		South Tees Development Corporation		4251	
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HAND SHEAR VANE TEST RESULTS

Exploratory Hole No.	Date	Depth m	1st Result kPa	2nd Result kPa	3rd Result kPa	4th Result kPa	Average kPa	Remarks
PRAIRIE_AUK_TP149	09/04/2020	2.00	50 (34)	60	60	50	55 (34)	
PRAIRIE_AUK_TP149	09/04/2020	2.80	78 (20)	70	54	70	68 (20)	
PRAIRIE_AUK_TP156A	14/04/2020	1.00	106 (40)	102	100	98	102 (40)	
PRAIRIE_AUK_TP156A	14/04/2020	2.00	100 (38)	100	98	96	99 (38)	
PRAIRIE_AUK_TP156	17/04/2020	2.50	96 (41)	92	92	98	95 (41)	
PRAIRIE_AUK_TP159	16/04/2020	2.00						Not suitable for HSV testing - too friable.
PRAIRIE_AUK_TP159	16/04/2020	2.50						Not suitable for HSV testing - too friable.
PRAIRIE_AUK_TP162	14/04/2020	3.50						Not suitable for HSV testing - insufficiently cohesive.
PRAIRIE_AUK_TP163	14/04/2020	2.00	58 (36)	42	62		54 (36)	
PRAIRIE_AUK_TP164	16/04/2020	2.50						Not suitable for HSV testing - too friable.
PRAIRIE_AUK_TP164	16/04/2020	3.00						Not suitable for HSV testing - too friable.
PRAIRIE_AUK_TP164	16/04/2020	3.50						Not suitable for HSV testing - too friable.

Residual results given in brackets.

	Contract Title :-		Client :-		AEG Contract No :-		
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HAND SHEAR VANE TEST RESULTS

Exploratory Hole No.	Date	Depth m	1st Result kPa	2nd Result kPa	3rd Result kPa	4th Result kPa	Average kPa	Remarks
PRAIRIE_AUK_TP166	09/04/2020	2.00	100 (42)	98	90		96 (42)	
PRAIRIE_AUK_TP173	09/04/2020	1.50						Not suitable for HSV testing - too friable.
PRAIRIE_AUK_TP173	09/04/2020	2.50						Not suitable for HSV testing - too friable.
PRAIRIE_AUK_TP175	06/04/2020	1.50	48 (20)	52	46		49 (20)	
PRAIRIE_AUK_TP175	06/04/2020	2.50						Not suitable for HSV testing - too friable.
PRAIRIE_AUK_TP175	06/04/2020	3.50						Not suitable for HSV testing - too friable.
PRAIRIE_AUK_TP176	07/04/2020	1.50	58 (36)	42	62		54 (36)	
PRAIRIE_AUK_TP176	06/04/2020	1.80	48 (26)	56	54		53 (26)	
PRAIRIE_AUK_TP176	06/04/2020	2.80	48 (26)	54	54		52 (26)	
PRAIRIE_AUK_TP176	06/04/2020	3.50						Not suitable for HSV testing - too friable.
PRAIRIE_AUK_TP179	09/04/2020	2.00						Not suitable for HSV testing - too friable.
PRAIRIE_AUK_TP181	09/04/2020	2.00	80 (42)	100	98		93 (42)	

Residual results given in brackets.

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HAND SHEAR VANE TEST RESULTS

Exploratory Hole No.	Date	Depth m	1st Result kPa	2nd Result kPa	3rd Result kPa	4th Result kPa	Average kPa	Remarks
PRAIRIE_AUK_TP182	09/04/2020	1.50						Not suitable for HSV testing - too friable.
PRAIRIE_AUK_TP182	09/04/2020	2.50						Not suitable for HSV testing - too friable.
PRAIRIE_AUK_TP186	07/04/2020	1.50	62 (42)	90	98		83 (42)	
PRAIRIE_AUK_TP186	07/04/2020	2.50	105 (46)	100	105		103 (46)	
PRAIRIE_AUK_TP190A	16/04/2020	1.50	50 (20)	50	52		51 (20)	
PRAIRIE_AUK_TP190A	16/04/2020	2.50	54 (18)	58	50		53 (18)	

Residual results given in brackets.


	Contract Title :-		Client :-		AEG Contract No :-		
	Prairie Site Ground Investigation Works		South Tees Development Corporation		4251		
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Photo-ionisation Detector Test Results



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PHOTO-IONISATION DETECTOR

Exploratory Hole No.	Depth (m)	PID (ppm)	Date Tested	Remarks
PRAIRIE_AUK_BH101	3.00	0.2	27/04/2020	
PRAIRIE_AUK_BH103	2.50	See Remarks	09/04/2020	<0.1ppm
PRAIRIE_AUK_BH104	5.50	0.2	03/04/2020	
PRAIRIE_AUK_BH105	3.00	See Remarks	16/04/2020	<0.1ppm
PRAIRIE_AUK_BH106	5.50	See Remarks	16/04/2020	<0.1ppm
PRAIRIE_AUK_BH107	3.00	0.1	24/04/2020	
PRAIRIE_AUK_BH108	2.50	See Remarks	15/04/2020	<0.1ppm
PRAIRIE_AUK_BH109	0.50	2.9	23/04/2020	
PRAIRIE_AUK_BH109	1.00	12.8	23/04/2020	
PRAIRIE_AUK_BH109	1.70	27.6	23/04/2020	
PRAIRIE_AUK_BH109	2.50	10.8	23/04/2020	
PRAIRIE_AUK_BH109	3.50	26.1	23/04/2020	
PRAIRIE_AUK_BH110	3.00	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP101	1.00	See Remarks	01/04/2020	<0.1ppm
PRAIRIE_AUK_TP101	2.20	See Remarks	01/04/2020	<0.1ppm
PRAIRIE_AUK_TP102	0.50	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP102	1.00	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP102	1.50	0.1	21/04/2020	
PRAIRIE_AUK_TP102	2.00	0.1	21/04/2020	
PRAIRIE_AUK_TP102	2.50	0.2	21/04/2020	
PRAIRIE_AUK_TP102	3.00	0.4	21/04/2020	
PRAIRIE_AUK_TP102	3.50	0.7	21/04/2020	
PRAIRIE_AUK_TP103	0.50	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP103	1.00	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP103	1.50	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP104	1.50	See Remarks	01/04/2020	<0.1ppm
PRAIRIE_AUK_TP105	1.20	See Remarks	01/04/2020	<0.1ppm
PRAIRIE_AUK_TP105	2.50	See Remarks	01/04/2020	<0.1ppm
PRAIRIE_AUK_TP106	0.50	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP106	1.00	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP106	1.50	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP106	2.50	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP106	3.50	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP107	0.80	See Remarks	06/04/2020	<0.1ppm
PRAIRIE_AUK_TP107	1.80	See Remarks	06/04/2020	<0.1ppm
PRAIRIE_AUK_TP107	2.80	See Remarks	06/04/2020	<0.1ppm
PRAIRIE_AUK_TP108	1.00	See Remarks	06/04/2020	<0.1ppm
PRAIRIE_AUK_TP108	2.00	1.7	06/04/2020	
PRAIRIE_AUK_TP108	3.00	0.6	06/04/2020	
PRAIRIE_AUK_TP109	0.50	See Remarks	21/04/2020	<0.1ppm

See attached Calibration Certificate for Model No. and any other details

Contract Title :-

Prairie Site Ground Investigation Works

Client :-

South Tees Development Corporation



Calibration Compliant :-
YES

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AEG Contract No. :-
4251



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PHOTO-IONISATION DETECTOR

Exploratory Hole No.	Depth (m)	PID (ppm)	Date Tested	Remarks
PRAIRIE_AUK_TP109	1.00	0.1	21/04/2020	
PRAIRIE_AUK_TP109	1.50	0.1	21/04/2020	
PRAIRIE_AUK_TP109	2.00	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP109	3.00	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP110	0.50	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP110	1.00	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP110	1.50	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP110	2.50	0.3	21/04/2020	
PRAIRIE_AUK_TP110	3.00	0.2	21/04/2020	
PRAIRIE_AUK_TP110	3.50	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP110	4.00	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP110	4.50	0.1	21/04/2020	
PRAIRIE_AUK_TP111	0.40	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP111	1.00	0.1	22/04/2020	
PRAIRIE_AUK_TP111	1.50	0.2	22/04/2020	
PRAIRIE_AUK_TP111	2.00	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP111	3.00	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP112	0.50	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP112	1.00	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP112	1.50	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP112	2.00	0.5	22/04/2020	
PRAIRIE_AUK_TP112	2.10	0.9	22/04/2020	
PRAIRIE_AUK_TP112	2.70	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP112	3.00	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP113	1.30	See Remarks	06/04/2020	<0.1ppm
PRAIRIE_AUK_TP114	0.50	7.2	07/04/2020	
PRAIRIE_AUK_TP114	0.90	130.0	07/04/2020	
PRAIRIE_AUK_TP115	1.90	See Remarks	08/04/2020	<0.1ppm
PRAIRIE_AUK_TP116	0.50	5.4	23/04/2020	
PRAIRIE_AUK_TP116	1.30	7.1	23/04/2020	
PRAIRIE_AUK_TP116	1.60	8.8	23/04/2020	
PRAIRIE_AUK_TP116	2.00	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP116	3.00	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP117	0.50	9.1	23/04/2020	
PRAIRIE_AUK_TP117	1.20	10.4	23/04/2020	
PRAIRIE_AUK_TP117	2.00	9.6	23/04/2020	
PRAIRIE_AUK_TP117	3.00	11.1	23/04/2020	
PRAIRIE_AUK_TP118	0.50	0.2	23/04/2020	
PRAIRIE_AUK_TP118	1.20	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP118	1.60	See Remarks	23/04/2020	<0.1ppm

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Contract Title :- Prairie Site Ground Investigation Works	Client :- South Tees Development Corporation
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	Calibration Compliant :- YES	Date of Issue :- 30/06/2020	Page No. :- 2 of 6	
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ALLIED EXPLORATION & GEOTECHNICS LIMITED

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PHOTO-IONISATION DETECTOR

Exploratory Hole No.	Depth (m)	PID (ppm)	Date Tested	Remarks
PRAIRIE_AUK_TP118	2.20	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP119	0.50	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP119	1.00	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP119	1.50	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP119	2.00	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP119	2.50	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP120	0.50	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP120	1.00	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP120	1.50	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP120A	0.50	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP120A	1.00	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP120A	1.50	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP120A	2.50	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP121	1.50	See Remarks	09/04/2020	<0.1ppm
PRAIRIE_AUK_TP122	1.00	See Remarks	08/04/2020	<0.1ppm
PRAIRIE_AUK_TP123	0.60	See Remarks	08/04/2020	<0.1ppm
PRAIRIE_AUK_TP124	1.50	See Remarks	08/04/2020	<0.1ppm
PRAIRIE_AUK_TP124	2.50	See Remarks	08/04/2020	<0.1ppm
PRAIRIE_AUK_TP126	2.60	0.2	17/04/2020	
PRAIRIE_AUK_TP127	0.30	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP127	1.40	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP127A	2.80	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP128	0.90	0.9	17/04/2020	
PRAIRIE_AUK_TP129	2.10	See Remarks	17/04/2020	<0.1ppm
PRAIRIE_AUK_TP130	1.00	1.0	17/04/2020	
PRAIRIE_AUK_TP131	1.80	See Remarks	02/04/2020	<0.1ppm
PRAIRIE_AUK_TP132	1.30	See Remarks	02/04/2020	<0.1ppm
PRAIRIE_AUK_TP133	0.20	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP133	0.50	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP133	0.90	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP133	1.50	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP134	0.50	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP134	1.00	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP134	1.50	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP134	2.00	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP134	2.50	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP135	1.30	See Remarks	15/04/2020	<0.1ppm
PRAIRIE_AUK_TP136	0.80	See Remarks	15/04/2020	<0.1ppm
PRAIRIE_AUK_TP136	2.90	See Remarks	15/04/2020	<0.1ppm
PRAIRIE_AUK_TP137	1.30	See Remarks	15/04/2020	<0.1ppm

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Contract Title :- Prairie Site Ground Investigation Works	Client :- South Tees Development Corporation
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PHOTO-IONISATION DETECTOR

Exploratory Hole No.	Depth (m)	PID (ppm)	Date Tested	Remarks
PRAIRIE_AUK_TP138	1.20	See Remarks	09/04/2020	<0.1 ppm
PRAIRIE_AUK_TP139	1.10	See Remarks	16/04/2020	<0.1 ppm
PRAIRIE_AUK_TP139B	0.30	See Remarks	16/04/2020	<0.1 ppm
PRAIRIE_AUK_TP139B	3.30	See Remarks	16/04/2020	<0.1 ppm
PRAIRIE_AUK_TP140	0.50	0.8	23/04/2020	
PRAIRIE_AUK_TP140	1.00	See Remarks	23/04/2020	<0.1 ppm
PRAIRIE_AUK_TP140	1.50	See Remarks	23/04/2020	<0.1 ppm
PRAIRIE_AUK_TP141	0.50	0.8	23/04/2020	
PRAIRIE_AUK_TP141	1.00	0.6	23/04/2020	
PRAIRIE_AUK_TP141	2.00	1.6	23/04/2020	
PRAIRIE_AUK_TP142	0.50	0.8	23/04/2020	
PRAIRIE_AUK_TP142	1.00	3.9	23/04/2020	
PRAIRIE_AUK_TP142	1.50	3.0	23/04/2020	
PRAIRIE_AUK_TP143	0.50	See Remarks	23/04/2020	<0.1 ppm
PRAIRIE_AUK_TP143	1.00	See Remarks	23/04/2020	<0.1 ppm
PRAIRIE_AUK_TP144	0.50	0.8	24/04/2020	
PRAIRIE_AUK_TP144	1.00	1.5	24/04/2020	
PRAIRIE_AUK_TP145	1.60	0.2	14/04/2020	
PRAIRIE_AUK_TP146C	1.30	0.2	14/04/2020	
PRAIRIE_AUK_TP146C	2.50	See Remarks	14/04/2020	<0.1 ppm
PRAIRIE_AUK_TP147	1.50	See Remarks	17/04/2020	<0.1 ppm
PRAIRIE_AUK_TP148A	1.40	See Remarks	16/04/2020	<0.1 ppm
PRAIRIE_AUK_TP149	1.30	See Remarks	09/04/2020	<0.1 ppm
PRAIRIE_AUK_TP150	0.70	See Remarks	16/04/2020	<0.1 ppm
PRAIRIE_AUK_TP151	0.50	1.1	23/04/2020	
PRAIRIE_AUK_TP151	1.00	0.8	23/04/2020	
PRAIRIE_AUK_TP151	1.50	0.9	23/04/2020	
PRAIRIE_AUK_TP151	2.00	See Remarks	23/04/2020	<0.1 ppm
PRAIRIE_AUK_TP151	2.50	See Remarks	23/04/2020	<0.1 ppm
PRAIRIE_AUK_TP151	3.00	See Remarks	23/04/2020	<0.1 ppm
PRAIRIE_AUK_TP152	0.50	0.3	22/04/2020	
PRAIRIE_AUK_TP152	1.00	1.6	22/04/2020	
PRAIRIE_AUK_TP152	1.50	0.8	22/04/2020	
PRAIRIE_AUK_TP153	0.50	1.8	22/04/2020	
PRAIRIE_AUK_TP153	1.00	0.5	22/04/2020	
PRAIRIE_AUK_TP153	1.50	See Remarks	22/04/2020	<0.1 ppm
PRAIRIE_AUK_TP153	2.00	See Remarks	22/04/2020	<0.1 ppm
PRAIRIE_AUK_TP154	0.50	1.1	21/04/2020	
PRAIRIE_AUK_TP154	1.00	0.2	21/04/2020	
PRAIRIE_AUK_TP154	1.50	See Remarks	21/04/2020	<0.1 ppm

See attached Calibration Certificate for Model No. and any other details

Contract Title :- Prairie Site Ground Investigation Works	Client :- South Tees Development Corporation
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	Calibration Compliant :- YES	Date of Issue :- 30/06/2020	Page No. :- 4 of 6	
	Checked By :-	Approved By :-	AEG Contract No. :- 4251	

ALLIED EXPLORATION & GEOTECHNICS LIMITED

Head Office:
Regional Office:

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

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

PHOTO-IONISATION DETECTOR

Exploratory Hole No.	Depth (m)	PID (ppm)	Date Tested	Remarks
PRAIRIE_AUK_TP155	0.40	1.8	21/04/2020	
PRAIRIE_AUK_TP155	1.00	0.1	21/04/2020	
PRAIRIE_AUK_TP155	1.50	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP156A	0.30	See Remarks	14/04/2020	<0.1ppm
PRAIRIE_AUK_TP157	0.80	See Remarks	17/04/2020	<0.1ppm
PRAIRIE_AUK_TP158	1.30	See Remarks	17/04/2020	<0.1ppm
PRAIRIE_AUK_TP159	0.60	See Remarks	16/04/2020	<0.1ppm
PRAIRIE_AUK_TP160	1.00	0.7	21/04/2020	
PRAIRIE_AUK_TP160	1.50	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP161	0.80	0.8	20/04/2020	
PRAIRIE_AUK_TP161	2.00	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP162	1.70	See Remarks	14/04/2020	<0.1ppm
PRAIRIE_AUK_TP163	1.20	4.5	14/04/2020	
PRAIRIE_AUK_TP163	1.90	2.1	14/04/2020	
PRAIRIE_AUK_TP164	0.70	See Remarks	16/04/2020	<0.1ppm
PRAIRIE_AUK_TP164	1.30	See Remarks	16/04/2020	<0.1ppm
PRAIRIE_AUK_TP165	1.00	See Remarks	15/04/2020	<0.1ppm
PRAIRIE_AUK_TP165	3.30	See Remarks	15/04/2020	<0.1ppm
PRAIRIE_AUK_TP166	0.50	0.2	20/04/2020	
PRAIRIE_AUK_TP166	1.00	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP167	2.50	See Remarks	15/04/2020	<0.1ppm
PRAIRIE_AUK_TP168	0.05	See Remarks	09/04/2020	<0.1ppm
PRAIRIE_AUK_TP169	1.50	See Remarks	15/04/2020	<0.1ppm
PRAIRIE_AUK_TP170	0.50	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP170	1.00	17.5	21/04/2020	
PRAIRIE_AUK_TP170	1.50	1.1	21/04/2020	
PRAIRIE_AUK_TP171	0.50	1.4	20/04/2020	
PRAIRIE_AUK_TP171	1.00	1.3	20/04/2020	
PRAIRIE_AUK_TP171	1.50	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP172	0.80	See Remarks	06/04/2020	<0.1ppm
PRAIRIE_AUK_TP173	0.90	See Remarks	09/04/2020	<0.1ppm
PRAIRIE_AUK_TP174	0.80	See Remarks	08/04/2020	<0.1ppm
PRAIRIE_AUK_TP174	1.60	See Remarks	08/04/2020	<0.1ppm
PRAIRIE_AUK_TP175	0.80	101.1	06/04/2020	
PRAIRIE_AUK_TP175	1.80	5.3	06/04/2020	
PRAIRIE_AUK_TP176	0.90	1.1	07/04/2020	
PRAIRIE_AUK_TP177	0.60	1.1	07/04/2020	
PRAIRIE_AUK_TP177	1.90	See Remarks	07/04/2020	<0.1ppm
PRAIRIE_AUK_TP178	0.80	See Remarks	06/04/2020	<0.1ppm
PRAIRIE_AUK_TP179	1.40	3.8	09/04/2020	

See attached Calibration Certificate for Model No. and any other details

Contract Title :-

Prairie Site Ground Investigation Works

Client :-

South Tees Development Corporation



Calibration Compliant :-
YES

Date of Issue :-
30/06/2020

Page No. :-
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Checked By :-

Approved By :-

AEG Contract No. :-
4251



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PHOTO-IONISATION DETECTOR

Exploratory Hole No.	Depth (m)	PID (ppm)	Date Tested	Remarks
PRAIRIE_AUK_TP179	2.00	2.1	09/04/2020	
PRAIRIE_AUK_TP180	0.30	See Remarks	14/04/2020	<0.1ppm
PRAIRIE_AUK_TP181	0.60	See Remarks	09/04/2020	<0.1ppm
PRAIRIE_AUK_TP181	2.50	See Remarks	09/04/2020	<0.1ppm
PRAIRIE_AUK_TP182	0.90	6.2	09/04/2020	
PRAIRIE_AUK_TP182	2.00	0.5	09/04/2020	
PRAIRIE_AUK_TP184	0.30	See Remarks	16/04/2020	<0.1ppm
PRAIRIE_AUK_TP185	4.30	See Remarks	08/04/2020	<0.1ppm
PRAIRIE_AUK_TP186	0.50	5.1	07/04/2020	
PRAIRIE_AUK_TP187	0.50	1.3	20/04/2020	
PRAIRIE_AUK_TP187	1.00	0.2	20/04/2020	
PRAIRIE_AUK_TP188	1.00	1.2	08/04/2020	
PRAIRIE_AUK_TP189	1.60	See Remarks	07/04/2020	<0.1ppm
PRAIRIE_AUK_TP189	3.00	See Remarks	07/04/2020	<0.1ppm
PRAIRIE_AUK_TP190A	1.10	See Remarks	16/04/2020	<0.1ppm

See attached Calibration Certificate for Model No. and any other details

Contract Title :- <p style="text-align: center;">Prairie Site Ground Investigation Works</p>	Client :- <p style="text-align: center;">South Tees Development Corporation</p>
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	Calibration Compliant :- YES	Date of Issue :- 30/06/2020	Page No. :- 6 of 6	
	Checked By :-	Approved By :-	AEG Contract No. :- 4251	



...everything gas detection

Certificate of Calibration

Customer: Allied Exploration & Geotechnics Ltd

Instrument: MiniRAE 2000

Job: Service, Test & Calibration

Serial number: 110-900192

Fleet Number: N/A

Certificate no: 900192 / 100519

Next calibration due date: 10 May 2020

Tested on: 10 May 2019

Calibrated for: Isobutylene

<u>Applied Gas Concentration:</u>	<u>Cylinder Reference:</u>	<u>Initial Sensor Reading</u>	<u>Final Sensor Reading</u>	<u>Accuracy Limits</u>
Isobutylene: 100 ppm	AGG2641-3-10	95.0 ppm	100.0 ppm	± 2%

The Instrument has been calibrated after Re-Zeroing & Introducing Span Calibration Gas, using gas that is traceable to national standards and has been prepared in accordance with BS EN ISO6145-6:2008

Calibration Engineer: P Lonsdale

Sign: _____



Quality Assessed by (Print):	<u>R.L. BAINBRIDGE</u>	Sign:	<u>[Signature]</u>
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In-situ Water Quality Parameter Test Results





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IN-SITU WATER QUALITY PARAMETER MONITORING RESULTS							
Date of Test:		05/05/2020		Operator:		D. Portsmouth	
Weather Condition (inc temperature) :				Cool & Dry			
Monitoring Point	Time (hrs)	pH	Temp (°C)	Electrical Conductivity (Actual) (µs)	Redox Potential (mv)	Dissolved Oxygen (%)	Total Dissolved Solids (ppm)
PRAIRIE_AUK_BH104	15:30:00	8.10	15.10	811.29	309.30	49.79	0.65
	15:35:00	8.10	15.84	824.59	317.10	49.66	0.65
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
PRAIRIE_AUK_BH107	14:15:00	7.55	14.99	1989.10	294.80	77.94	1.60
	14:20:00	7.55	15.47	2039.40	282.30	77.48	1.62
	14:25:00	7.55	16.68	2096.30	283.70	78.03	1.62
	14:30:00	7.55	17.74	2143.70	284.70	78.44	1.62
PRAIRIE_AUK_BH109	12:00:00	8.78	14.49	548.17	189.80	27.56	0.44
	12:35:00	8.77	14.60	520.31	204.30	16.03	0.42
	12:40:00	8.77	14.23	540.24	108.20	19.16	0.44
	12:45:00	8.75	15.08	559.75	221.60	28.07	0.45
	12:50:00	8.73	15.45	562.00	231.60	30.30	0.45
	12:55:00	8.73	15.53	561.84	230.40	28.78	0.45
	13:00:00	8.72	15.66	559.15	226.70	22.54	0.44
Remarks :	BH104 & BH107 - unable to sample via pump due to lack of head. Agreed with Arcadis to sample using a bailer.						
Contract Title:				Client:			
Prairie Site Ground Investigation Works				South Tees Development Corporation			
	Checked By:			Approved By:			
	Date Issued:		Page No. :	AEG Contract No. :			
14/05/2020		1 of 1	4251				

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IN-SITU WATER QUALITY PARAMETER MONITORING RESULTS							
Date of Test: 06/05/2020		Operator: D. Portsmouth					
Weather Condition (inc temperature) :				Cool/Warm & Dry			
Monitoring Point	Time (hrs)	pH	Temp (°C)	Electrical Conductivity (Actual) (µs)	Redox Potential (mv)	Dissolved Oxygen (%)	Total Dissolved Solids (ppm)
PRAIRIE_AUK_BH101 (Shallow)	10:10:00	8.52	11.50	1849.80	279.10	46.97	1.62
	10:15:00	8.52	11.62	1854.30	276.40	43.39	1.62
	10:20:00	8.52	11.90	1863.30	280.80	46.55	1.62
	-	-	-	-	-	-	-
PRAIRIE_AUK_BH101 (Deep)	09:40:00	8.31	11.29	1790.40	238.40	47.43	1.57
	09:45:00	8.47	11.20	1795.10	227.30	46.79	1.58
	09:50:00	8.50	11.23	1799.70	233.70	46.34	1.59
	09:55:00	8.51	11.27	1802.10	242.40	46.59	1.59
PRAIRIE_AUK_BH106	08:35:00	9.54	11.22	641.13	124.20	32.09	0.56
	08:40:00	9.53	11.26	644.92	132.80	33.40	0.57
	08:45:00	9.52	11.47	648.52	139.40	34.61	0.57
	08:50:00	9.52	11.66	651.63	145.90	35.53	0.57
PRAIRIE_AUK_BH108 (Shallow)	13:05:00	7.53	11.51	1776.50	345.50	43.80	1.56
	13:10:00	7.56	11.48	1775.70	354.40	44.69	1.56
	13:15:00	7.57	11.48	1775.00	356.70	44.87	1.56
	-	-	-	-	-	-	-
PRAIRIE_AUK_BH108 (Deep)	13:05:00	7.53	11.51	1769.60	345.50	43.80	1.56
	13:10:00	7.56	11.48	1767.70	354.40	44.69	1.56
	13:15:00	7.57	11.48	1766.50	356.70	44.87	1.56
	-	-	-	-	-	-	-
PRAIRIE_AUK_BH110	11:10:00	8.08	11.61	2078.80	333.90	42.01	1.82
	11:15:00	8.12	11.47	2074.70	331.00	43.21	1.82
	11:20:00	8.13	11.43	2075.40	332.10	43.90	1.82
	11:25:00	8.14	11.40	2074.40	337.30	44.55	1.82
Remarks :	n/a						
Contract Title: Prairie Site Ground Investigation Works				Client: South Tees Development Corporation			
	Checked By:			Approved By:			
	Date Issued: 14/05/2020		Page No. : 1 of 1	AEG Contract No. : 4251			

ALLIED EXPLORATION GEOTECHNICS LIMITED

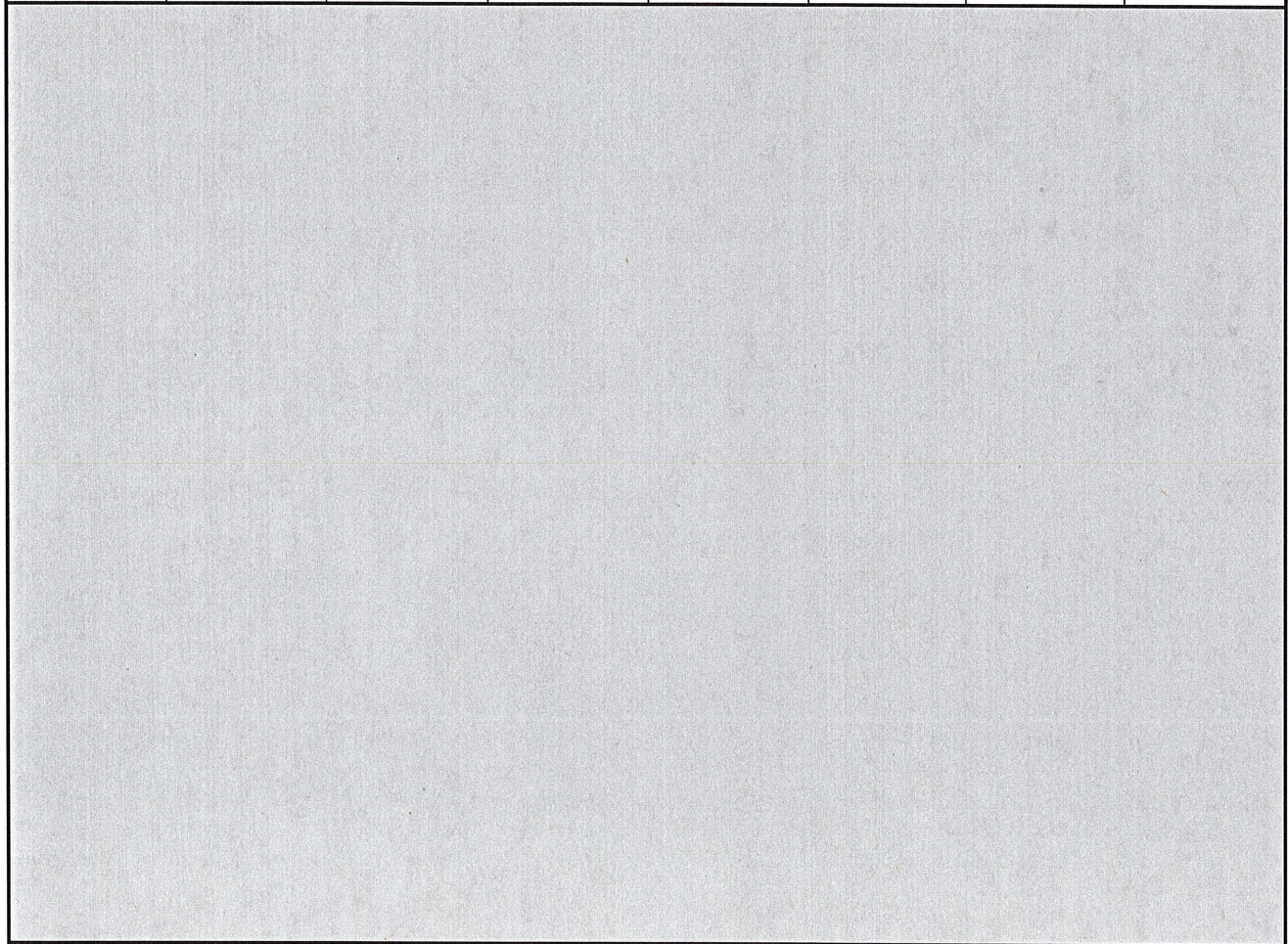
Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG - Tel: 0191 387 4700 Fax: 0191 387 4710
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IN-SITU WATER QUALITY PARAMETER MONITORING RESULTS

Date of Test: 16/06/2020	Operator: A. Masterman
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Weather Condition (inc temperature) : Slightly overcast (15-18°C)

Monitoring Point	Time (hrs)	pH	Temp (°C)	Electrical Conductivity (Actual) (µs)	Redox Potential (mv)	Dissolved Oxygen (%)	Total Dissolved Solids (ppm)
PRAIRIE_AUK_BH103	15:00:00	8.71	18.35	457.46	109.2	76.88	0.34
	15:03:00	9.12	14.46	428.58	118.7	32.15	0.34
	15:06:00	9.35	13.40	399.67	289.8	23.49	0.32
	15:09:00	9.67	13.60	333.61	115.0	21.43	0.28
	15:12:00	9.68	13.57	319.10	268.4	20.89	0.26
	15:15:00	9.69	13.28	314.98	295.5	19.20	0.26





Remarks :

Contract Title: Prairie Site Ground Investigation Works	Client: South Tees Development Corporation
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	Checked By:	Approved By:	
	Date Issued: 23/06/2020	Page No. : 1 of 4	

ALLIED EXPLORATION GEOTECHNICS LIMITED

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IN-SITU WATER QUALITY PARAMETER MONITORING RESULTS							
Date of Test:		17/06/2020		Operator:		A. Masterman	
Weather Condition (inc temperature) :				Overcast (15-18°C)			
Monitoring Point	Time (hrs)	pH	Temp (°C)	Electrical Conductivity (Actual) (µs)	Redox Potential (mv)	Dissolved Oxygen (%)	Total Dissolved Solids (ppm)
PRAIRIE_AUK_BH101 (Deep)	09:36:00	8.58	13.54	1563.90	145.4	34.98	1.30
	09:39:00	8.65	13.40	1573.00	225.2	29.66	1.31
	09:42:00	8.69	13.50	1578.00	240.7	27.94	1.31
	09:45:00	8.70	13.62	1582.00	231.3	25.91	1.31
PRAIRIE_AUK_BH101 (Shallow)	10:38:00	8.48	13.13	1467.00	128.2	32.53	1.24
	10:41:00	8.84	12.92	1466.00	252.6	27.90	1.24
	10:44:00	8.84	12.88	1467.00	285.4	26.02	1.24
	10:47:00	8.85	12.90	1470.00	282.7	24.45	1.24
PRAIRIE_AUK_BH104	12:57:00	8.05	13.36	1222.80	276.0	16.64	1.02
	13:00:00	8.07	13.22	1223.30	316.3	14.79	1.03
	13:03:00	8.07	13.28	1233.60	317.5	14.21	1.03
	13:06:00	8.07	13.54	1239.60	306.7	14.34	1.03
PRAIRIE_AUK_BH105	11:14:00	8.24	13.58	1104.90	361.00	43.11	0.92
	11:17:00	8.27	13.86	1109.30	370.40	42.08	0.92
	11:20:00	8.29	14.06	1113.90	373.40	41.44	0.91
	11:23:00	8.29	14.22	1117.80	372.80	41.15	0.91
PRAIRIE_AUK_BH106	13:47:00	9.20	15.77	1035.40	303.6	30.24	0.82
	13:50:00	9.20	15.94	1040.20	331.2	22.53	0.82
	13:53:00	9.21	16.12	1044.60	341.5	20.67	0.82
PRAIRIE_AUK_BH108 (Deep)	10:00:00	7.42	14.38	2306.60	330.8	64.44	1.88
	10:03:00	7.55	14.54	2309.00	347.9	60.04	1.88
	10:06:00	7.59	14.67	2316.50	355.6	57.82	1.88
	10:09:00	7.61	14.76	2321.30	358.0	56.77	1.88
Remarks :							
Contract Title:				Client:			
Prairie Site Ground Investigation Works				South Tees Development Corporation			
	Checked By:			Approved By:			
	Date Issued:	Page No. :	AEG Contract No. :				
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ALLIED EXPLORATION GEOTECHNICS LIMITED

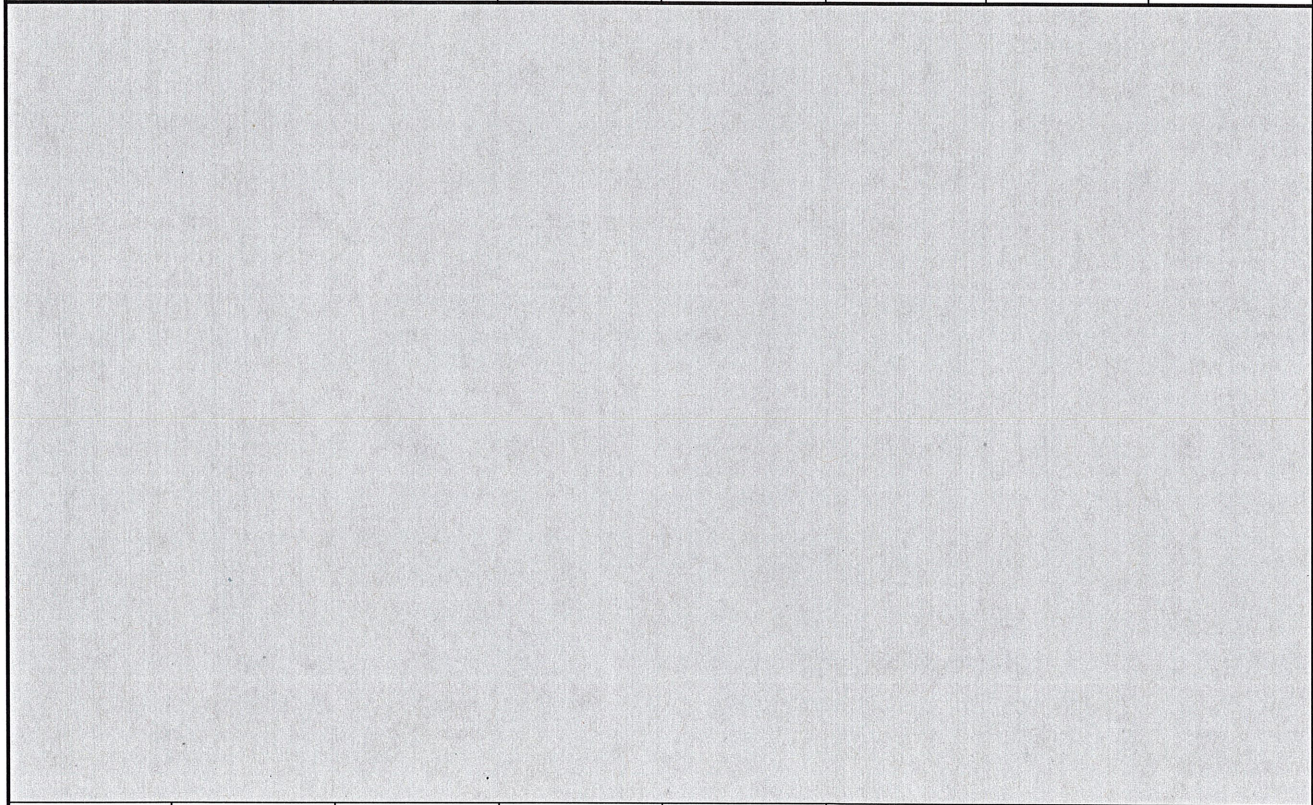
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IN-SITU WATER QUALITY PARAMETER MONITORING RESULTS

Date of Test: 18/06/2020 Operator: A. Masterman

Weather Condition (inc temperature) :

Monitoring Point	Time (hrs)	pH	Temp (°C)	Electrical Conductivity (Actual) (µs)	Redox Potential (mv)	Dissolved Oxygen (%)	Total Dissolved Solids (ppm)
PRAIRIE_AUK_BH108 (Shallow)	08:45:00	7.74	13.87	1704.00	278.00	38.43	1.41
	08:48:00	7.97	13.74	1710.00	314.20	35.71	1.42
	08:51:00	8.02	13.72	1711.90	307.70	33.61	1.42
	08:54:00	8.05	13.76	1713.70	306.30	34.54	1.42
PRAIRIE_AUK_BH110	11:21:00	8.12	14.22	2931.00	246.30	42.36	2.41
	11:24:00	8.11	13.23	2920.00	292.20	41.66	2.45
	11:27:00	8.11	12.99	2915.00	308.20	40.96	2.46



Remarks :

Contract Title: **Prairie Site Ground Investigation Works**

Client: **South Tees Development Corporation**



Checked By:

Approved By:

Date Issued:

23/06/2020

Page No. :

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AEG Contract No. :

4251



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IN-SITU WATER QUALITY PARAMETER MONITORING RESULTS							
Date of Test: 18/06/2020		Operator: A. Masterman					
Weather Condition (inc temperature) :				Cloudy (13-14°C)			
Monitoring Point	Time (hrs)	pH	Temp (°C)	Electrical Conductivity (Actual) (µs)	Redox Potential (mv)	Dissolved Oxygen (%)	Total Dissolved Solids (ppm)
PRAIRIE_AUK_BH102	12:36:00	12.89	12.49	4372.20	-103.90	37.05	3.74
	12:39:00	12.94	12.72	4391.40	-101.20	32.12	3.73
	12:42:00	12.98	12.99	4416.70	-100.00	30.57	3.72
	12:45:00	13.00	13.15	4431.30	-102.60	30.46	3.72
PRAIRIE_AUK_BH107	14:16:00	7.50	11.80	1703.90	280.20	7.95	1.48
	14:19:00	7.40	11.61	1681.40	322.10	7.71	1.47
	14:22:00	7.36	11.52	1667.10	349.10	7.40	1.46
	14:25:00	7.34	11.42	1664.20	360.20	7.36	1.46
PRAIRIE_AUK_BH109	15:33:00	7.17	11.50	3392.80	340.40	35.08	2.99
	15:36:00	7.33	11.89	3727.00	371.70	59.40	3.25
	15:39:00	7.41	11.75	4058.00	380.20	75.67	2.47
	15:42:00	7.78	12.32	3237.90	390.10	88.64	3.38
	15:45:00	7.90	12.72	3948.80	364.20	89.69	2.74
Remarks :							
Contract Title: Prairie Site Ground Investigation Works				Client: South Tees Development Corporation			
	Checked By:			Approved By:			
	Date Issued: 23/06/2020		Page No. : 4 of 4	AEG Contract No. : 4251			

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IN-SITU WATER QUALITY PARAMETER MONITORING RESULTS

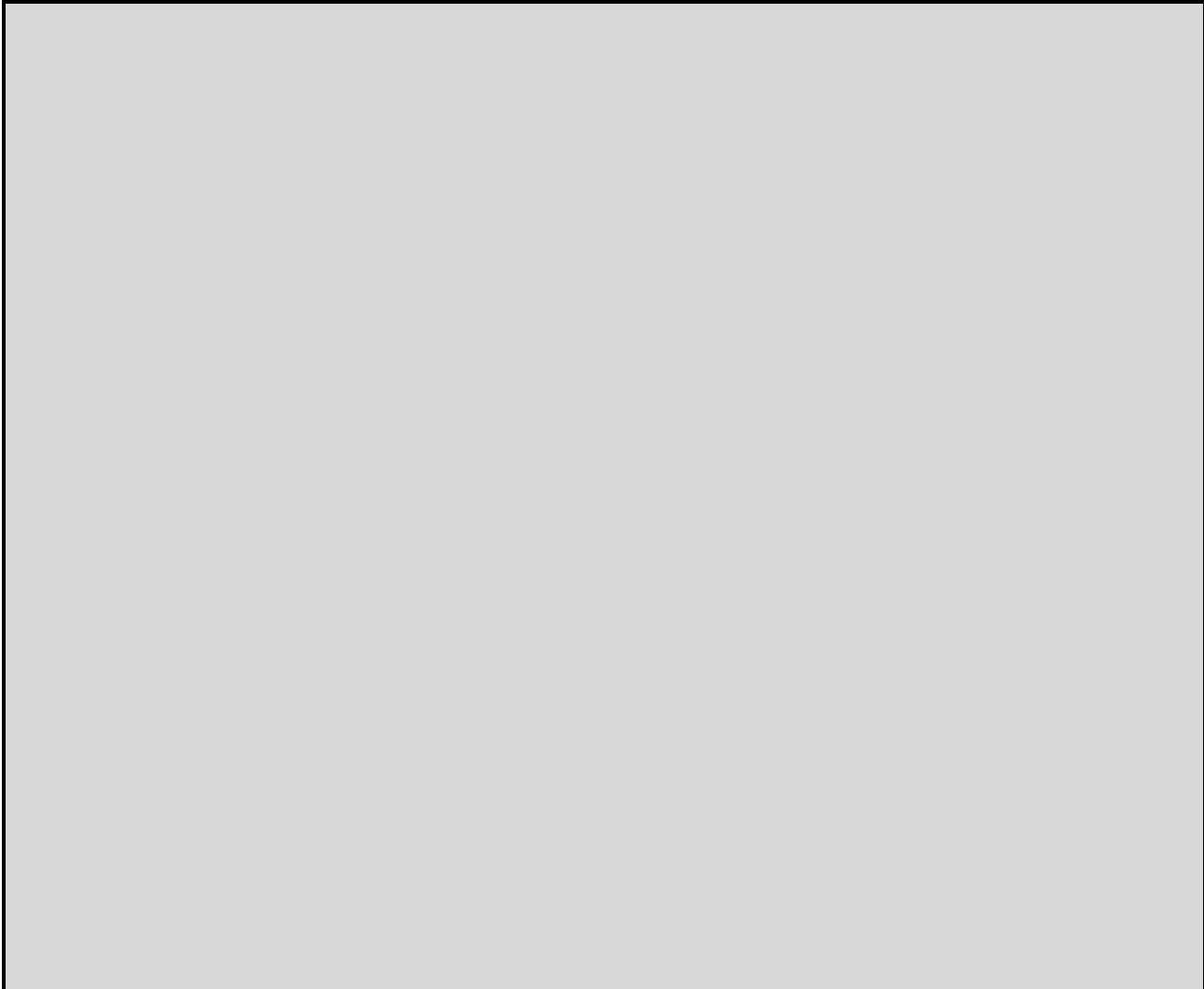
Date of Test: 30/06/2020

Operator: A. Masterman

Weather Condition (inc temperature) :

Overcast (17°C)

Monitoring Point	Time (hrs)	pH	Temp (°C)	Electrical Conductivity (Actual) (µs)	Redox Potential (mv)	Dissolved Oxygen (%)	Total Dissolved Solids (ppm)
PRAIRIE_AUK_BH104	15:34:00	7.69	13.20	1229.00	50.10	7.74	1.01
	15:37:00	7.62	13.26	1120.00	52.60	7.46	0.93
	15:40:00	7.62	13.57	1124.00	53.90	9.52	0.95
	-	-	-	-	-	-	-



Remarks :

PRAIRIE_AUK_BH104 & PRAIRIE_AUK_BH107 - unable to sample using pump due to lack of head. Agreed with Arcadis to sample using a bailer.

Contract Title:

Prairie Site Ground Investigation Works

Client:

South Tees Development Corporation



Checked By:

Approved By:

Date Issued:

16/07/2020

Page No. :

1 of 1



AEG Contract No. :

4251



ALLIED EXPLORATION GEOTECHNICS LIMITED

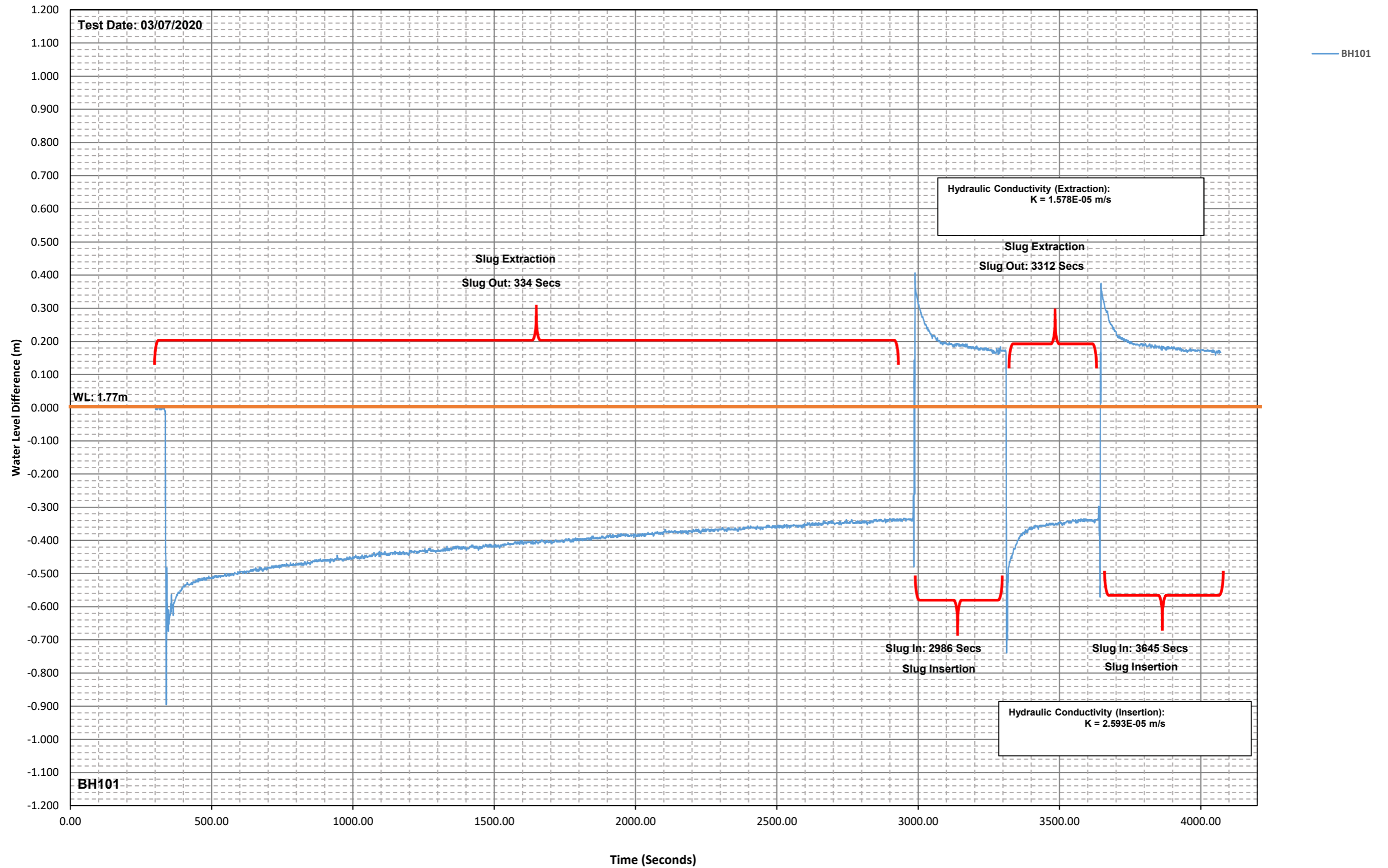
Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG - Tel: 0191 387 4700 Fax: 0191 387 4710
Regional Office: Unit 20, Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL - Tel: 01772 735 300 Fax: 01772 735 999

IN-SITU WATER QUALITY PARAMETER MONITORING RESULTS							
Date of Test:		01/07/2020		Operator:		A. Masterman	
Weather Condition (inc temperature) :				Overcast (16°C)			
Monitoring Point	Time (hrs)	pH	Temp (°C)	Electrical Conductivity (Actual) (µs)	Redox Potential (mv)	Dissolved Oxygen (%)	Total Dissolved Solids (ppm)
PRAIRIE_AUK_BH101 (Deep)	09:21:00	9.58	13.30	2352.00	-305.90	7.85	1.94
	09:24:00	8.80	12.02	1372.00	-296.30	1.64	1.24
	09:27:00	8.66	11.85	1842.00	-294.00	1.24	1.60
	09:30:00	8.64	11.91	1834.00	-292.60	1.10	1.59
PRAIRIE_AUK_BH101 (Shallow)	09:35:00	9.60	12.32	1439.00	-306.00	2.24	1.27
	09:38:00	9.12	12.39	1583.00	-290.00	1.53	1.36
	09:41:00	9.04	12.19	1617.00	-286.00	1.53	1.39
	09:44:00	8.97	12.15	1647.00	-282.00	1.76	1.42
PRAIRIE_AUK_BH102	08:44:00	12.79	13.02	4476.00	-419.30	1.62	3.78
	08:47:00	12.86	12.88	4509.00	-423.30	1.30	3.84
	08:50:00	12.94	12.57	4622.00	-421.00	1.00	3.95
	-	-	-	-	-	-	-
PRAIRIE_AUK_BH103	11:39:00	9.38	12.05	935.30	-212.00	2.13	0.80
	11:42:00	9.39	12.06	840.63	-203.00	1.64	0.72
	11:45:00	9.40	12.14	830.17	-200.00	1.52	0.71
	11:48:00	9.39	12.10	813.60	-199.10	1.29	0.70
PRAIRIE_AUK_BH106	15:31:00	8.98	12.22	886.70	-164.50	2.73	0.75
	15:34:00	9.35	12.08	1274.00	-229.00	2.22	1.10
	15:37:00	9.41	12.00	1272.00	-242.90	1.69	1.10
	15:40:00	9.43	11.98	1272.60	-250.20	1.62	1.10
PRAIRIE_AUK_BH110	10:29:00	7.62	12.70	4057.00	86.80	11.19	3.45
	10:32:00	7.60	12.51	4045.00	129.50	9.43	3.45
	10:35:00	7.60	12.47	4045.00	169.00	8.49	3.45
	10:38:00	7.60	12.35	4026.00	190.90	7.72	3.46
	10:42:00	7.59	12.29	4022.00	205.20	7.31	3.46
Remarks :	n/a						
Contract Title:				Client:			
Prairie Site Ground Investigation Works				South Tees Development Corporation			
	Checked By:			Approved By:			
	Date Issued:		Page No. :	AEG Contract No. :			
16/07/2020		1 of 1	4251				

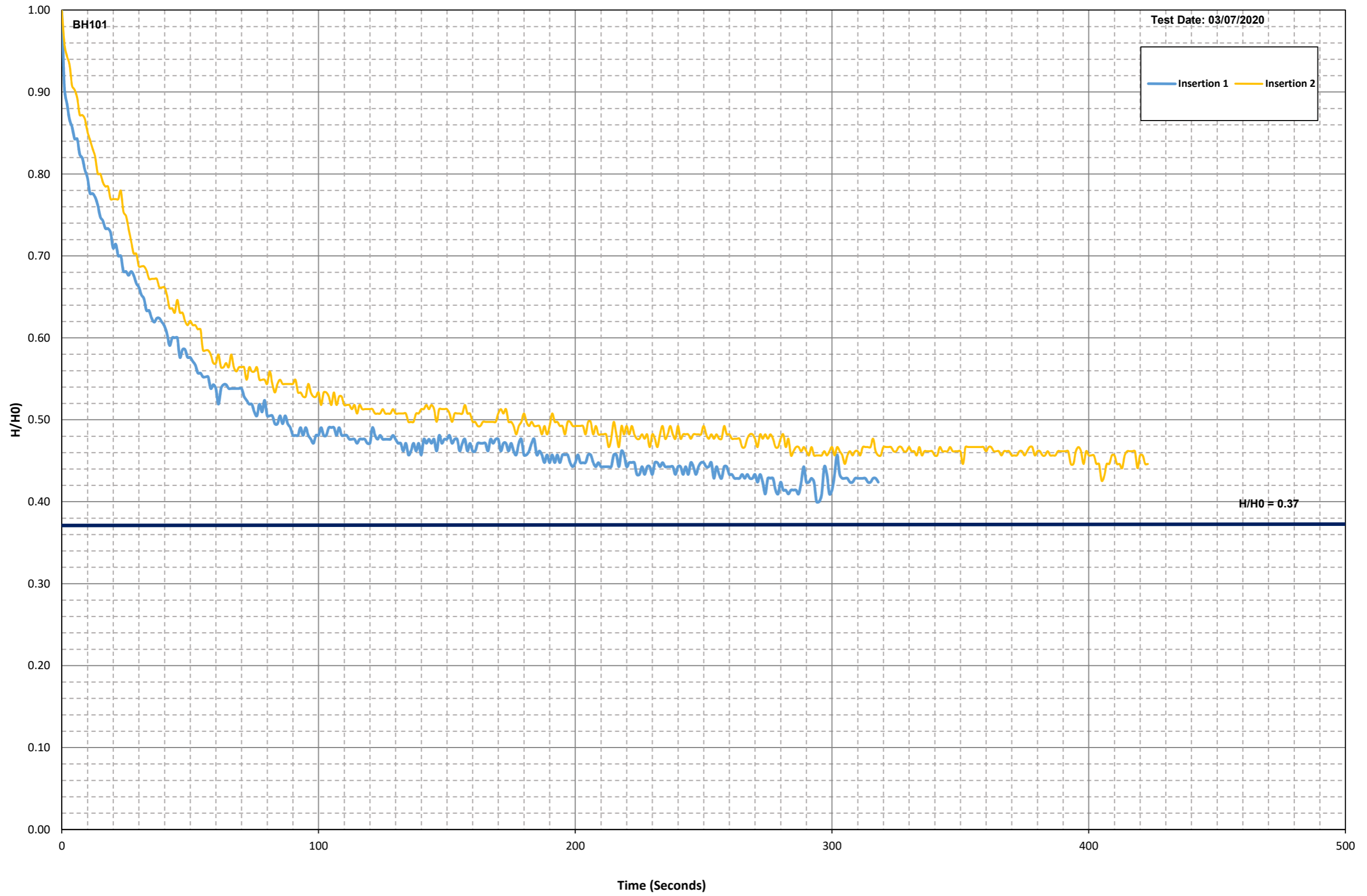
Hydraulic Conductivity: Slug Test Results



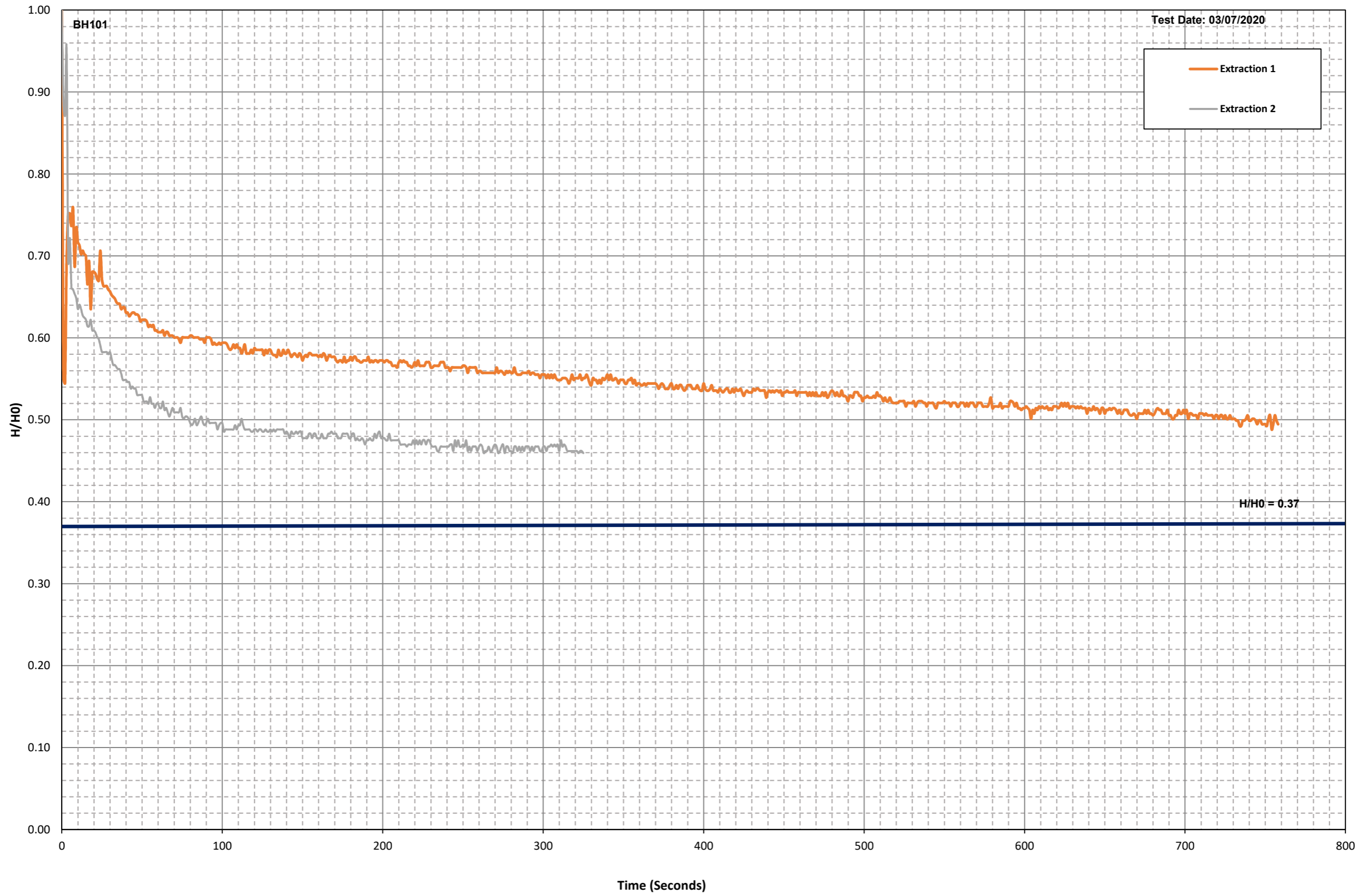
Hydraulic Conductivity: Slug Test



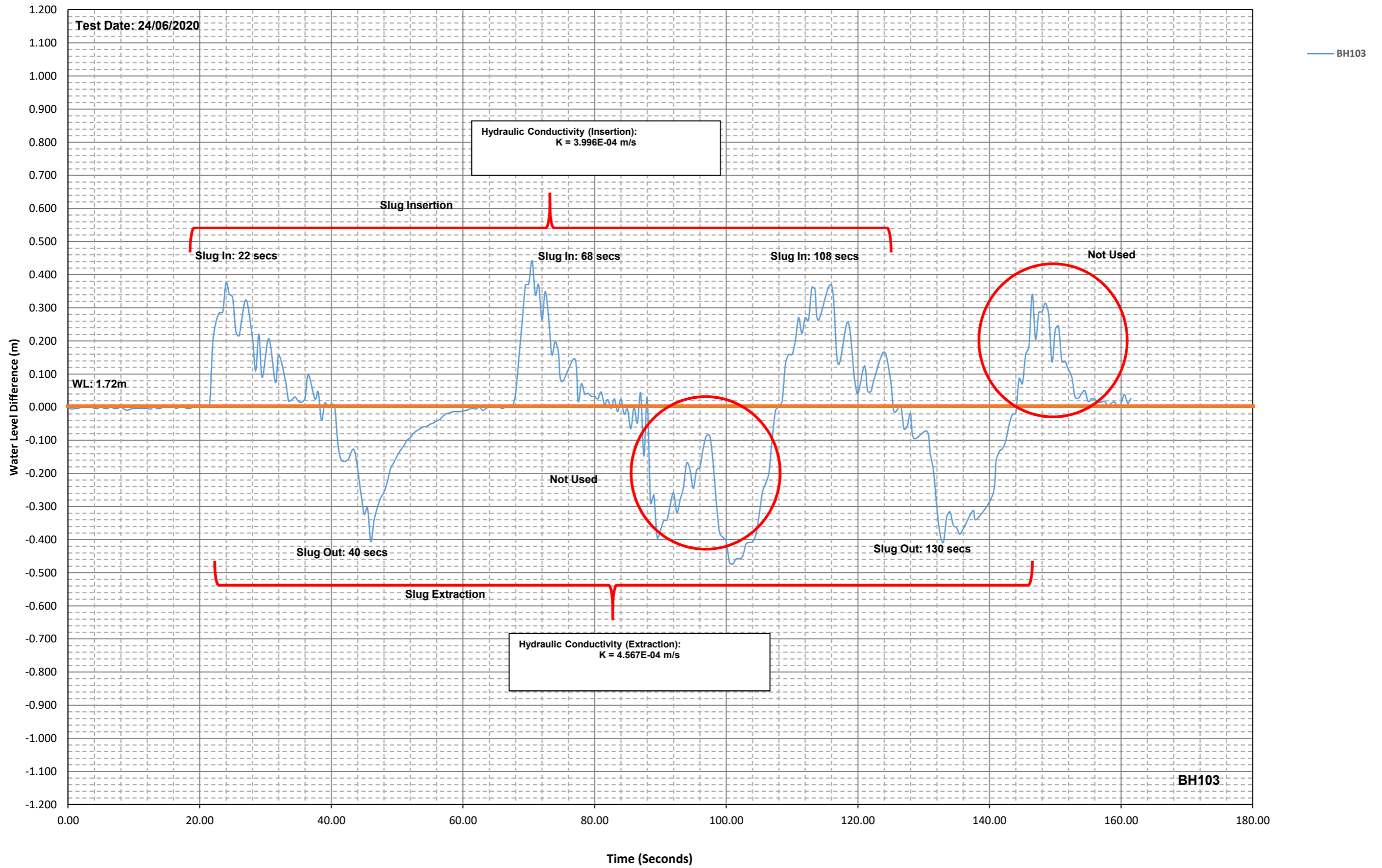
Hydraulic Conductivity Insertion Data

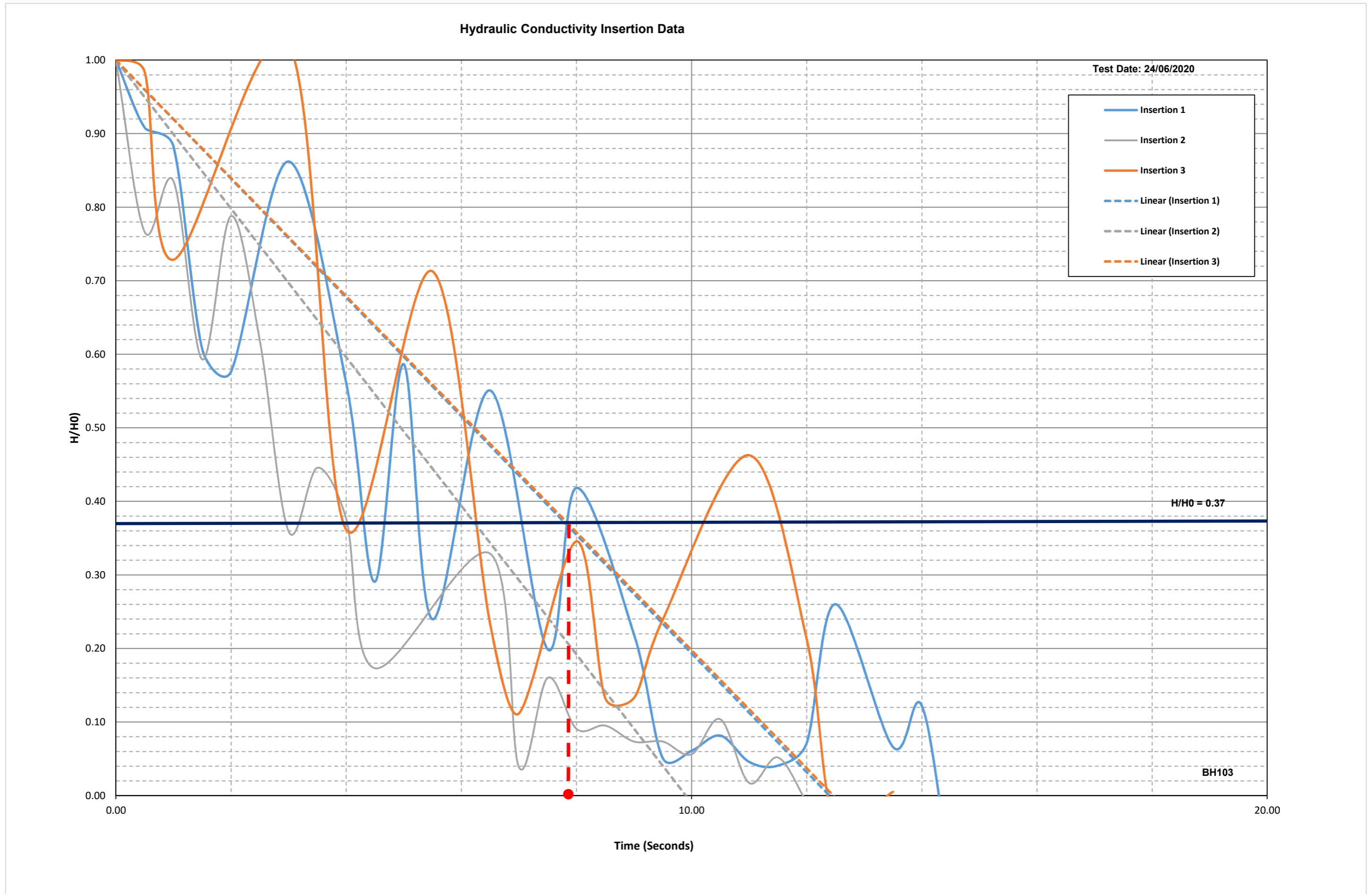


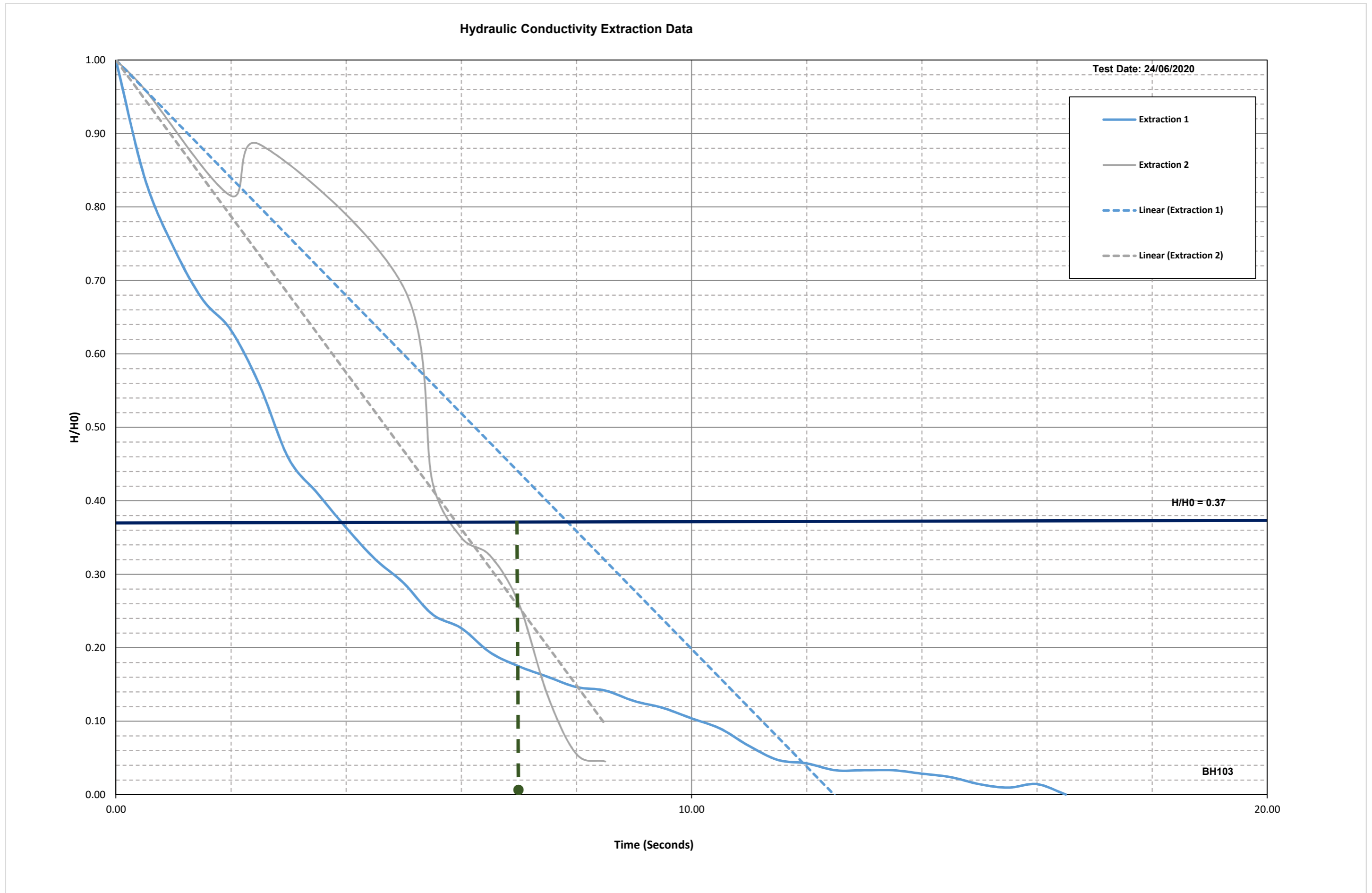
Hydraulic Conductivity Extraction Data



Hydraulic Conductivity: Slug Test

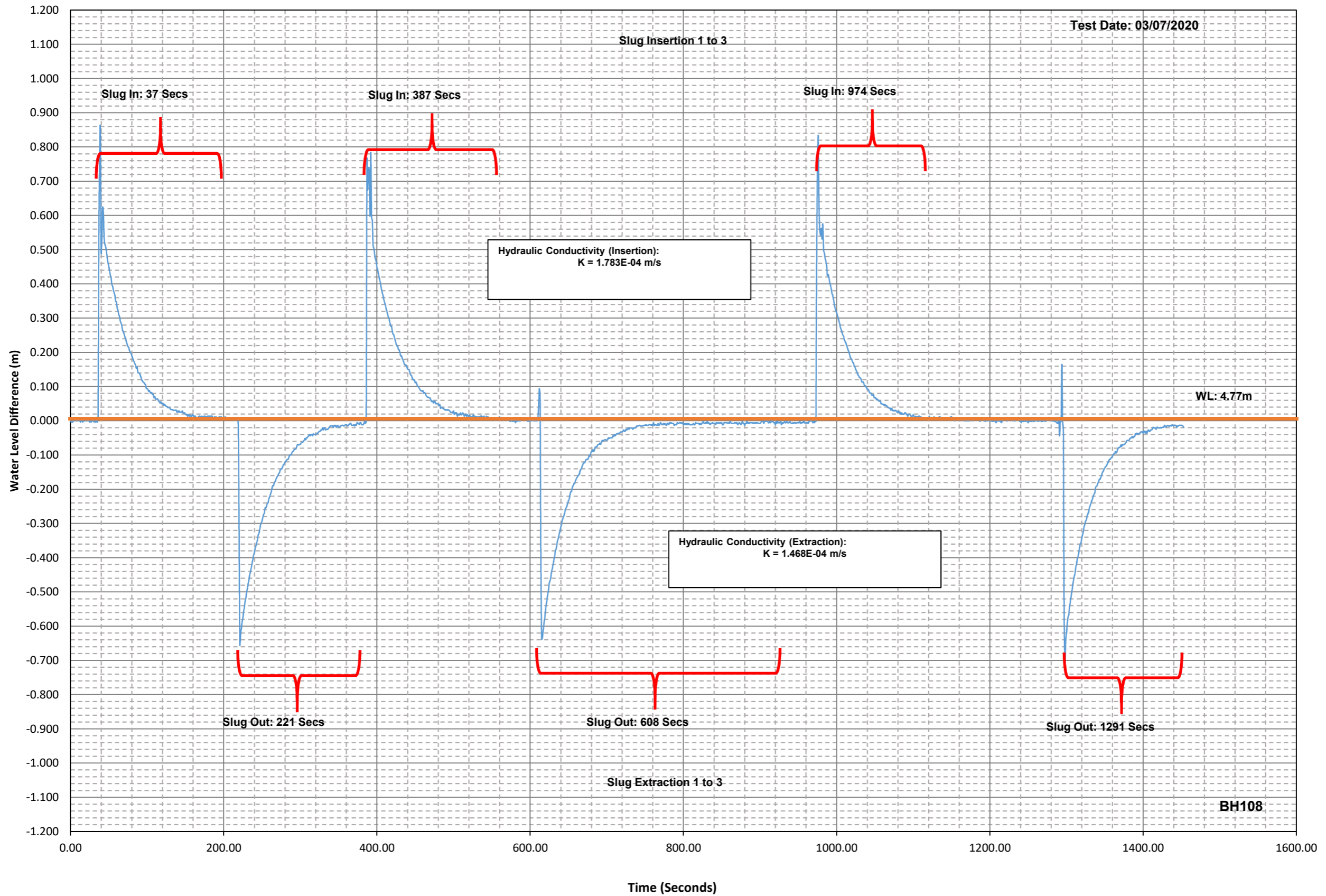




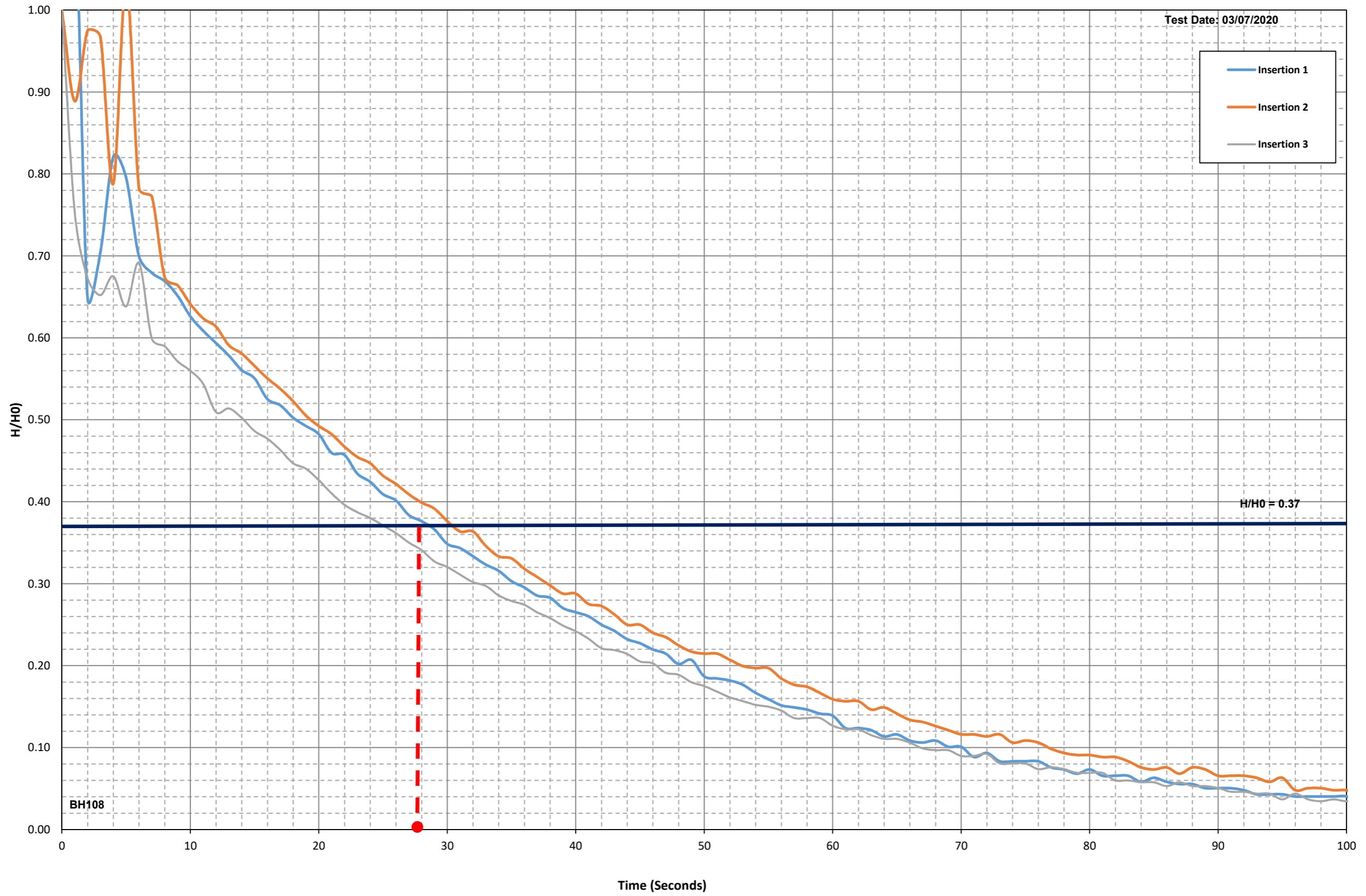


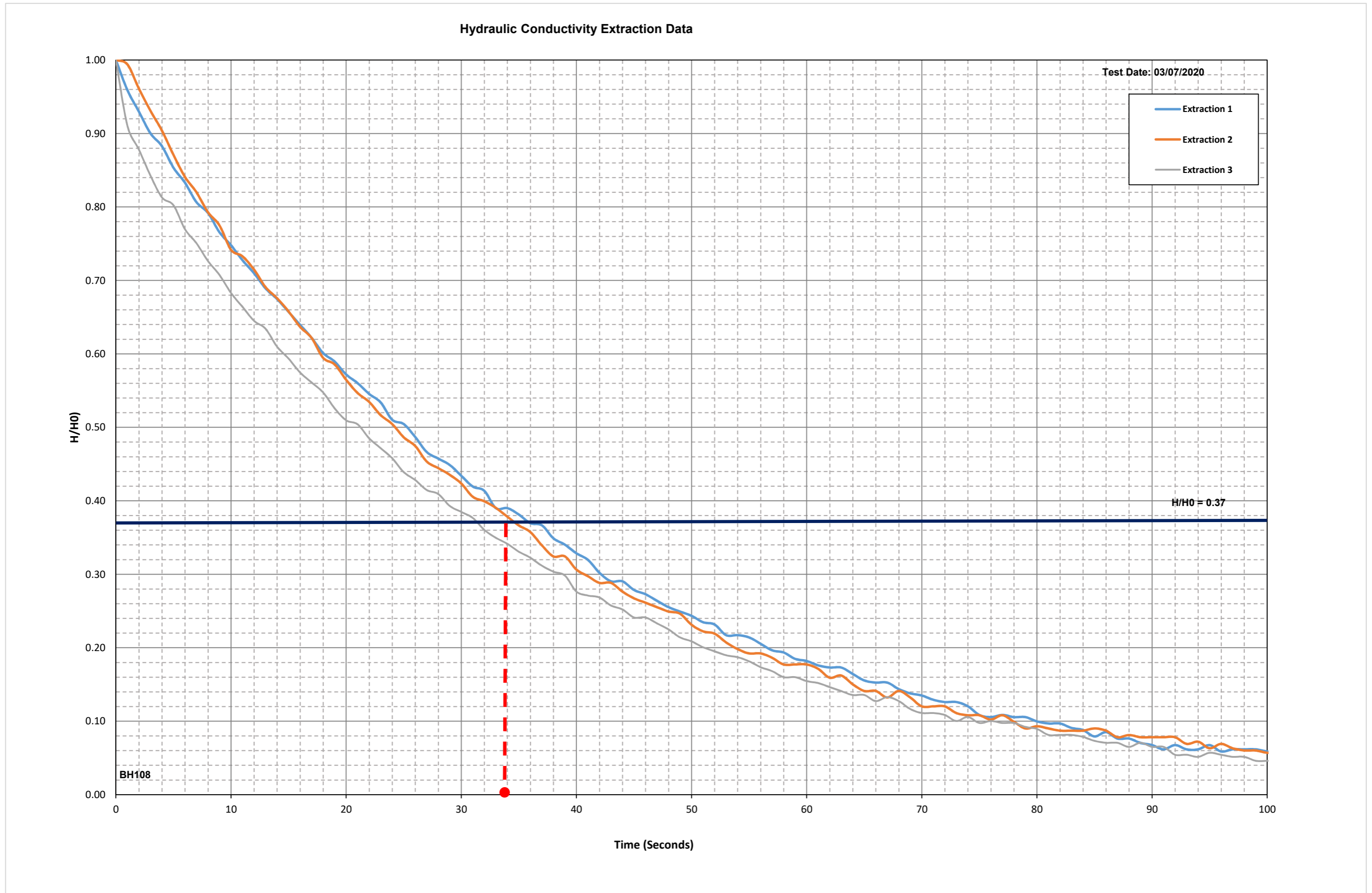
Hydraulic Conductivity: Slug Test

Test Date: 03/07/2020



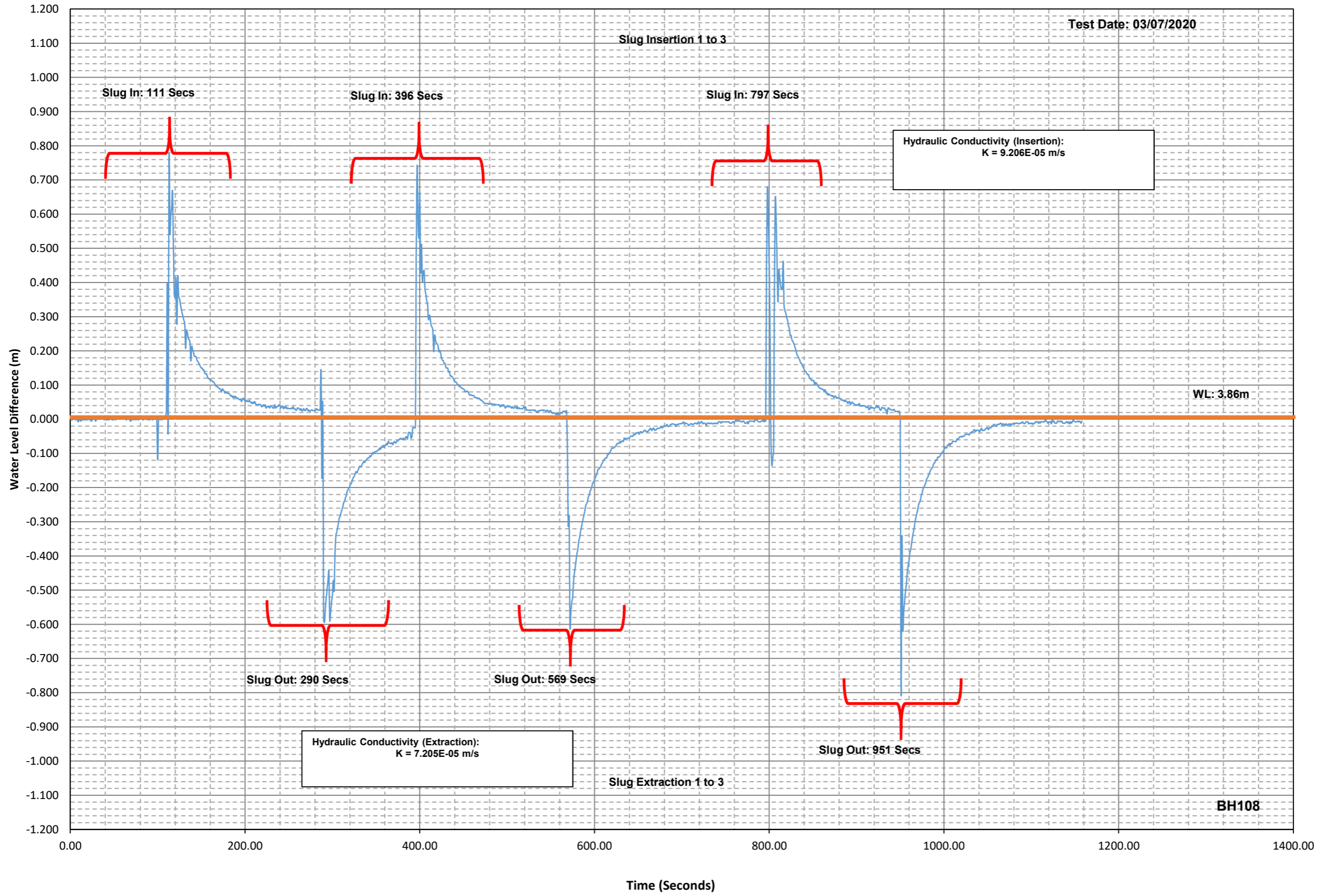
Hydraulic Conductivity Insertion Data



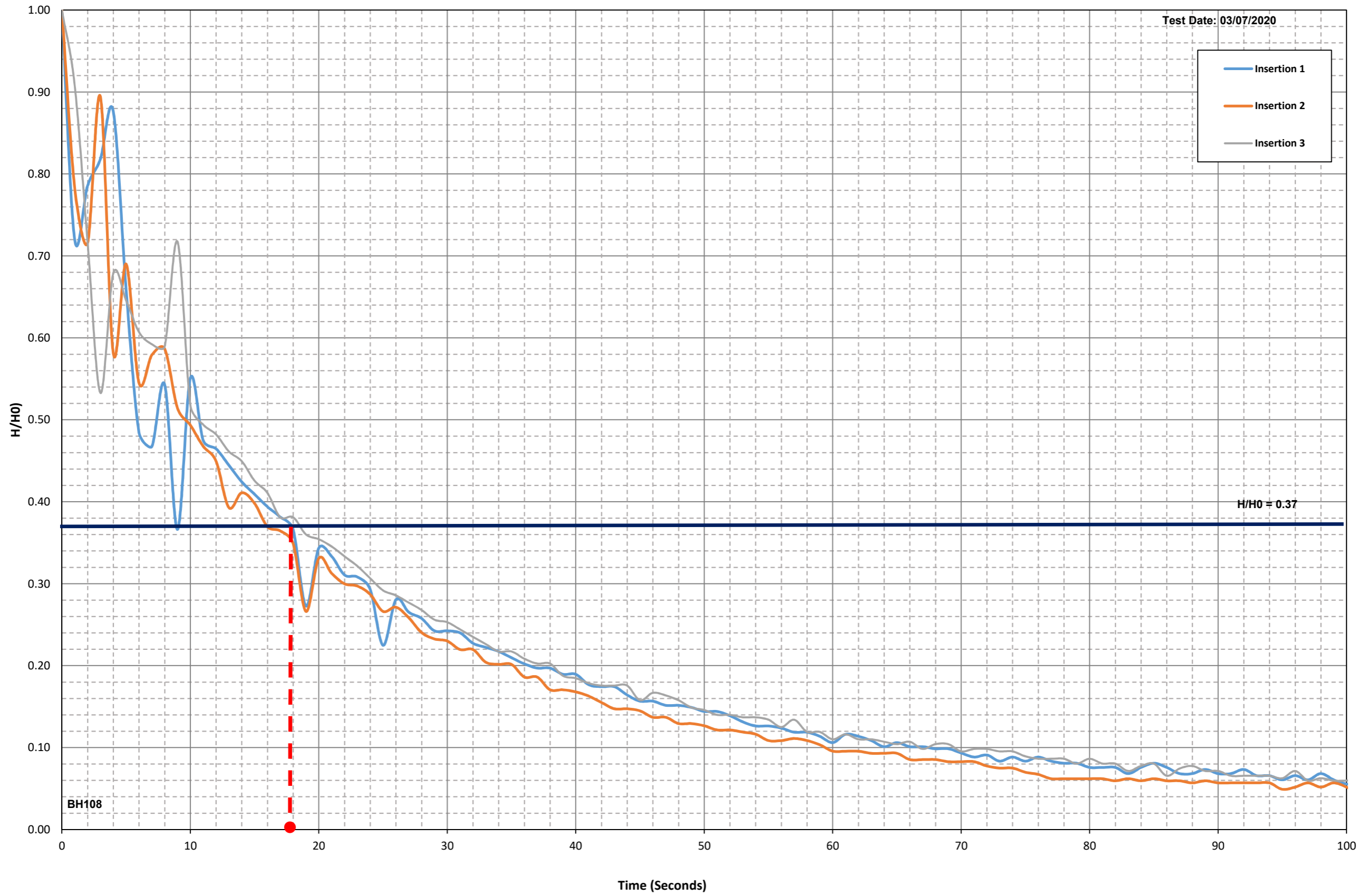


Hydraulic Conductivity: Slug Test

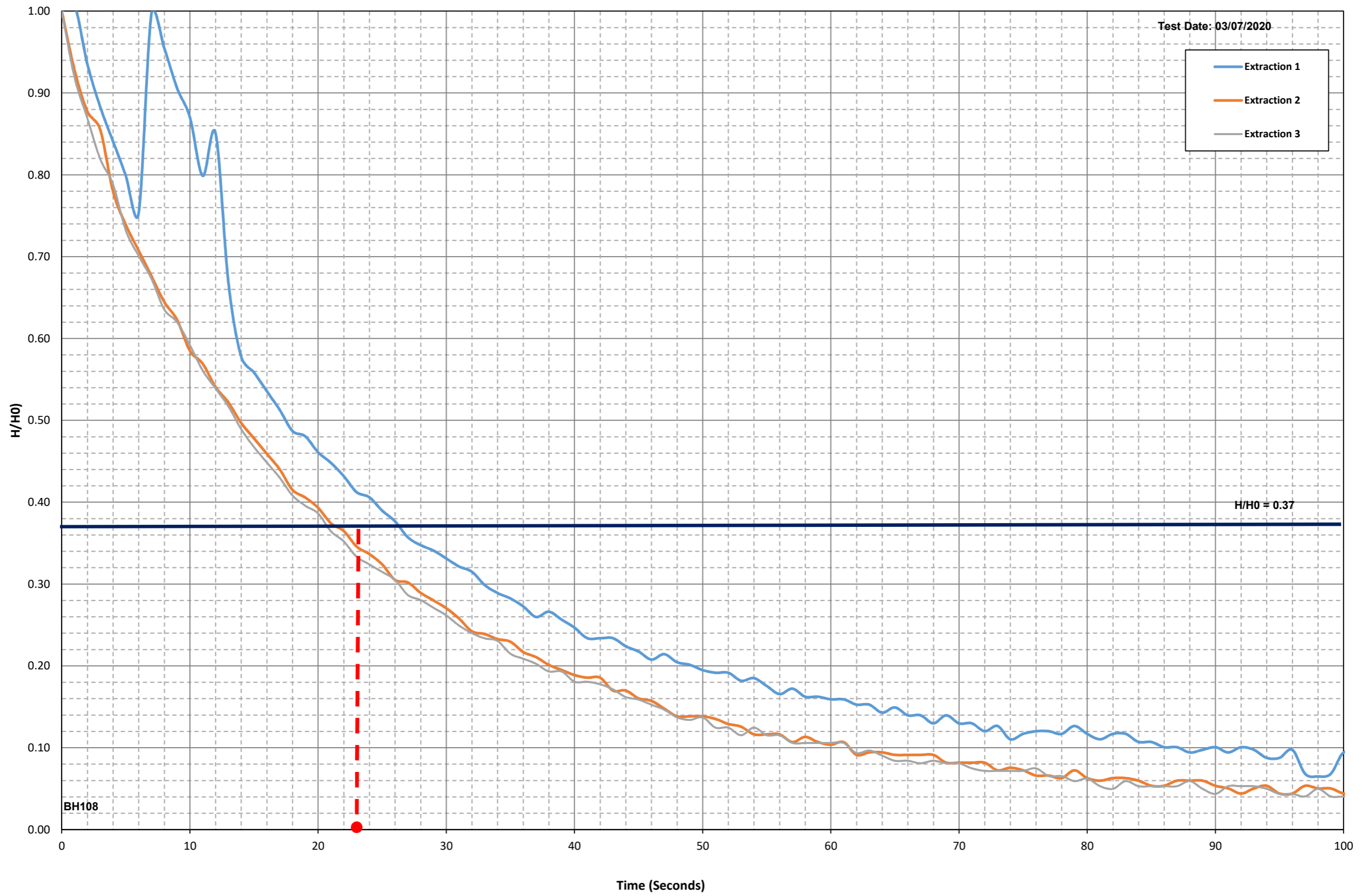
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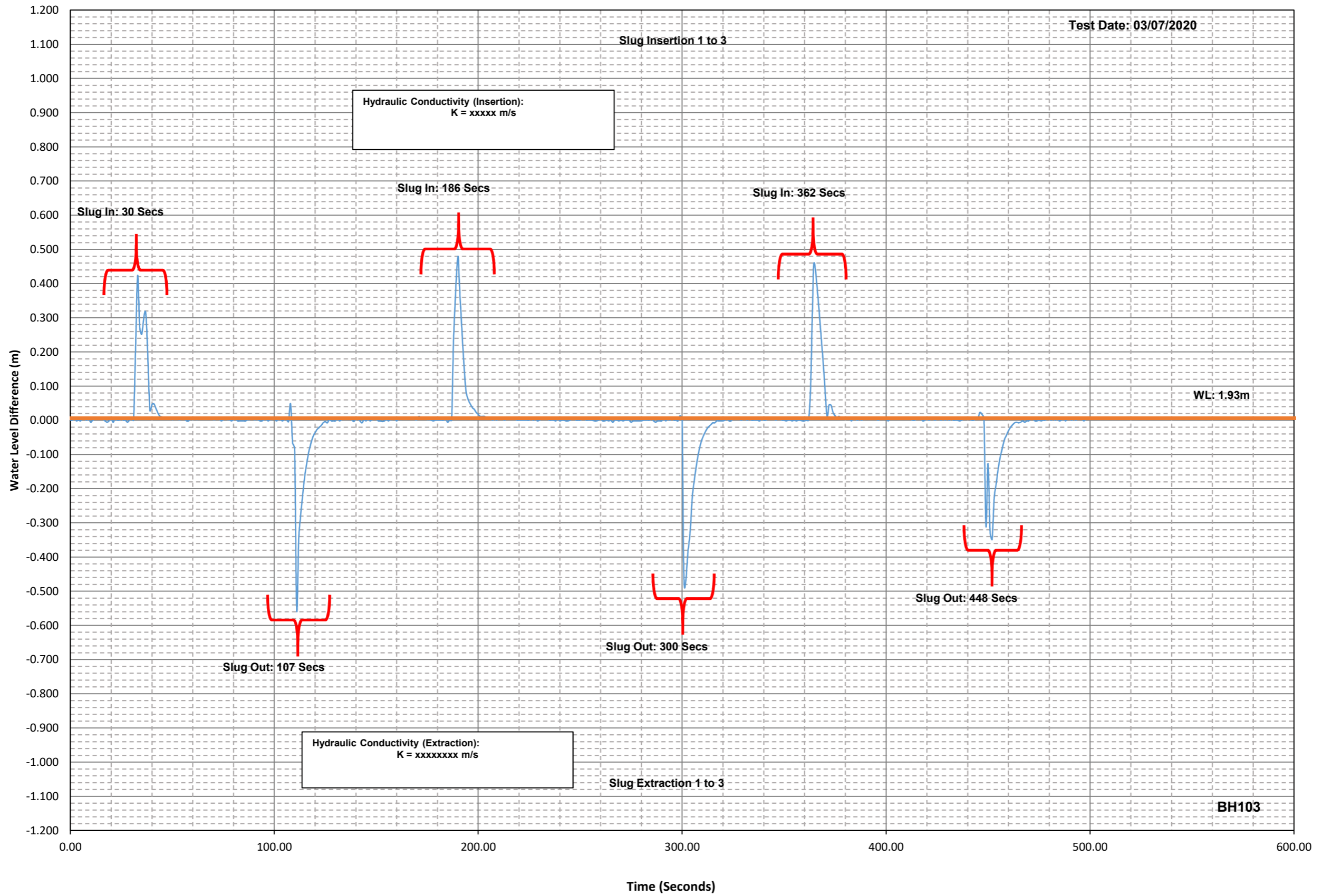


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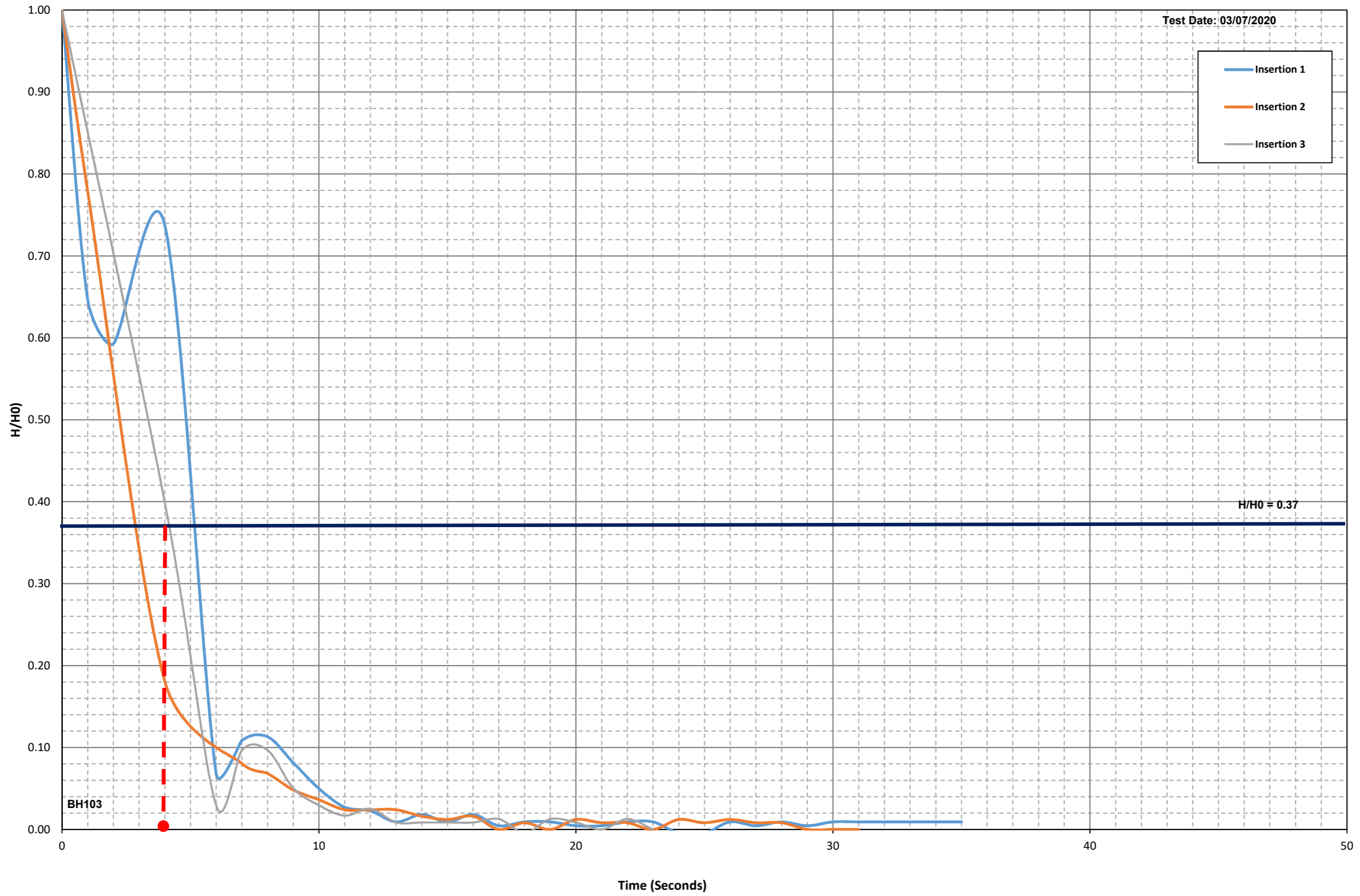


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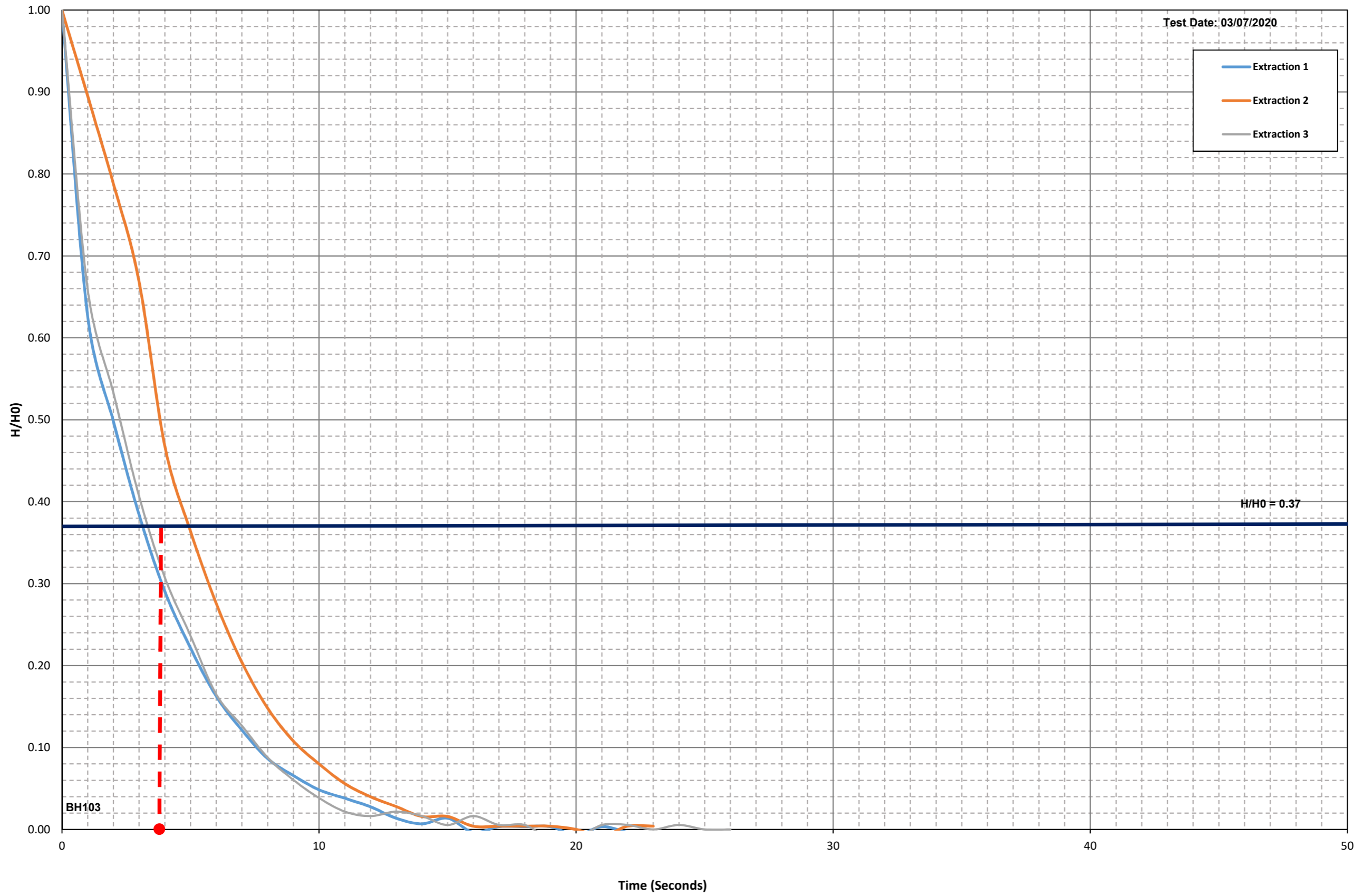
Test Date: 03/07/2020



Hydraulic Conductivity Insertion Data



Hydraulic Conductivity Insertion Extraction Data



Laboratory Report Certificate



ALLIED EXPLORATION & GEOTECHNICS LIMITED

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LABORATORY REPORT CERTIFICATE



Contract Title: Prairie Site Ground Investigation Works **AEG Reference:** 4251

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

We certify that Laboratory testing was carried out on samples from the above contract in accordance with techniques outlined in BS 1377: 1990, BS EN ISO 17892:2014 or other appropriate standards as quoted. The samples were received from May 2020 and the following results, given on the attached enclosures, were obtained.

The tests carried out are indicated in the attached table showing the enclosure number and the total number of pages.

For and on behalf of Allied Exploration & Geotechnics Limited

- Nick Vater (Managing Director)
- Kevin Warriner (HSE & Quality Director)
- Michelle Selkirk (Laboratory Manager)

Signed _____

Date: 29 June 2020

Tests marked not UKAS accredited in this certificate are not included in the UKAS accreditation schedule for our laboratory. Any opinions and interpretations expressed herein are outside the scope of the laboratory's UKAS accreditation.

Please note the material was derived from samples taken outside the control of the laboratory.

LABORATORY REPORT CERTIFICATE

ENCLOSURES

Enclosure Number	Description	UKAS Accredited	Reference	No. of Pages
0	Laboratory Report Certificate	N/A		3
1	Sample Description Sheets	N/A		
2	Moisture Content	Yes	BS 1377 Part 2 1990 (BS EN ISO 17892-1:2014)	-
2	Plasticity Index and Moisture Content	Yes	BS 1377 Part 2 1990 (BS EN ISO 17892-1:2014)	-
-	Determination of Density by Linear Measurement	Yes	BS 1377 Part 2 1990 (BS EN ISO 17892-2:2014)	-
3	Determination of Particle Density	Yes	BS 1377 Part 2 1990	-
4	Particle Size Distribution Sieving	Yes	BS 1377 Part 2 1990	-
4	Particle Size Distribution Sedimentation	No	BS 1377 Part 2 1990	-
5	Determination of Sulphate and pH (Tested externally)	No	See DETS certificates	-
-	Determination of Dry Density/Moisture Content Relationship	Yes	BS 1377 Part 4 1990	-
-	Determination of Dry Density/Moisture/CBR Relationship	Yes	BS 1377 Part 4 1990	-
-	Determination of Moisture Condition Value	Yes	BS 1377 Part 4 1990	-
-	Determination of MCV / Moisture Relationship	Yes	BS 1377 Part 4 1990	-
-	Determination of California Bearing Ratio	Yes	BS 1377 Part 4 1990	-
-	Determination of One Dimensional Consolidation Properties	Yes	BS 1377 Part 5 1990	-
-	Determination of Permeability (Falling Head)	Yes	<i>In-house Method</i>	-
-	Determination of Permeability in a Triaxial Cell	Yes	BS 1377 Part 6 1990	-
-	Shear Strength by Hand Vane	No		-
-	Shear Strength by Direct Shear	Yes	BS 1377 Part 7 1990	-
6	Undrained Shear Strength in Triaxial Cell without Pore Water Pressure Measurement	Yes	BS 1377 Part 7 1990	-
-	Consolidated Undrained Shear Strength in Triaxial Cell with Measurement of Pore Pressure	No	BS 1377 Part 8 1990	-
-	Consolidated Drained Shear Strength in Triaxial Cell with Measurement of Volume Change	No	BS 1377 Part 8 1990	-
7	Determination of Point Load Index	Yes	ISRM 1985	-
8	Determination of Unconfined Compressive Strength (Tested externally)	No	ISRM 1985	-

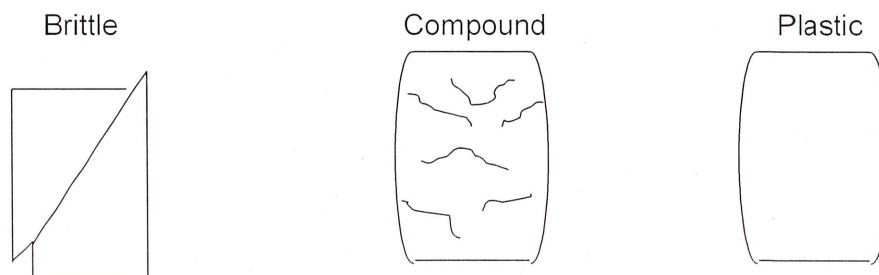
LABORATORY REPORT CERTIFICATE

ABBREVIATIONS

All the abbreviations used on the laboratory certificates are given below:

Br	Brittle	PSD	Particle Size Distribution by sieve analysis
C	Compound	SB	Shear Box
CBR	California Bearing Ratio	SED	Sedimentation Analysis
CDT	Consolidated Drained Triaxial	SO4	Sulphate (total, water extract, groundwater)
CL	Chloride content (water or soil)	CP2	Dry Density/Moisture Content 2.5kg rammer
US	Unsuitable sample for test	CP4	As above using 4.5kg rammer
UUT	Undrained Unconsolidated Triaxial	CPV	As above using vibrating hammer
HSV	Vane Test	CUT	Consolidated Undrained Triaxial
IS	Insufficient sample for test	R	Remoulded
LOI	Loss On Ignition	U	Undisturbed
M	Multi-stage testing	MC	Moisture Content
MCV	Moisture Content Value	PL	Point Load
NAT	Natural preparation method	NMC	Natural (or as received) moisture content
P	Plastic	PFH	Permeability Falling Head Method
OED	Oedometer	PTXL	Permeability in Triaxial Cell
OMC	Optimum Moisture Content	ORG	Organic content
B	Large disturbed (bulk) sample	PD	Particle Density (SG)
J	Small disturbed (jar) sample	PI	Liquid limit, plastic limit and plasticity index

Typical Mode of Failure for Triaxial Testing



Sample Description Sheets

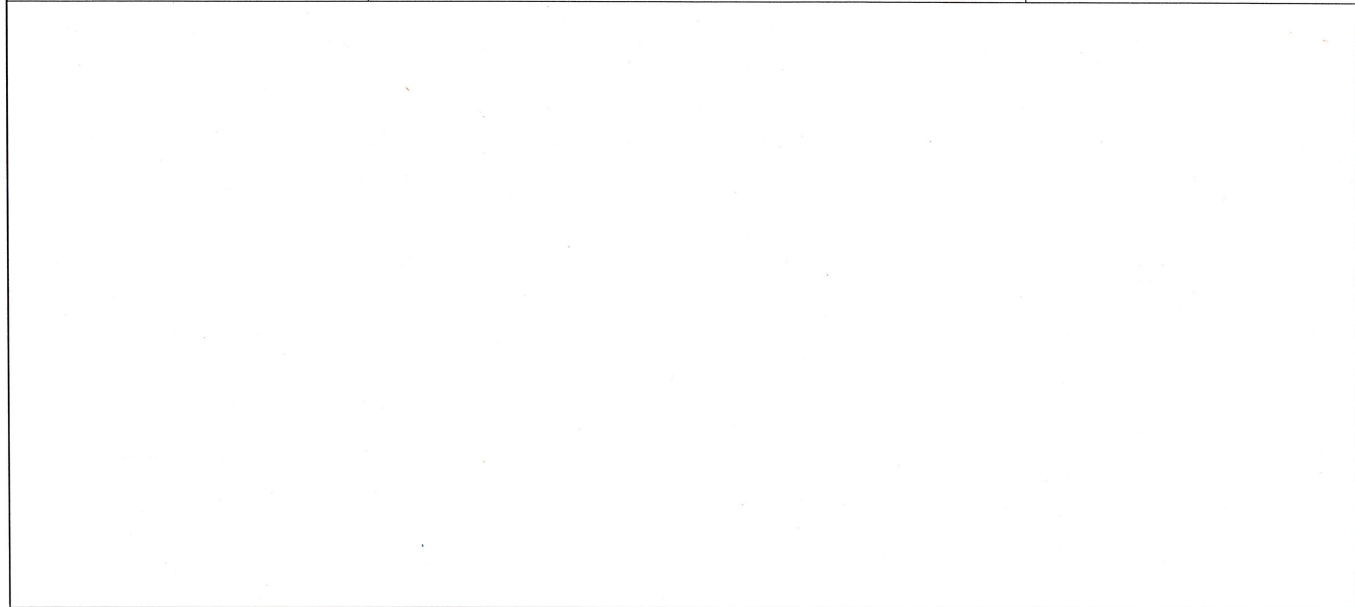


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LABORATORY SAMPLE DESCRIPTION SHEET

Exploratory Hole No.	Sample Depth (m)	ID	Description	Laboratory Tests/Remarks
PRAIRIE_AUK_BH101	3.00	U2	Low strength laminated brown silty CLAY of intermediate plasticity with occasional silt lenses.	MC PI PD UUT
PRAIRIE_AUK_BH101	4.00	J4	Brown slightly sandy CLAY.	SO4
PRAIRIE_AUK_BH101	4.00	B5	Brown silty slightly sandy CLAY.	PSD SED
PRAIRIE_AUK_BH101	5.00	U7	Low strength laminated brown silty slightly sandy CLAY of intermediate plasticity.	MC PI UUT
PRAIRIE_AUK_BH101	8.00	U12	Medium strength laminated brown silty slightly sandy CLAY.	UUT
PRAIRIE_AUK_BH101	9.00	J14	Brown slightly sandy CLAY.	SO4
PRAIRIE_AUK_BH101	11.00	U18	High strength brown slightly sandy slightly gravelly CLAY of low plasticity.	MC PI PD UUT
PRAIRIE_AUK_BH101	12.50	J21	Brown slightly sandy gravelly CLAY.	MC PI(IS for LL)
PRAIRIE_AUK_BH101	12.50	B22	Brown slightly sandy slightly gravelly CLAY with a medium cobble content.	PSD SED
PRAIRIE_AUK_BH101	15.50	J27		MC PI
PRAIRIE_AUK_BH101	15.50	B28		PSD SED
PRAIRIE_AUK_BH101	17.00	J30	Brown slightly sandy gravelly CLAY.	BRE
PRAIRIE_AUK_BH101	18.00	J33	White and brown slightly sandy GRAVEL.	MC BRE US for PI



Contract Title :- Prairie Site Ground Investigation Works	Client :- South Tees Development Corporation
---	--

	Signed :-	Name :-	Page 1 of 1
	Date of issue :- 29/06/2020	Certificate No :- SD/4251/1	AEG Contract No. :- 4251

Moisture Content/Plasticity Index and Moisture Content



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MOISTURE CONTENT CERTIFICATE



BS 1377 : Part 2 : Clause 3.2

Exploratory Hole No.	Sample Depth (m)	Sample ID	Specific Depth (m)	Moisture Content (%)	Date Tested	Remarks
PRAIRIE_AUK_BH101	18.00	J33	18.00	16.6	17/06/2020	

(This area is intentionally left blank for additional notes or sample descriptions.)

For description of sample please refer to the Laboratory Sample Description Sheet

Contract Title :- Prairie Site Ground Investigation Works	Client :- South Tees Development Corporation
--	---

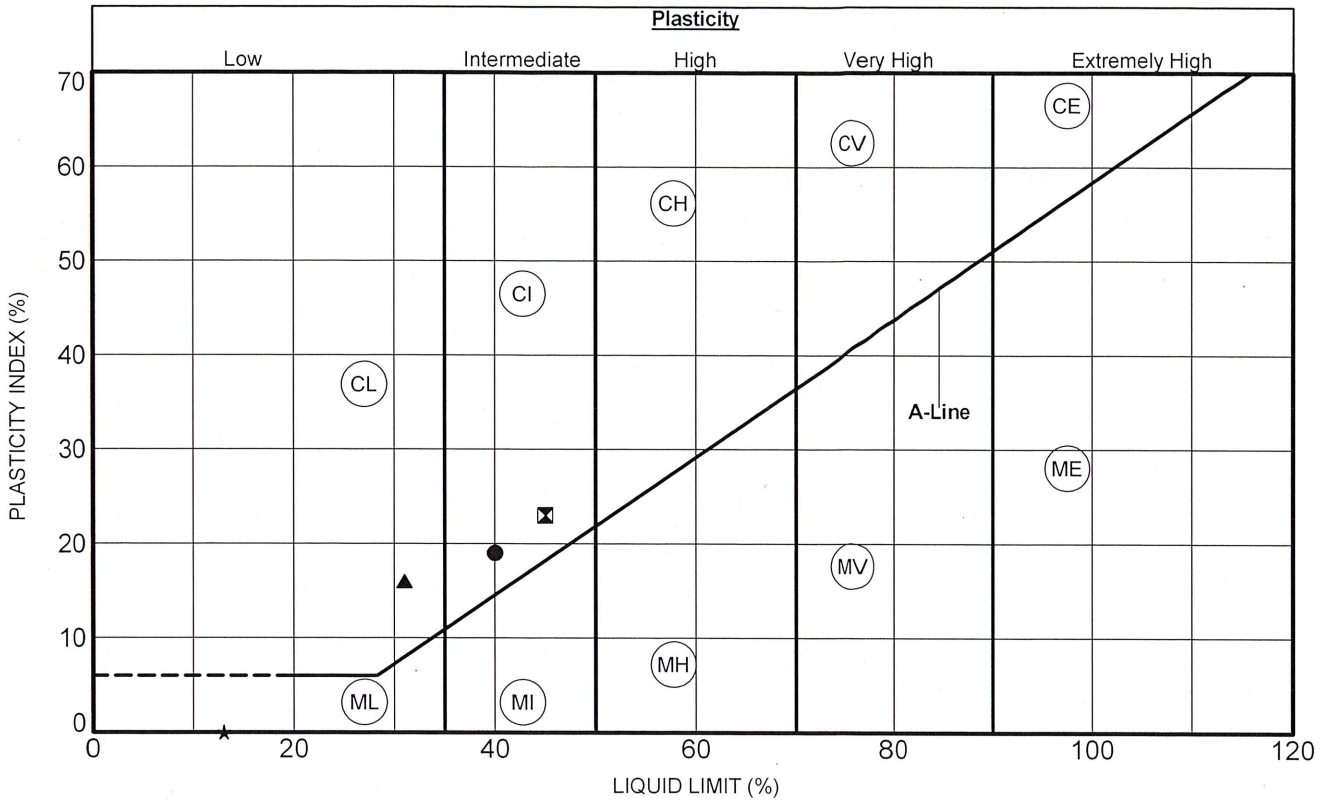
	Signed :- <i>mson</i>	Name :- M. SELKIRK	Page 1 of 1	
	Date of issue :- 29/06/2020	Certificate No :- MC/4251/1		

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ATTERBERG LIMITS & NATURAL MOISTURE CONTENT

Test Method :- BS 1377 : Part 2 : Clause 3.2, 4.1 to 4.4 & 5 : 1990



Exploratory Hole No.	Depth (m)	Sample Type/Ref.	Specific Depth (m)	LL	PL	PI	I _L	Preparation Method	<0.425mm (%)	m/c (%)	Date Tested
●PRAIRIE_AUK_BH1013.00	U2	3.25	40	21	19	0.20	Natural		24.8	17/06/2020	
⊠PRAIRIE_AUK_BH1015.00	U7	5.17	45	22	23	0.51	Natural		33.7	17/06/2020	
▲PRAIRIE_AUK_BH10111.00	U18	11.25	31	15	16	0.04	Natural		15.7	17/06/2020	
★PRAIRIE_AUK_BH10112.50	J21	12.50		13			Natural		12.0	17/06/2020	

For description of sample please refer to the Laboratory Sample Description Sheet. # = Insufficient for 4 point PI
If sample is prepared in the natural state we are unable to determine % retained on the 0.425mm test sieve.

Contract Title :- Prairie Site Ground Investigation Works			Client :- South Tees Development Corporation		
	Signed :- <i>M. Selkirk</i>	Name :- M. SELKIRK		Page 1 of 1	
	Date of issue :- 29/06/2020	Certificate No :- PI/4251/1		AEG Contract No. :- 4251	
					

Determination of Particle Density

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DETERMINATION OF PARTICLE DENSITY

BS1377 : Part 2 : Clause 8.2 : 1990

Exploratory Hole No.	Depth (m)	Sample Type & No.	Specific Depth (m)	Particle Density (Mg/m ³)	Date Tested
PRAIRIE_AUK_BH101	3.00	U2	3.00	2.61	18/06/2020
PRAIRIE_AUK_BH101	11.00	U18	11.00	2.69	18/06/2020

For description of sample please refer to the Laboratory Sample Description Sheet

Contract Title :- Prairie Site Ground Investigation Works	Client :- South Tees Development Corporation
--	---

	Signed :- <i>msere</i>	Name :- M. SELKIRK	Page 1 of 1	
	Date of issue :- 29/06/2020	Certificate No :- PD/4251/1	AEG Contract No. :- 4251	

Particle Size Distribution Sieving and Sedimentation

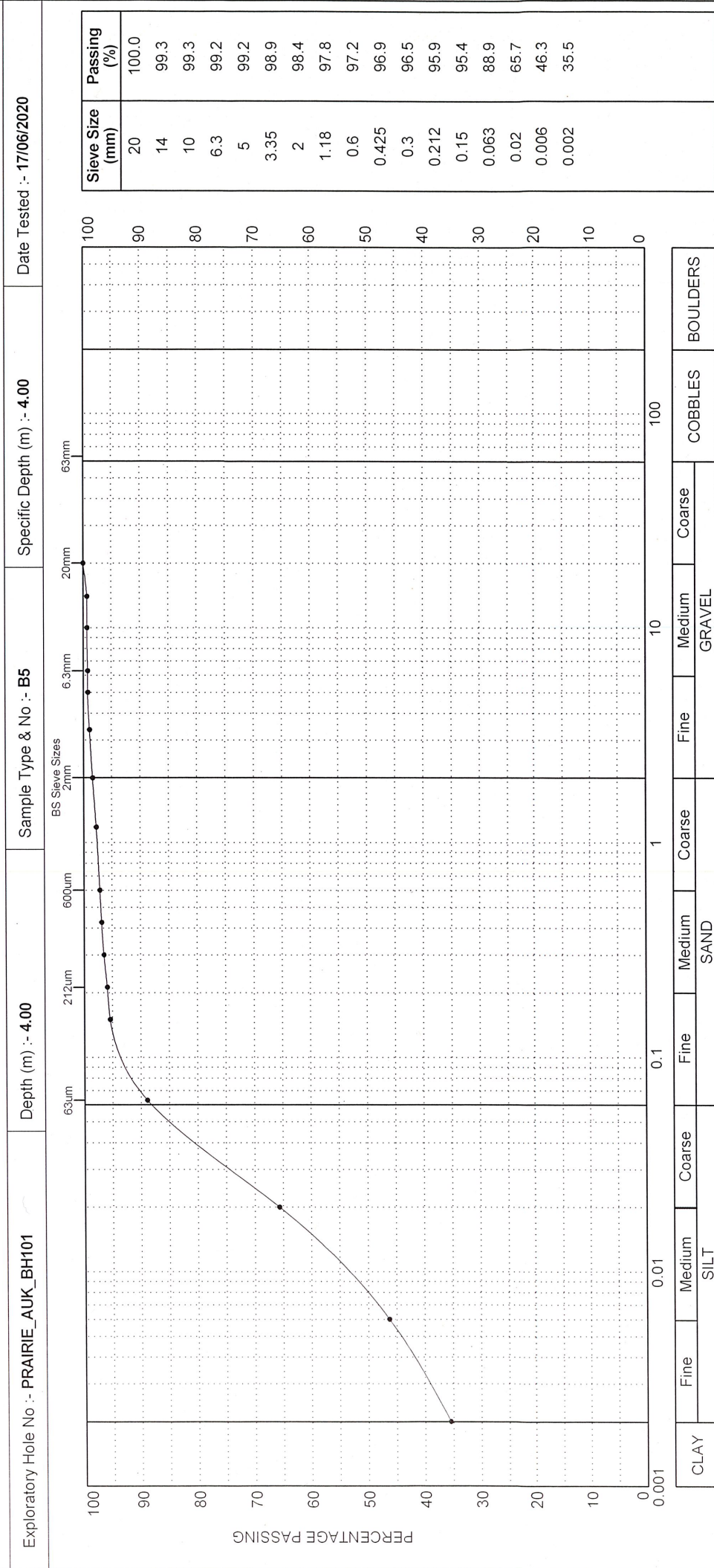


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PARTICLE SIZE DISTRIBUTION

BS1377 : Part 2 : Clause 9.2 & 9.4 : 1990



For description of sample please refer to the Laboratory Sample Description Sheet

Date of issue :- 29/06/2020	Certificate No. :- PSD/4251/PRAIRIE_AUK_BH101/B5/4.00	Signed :- <i>M. Selkirk</i>	Name :- M. SELKIRK
Client :- South Tees Development Corporation		Contract Title :- Prairie Site Ground Investigation Works	
Page 1 of 1		AEG Contract No :- 4251	



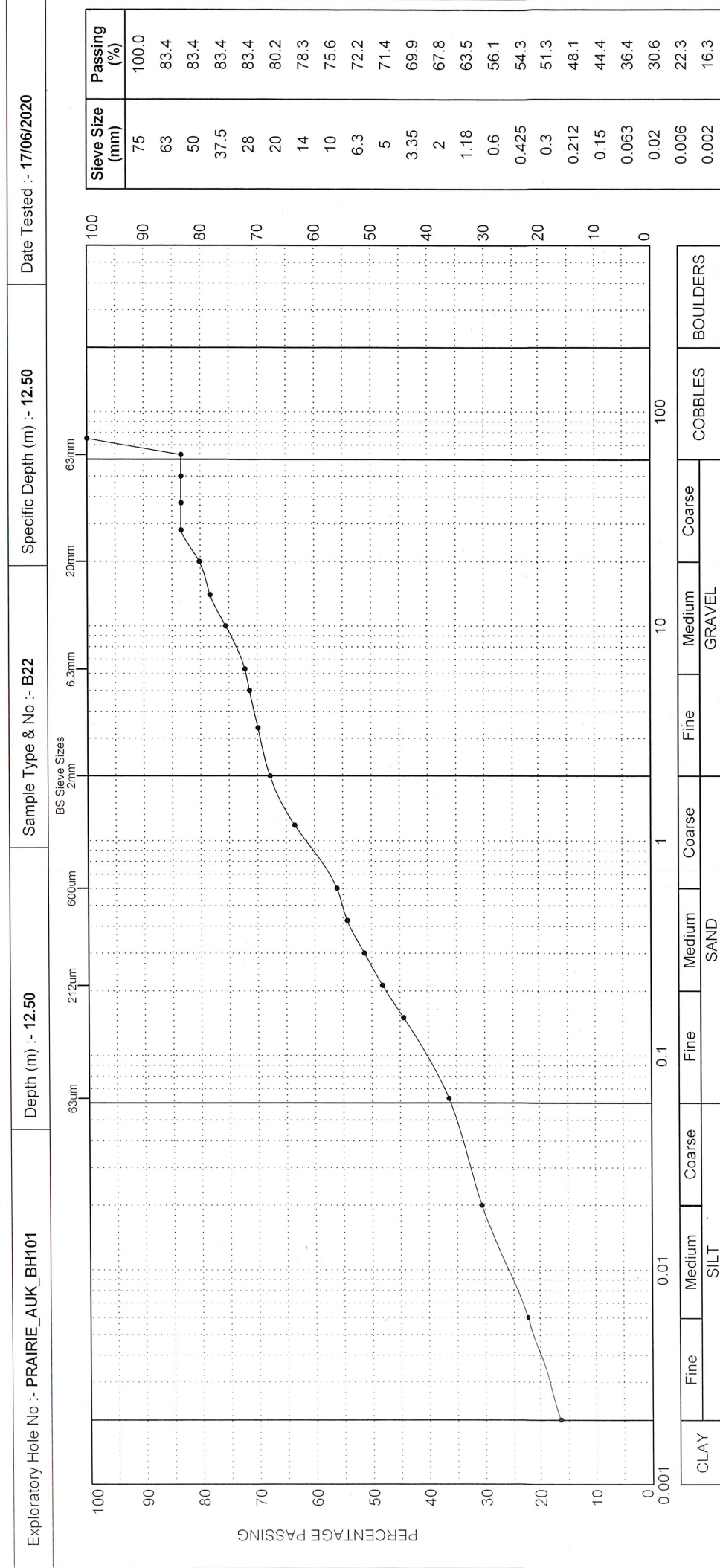
1367

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 Regional Office: Unit 20, Business Development Centre, Earning Wharf, Blackburn, BB1 3BL - Tel: 01772 735 300 Fax: 01772 733 999

PARTICLE SIZE DISTRIBUTION

BS1377 : Part 2 : Clause 9.2 & 9.4 : 1990



For description of sample please refer to the Laboratory Sample Description Sheet

Date of issue :- 29/06/2020	Certificate No :- PSD/4251/PRAIRIE_AUK_BH101/B22/12.50	Signed :- <i>MSO</i>	Name :- MSO	Page 1 of 1
Client :- South Tees Development Corporation		Contract Title :- Prairie Site Ground Investigation Works		
		AEG Contract No :- 4251		



Determination of Sulphate and pH
(Tested Externally)





Certificate of Analysis

Certificate Number 20-10974

25-Jun-20

Client Allied Exploration & Geotechnics Limited
Unit 25
Stella Gill Industrial Estate
Pelton Fell
DH2 2RG

Our Reference 20-10974

Client Reference 4251

Order No LA 2358

Contract Title Prairie Site Ground Investigation Works

Description 4 Soil samples.

Date Received 22-Jun-20

Date Started 22-Jun-20

Date Completed 25-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

A handwritten signature in black ink, appearing to read 'A Fenwick'.

Adam Fenwick
Contracts Manager





Summary of Chemical Analysis Soil Samples

Our Ref 20-10974

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1687327	1687328	1687329	1687330
	PRAIRIE_	PRAIRIE_	PRAIRIE_	PRAIRIE_
	AUK_BH1	AUK_BH1	AUK_BH1	AUK_BH1
Sample ID	01	01	01	01
Depth	4.00	9.00	17.00	18.00
Other ID	4	14	30	33
Sample Type	J	J	J	J
Sampling Date	27/04/2020	27/04/2020	28/04/2020	29/04/2020
Sampling Time	n/s	n/s	n/s	n/s

Test	Method	LOD	Units				
Inorganics							
pH	DETSC 2008#		pH			7.8	8.2
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	1100	270	2400	3000

Information in Support of the Analytical Results

Our Ref 20-10974

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
1687327	PRAIRIE_AUK_BH101 4.00 SOIL	27/04/20	PT 1L	Anions 2:1 (30 days)	
1687328	PRAIRIE_AUK_BH101 9.00 SOIL	27/04/20	PT 1L	Anions 2:1 (30 days)	
1687329	PRAIRIE_AUK_BH101 17.00 SOIL	28/04/20	PT 1L	Anions 2:1 (30 days), pH + Conductivity (7 days)	
1687330	PRAIRIE_AUK_BH101 18.00 SOIL	29/04/20	PT 1L	Anions 2:1 (30 days), pH + Conductivity (7 days)	

Key: P-Plastic T-Tub

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.

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

**Undrained Shear Strength in Triaxial Cell
without Pore Water Pressure Measurement**

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

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

BS 1377 : Part 7 : Clauses 8 & 9 : 1990 Part 2 Clause 3.2

Exploratory Hole	Sample ID	Specific Depth (m)	Diameter (mm)	Length (mm)	Prep. Method	Stage No.	Initial Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Membrane Thickness (mm)	Membrane Correction (kPa)	Cell Pressure (kPa)	Corrected Deviator Stress (kPa)	Failure Strain (%)	Mode of Failure	cu (kPa)	Date Tested
PRAIRIE_AUK_BH101	3.00 U2	3.02	103.6	209.5	UNDISTURBED	1	32.7	1.95	1.47	0.3	1.10	60	52	20.0	P	25.8	17/06/2020
PRAIRIE_AUK_BH101	5.00 U7	5.18	104.0	211.0	UNDISTURBED	1	32.9	1.93	1.46	0.3	0.79	80	63	13.0	P	31.7	17/06/2020
PRAIRIE_AUK_BH101	8.00 U12	8.01	103.0	210.0	UNDISTURBED	1	27.3	1.98	1.55	0.4	0.94	110	87	11.0	BR	43.3	17/06/2020
PRAIRIE_AUK_BH101	11.00 U18	11.01	104.7	210.7	UNDISTURBED	1	16.1	2.19	1.89	0.9	0.85	140	251	14.5	P	125	17/06/2020

For description of sample please refer to the Laboratory Sample Description Sheet. Please note the rate of strain was 2% per minute and the orientation of the test specimen was vertical. Latex membrane used.



Date of issue :-
29/06/2020

Certificate No :-
TXL/4251/1

Signed :-

M. Selkirk

Name :-

M. SELKIRK

Page 1 of 1

Client :-

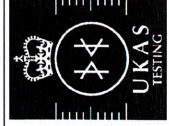
South Tees Development Corporation

Contract Title :-

Prairie Site Ground Investigation Works

AEG Contract No :-

4251



1367

Determination of Point Load Index

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, Eanan Wharf, Blackburn, BB1 5BL - Tel: 01772 735 300 Fax: 01772 735 999

POINT LOAD STRENGTH INDEX

ISRM : 1985

Exploratory Hole No	Depth (m)	Type/Orientation	Width (mm)	Platen Separation (mm)+	Failure Load (kN)*	De ² (mm ²)	Point Load (IS) (MPa)	Size Factor	Point Load Index (IS50) (MPa)	Type	Date Tested
PRAIRIE_AUK_BH109	7.70	Axial	85.6	58.4	0.4	6365.0	0.06	1.23	0.078	Sandstone	17/06/2020

NOTES - + Tested specimen measured using calibrated vernier callipers # - Invalid Failure (Did not pass through both points) ! - Too soft to register a reading

	Date of issue :- 29/06/2020	Certificate No :- PL/4251/1	Signed :- <i>mson</i>	Name :- M. SELKIRK	Page 1 of 1
	Client :- South Tees Development Corporation	Contract Title :- Prairie Site Ground Investigation Works	AEG Contract No :- 4251		

**Determination of Unconfined Compressive Strength
(Tested Externally)**



LABORATORY TEST CERTIFICATE

10 Queenslie Point
Queenslie Industrial Estate
120 Stepps Road
Glasgow
G33 3NQ

Certificate No : 20/504 - 01
To : Michelle Selkirk
Client : Allied Exploration & Geotechnics Ltd.
Unit 25 Stella Gill Industrial Estate
Pelton Fell
Chester-le-Street
County Durham
DH2 2RG

Tel: 0141 774 4032

email: info@mattest.org
Website: www.mattest.org

Dear Sirs,

LABORATORY TESTING OF ROCK

Introduction

We refer to samples taken from Prairie Site Ground Investigation Works and delivered to our laboratory on 18th June 2020.

Material & Source

Sample Reference : See Report Plate
Sampled By : Client
Sampling Certificate : Not Supplied
Location : See Report Plate
Description : Rock Cores
Date Sampled : Not Supplied
Date Tested : 18th June 2020 Onwards
Source : 4251 - Prairie Site Ground Investigation Works

Test Results;

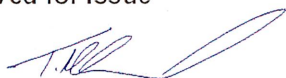
As Detailed On Page 2

Comments;

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
All remaining samples for this project will be disposed of 28 days after issue of this test certificate

Remarks;

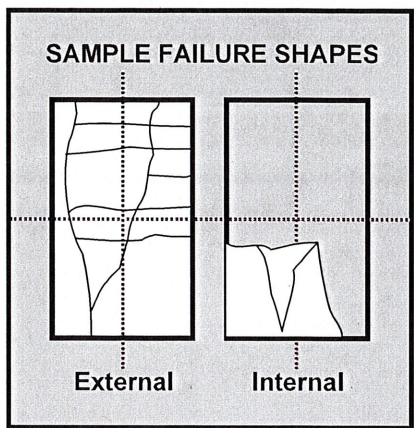
Approved for Issue



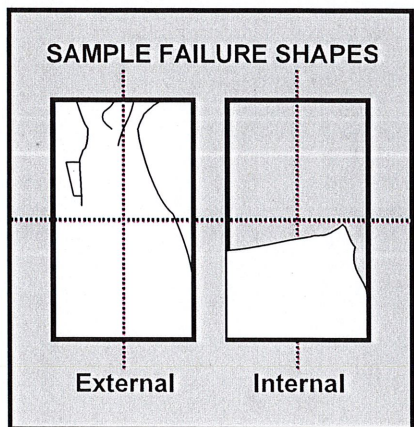
T McLelland (Director)

Date 24/06/2020

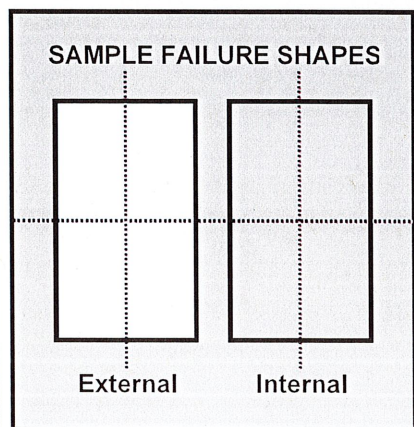
BOREHOLE	Prairie_AUK_BH-09	
SAMPLE	C	
DEPTH	m	9.00
SAMPLE DIAMETER	mm	81.64
SAMPLE HEIGHT	mm	169.33
TEST CONDITION	As Received	
RATE OF LOADING	kN/s	0.4
TEST DURATION	min.sec	4.37
DATE OF TESTING	22/06/2020	
LOAD FRAME USED	2000kN	
LOAD DIRECTION WITH RESPECT TO LITHOLOGY	Unknown	
FAILURE LOAD	kN	105.9
UNCONFINED COMPRESSIVE STRENGTH	MPa	20.2
WATER CONTENT (ISRM Suggested Methods)	%	3.5
BULK DENSITY (ISRM Suggested Methods)	Mg/m ³	2.60
DRY DENSITY (ISRM Suggested Methods)	Mg/m ³	2.51



BOREHOLE	Prairie_AUK_BH-09	
SAMPLE	C	
DEPTH	m	11.30
SAMPLE DIAMETER	mm	83.10
SAMPLE HEIGHT	mm	186.89
TEST CONDITION	As Received	
RATE OF LOADING	kN/s	0.7
TEST DURATION	min.sec	3.28
DATE OF TESTING	22/06/2020	
LOAD FRAME USED	2000kN	
LOAD DIRECTION WITH RESPECT TO LITHOLOGY	Unknown	
FAILURE LOAD	kN	132.2
UNCONFINED COMPRESSIVE STRENGTH	MPa	24.4
WATER CONTENT (ISRM Suggested Methods)	%	1.7
BULK DENSITY (ISRM Suggested Methods)	Mg/m ³	2.58
DRY DENSITY (ISRM Suggested Methods)	Mg/m ³	2.54



BOREHOLE		
SAMPLE		
DEPTH	m	
SAMPLE DIAMETER	mm	
SAMPLE HEIGHT	mm	
TEST CONDITION		
RATE OF LOADING	kN/s	
TEST DURATION	min.sec	
DATE OF TESTING		
LOAD FRAME USED		
LOAD DIRECTION WITH RESPECT TO LITHOLOGY		
FAILURE LOAD	kN	
UNCONFINED COMPRESSIVE STRENGTH	MPa	
WATER CONTENT (ISRM Suggested Methods)	%	
BULK DENSITY (ISRM Suggested Methods)	Mg/m ³	
DRY DENSITY (ISRM Suggested Methods)	Mg/m ³	



Tested in accordance with ASTM D7012 - 14

SUMMARY OF UNCONFINED COMPRESSIVE STRENGTH

**Specialist Chemical Testing
(Tested Externally)**



Certificate of Analysis

Certificate Number 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-09146,20-09147,20-09149

11-Jun-20

Client Allied Exploration & Geotechnics Limited
Unit 25
Stella Gill Industrial Estate
Pelton Fell
DH2 2RG

Our Reference 20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-09146,20-09147,20-09149

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



2139



Summary of Chemical Analysis Matrix Descriptions

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-

Our Ref 07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Sample ID	Other ID	Depth	Lab No	Completed	Matrix Description
PRAIRIE_AUK_TP13 2_SO_0130	4	1.3	1663605	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP13 1_SO_0180	5	1.8	1663606	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP10 1_SO_0100	5	1	1663734	03/06/2020	Dark brown gravelly SAND (Possible made ground - brick)
PRAIRIE_AUK_TP10 1_SO_0220	9	2.2	1663735	03/06/2020	Dark brown sandy, clayey GRAVEL (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP10 4_SO_0150	5	1.5	1663736	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP10 5_SO_0250	11	2.5	1663737	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_BH10 4_SO_0550	1	5.5	1663978	03/06/2020	Dark brown gravelly, sandy CLAY
PRAIRIE_AUK_TP17 2_SO_0080	3	0.8	1665133	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP17 5_SO_0080	3	0.8	1665134	03/06/2020	Dark brown sandy GRAVEL (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP17 5_SO_0180	6	1.8	1665135	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP17 8_SO_0080	3	0.8	1665136	03/06/2020	Dark brown sandy GRAVEL (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_BH10 6_SO_0550	1	5.5	1665137	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP10 7_SO_0180	6	1.8	1665138	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP10 7_SO_0080	11	0.8	1665139	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP10 8_SO_0100	5	1	1665140	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP10 8_SO_0200	8	2	1665141	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP11 3_SO_0130	5	1.3	1665142	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_BH10 3_SO_0250	1	2.5	1665286	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP11 5_SO_0190	6	1.9	1665288	03/06/2020	Dark grey sandy GRAVEL (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP12 2_SO_0100	3	1	1665290	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP12 3_SO_0060	3	0.6	1665291	03/06/2020	Dark brown gravelly, clayey SAND
PRAIRIE_AUK_TP18 5_SO_0430	5	4.3	1665292	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP18 6_SO_0050	3	0.5	1665293	03/06/2020	Dark brown gravelly, sandy CLAY (Possible made ground - brick)
PRAIRIE_AUK_TP18 8_SO_0100	3	1	1665295	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP121 _SO_0150	4	1.5	1665450	03/06/2020	Dark brown sandy, clayey GRAVEL (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP138 _SO_0120	3	1.2	1665451	03/06/2020	Dark brown gravelly SAND (Possible made ground - brick)
PRAIRIE_AUK_TP149 _SO_0130	3	1.3	1665452	03/06/2020	Dark brown gravelly, clayey SAND



Summary of Chemical Analysis

Matrix Descriptions

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-

Our Ref 07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Sample ID	Other ID	Depth	Lab No	Completed	Matrix Description
PRAIRIE_AUK_TP168_SO_0005	1	0.05	1665453	03/06/2020	Dark brown gravelly, clayey SAND
PRAIRIE_AUK_TP173_SO_0090	3	0.9	1665454	03/06/2020	Dark brown gravelly, clayey SAND
PRAIRIE_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



Summary of Chemical Analysis

Matrix Descriptions

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-

Our Ref 07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Sample ID	Other ID	Depth	Lab No	Completed	Matrix Description
PRAIRIE_AUK_TP13 9B_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_TP13 9B_SO_0330	6	3.3	1666612	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP14 8A_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_TP15 0_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_TP15 9_SO_0060	3	0.6	1666615	03/06/2020	Dark brown very sandy GRAVEL (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP19 0A_SO_0110	3	1.1	1666616	03/06/2020	Dark brown gravelly, clayey SAND
PRAIRIE_AUK_BH10 5_SO_0300	1	3	1667231	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP12 6_SO_0260	5	2.6	1667232	03/06/2020	Dark brown gravelly, sandy CLAY
PRAIRIE_AUK_TP12 8_SO_0090	3	0.9	1667233	03/06/2020	U/S (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP12 9_SO_0210	4A	2.1	1667234	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP13 0_SO_0100	4A	1	1667235	03/06/2020	Dark brown gravelly, clayey SAND
PRAIRIE_AUK_TP14 7_SO_0150	4	1.5	1667236	03/06/2020	Dark brown gravelly, sandy CLAY
PRAIRIE_AUK_TP15 8_SO_0130	3	1.3	1667237	03/06/2020	Dark brown gravelly, clayey SAND
PRAIRIE_AUK_TP15 7_SO_0080	2	0.8	1667238	03/06/2020	Dark brown gravelly, clayey SAND
PRAIRIE_AUK_TP12 0A_SO_0100	3	1	1667501	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP13 4_SO_0100	3	1	1667502	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP13 4_SO_0200	6	2	1667503	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP16 1_SO_0100	3	1	1667504	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP16 6_SO_0045	3	0.45	1667505	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP16 6_SO_0120	8	1.2	1667506	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP17 1_SO_0075	3	0.75	1667507	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP18 7_SO_0070	3	0.7	1667508	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_BH11 0_SO_0300	1	3	1668118	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP10 2_SO_0100	4	1	1668119	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP10 2_SO_0300	11	3	1668120	03/06/2020	Dark brown gravelly, sandy CLAY
PRAIRIE_AUK_TP10 3_SO_0100	3	1	1668121	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP10 9_SO_0100	3	1	1668122	03/06/2020	Dark brown gravelly SAND



Summary of Chemical Analysis

Matrix Descriptions

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-

Our Ref 07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Sample ID	Other ID	Depth	Lab No	Completed	Matrix Description
PRAIRIE_AUK_TP11 0_SO_0100	3	1	1668123	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP11 0_SO_0200	7	2	1668124	03/06/2020	Dark brown gravelly, sandy CLAY
PRAIRIE_AUK_TP11 1_SO_0150	4	1.5	1668125	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP11 2_SO_0150	4	1.5	1668126	03/06/2020	Dark brown gravelly SAND (Possible made ground - brick)
PRAIRIE_AUK_TP11 9_SO_0150	3	1.5	1668127	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP11 9_SO_0250	7	2.5	1668128	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP13 3_SO_0050	2	0.5	1668129	03/06/2020	Dark brown, gravelly SAND
PRAIRIE_AUK_TP15 2_SO_0200	6	2	1668130	03/06/2020	Dark brown gravelly, very sandy CLAY
PRAIRIE_AUK_TP15 3_SO_0110	4	1.1	1668131	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP15 4_SO_0085	3	0.85	1668132	03/06/2020	Dark brown very gravelly SAND
PRAIRIE_AUK_TP15 5_SO_0070	3	0.7	1668133	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP16 0_SO_0075	4	0.75	1668134	03/06/2020	Dark brown gravelly SAND (Possible made ground - brick)
PRAIRIE_AUK_TP17 0_SO_0100	4	1	1668135	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_TP16 4_SO_0070	3	0.7	1668557	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP16 4_SO_0130	5	1.3	1668558	03/06/2020	Dark brown gravelly, slightly clayey SAND
PRAIRIE_AUK_TP18 4_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_TP10 6_SO_0100	3	1	1668560	03/06/2020	Dark brown gravelly, sandy CLAY
PRAIRIE_AUK_TP11 6_SO_0130	3	1.3	1668561	03/06/2020	Dark brown gravelly, clayey SAND
PRAIRIE_AUK_TP11 7_SO_0300	8	3	1668562	03/06/2020	Dark brown sandy, clayey GRAVEL (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP11 8_SO_0120	3	1.2	1668563	03/06/2020	Dark brown gravelly SAND
PRAIRIE_AUK_TP12 7_SO_0030	3	0.3	1668564	03/06/2020	Dark brown gravelly SAND (Possible made ground - brick)
PRAIRIE_AUK_TP12 7A_SO_0280	3	2.8	1668565	03/06/2020	Brown sandy CLAY
PRAIRIE_AUK_TP14 0_SO_0100	3	1	1668566	03/06/2020	Dark brown gravelly, clayey SAND
PRAIRIE_AUK_TP14 1_SO_0200	4	2	1668567	03/06/2020	U/S (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP14 2_SO_0090	3	0.9	1668568	03/06/2020	U/S (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP14 2_SO_0150	4	1.5	1668569	03/06/2020	U/S (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP14 3_SO_0080	3	0.8	1668570	03/06/2020	Dark brown gravelly, clayey SAND



Summary of Chemical Analysis Matrix Descriptions

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-09146,20-09147,20-09149
 Our Ref 4251
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Sample ID	Other ID	Depth	Lab No	Completed	Matrix Description
PRAIRIE_AUK_TP14 3_SO_0160	6	1.6	1668571	03/06/2020	Dark brown gravelly, sandy CLAY
PRAIRIE_AUK_TP15 1_SO_0120	5	1.2	1668572	03/06/2020	Dark brown gravelly, clayey SAND
PRAIRIE_AUK_TP13 9_SO_0110	4	1.1	1668657	03/06/2020	Dark brown very gravelly, sandy CLAY
PRAIRIE_AUK_TP14 4_SO_0080	3	0.8	1668869	03/06/2020	Dark brown very sandy, clayey GRAVEL (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP11 2_SO_0210	7	2.1	1669251	03/06/2020	Dark brown sandy GRAVEL (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP19 4A_SO_0140	1	1.4	1670142	03/06/2020	U/S (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP19 6A_SO_0140	1	1.4	1670143	03/06/2020	U/S (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_TP20 1_SO_0360	1	3.6	1670144	03/06/2020	Dark brown gravelly, clayey SAND
PRAIRIE_AUK_TP19 3_SO_0080	1	0.8	1670502	03/06/2020	U/S (sample matrix outside MCERTS scope of accreditation)
PRAIRIE_AUK_BH10 1_SO_0300	1	3	1675450	03/06/2020	Dark brown sandy CLAY
PRAIRIE_AUK_BH10 7_SO_0300	1	3	1675451	03/06/2020	Dark brown sandy CLAY

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663605
Sample ID	PRAIRIE_AUK_TP132_SO_0130
Depth	1.30
Other ID	4
Sample Type	ES
Sampling Date	02/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	12000
Antimony	DETSC 2301*	1	mg/kg	7.7
Arsenic	DETSC 2301#	0.2	mg/kg	5.2
Barium	DETSC 2301#	1.5	mg/kg	220
Beryllium	DETSC 2301#	0.2	mg/kg	0.7
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	5.4
Cadmium	DETSC 2301#	0.1	mg/kg	0.4
Chromium	DETSC 2301#	0.15	mg/kg	410
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	36
Iron	DETSC 2301	25	mg/kg	140000
Lead	DETSC 2301#	0.3	mg/kg	88
Magnesium	DETSC 2301*	1	mg/kg	41000
Manganese	DETSC 2301#	20	mg/kg	18000
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	3.9
Nickel	DETSC 2301#	1	mg/kg	17
Silicon	DETSC 2301*	10	mg/kg	42000
Vanadium	DETSC 2301#	0.8	mg/kg	430
Zinc	DETSC 2301#	1	mg/kg	130
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	12.2
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.7
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.0
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	17
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663605
Sample ID	PRAIRIE_AUK_TP132_SO_0130
Depth	1.30
Other ID	4
Sample Type	ES
Sampling Date	02/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	4.9
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	43
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	48
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	1.1
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	1.1
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	1.9
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	7.7
Aromatic C5-C35	DETSC 3072*	10	mg/kg	12
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	60
EPH (C10-C40)	DETSC 3311#	10	mg/kg	290
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.08
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.09
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.6
Anthracene	DETSC 3303	0.03	mg/kg	0.08
Fluoranthene	DETSC 3303#	0.03	mg/kg	1.4
Pyrene	DETSC 3303#	0.03	mg/kg	0.91
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.24
Chrysene	DETSC 3303	0.03	mg/kg	0.44
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.44
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.18
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.14
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.14



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663605
Sample ID	PRAIRIE_AUK_TP132_SO_0130
Depth	1.30
Other ID	4
Sample Type	ES
Sampling Date	02/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.04
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.19
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	6.0



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663605
Sample ID	PRAIRIE_AUK_TP132_SO_0130
Depth	1.30
Other ID	4
Sample Type	ES
Sampling Date	02/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663606
Sample ID	PRAIRIE_AUK_TP131_SO_0180
Depth	1.80
Other ID	5
Sample Type	ES
Sampling Date	02/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	15000
Antimony	DETSC 2301*	1	mg/kg	9.1
Arsenic	DETSC 2301#	0.2	mg/kg	13
Barium	DETSC 2301#	1.5	mg/kg	1300
Beryllium	DETSC 2301#	0.2	mg/kg	1.4
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.3
Cadmium	DETSC 2301#	0.1	mg/kg	0.3
Chromium	DETSC 2301#	0.15	mg/kg	620
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	100
Iron	DETSC 2301	25	mg/kg	99000
Lead	DETSC 2301#	0.3	mg/kg	46
Magnesium	DETSC 2301*	1	mg/kg	33000
Manganese	DETSC 2301#	20	mg/kg	17000
Mercury	DETSC 2325#	0.05	mg/kg	0.07
Molybdenum	DETSC 2301#	0.4	mg/kg	1.5
Nickel	DETSC 2301#	1	mg/kg	12
Silicon	DETSC 2301*	10	mg/kg	46000
Vanadium	DETSC 2301#	0.8	mg/kg	3300
Zinc	DETSC 2301#	1	mg/kg	56
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	12.1
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.4
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.6
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	24
Sulphur (free)	DETSC 3049#	0.75	mg/kg	1.9



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663606
Sample ID	PRAIRIE_AUK_TP131_SO_0180
Depth	1.80
Other ID	5
Sample Type	ES
Sampling Date	02/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	11
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	12
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	12
EPH (C10-C40)	DETSC 3311#	10	mg/kg	68
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.42
Anthracene	DETSC 3303	0.03	mg/kg	0.08
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.97
Pyrene	DETSC 3303#	0.03	mg/kg	0.74
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.33
Chrysene	DETSC 3303	0.03	mg/kg	0.40
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.45
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.18
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.22
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.13



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663606
Sample ID	PRAIRIE_AUK_TP131_SO_0180
Depth	1.80
Other ID	5
Sample Type	ES
Sampling Date	02/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.04
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.16
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	4.1



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663606
Sample ID	PRAIRIE_AUK_TP131_SO_0180
Depth	1.80
Other ID	5
Sample Type	ES
Sampling Date	02/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663734
Sample ID	PRAIRIE_AUK_TP101_SO_0100
Depth	1.00
Other ID	5
Sample Type	ES
Sampling Date	01/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	0.001
Metals				
Aluminium	DETSC 2301*	1	mg/kg	36000
Antimony	DETSC 2301*	1	mg/kg	1.4
Arsenic	DETSC 2301#	0.2	mg/kg	13
Barium	DETSC 2301#	1.5	mg/kg	390
Beryllium	DETSC 2301#	0.2	mg/kg	4.4
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	3.1
Cadmium	DETSC 2301#	0.1	mg/kg	0.4
Chromium	DETSC 2301#	0.15	mg/kg	30
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	55
Iron	DETSC 2301	25	mg/kg	18000
Lead	DETSC 2301#	0.3	mg/kg	330
Magnesium	DETSC 2301*	1	mg/kg	23000
Manganese	DETSC 2301#	20	mg/kg	2900
Mercury	DETSC 2325#	0.05	mg/kg	0.25
Molybdenum	DETSC 2301#	0.4	mg/kg	1.0
Nickel	DETSC 2301#	1	mg/kg	9.7
Silicon	DETSC 2301*	10	mg/kg	67000
Vanadium	DETSC 2301#	0.8	mg/kg	74
Zinc	DETSC 2301#	1	mg/kg	170
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.0
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.6
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	2.4
Organic matter	DETSC 2002#	0.1	%	4.5
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	850
Sulphur (free)	DETSC 3049#	0.75	mg/kg	120

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663734
Sample ID	PRAIRIE_AUK_TP101_SO_0100
Depth	1.00
Other ID	5
Sample Type	ES
Sampling Date	01/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	19
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	38
Aromatic C5-C35	DETSC 3072*	10	mg/kg	58
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	58
EPH (C10-C40)	DETSC 3311#	10	mg/kg	1100
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.09
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.05
Acenaphthene	DETSC 3303#	0.03	mg/kg	1.4
Fluorene	DETSC 3303	0.03	mg/kg	1.4
Phenanthrene	DETSC 3303#	0.03	mg/kg	22
Anthracene	DETSC 3303	0.03	mg/kg	2.7
Fluoranthene	DETSC 3303#	0.03	mg/kg	37
Pyrene	DETSC 3303#	0.03	mg/kg	31
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	7.8
Chrysene	DETSC 3303	0.03	mg/kg	7.1
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	6.7
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	2.6
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	3.7
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	2.0



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663734
Sample ID	PRAIRIE_AUK_TP101_SO_0100
Depth	1.00
Other ID	5
Sample Type	ES
Sampling Date	01/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.55
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	2.3
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	130



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663734
Sample ID	PRAIRIE_AUK_TP101_SO_0100
Depth	1.00
Other ID	5
Sample Type	ES
Sampling Date	01/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663735
Sample ID	PRAIRIE_AUK_TP101_SO_0220
Depth	2.20
Other ID	9
Sample Type	ES
Sampling Date	01/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	32000
Antimony	DETSC 2301*	1	mg/kg	1.5
Arsenic	DETSC 2301#	0.2	mg/kg	18
Barium	DETSC 2301#	1.5	mg/kg	280
Beryllium	DETSC 2301#	0.2	mg/kg	4.0
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	4.3
Cadmium	DETSC 2301#	0.1	mg/kg	0.5
Chromium	DETSC 2301#	0.15	mg/kg	39
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	54
Iron	DETSC 2301	25	mg/kg	31000
Lead	DETSC 2301#	0.3	mg/kg	89
Magnesium	DETSC 2301*	1	mg/kg	14000
Manganese	DETSC 2301#	20	mg/kg	1500
Mercury	DETSC 2325#	0.05	mg/kg	0.24
Molybdenum	DETSC 2301#	0.4	mg/kg	1.6
Nickel	DETSC 2301#	1	mg/kg	23
Silicon	DETSC 2301*	10	mg/kg	120000
Vanadium	DETSC 2301#	0.8	mg/kg	91
Zinc	DETSC 2301#	1	mg/kg	200
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.1
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.2
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.7
Organic matter	DETSC 2002#	0.1	%	2.8
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	590
Sulphur (free)	DETSC 3049#	0.75	mg/kg	16



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663735
Sample ID	PRAIRIE_AUK_TP101_SO_0220
Depth	2.20
Other ID	9
Sample Type	ES
Sampling Date	01/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	2.7
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	3.6
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	20
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	27
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	1.5
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	16
Aromatic C5-C35	DETSC 3072*	10	mg/kg	18
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	45
EPH (C10-C40)	DETSC 3311#	10	mg/kg	110
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.08
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.15
Fluorene	DETSC 3303	0.03	mg/kg	0.11
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.1
Anthracene	DETSC 3303	0.03	mg/kg	0.21
Fluoranthene	DETSC 3303#	0.03	mg/kg	1.4
Pyrene	DETSC 3303#	0.03	mg/kg	1.0
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.39
Chrysene	DETSC 3303	0.03	mg/kg	0.49
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.36
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.15
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.23
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.10



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663735
Sample ID	PRAIRIE_AUK_TP101_SO_0220
Depth	2.20
Other ID	9
Sample Type	ES
Sampling Date	01/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.11
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	5.9



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663735
Sample ID	PRAIRIE_AUK_TP101_SO_0220
Depth	2.20
Other ID	9
Sample Type	ES
Sampling Date	01/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663736
Sample ID	PRAIRIE_AUK_TP104_SO_0150
Depth	1.50
Other ID	5
Sample Type	ES
Sampling Date	01/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	31000
Antimony	DETSC 2301*	1	mg/kg	3.4
Arsenic	DETSC 2301#	0.2	mg/kg	23
Barium	DETSC 2301#	1.5	mg/kg	390
Beryllium	DETSC 2301#	0.2	mg/kg	3.5
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	3.4
Cadmium	DETSC 2301#	0.1	mg/kg	0.5
Chromium	DETSC 2301#	0.15	mg/kg	120
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	61
Iron	DETSC 2301	25	mg/kg	56000
Lead	DETSC 2301#	0.3	mg/kg	110
Magnesium	DETSC 2301*	1	mg/kg	25000
Manganese	DETSC 2301#	20	mg/kg	7700
Mercury	DETSC 2325#	0.05	mg/kg	0.34
Molybdenum	DETSC 2301#	0.4	mg/kg	1.4
Nickel	DETSC 2301#	1	mg/kg	21
Silicon	DETSC 2301*	10	mg/kg	64000
Vanadium	DETSC 2301#	0.8	mg/kg	290
Zinc	DETSC 2301#	1	mg/kg	180
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.9
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.3
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	2.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	490
Sulphur (free)	DETSC 3049#	0.75	mg/kg	5.0



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663736
Sample ID	PRAIRIE_AUK_TP104_SO_0150
Depth	1.50
Other ID	5
Sample Type	ES
Sampling Date	01/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	120
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.05
Fluorene	DETSC 3303	0.03	mg/kg	0.06
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.1
Anthracene	DETSC 3303	0.03	mg/kg	0.14
Fluoranthene	DETSC 3303#	0.03	mg/kg	1.9
Pyrene	DETSC 3303#	0.03	mg/kg	1.6
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.66
Chrysene	DETSC 3303	0.03	mg/kg	0.79
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.75
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.31
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.43
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.20



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663736
Sample ID	PRAIRIE_AUK_TP104_SO_0150
Depth	1.50
Other ID	5
Sample Type	ES
Sampling Date	01/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.06
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.27
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	8.3



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663736
Sample ID	PRAIRIE_AUK_TP104_SO_0150
Depth	1.50
Other ID	5
Sample Type	ES
Sampling Date	01/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663737
Sample ID	PRAIRIE_AUK_TP105_SO_0250
Depth	2.50
Other ID	11
Sample Type	ES
Sampling Date	01/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	16000
Antimony	DETSC 2301*	1	mg/kg	2.0
Arsenic	DETSC 2301#	0.2	mg/kg	14
Barium	DETSC 2301#	1.5	mg/kg	400
Beryllium	DETSC 2301#	0.2	mg/kg	1.7
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.4
Chromium	DETSC 2301#	0.15	mg/kg	38
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	44
Iron	DETSC 2301	25	mg/kg	46000
Lead	DETSC 2301#	0.3	mg/kg	45
Magnesium	DETSC 2301*	1	mg/kg	7900
Manganese	DETSC 2301#	20	mg/kg	1100
Mercury	DETSC 2325#	0.05	mg/kg	0.09
Molybdenum	DETSC 2301#	0.4	mg/kg	1.1
Nickel	DETSC 2301#	1	mg/kg	38
Silicon	DETSC 2301*	10	mg/kg	180000
Vanadium	DETSC 2301#	0.8	mg/kg	48
Zinc	DETSC 2301#	1	mg/kg	160
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	9.1
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.6
Organic matter	DETSC 2002#	0.1	%	1.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	770
Sulphur (free)	DETSC 3049#	0.75	mg/kg	8.0



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663737
Sample ID	PRAIRIE_AUK_TP105_SO_0250
Depth	2.50
Other ID	11
Sample Type	ES
Sampling Date	01/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	2.1
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	3.1
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	7.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	9.7
Aromatic C5-C35	DETSC 3072*	10	mg/kg	23
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	23
EPH (C10-C40)	DETSC 3311#	10	mg/kg	78
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.06
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.62
Fluorene	DETSC 3303	0.03	mg/kg	0.57
Phenanthrene	DETSC 3303#	0.03	mg/kg	3.1
Anthracene	DETSC 3303	0.03	mg/kg	0.53
Fluoranthene	DETSC 3303#	0.03	mg/kg	3.0
Pyrene	DETSC 3303#	0.03	mg/kg	2.3
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.74
Chrysene	DETSC 3303	0.03	mg/kg	0.85
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.92
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.30
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.55
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.28



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663737
Sample ID	PRAIRIE_AUK_TP105_SO_0250
Depth	2.50
Other ID	11
Sample Type	ES
Sampling Date	01/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.08
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.35
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	14



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663737
Sample ID	PRAIRIE_AUK_TP105_SO_0250
Depth	2.50
Other ID	11
Sample Type	ES
Sampling Date	01/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663978
Sample ID	PRAIRIE_AUK_BH104_SO_0550
Depth	5.50
Other ID	1
Sample Type	ES
Sampling Date	03/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	9700
Antimony	DETSC 2301*	1	mg/kg	< 1.0
Arsenic	DETSC 2301#	0.2	mg/kg	5.9
Barium	DETSC 2301#	1.5	mg/kg	120
Beryllium	DETSC 2301#	0.2	mg/kg	0.7
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.1
Cadmium	DETSC 2301#	0.1	mg/kg	0.1
Chromium	DETSC 2301#	0.15	mg/kg	20
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	19
Iron	DETSC 2301	25	mg/kg	24000
Lead	DETSC 2301#	0.3	mg/kg	11
Magnesium	DETSC 2301*	1	mg/kg	11000
Manganese	DETSC 2301#	20	mg/kg	450
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	0.8
Nickel	DETSC 2301#	1	mg/kg	23
Silicon	DETSC 2301*	10	mg/kg	120000
Vanadium	DETSC 2301#	0.8	mg/kg	28
Zinc	DETSC 2301#	1	mg/kg	48
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	8.1
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.0
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	100
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663978
Sample ID	PRAIRIE_AUK_BH104_SO_0550
Depth	5.50
Other ID	1
Sample Type	ES
Sampling Date	03/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	< 10
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663978
Sample ID	PRAIRIE_AUK_BH104_SO_0550
Depth	5.50
Other ID	1
Sample Type	ES
Sampling Date	03/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663978
Sample ID	PRAIRIE_AUK_BH104_SO_0550
Depth	5.50
Other ID	1
Sample Type	ES
Sampling Date	03/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665133
Sample ID	PRAIRIE_AUK_TP172_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	0.001
Metals				
Aluminium	DETSC 2301*	1	mg/kg	12000
Antimony	DETSC 2301*	1	mg/kg	1.9
Arsenic	DETSC 2301#	0.2	mg/kg	20
Barium	DETSC 2301#	1.5	mg/kg	650
Beryllium	DETSC 2301#	0.2	mg/kg	1.5
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	7.7
Cadmium	DETSC 2301#	0.1	mg/kg	1.4
Chromium	DETSC 2301#	0.15	mg/kg	19
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	95
Iron	DETSC 2301	25	mg/kg	34000
Lead	DETSC 2301#	0.3	mg/kg	120
Magnesium	DETSC 2301*	1	mg/kg	8800
Manganese	DETSC 2301#	20	mg/kg	38000
Mercury	DETSC 2325#	0.05	mg/kg	4.1
Molybdenum	DETSC 2301#	0.4	mg/kg	2.7
Nickel	DETSC 2301#	1	mg/kg	25
Silicon	DETSC 2301*	10	mg/kg	80000
Vanadium	DETSC 2301#	0.8	mg/kg	39
Zinc	DETSC 2301#	1	mg/kg	280
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.0
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	52
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.5
Thiocyanate	DETSC 2130#	0.6	mg/kg	3.6
Organic matter	DETSC 2002#	0.1	%	4.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	450
Sulphur (free)	DETSC 3049#	0.75	mg/kg	15

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665133
Sample ID	PRAIRIE_AUK_TP172_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	2.3
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	21
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	33
Aromatic C5-C35	DETSC 3072*	10	mg/kg	57
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	57
EPH (C10-C40)	DETSC 3311#	10	mg/kg	360
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.35
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.92
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.99
Fluorene	DETSC 3303	0.03	mg/kg	1.6
Phenanthrene	DETSC 3303#	0.03	mg/kg	8.0
Anthracene	DETSC 3303	0.03	mg/kg	8.0
Fluoranthene	DETSC 3303#	0.03	mg/kg	12
Pyrene	DETSC 3303#	0.03	mg/kg	11
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	6.5
Chrysene	DETSC 3303	0.03	mg/kg	4.8
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	5.6
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	2.8
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	3.9
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	2.4



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665133
Sample ID	PRAIRIE_AUK_TP172_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.61
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	2.9
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	72



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665133
Sample ID	PRAIRIE_AUK_TP172_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665134
Sample ID	PRAIRIE_AUK_TP175_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	18000
Antimony	DETSC 2301*	1	mg/kg	3.7
Arsenic	DETSC 2301#	0.2	mg/kg	13
Barium	DETSC 2301#	1.5	mg/kg	350
Beryllium	DETSC 2301#	0.2	mg/kg	2.8
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	3.3
Cadmium	DETSC 2301#	0.1	mg/kg	0.6
Chromium	DETSC 2301#	0.15	mg/kg	130
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	54
Iron	DETSC 2301	25	mg/kg	57000
Lead	DETSC 2301#	0.3	mg/kg	1500
Magnesium	DETSC 2301*	1	mg/kg	12000
Manganese	DETSC 2301#	20	mg/kg	8400
Mercury	DETSC 2325#	0.05	mg/kg	0.37
Molybdenum	DETSC 2301#	0.4	mg/kg	1.8
Nickel	DETSC 2301#	1	mg/kg	18
Silicon	DETSC 2301*	10	mg/kg	79000
Vanadium	DETSC 2301#	0.8	mg/kg	280
Zinc	DETSC 2301#	1	mg/kg	170
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.4
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	6.7
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.9
Organic matter	DETSC 2002#	0.1	%	3.1
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	390
Sulphur (free)	DETSC 3049#	0.75	mg/kg	1000



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665134
Sample ID	PRAIRIE_AUK_TP175_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	0.13
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	2.1
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	93
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	350
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	67
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	510
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	0.15
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	0.22
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	1.3
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	250
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	2100
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	830
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	210
Aromatic C5-C35	DETSC 3072*	10	mg/kg	3400
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	3900
EPH (C10-C40)	DETSC 3311#	10	mg/kg	10000
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	24
Acenaphthylene	DETSC 3303#	0.03	mg/kg	19
Acenaphthene	DETSC 3303#	0.03	mg/kg	98
Fluorene	DETSC 3303	0.03	mg/kg	74
Phenanthrene	DETSC 3303#	0.03	mg/kg	98
Anthracene	DETSC 3303	0.03	mg/kg	30
Fluoranthene	DETSC 3303#	0.03	mg/kg	41
Pyrene	DETSC 3303#	0.03	mg/kg	30
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	13
Chrysene	DETSC 3303	0.03	mg/kg	12
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	12
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	59
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	120
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	53



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665134
Sample ID	PRAIRIE_AUK_TP175_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	15
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	64
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	760



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665134
Sample ID	PRAIRIE_AUK_TP175_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	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	5.3

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665135
Sample ID	PRAIRIE_AUK_TP175_SO_0180
Depth	1.80
Other ID	6
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	14000
Antimony	DETSC 2301*	1	mg/kg	1.2
Arsenic	DETSC 2301#	0.2	mg/kg	8.4
Barium	DETSC 2301#	1.5	mg/kg	340
Beryllium	DETSC 2301#	0.2	mg/kg	1.2
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.8
Cadmium	DETSC 2301#	0.1	mg/kg	0.2
Chromium	DETSC 2301#	0.15	mg/kg	28
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	31
Iron	DETSC 2301	25	mg/kg	35000
Lead	DETSC 2301#	0.3	mg/kg	30
Magnesium	DETSC 2301*	1	mg/kg	6000
Manganese	DETSC 2301#	20	mg/kg	900
Mercury	DETSC 2325#	0.05	mg/kg	0.19
Molybdenum	DETSC 2301#	0.4	mg/kg	< 0.4
Nickel	DETSC 2301#	1	mg/kg	34
Silicon	DETSC 2301*	10	mg/kg	180000
Vanadium	DETSC 2301#	0.8	mg/kg	33
Zinc	DETSC 2301#	1	mg/kg	83
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	8.4
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	2.0
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	3.2
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	35
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665135
Sample ID	PRAIRIE_AUK_TP175_SO_0180
Depth	1.80
Other ID	6
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	0.37
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	7.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	31
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	39
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	0.48
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	0.24
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	0.64
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	85
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	310
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	160
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	96
Aromatic C5-C35	DETSC 3072*	10	mg/kg	650
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	690
EPH (C10-C40)	DETSC 3311#	10	mg/kg	1200
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	440
Acenaphthylene	DETSC 3303#	0.03	mg/kg	31
Acenaphthene	DETSC 3303#	0.03	mg/kg	340
Fluorene	DETSC 3303	0.03	mg/kg	220
Phenanthrene	DETSC 3303#	0.03	mg/kg	290
Anthracene	DETSC 3303	0.03	mg/kg	53
Fluoranthene	DETSC 3303#	0.03	mg/kg	87
Pyrene	DETSC 3303#	0.03	mg/kg	62
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	27
Chrysene	DETSC 3303	0.03	mg/kg	23
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	23
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	10
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	20
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	8.6



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665135
Sample ID	PRAIRIE_AUK_TP175_SO_0180
Depth	1.80
Other ID	6
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	2.5
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	10
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	1700



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665135
Sample ID	PRAIRIE_AUK_TP175_SO_0180
Depth	1.80
Other ID	6
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665136
Sample ID	PRAIRIE_AUK_TP178_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	16000
Antimony	DETSC 2301*	1	mg/kg	2.4
Arsenic	DETSC 2301#	0.2	mg/kg	18
Barium	DETSC 2301#	1.5	mg/kg	250
Beryllium	DETSC 2301#	0.2	mg/kg	2.2
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.5
Cadmium	DETSC 2301#	0.1	mg/kg	0.4
Chromium	DETSC 2301#	0.15	mg/kg	18
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	91
Iron	DETSC 2301	25	mg/kg	70000
Lead	DETSC 2301#	0.3	mg/kg	70
Magnesium	DETSC 2301*	1	mg/kg	5900
Manganese	DETSC 2301#	20	mg/kg	670
Mercury	DETSC 2325#	0.05	mg/kg	0.13
Molybdenum	DETSC 2301#	0.4	mg/kg	3.6
Nickel	DETSC 2301#	1	mg/kg	41
Silicon	DETSC 2301*	10	mg/kg	66000
Vanadium	DETSC 2301#	0.8	mg/kg	96
Zinc	DETSC 2301#	1	mg/kg	160
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	26
pH	DETSC 2008#		pH	8.0
Calorific Value	DETSC 5008	1	MJ/kg	13.5
Cyanide, Total	DETSC 2130#	0.1	mg/kg	2.5
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	12
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	61
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665136
Sample ID	PRAIRIE_AUK_TP178_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	< 10
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.06
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.09
Fluorene	DETSC 3303	0.03	mg/kg	0.09
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.12
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.11
Pyrene	DETSC 3303#	0.03	mg/kg	0.08
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.07
Chrysene	DETSC 3303	0.03	mg/kg	0.06
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.06
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.04
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665136
Sample ID	PRAIRIE_AUK_TP178_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	0.76



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665136
Sample ID	PRAIRIE_AUK_TP178_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665137
Sample ID	PRAIRIE_AUK_BH106_SO_0550
Depth	5.50
Other ID	1
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	15000
Antimony	DETSC 2301*	1	mg/kg	1.5
Arsenic	DETSC 2301#	0.2	mg/kg	6.4
Barium	DETSC 2301#	1.5	mg/kg	160
Beryllium	DETSC 2301#	0.2	mg/kg	1.2
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.1
Cadmium	DETSC 2301#	0.1	mg/kg	0.2
Chromium	DETSC 2301#	0.15	mg/kg	52
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	32
Iron	DETSC 2301	25	mg/kg	32000
Lead	DETSC 2301#	0.3	mg/kg	20
Magnesium	DETSC 2301*	1	mg/kg	14000
Manganese	DETSC 2301#	20	mg/kg	1200
Mercury	DETSC 2325#	0.05	mg/kg	0.78
Molybdenum	DETSC 2301#	0.4	mg/kg	0.6
Nickel	DETSC 2301#	1	mg/kg	25
Silicon	DETSC 2301*	10	mg/kg	140000
Vanadium	DETSC 2301#	0.8	mg/kg	150
Zinc	DETSC 2301#	1	mg/kg	69
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.1
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.2
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.9
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	310
Sulphur (free)	DETSC 3049#	0.75	mg/kg	0.92

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665137
Sample ID	PRAIRIE_AUK_BH106_SO_0550
Depth	5.50
Other ID	1
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	< 10
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.11
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.13
Fluorene	DETSC 3303	0.03	mg/kg	0.12
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.22
Anthracene	DETSC 3303	0.03	mg/kg	0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.13
Pyrene	DETSC 3303#	0.03	mg/kg	0.10
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.05
Chrysene	DETSC 3303	0.03	mg/kg	0.05
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.05
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665137
Sample ID	PRAIRIE_AUK_BH106_SO_0550
Depth	5.50
Other ID	1
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	0.97



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665137
Sample ID	PRAIRIE_AUK_BH106_SO_0550
Depth	5.50
Other ID	1
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665138
Sample ID	PRAIRIE_AUK_TP107_SO_0180
Depth	1.80
Other ID	6
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	12000
Antimony	DETSC 2301*	1	mg/kg	4.8
Arsenic	DETSC 2301#	0.2	mg/kg	33
Barium	DETSC 2301#	1.5	mg/kg	270
Beryllium	DETSC 2301#	0.2	mg/kg	2.6
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.3
Cadmium	DETSC 2301#	0.1	mg/kg	1.4
Chromium	DETSC 2301#	0.15	mg/kg	90
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	120
Iron	DETSC 2301	25	mg/kg	87000
Lead	DETSC 2301#	0.3	mg/kg	120
Magnesium	DETSC 2301*	1	mg/kg	7400
Manganese	DETSC 2301#	20	mg/kg	3200
Mercury	DETSC 2325#	0.05	mg/kg	0.07
Molybdenum	DETSC 2301#	0.4	mg/kg	4.0
Nickel	DETSC 2301#	1	mg/kg	58
Silicon	DETSC 2301*	10	mg/kg	50000
Vanadium	DETSC 2301#	0.8	mg/kg	280
Zinc	DETSC 2301#	1	mg/kg	350
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	9.7
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	1.6
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	13
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	200
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665138
Sample ID	PRAIRIE_AUK_TP107_SO_0180
Depth	1.80
Other ID	6
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	< 10
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.06
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.04
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.07
Fluorene	DETSC 3303	0.03	mg/kg	0.06
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.42
Anthracene	DETSC 3303	0.03	mg/kg	0.08
Fluoranthene	DETSC 3303#	0.03	mg/kg	1.2
Pyrene	DETSC 3303#	0.03	mg/kg	1.1
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.71
Chrysene	DETSC 3303	0.03	mg/kg	0.66
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	1.0
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.41
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.54
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.31



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665138
Sample ID	PRAIRIE_AUK_TP107_SO_0180
Depth	1.80
Other ID	6
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.10
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.35
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	7.1



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665138
Sample ID	PRAIRIE_AUK_TP107_SO_0180
Depth	1.80
Other ID	6
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665139
Sample ID	PRAIRIE_AUK_TP107_SO_0080
Depth	0.80
Other ID	11
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	12000
Antimony	DETSC 2301*	1	mg/kg	< 1.0
Arsenic	DETSC 2301#	0.2	mg/kg	9.2
Barium	DETSC 2301#	1.5	mg/kg	290
Beryllium	DETSC 2301#	0.2	mg/kg	1.2
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.6
Cadmium	DETSC 2301#	0.1	mg/kg	0.2
Chromium	DETSC 2301#	0.15	mg/kg	25
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	23
Iron	DETSC 2301	25	mg/kg	33000
Lead	DETSC 2301#	0.3	mg/kg	36
Magnesium	DETSC 2301*	1	mg/kg	3800
Manganese	DETSC 2301#	20	mg/kg	440
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	0.7
Nickel	DETSC 2301#	1	mg/kg	30
Silicon	DETSC 2301*	10	mg/kg	190000
Vanadium	DETSC 2301#	0.8	mg/kg	40
Zinc	DETSC 2301#	1	mg/kg	98
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	8.6
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	22
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.2
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	270
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665139
Sample ID	PRAIRIE_AUK_TP107_SO_0080
Depth	0.80
Other ID	11
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	< 10
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.23
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.06
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.14
Fluorene	DETSC 3303	0.03	mg/kg	0.17
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.44
Anthracene	DETSC 3303	0.03	mg/kg	0.07
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.57
Pyrene	DETSC 3303#	0.03	mg/kg	0.46
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.26
Chrysene	DETSC 3303	0.03	mg/kg	0.28
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.32
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.13
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.21
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.10



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665139
Sample ID	PRAIRIE_AUK_TP107_SO_0080
Depth	0.80
Other ID	11
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.11
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	3.5



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665139
Sample ID	PRAIRIE_AUK_TP107_SO_0080
Depth	0.80
Other ID	11
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665140
Sample ID	PRAIRIE_AUK_TP108_SO_0100
Depth	1.00
Other ID	5
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	0.001
Metals				
Aluminium	DETSC 2301*	1	mg/kg	23000
Antimony	DETSC 2301*	1	mg/kg	5.3
Arsenic	DETSC 2301#	0.2	mg/kg	11
Barium	DETSC 2301#	1.5	mg/kg	650
Beryllium	DETSC 2301#	0.2	mg/kg	2.3
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.5
Cadmium	DETSC 2301#	0.1	mg/kg	1.5
Chromium	DETSC 2301#	0.15	mg/kg	340
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	40
Iron	DETSC 2301	25	mg/kg	57000
Lead	DETSC 2301#	0.3	mg/kg	120
Magnesium	DETSC 2301*	1	mg/kg	21000
Manganese	DETSC 2301#	20	mg/kg	14000
Mercury	DETSC 2325#	0.05	mg/kg	0.06
Molybdenum	DETSC 2301#	0.4	mg/kg	3.5
Nickel	DETSC 2301#	1	mg/kg	16
Silicon	DETSC 2301*	10	mg/kg	54000
Vanadium	DETSC 2301#	0.8	mg/kg	950
Zinc	DETSC 2301#	1	mg/kg	230
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	8.1
pH	DETSC 2008#		pH	11.7
Calorific Value	DETSC 5008	1	MJ/kg	< 1.0
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.5
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	330
Sulphur (free)	DETSC 3049#	0.75	mg/kg	5.3



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665140
Sample ID	PRAIRIE_AUK_TP108_SO_0100
Depth	1.00
Other ID	5
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	31
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	32
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	5.1
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	67
Aromatic C5-C35	DETSC 3072*	10	mg/kg	72
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	100
EPH (C10-C40)	DETSC 3311#	10	mg/kg	420
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.06
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.15
Fluorene	DETSC 3303	0.03	mg/kg	0.13
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.3
Anthracene	DETSC 3303	0.03	mg/kg	0.30
Fluoranthene	DETSC 3303#	0.03	mg/kg	4.1
Pyrene	DETSC 3303#	0.03	mg/kg	4.2
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	3.3
Chrysene	DETSC 3303	0.03	mg/kg	2.1
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	4.0
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	1.8
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	2.4
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	1.1



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665140
Sample ID	PRAIRIE_AUK_TP108_SO_0100
Depth	1.00
Other ID	5
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.28
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	1.3
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	26



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665140
Sample ID	PRAIRIE_AUK_TP108_SO_0100
Depth	1.00
Other ID	5
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665141
Sample ID	PRAIRIE_AUK_TP108_SO_0200
Depth	2.00
Other ID	8
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	0.002
Metals				
Aluminium	DETSC 2301*	1	mg/kg	10000
Antimony	DETSC 2301*	1	mg/kg	11
Arsenic	DETSC 2301#	0.2	mg/kg	31
Barium	DETSC 2301#	1.5	mg/kg	830
Beryllium	DETSC 2301#	0.2	mg/kg	1.0
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.9
Cadmium	DETSC 2301#	0.1	mg/kg	5.8
Chromium	DETSC 2301#	0.15	mg/kg	620
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	89
Iron	DETSC 2301	25	mg/kg	100000
Lead	DETSC 2301#	0.3	mg/kg	320
Magnesium	DETSC 2301*	1	mg/kg	23000
Manganese	DETSC 2301#	20	mg/kg	16000
Mercury	DETSC 2325#	0.05	mg/kg	0.06
Molybdenum	DETSC 2301#	0.4	mg/kg	6.7
Nickel	DETSC 2301#	1	mg/kg	40
Silicon	DETSC 2301*	10	mg/kg	49000
Vanadium	DETSC 2301#	0.8	mg/kg	1600
Zinc	DETSC 2301#	1	mg/kg	520
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	4.8
pH	DETSC 2008#		pH	11.9
Calorific Value	DETSC 5008	1	MJ/kg	< 1.0
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.7
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.9
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	160
Sulphur (free)	DETSC 3049#	0.75	mg/kg	3.5

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665141
Sample ID	PRAIRIE_AUK_TP108_SO_0200
Depth	2.00
Other ID	8
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	13
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	14
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	1.6
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	7.9
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	36
Aromatic C5-C35	DETSC 3072*	10	mg/kg	46
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	60
EPH (C10-C40)	DETSC 3311#	10	mg/kg	180
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.20
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.56
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.48
Fluorene	DETSC 3303	0.03	mg/kg	0.94
Phenanthrene	DETSC 3303#	0.03	mg/kg	4.2
Anthracene	DETSC 3303	0.03	mg/kg	1.9
Fluoranthene	DETSC 3303#	0.03	mg/kg	9.7
Pyrene	DETSC 3303#	0.03	mg/kg	8.6
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	7.8
Chrysene	DETSC 3303	0.03	mg/kg	4.8
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	12
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	6.2
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	8.4
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	3.1



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665141
Sample ID	PRAIRIE_AUK_TP108_SO_0200
Depth	2.00
Other ID	8
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.72
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	2.9
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	73



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665141
Sample ID	PRAIRIE_AUK_TP108_SO_0200
Depth	2.00
Other ID	8
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665142
Sample ID	PRAIRIE_AUK_TP113_SO_0130
Depth	1.30
Other ID	5
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	0.006
Metals				
Aluminium	DETSC 2301*	1	mg/kg	21000
Antimony	DETSC 2301*	1	mg/kg	4.5
Arsenic	DETSC 2301#	0.2	mg/kg	18
Barium	DETSC 2301#	1.5	mg/kg	320
Beryllium	DETSC 2301#	0.2	mg/kg	2.7
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	4.3
Cadmium	DETSC 2301#	0.1	mg/kg	1.3
Chromium	DETSC 2301#	0.15	mg/kg	150
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	72
Iron	DETSC 2301	25	mg/kg	75000
Lead	DETSC 2301#	0.3	mg/kg	140
Magnesium	DETSC 2301*	1	mg/kg	18000
Manganese	DETSC 2301#	20	mg/kg	7800
Mercury	DETSC 2325#	0.05	mg/kg	0.08
Molybdenum	DETSC 2301#	0.4	mg/kg	2.3
Nickel	DETSC 2301#	1	mg/kg	24
Silicon	DETSC 2301*	10	mg/kg	63000
Vanadium	DETSC 2301#	0.8	mg/kg	280
Zinc	DETSC 2301#	1	mg/kg	280
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.3
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	5.9
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	4.0
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	320
Sulphur (free)	DETSC 3049#	0.75	mg/kg	2.3



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665142
Sample ID	PRAIRIE_AUK_TP113_SO_0130
Depth	1.30
Other ID	5
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	46
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	46
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	0.8
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	7.1
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	76
Aromatic C5-C35	DETSC 3072*	10	mg/kg	84
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	130
EPH (C10-C40)	DETSC 3311#	10	mg/kg	230
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.21
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.15
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.13
Fluorene	DETSC 3303	0.03	mg/kg	0.23
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.8
Anthracene	DETSC 3303	0.03	mg/kg	0.52
Fluoranthene	DETSC 3303#	0.03	mg/kg	5.0
Pyrene	DETSC 3303#	0.03	mg/kg	6.0
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	3.0
Chrysene	DETSC 3303	0.03	mg/kg	2.3
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	3.1
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	1.2
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	2.3
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.79



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665142
Sample ID	PRAIRIE_AUK_TP113_SO_0130
Depth	1.30
Other ID	5
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.23
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	1.0
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	28



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665142
Sample ID	PRAIRIE_AUK_TP113_SO_0130
Depth	1.30
Other ID	5
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665286
Sample ID	PRAIRIE_AUK_BH103_SO_0250
Depth	2.50
Other ID	1
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	14000
Antimony	DETSC 2301*	1	mg/kg	1.5
Arsenic	DETSC 2301#	0.2	mg/kg	11
Barium	DETSC 2301#	1.5	mg/kg	270
Beryllium	DETSC 2301#	0.2	mg/kg	1.4
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.7
Cadmium	DETSC 2301#	0.1	mg/kg	0.3
Chromium	DETSC 2301#	0.15	mg/kg	30
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	39
Iron	DETSC 2301	25	mg/kg	42000
Lead	DETSC 2301#	0.3	mg/kg	50
Magnesium	DETSC 2301*	1	mg/kg	9500
Manganese	DETSC 2301#	20	mg/kg	1200
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	0.8
Nickel	DETSC 2301#	1	mg/kg	34
Silicon	DETSC 2301*	10	mg/kg	160000
Vanadium	DETSC 2301#	0.8	mg/kg	47
Zinc	DETSC 2301#	1	mg/kg	130
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	9.7
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.5
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	3.7
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	470
Sulphur (free)	DETSC 3049#	0.75	mg/kg	3.4

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665286
Sample ID	PRAIRIE_AUK_BH103_SO_0250
Depth	2.50
Other ID	1
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	< 10
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.29
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	0.04
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.12
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.10
Pyrene	DETSC 3303#	0.03	mg/kg	0.07
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.03
Chrysene	DETSC 3303	0.03	mg/kg	0.04
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665286
Sample ID	PRAIRIE_AUK_BH103_SO_0250
Depth	2.50
Other ID	1
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	0.62



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665286
Sample ID	PRAIRIE_AUK_BH103_SO_0250
Depth	2.50
Other ID	1
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665288
Sample ID	PRAIRIE_AUK_TP115_SO_0190
Depth	1.90
Other ID	6
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	35000
Antimony	DETSC 2301*	1	mg/kg	1.4
Arsenic	DETSC 2301#	0.2	mg/kg	4.2
Barium	DETSC 2301#	1.5	mg/kg	370
Beryllium	DETSC 2301#	0.2	mg/kg	3.9
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	4.4
Cadmium	DETSC 2301#	0.1	mg/kg	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg	66
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	10
Iron	DETSC 2301	25	mg/kg	14000
Lead	DETSC 2301#	0.3	mg/kg	4.6
Magnesium	DETSC 2301*	1	mg/kg	33000
Manganese	DETSC 2301#	20	mg/kg	4100
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	0.4
Nickel	DETSC 2301#	1	mg/kg	2.9
Silicon	DETSC 2301*	10	mg/kg	77000
Vanadium	DETSC 2301#	0.8	mg/kg	230
Zinc	DETSC 2301#	1	mg/kg	33
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.4
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	1.6
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.8
Organic matter	DETSC 2002#	0.1	%	0.8
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	400
Sulphur (free)	DETSC 3049#	0.75	mg/kg	4.5



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665288
Sample ID	PRAIRIE_AUK_TP115_SO_0190
Depth	1.90
Other ID	6
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	< 10
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.05
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.11
Pyrene	DETSC 3303#	0.03	mg/kg	0.09
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.05
Chrysene	DETSC 3303	0.03	mg/kg	0.05
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.05
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665288
Sample ID	PRAIRIE_AUK_TP115_SO_0190
Depth	1.90
Other ID	6
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	0.39



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665288
Sample ID	PRAIRIE_AUK_TP115_SO_0190
Depth	1.90
Other ID	6
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665290
Sample ID	PRAIRIE_AUK_TP122_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	0.002
Metals				
Aluminium	DETSC 2301*	1	mg/kg	10000
Antimony	DETSC 2301*	1	mg/kg	6.6
Arsenic	DETSC 2301#	0.2	mg/kg	10
Barium	DETSC 2301#	1.5	mg/kg	160
Beryllium	DETSC 2301#	0.2	mg/kg	1.2
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.0
Cadmium	DETSC 2301#	0.1	mg/kg	2.6
Chromium	DETSC 2301#	0.15	mg/kg	85
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	170
Iron	DETSC 2301	25	mg/kg	180000
Lead	DETSC 2301#	0.3	mg/kg	91
Magnesium	DETSC 2301*	1	mg/kg	6000
Manganese	DETSC 2301#	20	mg/kg	2400
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	12
Nickel	DETSC 2301#	1	mg/kg	65
Silicon	DETSC 2301*	10	mg/kg	39000
Vanadium	DETSC 2301#	0.8	mg/kg	71
Zinc	DETSC 2301#	1	mg/kg	3000
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	2.1
pH	DETSC 2008#		pH	11.2
Calorific Value	DETSC 5008	1	MJ/kg	< 1.0
Cyanide, Total	DETSC 2130#	0.1	mg/kg	9.5
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.5
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	230
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665290
Sample ID	PRAIRIE_AUK_TP122_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	24
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	24
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	24
EPH (C10-C40)	DETSC 3311#	10	mg/kg	120
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.08
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.11
Pyrene	DETSC 3303#	0.03	mg/kg	0.09
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.04
Chrysene	DETSC 3303	0.03	mg/kg	0.06
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.06
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665290
Sample ID	PRAIRIE_AUK_TP122_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	0.44



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665290
Sample ID	PRAIRIE_AUK_TP122_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665291
Sample ID	PRAIRIE_AUK_TP123_SO_0060
Depth	0.60
Other ID	3
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	16000
Antimony	DETSC 2301*	1	mg/kg	5.0
Arsenic	DETSC 2301#	0.2	mg/kg	14
Barium	DETSC 2301#	1.5	mg/kg	240
Beryllium	DETSC 2301#	0.2	mg/kg	1.2
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	3.7
Cadmium	DETSC 2301#	0.1	mg/kg	0.5
Chromium	DETSC 2301#	0.15	mg/kg	190
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	68
Iron	DETSC 2301	25	mg/kg	86000
Lead	DETSC 2301#	0.3	mg/kg	56
Magnesium	DETSC 2301*	1	mg/kg	16000
Manganese	DETSC 2301#	20	mg/kg	9400
Mercury	DETSC 2325#	0.05	mg/kg	0.29
Molybdenum	DETSC 2301#	0.4	mg/kg	3.2
Nickel	DETSC 2301#	1	mg/kg	19
Silicon	DETSC 2301*	10	mg/kg	95000
Vanadium	DETSC 2301#	0.8	mg/kg	360
Zinc	DETSC 2301#	1	mg/kg	200
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.9
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	29
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	6.3
Organic matter	DETSC 2002#	0.1	%	2.1
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	170
Sulphur (free)	DETSC 3049#	0.75	mg/kg	7.9

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665291
Sample ID	PRAIRIE_AUK_TP123_SO_0060
Depth	0.60
Other ID	3
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	40
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	290
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	190
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	520
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	16
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	99
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	100
Aromatic C5-C35	DETSC 3072*	10	mg/kg	220
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	730
EPH (C10-C40)	DETSC 3311#	10	mg/kg	1500
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.30
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.30
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.30
Fluorene	DETSC 3303	0.03	mg/kg	< 0.30
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.48
Anthracene	DETSC 3303	0.03	mg/kg	< 0.30
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.92
Pyrene	DETSC 3303#	0.03	mg/kg	0.72
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.56
Chrysene	DETSC 3303	0.03	mg/kg	0.50
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.53
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.30
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.30
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.36



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665291
Sample ID	PRAIRIE_AUK_TP123_SO_0060
Depth	0.60
Other ID	3
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.30
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.30
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 3.37



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665291
Sample ID	PRAIRIE_AUK_TP123_SO_0060
Depth	0.60
Other ID	3
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665292
Sample ID	PRAIRIE_AUK_TP185_SO_0430
Depth	4.30
Other ID	5
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	11000
Antimony	DETSC 2301*	1	mg/kg	1.3
Arsenic	DETSC 2301#	0.2	mg/kg	8.1
Barium	DETSC 2301#	1.5	mg/kg	220
Beryllium	DETSC 2301#	0.2	mg/kg	0.9
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.6
Cadmium	DETSC 2301#	0.1	mg/kg	0.3
Chromium	DETSC 2301#	0.15	mg/kg	23
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	32
Iron	DETSC 2301	25	mg/kg	42000
Lead	DETSC 2301#	0.3	mg/kg	23
Magnesium	DETSC 2301*	1	mg/kg	7500
Manganese	DETSC 2301#	20	mg/kg	490
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	0.8
Nickel	DETSC 2301#	1	mg/kg	31
Silicon	DETSC 2301*	10	mg/kg	170000
Vanadium	DETSC 2301#	0.8	mg/kg	28
Zinc	DETSC 2301#	1	mg/kg	160
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	4.4
pH	DETSC 2008#		pH	8.4
Calorific Value	DETSC 5008	1	MJ/kg	< 1.0
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.5
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.9
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	120
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665292
Sample ID	PRAIRIE_AUK_TP185_SO_0430
Depth	4.30
Other ID	5
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	< 10
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665292
Sample ID	PRAIRIE_AUK_TP185_SO_0430
Depth	4.30
Other ID	5
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665292
Sample ID	PRAIRIE_AUK_TP185_SO_0430
Depth	4.30
Other ID	5
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665293
Sample ID	PRAIRIE_AUK_TP186_SO_0050
Depth	0.50
Other ID	3
Sample Type	ES
Sampling Date	07/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	15000
Antimony	DETSC 2301*	1	mg/kg	4.7
Arsenic	DETSC 2301#	0.2	mg/kg	150
Barium	DETSC 2301#	1.5	mg/kg	340
Beryllium	DETSC 2301#	0.2	mg/kg	1.4
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.0
Cadmium	DETSC 2301#	0.1	mg/kg	3.7
Chromium	DETSC 2301#	0.15	mg/kg	55
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	100
Iron	DETSC 2301	25	mg/kg	78000
Lead	DETSC 2301#	0.3	mg/kg	68
Magnesium	DETSC 2301*	1	mg/kg	8400
Manganese	DETSC 2301#	20	mg/kg	75000
Mercury	DETSC 2325#	0.05	mg/kg	0.60
Molybdenum	DETSC 2301#	0.4	mg/kg	38
Nickel	DETSC 2301#	1	mg/kg	46
Silicon	DETSC 2301*	10	mg/kg	14000
Vanadium	DETSC 2301#	0.8	mg/kg	240
Zinc	DETSC 2301#	1	mg/kg	150
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.7
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	19
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.5
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	3.0
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	270
Sulphur (free)	DETSC 3049#	0.75	mg/kg	2.7



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665293
Sample ID	PRAIRIE_AUK_TP186_SO_0050
Depth	0.50
Other ID	3
Sample Type	ES
Sampling Date	07/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	1.6
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	5.2
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	8.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	16
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	16
EPH (C10-C40)	DETSC 3311#	10	mg/kg	130
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.61
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.59
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.40
Fluorene	DETSC 3303	0.03	mg/kg	0.42
Phenanthrene	DETSC 3303#	0.03	mg/kg	2.5
Anthracene	DETSC 3303	0.03	mg/kg	1.3
Fluoranthene	DETSC 3303#	0.03	mg/kg	6.5
Pyrene	DETSC 3303#	0.03	mg/kg	5.7
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	2.7
Chrysene	DETSC 3303	0.03	mg/kg	2.2
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	3.0
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	1.3
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	2.1
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.93



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665293
Sample ID	PRAIRIE_AUK_TP186_SO_0050
Depth	0.50
Other ID	3
Sample Type	ES
Sampling Date	07/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.25
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	1.1
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	31



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665293
Sample ID	PRAIRIE_AUK_TP186_SO_0050
Depth	0.50
Other ID	3
Sample Type	ES
Sampling Date	07/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665295
Sample ID	PRAIRIE_AUK_TP188_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	11000
Antimony	DETSC 2301*	1	mg/kg	3.9
Arsenic	DETSC 2301#	0.2	mg/kg	28
Barium	DETSC 2301#	1.5	mg/kg	270
Beryllium	DETSC 2301#	0.2	mg/kg	1.1
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.4
Cadmium	DETSC 2301#	0.1	mg/kg	0.2
Chromium	DETSC 2301#	0.15	mg/kg	69
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	53
Iron	DETSC 2301	25	mg/kg	60000
Lead	DETSC 2301#	0.3	mg/kg	26
Magnesium	DETSC 2301*	1	mg/kg	7100
Manganese	DETSC 2301#	20	mg/kg	21000
Mercury	DETSC 2325#	0.05	mg/kg	0.11
Molybdenum	DETSC 2301#	0.4	mg/kg	2.5
Nickel	DETSC 2301#	1	mg/kg	27
Silicon	DETSC 2301*	10	mg/kg	48000
Vanadium	DETSC 2301#	0.8	mg/kg	150
Zinc	DETSC 2301#	1	mg/kg	81
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	13
pH	DETSC 2008#		pH	10.6
Calorific Value	DETSC 5008	1	MJ/kg	12.0
Cyanide, Total	DETSC 2130#	0.1	mg/kg	2.6
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	5.0
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	220
Sulphur (free)	DETSC 3049#	0.75	mg/kg	2.1



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665295
Sample ID	PRAIRIE_AUK_TP188_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	140
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.31
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.17
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.13
Fluorene	DETSC 3303	0.03	mg/kg	0.20
Phenanthrene	DETSC 3303#	0.03	mg/kg	2.6
Anthracene	DETSC 3303	0.03	mg/kg	0.67
Fluoranthene	DETSC 3303#	0.03	mg/kg	4.2
Pyrene	DETSC 3303#	0.03	mg/kg	3.2
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	1.4
Chrysene	DETSC 3303	0.03	mg/kg	1.2
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	1.3
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.57
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.79
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.27



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665295
Sample ID	PRAIRIE_AUK_TP188_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.10
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.33
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	17



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665295
Sample ID	PRAIRIE_AUK_TP188_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665450
Sample ID	PRARIE_AUK_TP121_SO_0150
Depth	1.50
Other ID	4
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	8100
Antimony	DETSC 2301*	1	mg/kg	11
Arsenic	DETSC 2301#	0.2	mg/kg	1.6
Barium	DETSC 2301#	1.5	mg/kg	210
Beryllium	DETSC 2301#	0.2	mg/kg	0.4
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	3.6
Cadmium	DETSC 2301#	0.1	mg/kg	0.2
Chromium	DETSC 2301#	0.15	mg/kg	750
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	21
Iron	DETSC 2301	25	mg/kg	180000
Lead	DETSC 2301#	0.3	mg/kg	14
Magnesium	DETSC 2301*	1	mg/kg	32000
Manganese	DETSC 2301#	20	mg/kg	37000
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	3.6
Nickel	DETSC 2301#	1	mg/kg	3.6
Silicon	DETSC 2301*	10	mg/kg	38000
Vanadium	DETSC 2301#	0.8	mg/kg	1700
Zinc	DETSC 2301#	1	mg/kg	56
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	12.1
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	23
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	1.2
Organic matter	DETSC 2002#	0.1	%	1.5
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	32
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665450
Sample ID	PRARIE_AUK_TP121_SO_0150
Depth	1.50
Other ID	4
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	< 10
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.10
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.39
Pyrene	DETSC 3303#	0.03	mg/kg	0.49
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.18
Chrysene	DETSC 3303	0.03	mg/kg	0.26
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.27
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.10
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.12
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.09



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665450
Sample ID	PRARIE_AUK_TP121_SO_0150
Depth	1.50
Other ID	4
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.09
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	2.1



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665450
Sample ID	PRARIE_AUK_TP121_SO_0150
Depth	1.50
Other ID	4
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665451
Sample ID	PRARIE_AUK_TP138_SO_0120
Depth	1.20
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	0.020
Metals				
Aluminium	DETSC 2301*	1	mg/kg	12000
Antimony	DETSC 2301*	1	mg/kg	3.2
Arsenic	DETSC 2301#	0.2	mg/kg	15
Barium	DETSC 2301#	1.5	mg/kg	200
Beryllium	DETSC 2301#	0.2	mg/kg	0.8
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.1
Cadmium	DETSC 2301#	0.1	mg/kg	0.5
Chromium	DETSC 2301#	0.15	mg/kg	150
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	26
Iron	DETSC 2301	25	mg/kg	47000
Lead	DETSC 2301#	0.3	mg/kg	53
Magnesium	DETSC 2301*	1	mg/kg	12000
Manganese	DETSC 2301#	20	mg/kg	5100
Mercury	DETSC 2325#	0.05	mg/kg	2.1
Molybdenum	DETSC 2301#	0.4	mg/kg	2.0
Nickel	DETSC 2301#	1	mg/kg	13
Silicon	DETSC 2301*	10	mg/kg	88000
Vanadium	DETSC 2301#	0.8	mg/kg	140
Zinc	DETSC 2301#	1	mg/kg	160
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.5
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	9.9
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.3
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.7
Organic matter	DETSC 2002#	0.1	%	1.3
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	150
Sulphur (free)	DETSC 3049#	0.75	mg/kg	2.4



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665451
Sample ID	PRARIE_AUK_TP138_SO_0120
Depth	1.20
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	11
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	13
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	7.9
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	30
Aromatic C5-C35	DETSC 3072*	10	mg/kg	38
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	51
EPH (C10-C40)	DETSC 3311#	10	mg/kg	280
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.04
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.05
Fluorene	DETSC 3303	0.03	mg/kg	0.04
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.44
Anthracene	DETSC 3303	0.03	mg/kg	0.08
Fluoranthene	DETSC 3303#	0.03	mg/kg	2.1
Pyrene	DETSC 3303#	0.03	mg/kg	2.1
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	1.4
Chrysene	DETSC 3303	0.03	mg/kg	1.2
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	1.8
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.78
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	1.2
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.58



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665451
Sample ID	PRARIE_AUK_TP138_SO_0120
Depth	1.20
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.20
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	1.0
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	13



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665451
Sample ID	PRARIE_AUK_TP138_SO_0120
Depth	1.20
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665452
Sample ID	PRARIE_AUK_TP149_SO_0130
Depth	1.30
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	< 0.001
Metals				
Aluminium	DETSC 2301*	1	mg/kg	8600
Antimony	DETSC 2301*	1	mg/kg	2.5
Arsenic	DETSC 2301#	0.2	mg/kg	37
Barium	DETSC 2301#	1.5	mg/kg	1100
Beryllium	DETSC 2301#	0.2	mg/kg	1.1
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.5
Cadmium	DETSC 2301#	0.1	mg/kg	0.7
Chromium	DETSC 2301#	0.15	mg/kg	33
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	110
Iron	DETSC 2301	25	mg/kg	48000
Lead	DETSC 2301#	0.3	mg/kg	180
Magnesium	DETSC 2301*	1	mg/kg	8000
Manganese	DETSC 2301#	20	mg/kg	2000
Mercury	DETSC 2325#	0.05	mg/kg	1.4
Molybdenum	DETSC 2301#	0.4	mg/kg	2.6
Nickel	DETSC 2301#	1	mg/kg	27
Silicon	DETSC 2301*	10	mg/kg	46000
Vanadium	DETSC 2301#	0.8	mg/kg	90
Zinc	DETSC 2301#	1	mg/kg	350
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.3
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	11
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	2.8
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	290
Sulphur (free)	DETSC 3049#	0.75	mg/kg	1.5



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665452
Sample ID	PRARIE_AUK_TP149_SO_0130
Depth	1.30
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	12
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	13
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	13
EPH (C10-C40)	DETSC 3311#	10	mg/kg	96
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.35
Anthracene	DETSC 3303	0.03	mg/kg	0.06
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.87
Pyrene	DETSC 3303#	0.03	mg/kg	0.70
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.36
Chrysene	DETSC 3303	0.03	mg/kg	0.35
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.32
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.14
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.18
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.09



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665452
Sample ID	PRARIE_AUK_TP149_SO_0130
Depth	1.30
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.09
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	3.5



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665452
Sample ID	PRARIE_AUK_TP149_SO_0130
Depth	1.30
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665453
Sample ID	PRARIE_AUK_TP168_SO_0005
Depth	0.05
Other ID	1
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	< 0.001
Metals				
Aluminium	DETSC 2301*	1	mg/kg	19000
Antimony	DETSC 2301*	1	mg/kg	3.9
Arsenic	DETSC 2301#	0.2	mg/kg	44
Barium	DETSC 2301#	1.5	mg/kg	210
Beryllium	DETSC 2301#	0.2	mg/kg	2.1
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.5
Cadmium	DETSC 2301#	0.1	mg/kg	0.6
Chromium	DETSC 2301#	0.15	mg/kg	61
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	78
Iron	DETSC 2301	25	mg/kg	91000
Lead	DETSC 2301#	0.3	mg/kg	93
Magnesium	DETSC 2301*	1	mg/kg	10000
Manganese	DETSC 2301#	20	mg/kg	2100
Mercury	DETSC 2325#	0.05	mg/kg	0.15
Molybdenum	DETSC 2301#	0.4	mg/kg	2.1
Nickel	DETSC 2301#	1	mg/kg	38
Silicon	DETSC 2301*	10	mg/kg	62000
Vanadium	DETSC 2301#	0.8	mg/kg	200
Zinc	DETSC 2301#	1	mg/kg	330
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	9.0
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.6
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	12
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	77
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665453
Sample ID	PRARIE_AUK_TP168_SO_0005
Depth	0.05
Other ID	1
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	7.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	< 10
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.06
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.05
Fluorene	DETSC 3303	0.03	mg/kg	0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.28
Anthracene	DETSC 3303	0.03	mg/kg	0.04
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.43
Pyrene	DETSC 3303#	0.03	mg/kg	0.37
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.18
Chrysene	DETSC 3303	0.03	mg/kg	0.25
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.24
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.10
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.12
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.08



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665453
Sample ID	PRARIE_AUK_TP168_SO_0005
Depth	0.05
Other ID	1
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.09
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	2.3



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665453
Sample ID	PRARIE_AUK_TP168_SO_0005
Depth	0.05
Other ID	1
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665454
Sample ID	PRARIE_AUK_TP173_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	< 0.001
Metals				
Aluminium	DETSC 2301*	1	mg/kg	21000
Antimony	DETSC 2301*	1	mg/kg	6.1
Arsenic	DETSC 2301#	0.2	mg/kg	78
Barium	DETSC 2301#	1.5	mg/kg	210
Beryllium	DETSC 2301#	0.2	mg/kg	2.5
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	3.1
Cadmium	DETSC 2301#	0.1	mg/kg	0.5
Chromium	DETSC 2301#	0.15	mg/kg	93
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	320
Iron	DETSC 2301	25	mg/kg	150000
Lead	DETSC 2301#	0.3	mg/kg	70
Magnesium	DETSC 2301*	1	mg/kg	7700
Manganese	DETSC 2301#	20	mg/kg	4100
Mercury	DETSC 2325#	0.05	mg/kg	0.09
Molybdenum	DETSC 2301#	0.4	mg/kg	5.6
Nickel	DETSC 2301#	1	mg/kg	86
Silicon	DETSC 2301*	10	mg/kg	48000
Vanadium	DETSC 2301#	0.8	mg/kg	230
Zinc	DETSC 2301#	1	mg/kg	380
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	8.7
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	120
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.2
Thiocyanate	DETSC 2130#	0.6	mg/kg	1.8
Organic matter	DETSC 2002#	0.1	%	8.6
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	540
Sulphur (free)	DETSC 3049#	0.75	mg/kg	2.4



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665454
Sample ID	PRARIE_AUK_TP173_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	< 10
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	2.0
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.09
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.57
Fluorene	DETSC 3303	0.03	mg/kg	0.20
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.37
Anthracene	DETSC 3303	0.03	mg/kg	0.05
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.30
Pyrene	DETSC 3303#	0.03	mg/kg	0.23
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.09
Chrysene	DETSC 3303	0.03	mg/kg	0.14
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.11
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.05
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.05
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.04



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665454
Sample ID	PRARIE_AUK_TP173_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.04
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	4.3



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665454
Sample ID	PRARIE_AUK_TP173_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665455
Sample ID	PRARIE_AUK_SURFACE1_SO_0000
Depth	
Other ID	1
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	4800
Antimony	DETSC 2301*	1	mg/kg	< 1.0
Arsenic	DETSC 2301#	0.2	mg/kg	1.8
Barium	DETSC 2301#	1.5	mg/kg	130
Beryllium	DETSC 2301#	0.2	mg/kg	0.5
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.9
Cadmium	DETSC 2301#	0.1	mg/kg	0.1
Chromium	DETSC 2301#	0.15	mg/kg	1.7
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	5.9
Iron	DETSC 2301	25	mg/kg	2700
Lead	DETSC 2301#	0.3	mg/kg	10
Magnesium	DETSC 2301*	1	mg/kg	4700
Manganese	DETSC 2301#	20	mg/kg	1500
Mercury	DETSC 2325#	0.05	mg/kg	0.22
Molybdenum	DETSC 2301#	0.4	mg/kg	< 0.4
Nickel	DETSC 2301#	1	mg/kg	1.6
Silicon	DETSC 2301*	10	mg/kg	9500
Vanadium	DETSC 2301#	0.8	mg/kg	7.9
Zinc	DETSC 2301#	1	mg/kg	47
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.8
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	21
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.5
Thiocyanate	DETSC 2130#	0.6	mg/kg	6.6
Organic matter	DETSC 2002#	0.1	%	1.3
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	670
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665455
Sample ID	PRARIE_AUK_SURFACE1_SO_0000
Depth	
Other ID	1
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	< 10
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665455
Sample ID	PRARIE_AUK_SURFACE1_SO_0000
Depth	
Other ID	1
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665455
Sample ID	PRARIE_AUK_SURFACE1_SO_0000
Depth	
Other ID	1
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665588
Sample ID	PRAIRIE_AUK_TP114_SO_0090
Depth	0.90
Other ID	6
Sample Type	ES
Sampling Date	07/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	12000
Antimony	DETSC 2301*	1	mg/kg	4.6
Arsenic	DETSC 2301#	0.2	mg/kg	51
Barium	DETSC 2301#	1.5	mg/kg	140
Beryllium	DETSC 2301#	0.2	mg/kg	1.3
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.8
Cadmium	DETSC 2301#	0.1	mg/kg	3.9
Chromium	DETSC 2301#	0.15	mg/kg	66
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	110
Iron	DETSC 2301	25	mg/kg	69000
Lead	DETSC 2301#	0.3	mg/kg	330
Magnesium	DETSC 2301*	1	mg/kg	3900
Manganese	DETSC 2301#	20	mg/kg	2000
Mercury	DETSC 2325#	0.05	mg/kg	0.35
Molybdenum	DETSC 2301#	0.4	mg/kg	2.5
Nickel	DETSC 2301#	1	mg/kg	47
Silicon	DETSC 2301*	10	mg/kg	U/S
Vanadium	DETSC 2301#	0.8	mg/kg	110
Zinc	DETSC 2301#	1	mg/kg	4200
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	8.3
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.6
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	2.2
Organic matter	DETSC 2002#	0.1	%	2.5
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	44
Sulphur (free)	DETSC 3049#	0.75	mg/kg	13



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665588
Sample ID	PRAIRIE_AUK_TP114_SO_0090
Depth	0.90
Other ID	6
Sample Type	ES
Sampling Date	07/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 1.00
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 1.00
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	1.5
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 763.0
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	6.0
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	5.6
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	15
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	130
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	97
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	150
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	83
Aromatic C5-C35	DETSC 3072*	10	mg/kg	490
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	1300
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	37000
Acenaphthylene	DETSC 3303#	0.03	mg/kg	5600
Acenaphthene	DETSC 3303#	0.03	mg/kg	41
Fluorene	DETSC 3303	0.03	mg/kg	6200
Phenanthrene	DETSC 3303#	0.03	mg/kg	22000
Anthracene	DETSC 3303	0.03	mg/kg	5700
Fluoranthene	DETSC 3303#	0.03	mg/kg	11000
Pyrene	DETSC 3303#	0.03	mg/kg	9700
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	4600
Chrysene	DETSC 3303	0.03	mg/kg	3600
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	91
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	49
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	92
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	31



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665588
Sample ID	PRAIRIE_AUK_TP114_SO_0090
Depth	0.90
Other ID	6
Sample Type	ES
Sampling Date	07/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	8.4
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	29
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	110000



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665588
Sample ID	PRAIRIE_AUK_TP114_SO_0090
Depth	0.90
Other ID	6
Sample Type	ES
Sampling Date	07/04/2020
Sampling Time	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	210

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665589
Sample ID	PRAIRIE_AUK_TP124_SO_0150
Depth	1.50
Other ID	5
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	0.002
Metals				
Aluminium	DETSC 2301*	1	mg/kg	8300
Antimony	DETSC 2301*	1	mg/kg	3.8
Arsenic	DETSC 2301#	0.2	mg/kg	40
Barium	DETSC 2301#	1.5	mg/kg	350
Beryllium	DETSC 2301#	0.2	mg/kg	0.8
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	7.2
Cadmium	DETSC 2301#	0.1	mg/kg	3.1
Chromium	DETSC 2301#	0.15	mg/kg	48
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	69
Iron	DETSC 2301	25	mg/kg	51000
Lead	DETSC 2301#	0.3	mg/kg	90
Magnesium	DETSC 2301*	1	mg/kg	9900
Manganese	DETSC 2301#	20	mg/kg	23000
Mercury	DETSC 2325#	0.05	mg/kg	0.26
Molybdenum	DETSC 2301#	0.4	mg/kg	4.0
Nickel	DETSC 2301#	1	mg/kg	32
Silicon	DETSC 2301*	10	mg/kg	100000
Vanadium	DETSC 2301#	0.8	mg/kg	100
Zinc	DETSC 2301#	1	mg/kg	340
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	9.7
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	41
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.2
Thiocyanate	DETSC 2130#	0.6	mg/kg	1.7
Organic matter	DETSC 2002#	0.1	%	1.6
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	130
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665589
Sample ID	PRAIRIE_AUK_TP124_SO_0150
Depth	1.50
Other ID	5
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.05
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.07
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.2
Anthracene	DETSC 3303	0.03	mg/kg	0.22
Fluoranthene	DETSC 3303#	0.03	mg/kg	4.4
Pyrene	DETSC 3303#	0.03	mg/kg	3.8
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	1.6
Chrysene	DETSC 3303	0.03	mg/kg	1.8
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	1.7
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.86
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.66
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.62



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665589
Sample ID	PRAIRIE_AUK_TP124_SO_0150
Depth	1.50
Other ID	5
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.21
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.72
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	18



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665589
Sample ID	PRAIRIE_AUK_TP124_SO_0150
Depth	1.50
Other ID	5
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665590
Sample ID	PRAIRIE_AUK_TP174_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	9200
Antimony	DETSC 2301*	1	mg/kg	5.6
Arsenic	DETSC 2301#	0.2	mg/kg	58
Barium	DETSC 2301#	1.5	mg/kg	250
Beryllium	DETSC 2301#	0.2	mg/kg	0.9
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.4
Cadmium	DETSC 2301#	0.1	mg/kg	0.3
Chromium	DETSC 2301#	0.15	mg/kg	81
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	120
Iron	DETSC 2301	25	mg/kg	120000
Lead	DETSC 2301#	0.3	mg/kg	110
Magnesium	DETSC 2301*	1	mg/kg	8600
Manganese	DETSC 2301#	20	mg/kg	99000
Mercury	DETSC 2325#	0.05	mg/kg	0.33
Molybdenum	DETSC 2301#	0.4	mg/kg	18
Nickel	DETSC 2301#	1	mg/kg	78
Silicon	DETSC 2301*	10	mg/kg	36000
Vanadium	DETSC 2301#	0.8	mg/kg	67
Zinc	DETSC 2301#	1	mg/kg	160
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	8.4
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	5.5
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	1.3
Organic matter	DETSC 2002#	0.1	%	2.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	110
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665590
Sample ID	PRAIRIE_AUK_TP174_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.11
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.27
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.17
Fluorene	DETSC 3303	0.03	mg/kg	0.23
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.7
Anthracene	DETSC 3303	0.03	mg/kg	0.43
Fluoranthene	DETSC 3303#	0.03	mg/kg	3.2
Pyrene	DETSC 3303#	0.03	mg/kg	2.6
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.96
Chrysene	DETSC 3303	0.03	mg/kg	0.93
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.92
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.39
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.60
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.30



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665590
Sample ID	PRAIRIE_AUK_TP174_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.09
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.35
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	13



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665590
Sample ID	PRAIRIE_AUK_TP174_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665591
Sample ID	PRAIRIE_AUK_TP174_SO_0160
Depth	1.60
Other ID	6
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	12000
Antimony	DETSC 2301*	1	mg/kg	< 1.0
Arsenic	DETSC 2301#	0.2	mg/kg	6.2
Barium	DETSC 2301#	1.5	mg/kg	84
Beryllium	DETSC 2301#	0.2	mg/kg	0.6
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.2
Cadmium	DETSC 2301#	0.1	mg/kg	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg	20
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	17
Iron	DETSC 2301	25	mg/kg	32000
Lead	DETSC 2301#	0.3	mg/kg	23
Magnesium	DETSC 2301*	1	mg/kg	2300
Manganese	DETSC 2301#	20	mg/kg	370
Mercury	DETSC 2325#	0.05	mg/kg	0.06
Molybdenum	DETSC 2301#	0.4	mg/kg	0.6
Nickel	DETSC 2301#	1	mg/kg	11
Silicon	DETSC 2301*	10	mg/kg	190000
Vanadium	DETSC 2301#	0.8	mg/kg	27
Zinc	DETSC 2301#	1	mg/kg	58
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	7.2
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	1.0
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	1.2
Organic matter	DETSC 2002#	0.1	%	0.7
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	190
Sulphur (free)	DETSC 3049#	0.75	mg/kg	6.8

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665591
Sample ID	PRAIRIE_AUK_TP174_SO_0160
Depth	1.60
Other ID	6
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.05
Pyrene	DETSC 3303#	0.03	mg/kg	0.04
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665591
Sample ID	PRAIRIE_AUK_TP174_SO_0160
Depth	1.60
Other ID	6
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665591
Sample ID	PRAIRIE_AUK_TP174_SO_0160
Depth	1.60
Other ID	6
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665592
Sample ID	PRAIRIE_AUK_TP176_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	07/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	30000
Antimony	DETSC 2301*	1	mg/kg	3.0
Arsenic	DETSC 2301#	0.2	mg/kg	83
Barium	DETSC 2301#	1.5	mg/kg	260
Beryllium	DETSC 2301#	0.2	mg/kg	3.7
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	4.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.4
Chromium	DETSC 2301#	0.15	mg/kg	58
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	80
Iron	DETSC 2301	25	mg/kg	100000
Lead	DETSC 2301#	0.3	mg/kg	61
Magnesium	DETSC 2301*	1	mg/kg	13000
Manganese	DETSC 2301#	20	mg/kg	1600
Mercury	DETSC 2325#	0.05	mg/kg	0.08
Molybdenum	DETSC 2301#	0.4	mg/kg	3.2
Nickel	DETSC 2301#	1	mg/kg	65
Silicon	DETSC 2301*	10	mg/kg	71000
Vanadium	DETSC 2301#	0.8	mg/kg	190
Zinc	DETSC 2301#	1	mg/kg	360
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	8.4
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.2
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.8
Organic matter	DETSC 2002#	0.1	%	3.2
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	170
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665592
Sample ID	PRAIRIE_AUK_TP176_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	07/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	7.3
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.04
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.05
Fluorene	DETSC 3303	0.03	mg/kg	0.04
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.17
Anthracene	DETSC 3303	0.03	mg/kg	0.06
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.67
Pyrene	DETSC 3303#	0.03	mg/kg	0.62
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.10
Chrysene	DETSC 3303	0.03	mg/kg	0.15
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.06
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665592
Sample ID	PRAIRIE_AUK_TP176_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	07/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	2.0



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665592
Sample ID	PRAIRIE_AUK_TP176_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	07/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665593
Sample ID	PRAIRIE_AUK_TP177_SO_0060
Depth	0.60
Other ID	2
Sample Type	ES
Sampling Date	07/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	31000
Antimony	DETSC 2301*	1	mg/kg	2.8
Arsenic	DETSC 2301#	0.2	mg/kg	37
Barium	DETSC 2301#	1.5	mg/kg	120
Beryllium	DETSC 2301#	0.2	mg/kg	4.0
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.9
Cadmium	DETSC 2301#	0.1	mg/kg	0.2
Chromium	DETSC 2301#	0.15	mg/kg	110
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	26
Iron	DETSC 2301	25	mg/kg	80000
Lead	DETSC 2301#	0.3	mg/kg	29
Magnesium	DETSC 2301*	1	mg/kg	11000
Manganese	DETSC 2301#	20	mg/kg	1600
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	1.2
Nickel	DETSC 2301#	1	mg/kg	32
Silicon	DETSC 2301*	10	mg/kg	61000
Vanadium	DETSC 2301#	0.8	mg/kg	450
Zinc	DETSC 2301#	1	mg/kg	260
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	8.7
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.4
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.8
Organic matter	DETSC 2002#	0.1	%	2.9
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	83
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665593
Sample ID	PRAIRIE_AUK_TP177_SO_0060
Depth	0.60
Other ID	2
Sample Type	ES
Sampling Date	07/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.06
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.14
Pyrene	DETSC 3303#	0.03	mg/kg	0.16
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.05
Chrysene	DETSC 3303	0.03	mg/kg	0.08
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.05
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665593
Sample ID	PRAIRIE_AUK_TP177_SO_0060
Depth	0.60
Other ID	2
Sample Type	ES
Sampling Date	07/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	0.53



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665593
Sample ID	PRAIRIE_AUK_TP177_SO_0060
Depth	0.60
Other ID	2
Sample Type	ES
Sampling Date	07/04/2020
Sampling Time	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	0.9

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665594
Sample ID	PRAIRIE_AUK_TP189_SO_0300
Depth	3.00
Other ID	7
Sample Type	ES
Sampling Date	07/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	19000
Antimony	DETSC 2301*	1	mg/kg	1.3
Arsenic	DETSC 2301#	0.2	mg/kg	9.9
Barium	DETSC 2301#	1.5	mg/kg	260
Beryllium	DETSC 2301#	0.2	mg/kg	1.5
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.0
Cadmium	DETSC 2301#	0.1	mg/kg	0.2
Chromium	DETSC 2301#	0.15	mg/kg	33
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	30
Iron	DETSC 2301	25	mg/kg	46000
Lead	DETSC 2301#	0.3	mg/kg	27
Magnesium	DETSC 2301*	1	mg/kg	13000
Manganese	DETSC 2301#	20	mg/kg	830
Mercury	DETSC 2325#	0.05	mg/kg	0.08
Molybdenum	DETSC 2301#	0.4	mg/kg	0.6
Nickel	DETSC 2301#	1	mg/kg	42
Silicon	DETSC 2301*	10	mg/kg	140000
Vanadium	DETSC 2301#	0.8	mg/kg	42
Zinc	DETSC 2301#	1	mg/kg	94
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	7.9
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	0.8
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	350
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665594
Sample ID	PRAIRIE_AUK_TP189_SO_0300
Depth	3.00
Other ID	7
Sample Type	ES
Sampling Date	07/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665594
Sample ID	PRAIRIE_AUK_TP189_SO_0300
Depth	3.00
Other ID	7
Sample Type	ES
Sampling Date	07/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665594
Sample ID	PRAIRIE_AUK_TP189_SO_0300
Depth	3.00
Other ID	7
Sample Type	ES
Sampling Date	07/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665610
Sample ID	PRAIRIE_AUK_TP179_SO_0140
Depth	1.40
Other ID	4
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	39000
Antimony	DETSC 2301*	1	mg/kg	4.6
Arsenic	DETSC 2301#	0.2	mg/kg	88
Barium	DETSC 2301#	1.5	mg/kg	79
Beryllium	DETSC 2301#	0.2	mg/kg	4.0
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.3
Cadmium	DETSC 2301#	0.1	mg/kg	0.2
Chromium	DETSC 2301#	0.15	mg/kg	120
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	32
Iron	DETSC 2301	25	mg/kg	160000
Lead	DETSC 2301#	0.3	mg/kg	27
Magnesium	DETSC 2301*	1	mg/kg	11000
Manganese	DETSC 2301#	20	mg/kg	1200
Mercury	DETSC 2325#	0.05	mg/kg	0.32
Molybdenum	DETSC 2301#	0.4	mg/kg	2.1
Nickel	DETSC 2301#	1	mg/kg	98
Silicon	DETSC 2301*	10	mg/kg	100000
Vanadium	DETSC 2301#	0.8	mg/kg	360
Zinc	DETSC 2301#	1	mg/kg	200
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	7.5
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	120
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.3
Thiocyanate	DETSC 2130#	0.6	mg/kg	2.1
Organic matter	DETSC 2002#	0.1	%	4.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	900
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665610
Sample ID	PRAIRIE_AUK_TP179_SO_0140
Depth	1.40
Other ID	4
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	0.03
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	0.71
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	27
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	150
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	31
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	9.7
Aromatic C5-C35	DETSC 3072*	10	mg/kg	220
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	220
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	190
Acenaphthylene	DETSC 3303#	0.03	mg/kg	13
Acenaphthene	DETSC 3303#	0.03	mg/kg	200
Fluorene	DETSC 3303	0.03	mg/kg	100
Phenanthrene	DETSC 3303#	0.03	mg/kg	65
Anthracene	DETSC 3303	0.03	mg/kg	18
Fluoranthene	DETSC 3303#	0.03	mg/kg	12
Pyrene	DETSC 3303#	0.03	mg/kg	8.2
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	1.7
Chrysene	DETSC 3303	0.03	mg/kg	1.5
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.74
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.31
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.59
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.17



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665610
Sample ID	PRAIRIE_AUK_TP179_SO_0140
Depth	1.40
Other ID	4
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.05
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.19
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	610



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665610
Sample ID	PRAIRIE_AUK_TP179_SO_0140
Depth	1.40
Other ID	4
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665611
Sample ID	PRAIRIE_AUK_TP179_SO_0200
Depth	2.00
Other ID	7
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	15000
Antimony	DETSC 2301*	1	mg/kg	1.3
Arsenic	DETSC 2301#	0.2	mg/kg	9.3
Barium	DETSC 2301#	1.5	mg/kg	190
Beryllium	DETSC 2301#	0.2	mg/kg	1.7
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.5
Cadmium	DETSC 2301#	0.1	mg/kg	0.1
Chromium	DETSC 2301#	0.15	mg/kg	29
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	29
Iron	DETSC 2301	25	mg/kg	39000
Lead	DETSC 2301#	0.3	mg/kg	34
Magnesium	DETSC 2301*	1	mg/kg	4000
Manganese	DETSC 2301#	20	mg/kg	320
Mercury	DETSC 2325#	0.05	mg/kg	0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	0.5
Nickel	DETSC 2301#	1	mg/kg	30
Silicon	DETSC 2301*	10	mg/kg	190000
Vanadium	DETSC 2301#	0.8	mg/kg	33
Zinc	DETSC 2301#	1	mg/kg	99
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	7.6
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	4.8
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.8
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	490
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665611
Sample ID	PRAIRIE_AUK_TP179_SO_0200
Depth	2.00
Other ID	7
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	2.5
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.07
Acenaphthene	DETSC 3303#	0.03	mg/kg	1.0
Fluorene	DETSC 3303	0.03	mg/kg	0.47
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.33
Anthracene	DETSC 3303	0.03	mg/kg	0.09
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.08
Pyrene	DETSC 3303#	0.03	mg/kg	0.05
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665611
Sample ID	PRAIRIE_AUK_TP179_SO_0200
Depth	2.00
Other ID	7
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	4.6



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665611
Sample ID	PRAIRIE_AUK_TP179_SO_0200
Depth	2.00
Other ID	7
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	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	0.6

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665612
Sample ID	PRAIRIE_AUK_TP181_SO_0060
Depth	0.60
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	18000
Antimony	DETSC 2301*	1	mg/kg	4.7
Arsenic	DETSC 2301#	0.2	mg/kg	45
Barium	DETSC 2301#	1.5	mg/kg	280
Beryllium	DETSC 2301#	0.2	mg/kg	2.5
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.5
Cadmium	DETSC 2301#	0.1	mg/kg	0.5
Chromium	DETSC 2301#	0.15	mg/kg	23
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	130
Iron	DETSC 2301	25	mg/kg	41000
Lead	DETSC 2301#	0.3	mg/kg	380
Magnesium	DETSC 2301*	1	mg/kg	6400
Manganese	DETSC 2301#	20	mg/kg	12000
Mercury	DETSC 2325#	0.05	mg/kg	0.10
Molybdenum	DETSC 2301#	0.4	mg/kg	2.6
Nickel	DETSC 2301#	1	mg/kg	23
Silicon	DETSC 2301*	10	mg/kg	56000
Vanadium	DETSC 2301#	0.8	mg/kg	83
Zinc	DETSC 2301#	1	mg/kg	210
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	8.6
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	20
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.9
Organic matter	DETSC 2002#	0.1	%	6.1
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	220
Sulphur (free)	DETSC 3049#	0.75	mg/kg	60

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665612
Sample ID	PRAIRIE_AUK_TP181_SO_0060
Depth	0.60
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.27
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.23
Acenaphthene	DETSC 3303#	0.03	mg/kg	1.5
Fluorene	DETSC 3303	0.03	mg/kg	1.1
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.2
Anthracene	DETSC 3303	0.03	mg/kg	0.31
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.56
Pyrene	DETSC 3303#	0.03	mg/kg	0.42
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.12
Chrysene	DETSC 3303	0.03	mg/kg	0.16
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.13
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.06
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.07
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.06



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665612
Sample ID	PRAIRIE_AUK_TP181_SO_0060
Depth	0.60
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.06
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	6.2



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665612
Sample ID	PRAIRIE_AUK_TP181_SO_0060
Depth	0.60
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	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	1.0

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665613
Sample ID	PRAIRIE_AUK_TP182_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	21000
Antimony	DETSC 2301*	1	mg/kg	2.5
Arsenic	DETSC 2301#	0.2	mg/kg	33
Barium	DETSC 2301#	1.5	mg/kg	82
Beryllium	DETSC 2301#	0.2	mg/kg	3.0
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.4
Cadmium	DETSC 2301#	0.1	mg/kg	0.2
Chromium	DETSC 2301#	0.15	mg/kg	51
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	23
Iron	DETSC 2301	25	mg/kg	87000
Lead	DETSC 2301#	0.3	mg/kg	23
Magnesium	DETSC 2301*	1	mg/kg	7000
Manganese	DETSC 2301#	20	mg/kg	1000
Mercury	DETSC 2325#	0.05	mg/kg	0.75
Molybdenum	DETSC 2301#	0.4	mg/kg	0.8
Nickel	DETSC 2301#	1	mg/kg	28
Silicon	DETSC 2301*	10	mg/kg	73000
Vanadium	DETSC 2301#	0.8	mg/kg	150
Zinc	DETSC 2301#	1	mg/kg	130
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	8.0
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	3300
Cyanide, Free	DETSC 2130#	0.1	mg/kg	4.5
Thiocyanate	DETSC 2130#	0.6	mg/kg	69
Organic matter	DETSC 2002#	0.1	%	7.0
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	650
Sulphur (free)	DETSC 3049#	0.75	mg/kg	26

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665613
Sample ID	PRAIRIE_AUK_TP182_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	0.25
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	6.3
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	42
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	49
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	3.6
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	100
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	0.04
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	0.31
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	13
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	1700
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	2500
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	370
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	82
Aromatic C5-C35	DETSC 3072*	10	mg/kg	4600
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	4700
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	3500
Acenaphthylene	DETSC 3303#	0.03	mg/kg	1300
Acenaphthene	DETSC 3303#	0.03	mg/kg	1300
Fluorene	DETSC 3303	0.03	mg/kg	730
Phenanthrene	DETSC 3303#	0.03	mg/kg	500
Anthracene	DETSC 3303	0.03	mg/kg	130
Fluoranthene	DETSC 3303#	0.03	mg/kg	120
Pyrene	DETSC 3303#	0.03	mg/kg	80
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	6.9
Chrysene	DETSC 3303	0.03	mg/kg	5.2
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	3.1
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	1.6
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	2.1
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.66



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665613
Sample ID	PRAIRIE_AUK_TP182_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.20
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.71
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	7700



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665613
Sample ID	PRAIRIE_AUK_TP182_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	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	9.0

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665990
Sample ID	PRAIRIE_AUK_TP145_SO_0160
Depth	1.60
Other ID	4
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	11000
Antimony	DETSC 2301*	1	mg/kg	69
Arsenic	DETSC 2301#	0.2	mg/kg	64
Barium	DETSC 2301#	1.5	mg/kg	560
Beryllium	DETSC 2301#	0.2	mg/kg	1.9
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.5
Cadmium	DETSC 2301#	0.1	mg/kg	0.8
Chromium	DETSC 2301#	0.15	mg/kg	120
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	20000
Iron	DETSC 2301	25	mg/kg	45000
Lead	DETSC 2301#	0.3	mg/kg	1200
Magnesium	DETSC 2301*	1	mg/kg	11000
Manganese	DETSC 2301#	20	mg/kg	4900
Mercury	DETSC 2325#	0.05	mg/kg	0.19
Molybdenum	DETSC 2301#	0.4	mg/kg	2.9
Nickel	DETSC 2301#	1	mg/kg	41
Silicon	DETSC 2301*	10	mg/kg	23000
Vanadium	DETSC 2301#	0.8	mg/kg	240
Zinc	DETSC 2301#	1	mg/kg	1500
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.2
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	1.3
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	2.8
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	200
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665990
Sample ID	PRAIRIE_AUK_TP145_SO_0160
Depth	1.60
Other ID	4
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.06
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.04
Fluorene	DETSC 3303	0.03	mg/kg	0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.37
Anthracene	DETSC 3303	0.03	mg/kg	0.09
Fluoranthene	DETSC 3303#	0.03	mg/kg	1.5
Pyrene	DETSC 3303#	0.03	mg/kg	1.4
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.61
Chrysene	DETSC 3303	0.03	mg/kg	0.61
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.92
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.30
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.47
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.21



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665990
Sample ID	PRAIRIE_AUK_TP145_SO_0160
Depth	1.60
Other ID	4
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.06
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.30
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	7.0



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665990
Sample ID	PRAIRIE_AUK_TP145_SO_0160
Depth	1.60
Other ID	4
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665991
Sample ID	PRAIRIE_AUK_TP146C_SO_0130
Depth	1.30
Other ID	5
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	16000
Antimony	DETSC 2301*	1	mg/kg	9.5
Arsenic	DETSC 2301#	0.2	mg/kg	14
Barium	DETSC 2301#	1.5	mg/kg	250
Beryllium	DETSC 2301#	0.2	mg/kg	1.9
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	3.2
Cadmium	DETSC 2301#	0.1	mg/kg	1.0
Chromium	DETSC 2301#	0.15	mg/kg	19
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	420
Iron	DETSC 2301	25	mg/kg	35000
Lead	DETSC 2301#	0.3	mg/kg	210
Magnesium	DETSC 2301*	1	mg/kg	9000
Manganese	DETSC 2301#	20	mg/kg	1700
Mercury	DETSC 2325#	0.05	mg/kg	0.17
Molybdenum	DETSC 2301#	0.4	mg/kg	1.0
Nickel	DETSC 2301#	1	mg/kg	17
Silicon	DETSC 2301*	10	mg/kg	69000
Vanadium	DETSC 2301#	0.8	mg/kg	57
Zinc	DETSC 2301#	1	mg/kg	350
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	9.6
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	13
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.7
Organic matter	DETSC 2002#	0.1	%	5.8
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	590
Sulphur (free)	DETSC 3049#	0.75	mg/kg	5.2

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665991
Sample ID	PRAIRIE_AUK_TP146C_SO_0130
Depth	1.30
Other ID	5
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	6.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	16
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	45
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	99
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	170
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	1.3
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	1.6
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	13
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	55
Aromatic C5-C35	DETSC 3072*	10	mg/kg	71
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	240
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.32
Anthracene	DETSC 3303	0.03	mg/kg	0.07
Fluoranthene	DETSC 3303#	0.03	mg/kg	1.0
Pyrene	DETSC 3303#	0.03	mg/kg	0.91
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.43
Chrysene	DETSC 3303	0.03	mg/kg	0.40
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.44
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.19
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.30
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.12



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665991
Sample ID	PRAIRIE_AUK_TP146C_SO_0130
Depth	1.30
Other ID	5
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.16
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	4.3



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665991
Sample ID	PRAIRIE_AUK_TP146C_SO_0130
Depth	1.30
Other ID	5
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665992
Sample ID	PRAIRIE_AUK_TP156A_SO_0030
Depth	0.30
Other ID	2
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	0.001
Metals				
Aluminium	DETSC 2301*	1	mg/kg	26000
Antimony	DETSC 2301*	1	mg/kg	6.5
Arsenic	DETSC 2301#	0.2	mg/kg	31
Barium	DETSC 2301#	1.5	mg/kg	540
Beryllium	DETSC 2301#	0.2	mg/kg	2.6
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.5
Cadmium	DETSC 2301#	0.1	mg/kg	0.7
Chromium	DETSC 2301#	0.15	mg/kg	170
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	110
Iron	DETSC 2301	25	mg/kg	140000
Lead	DETSC 2301#	0.3	mg/kg	110
Magnesium	DETSC 2301*	1	mg/kg	17000
Manganese	DETSC 2301#	20	mg/kg	6100
Mercury	DETSC 2325#	0.05	mg/kg	0.69
Molybdenum	DETSC 2301#	0.4	mg/kg	2.2
Nickel	DETSC 2301#	1	mg/kg	40
Silicon	DETSC 2301*	10	mg/kg	43000
Vanadium	DETSC 2301#	0.8	mg/kg	700
Zinc	DETSC 2301#	1	mg/kg	310
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.6
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	12
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	3.2
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	280
Sulphur (free)	DETSC 3049#	0.75	mg/kg	1.2

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665992
Sample ID	PRAIRIE_AUK_TP156A_SO_0030
Depth	0.30
Other ID	2
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.05
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.63
Anthracene	DETSC 3303	0.03	mg/kg	0.17
Fluoranthene	DETSC 3303#	0.03	mg/kg	3.0
Pyrene	DETSC 3303#	0.03	mg/kg	3.0
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	1.6
Chrysene	DETSC 3303	0.03	mg/kg	1.3
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	2.0
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.79
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	1.2
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.58



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665992
Sample ID	PRAIRIE_AUK_TP156A_SO_0030
Depth	0.30
Other ID	2
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.15
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.77
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	15



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665992
Sample ID	PRAIRIE_AUK_TP156A_SO_0030
Depth	0.30
Other ID	2
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665993
Sample ID	PRAIRIE_AUK_TP162_SO_0170
Depth	1.70
Other ID	3A
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	16000
Antimony	DETSC 2301*	1	mg/kg	18
Arsenic	DETSC 2301#	0.2	mg/kg	2100
Barium	DETSC 2301#	1.5	mg/kg	320
Beryllium	DETSC 2301#	0.2	mg/kg	2.3
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.2
Cadmium	DETSC 2301#	0.1	mg/kg	1.7
Chromium	DETSC 2301#	0.15	mg/kg	100
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	190
Iron	DETSC 2301	25	mg/kg	360000
Lead	DETSC 2301#	0.3	mg/kg	870
Magnesium	DETSC 2301*	1	mg/kg	3500
Manganese	DETSC 2301#	20	mg/kg	2800
Mercury	DETSC 2325#	0.05	mg/kg	0.73
Molybdenum	DETSC 2301#	0.4	mg/kg	73
Nickel	DETSC 2301#	1	mg/kg	160
Silicon	DETSC 2301*	10	mg/kg	53000
Vanadium	DETSC 2301#	0.8	mg/kg	310
Zinc	DETSC 2301#	1	mg/kg	630
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	8.2
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	3.6
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	3.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	110
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665993
Sample ID	PRAIRIE_AUK_TP162_SO_0170
Depth	1.70
Other ID	3A
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	4.2
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	5.1
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	0.7
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.03
Pyrene	DETSC 3303#	0.03	mg/kg	0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665993
Sample ID	PRAIRIE_AUK_TP162_SO_0170
Depth	1.70
Other ID	3A
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665993
Sample ID	PRAIRIE_AUK_TP162_SO_0170
Depth	1.70
Other ID	3A
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665994
Sample ID	PRAIRIE_AUK_TP180_SO_0030
Depth	0.30
Other ID	3
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	15000
Antimony	DETSC 2301*	1	mg/kg	5.6
Arsenic	DETSC 2301#	0.2	mg/kg	12
Barium	DETSC 2301#	1.5	mg/kg	270
Beryllium	DETSC 2301#	0.2	mg/kg	1.5
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.4
Cadmium	DETSC 2301#	0.1	mg/kg	0.7
Chromium	DETSC 2301#	0.15	mg/kg	310
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	31
Iron	DETSC 2301	25	mg/kg	99000
Lead	DETSC 2301#	0.3	mg/kg	94
Magnesium	DETSC 2301*	1	mg/kg	23000
Manganese	DETSC 2301#	20	mg/kg	28000
Mercury	DETSC 2325#	0.05	mg/kg	0.47
Molybdenum	DETSC 2301#	0.4	mg/kg	2.8
Nickel	DETSC 2301#	1	mg/kg	16
Silicon	DETSC 2301*	10	mg/kg	67000
Vanadium	DETSC 2301#	0.8	mg/kg	1200
Zinc	DETSC 2301#	1	mg/kg	270
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.5
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	2.3
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	3.3
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	110
Sulphur (free)	DETSC 3049#	0.75	mg/kg	1.4

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665994
Sample ID	PRAIRIE_AUK_TP180_SO_0030
Depth	0.30
Other ID	3
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.24
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.06
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.11
Fluorene	DETSC 3303	0.03	mg/kg	0.09
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.8
Anthracene	DETSC 3303	0.03	mg/kg	0.79
Fluoranthene	DETSC 3303#	0.03	mg/kg	2.2
Pyrene	DETSC 3303#	0.03	mg/kg	2.0
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.82
Chrysene	DETSC 3303	0.03	mg/kg	0.90
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.86
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.37
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.43
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.19



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665994
Sample ID	PRAIRIE_AUK_TP180_SO_0030
Depth	0.30
Other ID	3
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.06
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.27
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	11



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665994
Sample ID	PRAIRIE_AUK_TP180_SO_0030
Depth	0.30
Other ID	3
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665995
Sample ID	PRAIRIE_AUK_TP163_SO_0120
Depth	1.20
Other ID	3
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	< 0.001
Metals				
Aluminium	DETSC 2301*	1	mg/kg	53000
Antimony	DETSC 2301*	1	mg/kg	< 1.0
Arsenic	DETSC 2301#	0.2	mg/kg	12
Barium	DETSC 2301#	1.5	mg/kg	170
Beryllium	DETSC 2301#	0.2	mg/kg	7.0
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.5
Cadmium	DETSC 2301#	0.1	mg/kg	0.1
Chromium	DETSC 2301#	0.15	mg/kg	12
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	40
Iron	DETSC 2301	25	mg/kg	6800
Lead	DETSC 2301#	0.3	mg/kg	15
Magnesium	DETSC 2301*	1	mg/kg	16000
Manganese	DETSC 2301#	20	mg/kg	1200
Mercury	DETSC 2325#	0.05	mg/kg	0.07
Molybdenum	DETSC 2301#	0.4	mg/kg	0.5
Nickel	DETSC 2301#	1	mg/kg	2.5
Silicon	DETSC 2301*	10	mg/kg	63000
Vanadium	DETSC 2301#	0.8	mg/kg	41
Zinc	DETSC 2301#	1	mg/kg	39
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.4
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	1300
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.4
Thiocyanate	DETSC 2130#	0.6	mg/kg	8.9
Organic matter	DETSC 2002#	0.1	%	1.1
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	480
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665995
Sample ID	PRAIRIE_AUK_TP163_SO_0120
Depth	1.20
Other ID	3
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	0.35
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	1.7
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	96
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	40
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	7.1
Aromatic C5-C35	DETSC 3072*	10	mg/kg	150
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	150
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.85
Acenaphthylene	DETSC 3303#	0.03	mg/kg	4.1
Acenaphthene	DETSC 3303#	0.03	mg/kg	20
Fluorene	DETSC 3303	0.03	mg/kg	11
Phenanthrene	DETSC 3303#	0.03	mg/kg	7.8
Anthracene	DETSC 3303	0.03	mg/kg	11
Fluoranthene	DETSC 3303#	0.03	mg/kg	11
Pyrene	DETSC 3303#	0.03	mg/kg	7.5
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	1.6
Chrysene	DETSC 3303	0.03	mg/kg	1.4
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.70
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.30
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.53
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.13



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665995
Sample ID	PRAIRIE_AUK_TP163_SO_0120
Depth	1.20
Other ID	3
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.04
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.14
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	78



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665995
Sample ID	PRAIRIE_AUK_TP163_SO_0120
Depth	1.20
Other ID	3
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666343
Sample ID	PRAIRIE_AUK_TP135_SO_0130
Depth	1.30
Other ID	5
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	< 0.001
Metals				
Aluminium	DETSC 2301*	1	mg/kg	25000
Antimony	DETSC 2301*	1	mg/kg	4.5
Arsenic	DETSC 2301#	0.2	mg/kg	61
Barium	DETSC 2301#	1.5	mg/kg	500
Beryllium	DETSC 2301#	0.2	mg/kg	3.3
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.6
Cadmium	DETSC 2301#	0.1	mg/kg	0.8
Chromium	DETSC 2301#	0.15	mg/kg	52
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	100
Iron	DETSC 2301	25	mg/kg	3200
Lead	DETSC 2301#	0.3	mg/kg	220
Magnesium	DETSC 2301*	1	mg/kg	15000
Manganese	DETSC 2301#	20	mg/kg	5300
Mercury	DETSC 2325#	0.05	mg/kg	0.37
Molybdenum	DETSC 2301#	0.4	mg/kg	5.4
Nickel	DETSC 2301#	1	mg/kg	33
Silicon	DETSC 2301*	10	mg/kg	64000
Vanadium	DETSC 2301#	0.8	mg/kg	120
Zinc	DETSC 2301#	1	mg/kg	270
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.3
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.4
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.6
Organic matter	DETSC 2002#	0.1	%	3.3
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	400
Sulphur (free)	DETSC 3049#	0.75	mg/kg	0.83

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666343
Sample ID	PRAIRIE_AUK_TP135_SO_0130
Depth	1.30
Other ID	5
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.05
Fluorene	DETSC 3303	0.03	mg/kg	0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.57
Anthracene	DETSC 3303	0.03	mg/kg	0.18
Fluoranthene	DETSC 3303#	0.03	mg/kg	2.3
Pyrene	DETSC 3303#	0.03	mg/kg	3.4
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	1.1
Chrysene	DETSC 3303	0.03	mg/kg	1.2
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	1.3
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.53
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.87
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.37



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666343
Sample ID	PRAIRIE_AUK_TP135_SO_0130
Depth	1.30
Other ID	5
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.10
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.47
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	12



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666343
Sample ID	PRAIRIE_AUK_TP135_SO_0130
Depth	1.30
Other ID	5
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666344
Sample ID	PRAIRIE_AUK_TP136_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	38000
Antimony	DETSC 2301*	1	mg/kg	< 1.0
Arsenic	DETSC 2301#	0.2	mg/kg	7.0
Barium	DETSC 2301#	1.5	mg/kg	160
Beryllium	DETSC 2301#	0.2	mg/kg	5.3
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.4
Cadmium	DETSC 2301#	0.1	mg/kg	0.2
Chromium	DETSC 2301#	0.15	mg/kg	9.1
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	15
Iron	DETSC 2301	25	mg/kg	8900
Lead	DETSC 2301#	0.3	mg/kg	5.0
Magnesium	DETSC 2301*	1	mg/kg	17000
Manganese	DETSC 2301#	20	mg/kg	870
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	0.5
Nickel	DETSC 2301#	1	mg/kg	5.9
Silicon	DETSC 2301*	10	mg/kg	64000
Vanadium	DETSC 2301#	0.8	mg/kg	31
Zinc	DETSC 2301#	1	mg/kg	54
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.4
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.6
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	0.5
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	840
Sulphur (free)	DETSC 3049#	0.75	mg/kg	2.2

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666344
Sample ID	PRAIRIE_AUK_TP136_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666344
Sample ID	PRAIRIE_AUK_TP136_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666344
Sample ID	PRAIRIE_AUK_TP136_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666345
Sample ID	PRAIRIE_AUK_TP136_SO_0290
Depth	2.90
Other ID	10
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	15000
Antimony	DETSC 2301*	1	mg/kg	1.2
Arsenic	DETSC 2301#	0.2	mg/kg	9.3
Barium	DETSC 2301#	1.5	mg/kg	310
Beryllium	DETSC 2301#	0.2	mg/kg	1.3
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.9
Cadmium	DETSC 2301#	0.1	mg/kg	0.2
Chromium	DETSC 2301#	0.15	mg/kg	26
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	29
Iron	DETSC 2301	25	mg/kg	40000
Lead	DETSC 2301#	0.3	mg/kg	35
Magnesium	DETSC 2301*	1	mg/kg	6200
Manganese	DETSC 2301#	20	mg/kg	700
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	0.4
Nickel	DETSC 2301#	1	mg/kg	37
Silicon	DETSC 2301*	10	mg/kg	170000
Vanadium	DETSC 2301#	0.8	mg/kg	31
Zinc	DETSC 2301#	1	mg/kg	100
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	8.6
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.3
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	2.6
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	120
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666345
Sample ID	PRAIRIE_AUK_TP136_SO_0290
Depth	2.90
Other ID	10
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666345
Sample ID	PRAIRIE_AUK_TP136_SO_0290
Depth	2.90
Other ID	10
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666345
Sample ID	PRAIRIE_AUK_TP136_SO_0290
Depth	2.90
Other ID	10
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666346
Sample ID	PRAIRIE_AUK_TP165_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	5900
Antimony	DETSC 2301*	1	mg/kg	2.5
Arsenic	DETSC 2301#	0.2	mg/kg	23
Barium	DETSC 2301#	1.5	mg/kg	150
Beryllium	DETSC 2301#	0.2	mg/kg	0.4
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.4
Cadmium	DETSC 2301#	0.1	mg/kg	0.4
Chromium	DETSC 2301#	0.15	mg/kg	120
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	28
Iron	DETSC 2301	25	mg/kg	41000
Lead	DETSC 2301#	0.3	mg/kg	43
Magnesium	DETSC 2301*	1	mg/kg	10000
Manganese	DETSC 2301#	20	mg/kg	18000
Mercury	DETSC 2325#	0.05	mg/kg	0.11
Molybdenum	DETSC 2301#	0.4	mg/kg	1.6
Nickel	DETSC 2301#	1	mg/kg	15
Silicon	DETSC 2301*	10	mg/kg	53000
Vanadium	DETSC 2301#	0.8	mg/kg	470
Zinc	DETSC 2301#	1	mg/kg	120
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.4
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	1.0
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.6
Organic matter	DETSC 2002#	0.1	%	13
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	170
Sulphur (free)	DETSC 3049#	0.75	mg/kg	1.4

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666346
Sample ID	PRAIRIE_AUK_TP165_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.42
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.06
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.05
Fluorene	DETSC 3303	0.03	mg/kg	0.07
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.91
Anthracene	DETSC 3303	0.03	mg/kg	0.26
Fluoranthene	DETSC 3303#	0.03	mg/kg	1.0
Pyrene	DETSC 3303#	0.03	mg/kg	0.83
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.40
Chrysene	DETSC 3303	0.03	mg/kg	0.51
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.49
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.18
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.26
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.15



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666346
Sample ID	PRAIRIE_AUK_TP165_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.05
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.19
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	5.8



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666346
Sample ID	PRAIRIE_AUK_TP165_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666347
Sample ID	PRAIRIE_AUK_TP167_SO_0250
Depth	2.50
Other ID	6
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	11000
Antimony	DETSC 2301*	1	mg/kg	2.5
Arsenic	DETSC 2301#	0.2	mg/kg	5.8
Barium	DETSC 2301#	1.5	mg/kg	220
Beryllium	DETSC 2301#	0.2	mg/kg	0.9
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.7
Cadmium	DETSC 2301#	0.1	mg/kg	0.2
Chromium	DETSC 2301#	0.15	mg/kg	120
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	17
Iron	DETSC 2301	25	mg/kg	42000
Lead	DETSC 2301#	0.3	mg/kg	31
Magnesium	DETSC 2301*	1	mg/kg	17000
Manganese	DETSC 2301#	20	mg/kg	8400
Mercury	DETSC 2325#	0.05	mg/kg	0.13
Molybdenum	DETSC 2301#	0.4	mg/kg	1.0
Nickel	DETSC 2301#	1	mg/kg	12
Silicon	DETSC 2301*	10	mg/kg	64000
Vanadium	DETSC 2301#	0.8	mg/kg	410
Zinc	DETSC 2301#	1	mg/kg	78
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.3
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	2.2
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.7
Organic matter	DETSC 2002#	0.1	%	1.6
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	220
Sulphur (free)	DETSC 3049#	0.75	mg/kg	1.9

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666347
Sample ID	PRAIRIE_AUK_TP167_SO_0250
Depth	2.50
Other ID	6
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.20
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.06
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.09
Fluorene	DETSC 3303	0.03	mg/kg	0.12
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.5
Anthracene	DETSC 3303	0.03	mg/kg	0.37
Fluoranthene	DETSC 3303#	0.03	mg/kg	1.8
Pyrene	DETSC 3303#	0.03	mg/kg	1.4
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.55
Chrysene	DETSC 3303	0.03	mg/kg	0.69
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.69
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.26
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.32
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.20



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666347
Sample ID	PRAIRIE_AUK_TP167_SO_0250
Depth	2.50
Other ID	6
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.06
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.24
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	8.6



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666347
Sample ID	PRAIRIE_AUK_TP167_SO_0250
Depth	2.50
Other ID	6
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666348
Sample ID	PRAIRIE_AUK_TP169_SO_0150
Depth	1.50
Other ID	3
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	< 0.001
Metals				
Aluminium	DETSC 2301*	1	mg/kg	8600
Antimony	DETSC 2301*	1	mg/kg	1.7
Arsenic	DETSC 2301#	0.2	mg/kg	7.3
Barium	DETSC 2301#	1.5	mg/kg	120
Beryllium	DETSC 2301#	0.2	mg/kg	0.5
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.7
Chromium	DETSC 2301#	0.15	mg/kg	46
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	39
Iron	DETSC 2301	25	mg/kg	27000
Lead	DETSC 2301#	0.3	mg/kg	68
Magnesium	DETSC 2301*	1	mg/kg	6300
Manganese	DETSC 2301#	20	mg/kg	2000
Mercury	DETSC 2325#	0.05	mg/kg	0.10
Molybdenum	DETSC 2301#	0.4	mg/kg	1.7
Nickel	DETSC 2301#	1	mg/kg	24
Silicon	DETSC 2301*	10	mg/kg	110000
Vanadium	DETSC 2301#	0.8	mg/kg	75
Zinc	DETSC 2301#	1	mg/kg	150
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	9.8
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.6
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.8
Organic matter	DETSC 2002#	0.1	%	13
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	110
Sulphur (free)	DETSC 3049#	0.75	mg/kg	1.1

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666348
Sample ID	PRAIRIE_AUK_TP169_SO_0150
Depth	1.50
Other ID	3
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.38
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.09
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	0.13
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.9
Anthracene	DETSC 3303	0.03	mg/kg	0.50
Fluoranthene	DETSC 3303#	0.03	mg/kg	2.1
Pyrene	DETSC 3303#	0.03	mg/kg	1.7
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.65
Chrysene	DETSC 3303	0.03	mg/kg	0.67
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.56
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.22
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.31
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.13



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666348
Sample ID	PRAIRIE_AUK_TP169_SO_0150
Depth	1.50
Other ID	3
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.04
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.16
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	9.5



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666348
Sample ID	PRAIRIE_AUK_TP169_SO_0150
Depth	1.50
Other ID	3
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666610
Sample ID	PRAIRIE_AUK_BH108_SO_0250
Depth	2.50
Other ID	1
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	17000
Antimony	DETSC 2301*	1	mg/kg	2.0
Arsenic	DETSC 2301#	0.2	mg/kg	10
Barium	DETSC 2301#	1.5	mg/kg	240
Beryllium	DETSC 2301#	0.2	mg/kg	1.6
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.4
Cadmium	DETSC 2301#	0.1	mg/kg	0.3
Chromium	DETSC 2301#	0.15	mg/kg	76
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	46
Iron	DETSC 2301	25	mg/kg	46000
Lead	DETSC 2301#	0.3	mg/kg	38
Magnesium	DETSC 2301*	1	mg/kg	12000
Manganese	DETSC 2301#	20	mg/kg	1800
Mercury	DETSC 2325#	0.05	mg/kg	0.27
Molybdenum	DETSC 2301#	0.4	mg/kg	1.0
Nickel	DETSC 2301#	1	mg/kg	37
Silicon	DETSC 2301*	10	mg/kg	160000
Vanadium	DETSC 2301#	0.8	mg/kg	200
Zinc	DETSC 2301#	1	mg/kg	140
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.0
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	2.0
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	2.6
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	180
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666610
Sample ID	PRAIRIE_AUK_BH108_SO_0250
Depth	2.50
Other ID	1
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.04
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.08
Pyrene	DETSC 3303#	0.03	mg/kg	0.07
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.04
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666610
Sample ID	PRAIRIE_AUK_BH108_SO_0250
Depth	2.50
Other ID	1
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	0.23



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666610
Sample ID	PRAIRIE_AUK_BH108_SO_0250
Depth	2.50
Other ID	1
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666611
Sample ID	PRAIRIE_AUK_TP139B_SO_0030
Depth	0.30
Other ID	3
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	< 0.001
Metals				
Aluminium	DETSC 2301*	1	mg/kg	26000
Antimony	DETSC 2301*	1	mg/kg	5.4
Arsenic	DETSC 2301#	0.2	mg/kg	43
Barium	DETSC 2301#	1.5	mg/kg	810
Beryllium	DETSC 2301#	0.2	mg/kg	3.1
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	6.6
Cadmium	DETSC 2301#	0.1	mg/kg	1.9
Chromium	DETSC 2301#	0.15	mg/kg	77
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	94
Iron	DETSC 2301	25	mg/kg	84000
Lead	DETSC 2301#	0.3	mg/kg	410
Magnesium	DETSC 2301*	1	mg/kg	21000
Manganese	DETSC 2301#	20	mg/kg	16000
Mercury	DETSC 2325#	0.05	mg/kg	3.6
Molybdenum	DETSC 2301#	0.4	mg/kg	3.5
Nickel	DETSC 2301#	1	mg/kg	31
Silicon	DETSC 2301*	10	mg/kg	47000
Vanadium	DETSC 2301#	0.8	mg/kg	140
Zinc	DETSC 2301#	1	mg/kg	1200
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.0
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	220
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.4
Thiocyanate	DETSC 2130#	0.6	mg/kg	3.1
Organic matter	DETSC 2002#	0.1	%	2.1
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	740
Sulphur (free)	DETSC 3049#	0.75	mg/kg	2.4

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666611
Sample ID	PRAIRIE_AUK_TP139B_SO_0030
Depth	0.30
Other ID	3
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.45
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.10
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.60
Fluorene	DETSC 3303	0.03	mg/kg	0.55
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.5
Anthracene	DETSC 3303	0.03	mg/kg	0.34
Fluoranthene	DETSC 3303#	0.03	mg/kg	1.6
Pyrene	DETSC 3303#	0.03	mg/kg	1.3
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.30
Chrysene	DETSC 3303	0.03	mg/kg	0.52
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.43
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.17
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.20
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.12



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666611
Sample ID	PRAIRIE_AUK_TP139B_SO_0030
Depth	0.30
Other ID	3
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.04
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.16
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	8.3



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666611
Sample ID	PRAIRIE_AUK_TP139B_SO_0030
Depth	0.30
Other ID	3
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666612
Sample ID	PRAIRIE_AUK_TP139B_SO_0330
Depth	3.30
Other ID	6
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	14000
Antimony	DETSC 2301*	1	mg/kg	1.4
Arsenic	DETSC 2301#	0.2	mg/kg	7.8
Barium	DETSC 2301#	1.5	mg/kg	330
Beryllium	DETSC 2301#	0.2	mg/kg	1.0
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.5
Cadmium	DETSC 2301#	0.1	mg/kg	0.2
Chromium	DETSC 2301#	0.15	mg/kg	24
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	29
Iron	DETSC 2301	25	mg/kg	40000
Lead	DETSC 2301#	0.3	mg/kg	28
Magnesium	DETSC 2301*	1	mg/kg	8700
Manganese	DETSC 2301#	20	mg/kg	700
Mercury	DETSC 2325#	0.05	mg/kg	0.06
Molybdenum	DETSC 2301#	0.4	mg/kg	0.4
Nickel	DETSC 2301#	1	mg/kg	33
Silicon	DETSC 2301*	10	mg/kg	160000
Vanadium	DETSC 2301#	0.8	mg/kg	30
Zinc	DETSC 2301#	1	mg/kg	99
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	8.1
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	2.0
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	3.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	320
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666612
Sample ID	PRAIRIE_AUK_TP139B_SO_0330
Depth	3.30
Other ID	6
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.31
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.05
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.36
Fluorene	DETSC 3303	0.03	mg/kg	0.27
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.33
Anthracene	DETSC 3303	0.03	mg/kg	0.06
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.11
Pyrene	DETSC 3303#	0.03	mg/kg	0.08
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.04
Chrysene	DETSC 3303	0.03	mg/kg	0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666612
Sample ID	PRAIRIE_AUK_TP139B_SO_0330
Depth	3.30
Other ID	6
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	1.6



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666612
Sample ID	PRAIRIE_AUK_TP139B_SO_0330
Depth	3.30
Other ID	6
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666613
Sample ID	PRAIRIE_AUK_TP148A_SO_0140
Depth	1.40
Other ID	5
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	20000
Antimony	DETSC 2301*	1	mg/kg	2.7
Arsenic	DETSC 2301#	0.2	mg/kg	24
Barium	DETSC 2301#	1.5	mg/kg	330
Beryllium	DETSC 2301#	0.2	mg/kg	2.3
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	3.7
Cadmium	DETSC 2301#	0.1	mg/kg	1.0
Chromium	DETSC 2301#	0.15	mg/kg	69
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	39
Iron	DETSC 2301	25	mg/kg	53000
Lead	DETSC 2301#	0.3	mg/kg	65
Magnesium	DETSC 2301*	1	mg/kg	14000
Manganese	DETSC 2301#	20	mg/kg	16000
Mercury	DETSC 2325#	0.05	mg/kg	1.3
Molybdenum	DETSC 2301#	0.4	mg/kg	2.9
Nickel	DETSC 2301#	1	mg/kg	23
Silicon	DETSC 2301*	10	mg/kg	51000
Vanadium	DETSC 2301#	0.8	mg/kg	110
Zinc	DETSC 2301#	1	mg/kg	200
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.3
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	22
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	1.2
Organic matter	DETSC 2002#	0.1	%	2.7
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	630
Sulphur (free)	DETSC 3049#	0.75	mg/kg	63

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666613
Sample ID	PRAIRIE_AUK_TP148A_SO_0140
Depth	1.40
Other ID	5
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.23
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.27
Fluorene	DETSC 3303	0.03	mg/kg	0.21
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.5
Anthracene	DETSC 3303	0.03	mg/kg	0.18
Fluoranthene	DETSC 3303#	0.03	mg/kg	2.2
Pyrene	DETSC 3303#	0.03	mg/kg	1.8
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.50
Chrysene	DETSC 3303	0.03	mg/kg	0.77
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.66
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.29
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.44
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.20



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666613
Sample ID	PRAIRIE_AUK_TP148A_SO_0140
Depth	1.40
Other ID	5
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.06
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.24
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	9.4



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666613
Sample ID	PRAIRIE_AUK_TP148A_SO_0140
Depth	1.40
Other ID	5
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666614
Sample ID	PRAIRIE_AUK_TP150_SO_0150
Depth	1.50
Other ID	3
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	0.009
Metals				
Aluminium	DETSC 2301*	1	mg/kg	7700
Antimony	DETSC 2301*	1	mg/kg	7.6
Arsenic	DETSC 2301#	0.2	mg/kg	30
Barium	DETSC 2301#	1.5	mg/kg	400
Beryllium	DETSC 2301#	0.2	mg/kg	0.8
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.9
Cadmium	DETSC 2301#	0.1	mg/kg	1.3
Chromium	DETSC 2301#	0.15	mg/kg	75
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	130
Iron	DETSC 2301	25	mg/kg	180000
Lead	DETSC 2301#	0.3	mg/kg	420
Magnesium	DETSC 2301*	1	mg/kg	8200
Manganese	DETSC 2301#	20	mg/kg	2400
Mercury	DETSC 2325#	0.05	mg/kg	2.6
Molybdenum	DETSC 2301#	0.4	mg/kg	5.8
Nickel	DETSC 2301#	1	mg/kg	54
Silicon	DETSC 2301*	10	mg/kg	53000
Vanadium	DETSC 2301#	0.8	mg/kg	110
Zinc	DETSC 2301#	1	mg/kg	830
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.1
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	8.2
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	2.1
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	350
Sulphur (free)	DETSC 3049#	0.75	mg/kg	3.5

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666614
Sample ID	PRAIRIE_AUK_TP150_SO_0150
Depth	1.50
Other ID	3
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.53
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.07
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.67
Fluorene	DETSC 3303	0.03	mg/kg	0.49
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.6
Anthracene	DETSC 3303	0.03	mg/kg	0.34
Fluoranthene	DETSC 3303#	0.03	mg/kg	2.1
Pyrene	DETSC 3303#	0.03	mg/kg	1.7
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.50
Chrysene	DETSC 3303	0.03	mg/kg	0.68
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.67
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.28
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.36
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.20



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666614
Sample ID	PRAIRIE_AUK_TP150_SO_0150
Depth	1.50
Other ID	3
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.06
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.24
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	10



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666614
Sample ID	PRAIRIE_AUK_TP150_SO_0150
Depth	1.50
Other ID	3
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666615
Sample ID	PRAIRIE_AUK_TP159_SO_0060
Depth	0.60
Other ID	3
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	0.002
Metals				
Aluminium	DETSC 2301*	1	mg/kg	15000
Antimony	DETSC 2301*	1	mg/kg	< 1.0
Arsenic	DETSC 2301#	0.2	mg/kg	6.1
Barium	DETSC 2301#	1.5	mg/kg	340
Beryllium	DETSC 2301#	0.2	mg/kg	3.2
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.0
Cadmium	DETSC 2301#	0.1	mg/kg	0.1
Chromium	DETSC 2301#	0.15	mg/kg	53
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	14
Iron	DETSC 2301	25	mg/kg	18000
Lead	DETSC 2301#	0.3	mg/kg	13
Magnesium	DETSC 2301*	1	mg/kg	12000
Manganese	DETSC 2301#	20	mg/kg	4600
Mercury	DETSC 2325#	0.05	mg/kg	0.13
Molybdenum	DETSC 2301#	0.4	mg/kg	0.7
Nickel	DETSC 2301#	1	mg/kg	5.8
Silicon	DETSC 2301*	10	mg/kg	59000
Vanadium	DETSC 2301#	0.8	mg/kg	160
Zinc	DETSC 2301#	1	mg/kg	65
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.7
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.9
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	1.5
Organic matter	DETSC 2002#	0.1	%	2.0
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	550
Sulphur (free)	DETSC 3049#	0.75	mg/kg	12

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666615
Sample ID	PRAIRIE_AUK_TP159_SO_0060
Depth	0.60
Other ID	3
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	18
Aromatic C5-C35	DETSC 3072*	10	mg/kg	18
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	18
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.20
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.08
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.23
Fluorene	DETSC 3303	0.03	mg/kg	0.16
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.27
Anthracene	DETSC 3303	0.03	mg/kg	0.10
Fluoranthene	DETSC 3303#	0.03	mg/kg	1.1
Pyrene	DETSC 3303#	0.03	mg/kg	1.6
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.39
Chrysene	DETSC 3303	0.03	mg/kg	0.73
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	1.5
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.70
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.77
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.49



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666615
Sample ID	PRAIRIE_AUK_TP159_SO_0060
Depth	0.60
Other ID	3
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.14
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.59
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	9.0



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666615
Sample ID	PRAIRIE_AUK_TP159_SO_0060
Depth	0.60
Other ID	3
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666616
Sample ID	PRAIRIE_AUK_TP190A_SO_0110
Depth	1.10
Other ID	3
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	0.003
Metals				
Aluminium	DETSC 2301*	1	mg/kg	15000
Antimony	DETSC 2301*	1	mg/kg	1.6
Arsenic	DETSC 2301#	0.2	mg/kg	21
Barium	DETSC 2301#	1.5	mg/kg	560
Beryllium	DETSC 2301#	0.2	mg/kg	1.3
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	6.6
Cadmium	DETSC 2301#	0.1	mg/kg	1.5
Chromium	DETSC 2301#	0.15	mg/kg	24
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	54
Iron	DETSC 2301	25	mg/kg	34000
Lead	DETSC 2301#	0.3	mg/kg	160
Magnesium	DETSC 2301*	1	mg/kg	8900
Manganese	DETSC 2301#	20	mg/kg	24000
Mercury	DETSC 2325#	0.05	mg/kg	1.8
Molybdenum	DETSC 2301#	0.4	mg/kg	3.6
Nickel	DETSC 2301#	1	mg/kg	24
Silicon	DETSC 2301*	10	mg/kg	62000
Vanadium	DETSC 2301#	0.8	mg/kg	49
Zinc	DETSC 2301#	1	mg/kg	630
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.8
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	240
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.6
Thiocyanate	DETSC 2130#	0.6	mg/kg	4.7
Organic matter	DETSC 2002#	0.1	%	2.6
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	530
Sulphur (free)	DETSC 3049#	0.75	mg/kg	1.1

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666616
Sample ID	PRAIRIE_AUK_TP190A_SO_0110
Depth	1.10
Other ID	3
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.07
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.16
Fluorene	DETSC 3303	0.03	mg/kg	0.09
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.4
Anthracene	DETSC 3303	0.03	mg/kg	0.14
Fluoranthene	DETSC 3303#	0.03	mg/kg	3.0
Pyrene	DETSC 3303#	0.03	mg/kg	2.8
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.96
Chrysene	DETSC 3303	0.03	mg/kg	1.1
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	1.2
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.51
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.80
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.31



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666616
Sample ID	PRAIRIE_AUK_TP190A_SO_0110
Depth	1.10
Other ID	3
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.09
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.38
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	13



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666616
Sample ID	PRAIRIE_AUK_TP190A_SO_0110
Depth	1.10
Other ID	3
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667231
Sample ID	PRAIRIE_AUK_BH105_SO_0300
Depth	3.00
Other ID	1
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	13000
Antimony	DETSC 2301*	1	mg/kg	2.0
Arsenic	DETSC 2301#	0.2	mg/kg	8.7
Barium	DETSC 2301#	1.5	mg/kg	170
Beryllium	DETSC 2301#	0.2	mg/kg	1.1
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.2
Chromium	DETSC 2301#	0.15	mg/kg	34
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	40
Iron	DETSC 2301	25	mg/kg	41000
Lead	DETSC 2301#	0.3	mg/kg	40
Magnesium	DETSC 2301*	1	mg/kg	10000
Manganese	DETSC 2301#	20	mg/kg	730
Mercury	DETSC 2325#	0.05	mg/kg	0.07
Molybdenum	DETSC 2301#	0.4	mg/kg	1.0
Nickel	DETSC 2301#	1	mg/kg	37
Silicon	DETSC 2301*	10	mg/kg	160000
Vanadium	DETSC 2301#	0.8	mg/kg	41
Zinc	DETSC 2301#	1	mg/kg	140
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	8.5
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	2.1
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	220
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667231
Sample ID	PRAIRIE_AUK_BH105_SO_0300
Depth	3.00
Other ID	1
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.04
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667231
Sample ID	PRAIRIE_AUK_BH105_SO_0300
Depth	3.00
Other ID	1
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667231
Sample ID	PRAIRIE_AUK_BH105_SO_0300
Depth	3.00
Other ID	1
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667232
Sample ID	PRAIRIE_AUK_TP126_SO_0260
Depth	2.60
Other ID	5
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	9800
Antimony	DETSC 2301*	1	mg/kg	4.1
Arsenic	DETSC 2301#	0.2	mg/kg	13
Barium	DETSC 2301#	1.5	mg/kg	160
Beryllium	DETSC 2301#	0.2	mg/kg	1.1
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	5.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.5
Chromium	DETSC 2301#	0.15	mg/kg	50
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	86
Iron	DETSC 2301	25	mg/kg	110000
Lead	DETSC 2301#	0.3	mg/kg	82
Magnesium	DETSC 2301*	1	mg/kg	7500
Manganese	DETSC 2301#	20	mg/kg	2200
Mercury	DETSC 2325#	0.05	mg/kg	0.22
Molybdenum	DETSC 2301#	0.4	mg/kg	2.2
Nickel	DETSC 2301#	1	mg/kg	28
Silicon	DETSC 2301*	10	mg/kg	23000
Vanadium	DETSC 2301#	0.8	mg/kg	160
Zinc	DETSC 2301#	1	mg/kg	440
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.3
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	7.9
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	1.2
Organic matter	DETSC 2002#	0.1	%	12
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	1200
Sulphur (free)	DETSC 3049#	0.75	mg/kg	24

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667232
Sample ID	PRAIRIE_AUK_TP126_SO_0260
Depth	2.60
Other ID	5
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.14
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.05
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.30
Fluorene	DETSC 3303	0.03	mg/kg	0.29
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.73
Anthracene	DETSC 3303	0.03	mg/kg	0.77
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.56
Pyrene	DETSC 3303#	0.03	mg/kg	0.45
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.19
Chrysene	DETSC 3303	0.03	mg/kg	0.19
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.20
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.09
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.12
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.07



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667232
Sample ID	PRAIRIE_AUK_TP126_SO_0260
Depth	2.60
Other ID	5
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.07
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	4.2



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667232
Sample ID	PRAIRIE_AUK_TP126_SO_0260
Depth	2.60
Other ID	5
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667233
Sample ID	PRAIRIE_AUK_TP128_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	< 0.001
Metals				
Aluminium	DETSC 2301*	1	mg/kg	3300
Antimony	DETSC 2301*	1	mg/kg	< 1.0
Arsenic	DETSC 2301#	0.2	mg/kg	5.4
Barium	DETSC 2301#	1.5	mg/kg	89
Beryllium	DETSC 2301#	0.2	mg/kg	0.8
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.3
Cadmium	DETSC 2301#	0.1	mg/kg	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg	8.8
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	35
Iron	DETSC 2301	25	mg/kg	4800
Lead	DETSC 2301#	0.3	mg/kg	27
Magnesium	DETSC 2301*	1	mg/kg	1500
Manganese	DETSC 2301#	20	mg/kg	61
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	< 0.4
Nickel	DETSC 2301#	1	mg/kg	12
Silicon	DETSC 2301*	10	mg/kg	140000
Vanadium	DETSC 2301#	0.8	mg/kg	10
Zinc	DETSC 2301#	1	mg/kg	39
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	8.6
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.6
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	3.6
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	25
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667233
Sample ID	PRAIRIE_AUK_TP128_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	0.20
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	25
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	2.1
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	28
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	2.2
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	320
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	1400
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	6.4
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	1700
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	1700
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	520
Acenaphthylene	DETSC 3303#	0.03	mg/kg	5.5
Acenaphthene	DETSC 3303#	0.03	mg/kg	520
Fluorene	DETSC 3303	0.03	mg/kg	100
Phenanthrene	DETSC 3303#	0.03	mg/kg	5.1
Anthracene	DETSC 3303	0.03	mg/kg	1.1
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.34
Pyrene	DETSC 3303#	0.03	mg/kg	0.24
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.15
Chrysene	DETSC 3303	0.03	mg/kg	0.16
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.17
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.08
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.10
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.09



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667233
Sample ID	PRAIRIE_AUK_TP128_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.08
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	1200



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667233
Sample ID	PRAIRIE_AUK_TP128_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667234
Sample ID	PRAIRIE_AUK_TP129_SO_0210
Depth	2.10
Other ID	4A
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	11000
Antimony	DETSC 2301*	1	mg/kg	1.4
Arsenic	DETSC 2301#	0.2	mg/kg	8.2
Barium	DETSC 2301#	1.5	mg/kg	430
Beryllium	DETSC 2301#	0.2	mg/kg	1.0
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.8
Cadmium	DETSC 2301#	0.1	mg/kg	0.4
Chromium	DETSC 2301#	0.15	mg/kg	25
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	29
Iron	DETSC 2301	25	mg/kg	35000
Lead	DETSC 2301#	0.3	mg/kg	40
Magnesium	DETSC 2301*	1	mg/kg	4100
Manganese	DETSC 2301#	20	mg/kg	1300
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	0.6
Nickel	DETSC 2301#	1	mg/kg	39
Silicon	DETSC 2301*	10	mg/kg	180000
Vanadium	DETSC 2301#	0.8	mg/kg	33
Zinc	DETSC 2301#	1	mg/kg	140
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	8.8
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.5
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	2.1
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	270
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667234
Sample ID	PRAIRIE_AUK_TP129_SO_0210
Depth	2.10
Other ID	4A
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	3.2
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	3.6
Fluorene	DETSC 3303	0.03	mg/kg	0.66
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.09
Anthracene	DETSC 3303	0.03	mg/kg	0.09
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667234
Sample ID	PRAIRIE_AUK_TP129_SO_0210
Depth	2.10
Other ID	4A
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	7.7



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667234
Sample ID	PRAIRIE_AUK_TP129_SO_0210
Depth	2.10
Other ID	4A
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667235
Sample ID	PRAIRIE_AUK_TP130_SO_0100
Depth	1.00
Other ID	4A
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	9200
Antimony	DETSC 2301*	1	mg/kg	2.9
Arsenic	DETSC 2301#	0.2	mg/kg	34
Barium	DETSC 2301#	1.5	mg/kg	130
Beryllium	DETSC 2301#	0.2	mg/kg	1.6
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.6
Cadmium	DETSC 2301#	0.1	mg/kg	0.4
Chromium	DETSC 2301#	0.15	mg/kg	69
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	56
Iron	DETSC 2301	25	mg/kg	60000
Lead	DETSC 2301#	0.3	mg/kg	100
Magnesium	DETSC 2301*	1	mg/kg	4400
Manganese	DETSC 2301#	20	mg/kg	2200
Mercury	DETSC 2325#	0.05	mg/kg	0.18
Molybdenum	DETSC 2301#	0.4	mg/kg	1.7
Nickel	DETSC 2301#	1	mg/kg	38
Silicon	DETSC 2301*	10	mg/kg	93000
Vanadium	DETSC 2301#	0.8	mg/kg	170
Zinc	DETSC 2301#	1	mg/kg	280
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	9.3
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	3.0
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	5.3
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	100
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667235
Sample ID	PRAIRIE_AUK_TP130_SO_0100
Depth	1.00
Other ID	4A
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.05
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.16
Fluorene	DETSC 3303	0.03	mg/kg	0.04
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.18
Anthracene	DETSC 3303	0.03	mg/kg	0.04
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.24
Pyrene	DETSC 3303#	0.03	mg/kg	0.20
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.11
Chrysene	DETSC 3303	0.03	mg/kg	0.13
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.11
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.06
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.05
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.05



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667235
Sample ID	PRAIRIE_AUK_TP130_SO_0100
Depth	1.00
Other ID	4A
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.04
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	1.4



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667235
Sample ID	PRAIRIE_AUK_TP130_SO_0100
Depth	1.00
Other ID	4A
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667236
Sample ID	PRAIRIE_AUK_TP147_SO_0150
Depth	1.50
Other ID	4
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	< 0.001
Metals				
Aluminium	DETSC 2301*	1	mg/kg	19000
Antimony	DETSC 2301*	1	mg/kg	3.6
Arsenic	DETSC 2301#	0.2	mg/kg	14
Barium	DETSC 2301#	1.5	mg/kg	390
Beryllium	DETSC 2301#	0.2	mg/kg	1.9
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	3.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.8
Chromium	DETSC 2301#	0.15	mg/kg	99
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	58
Iron	DETSC 2301	25	mg/kg	56000
Lead	DETSC 2301#	0.3	mg/kg	220
Magnesium	DETSC 2301*	1	mg/kg	14000
Manganese	DETSC 2301#	20	mg/kg	4100
Mercury	DETSC 2325#	0.05	mg/kg	0.83
Molybdenum	DETSC 2301#	0.4	mg/kg	1.8
Nickel	DETSC 2301#	1	mg/kg	20
Silicon	DETSC 2301*	10	mg/kg	87000
Vanadium	DETSC 2301#	0.8	mg/kg	190
Zinc	DETSC 2301#	1	mg/kg	340
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.9
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	29
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.5
Thiocyanate	DETSC 2130#	0.6	mg/kg	2.5
Organic matter	DETSC 2002#	0.1	%	2.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	480
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667236
Sample ID	PRAIRIE_AUK_TP147_SO_0150
Depth	1.50
Other ID	4
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	1.3
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	4.8
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	23
Aromatic C5-C35	DETSC 3072*	10	mg/kg	29
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	29
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.07
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.09
Fluorene	DETSC 3303	0.03	mg/kg	0.05
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.73
Anthracene	DETSC 3303	0.03	mg/kg	0.77
Fluoranthene	DETSC 3303#	0.03	mg/kg	2.0
Pyrene	DETSC 3303#	0.03	mg/kg	2.0
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	1.1
Chrysene	DETSC 3303	0.03	mg/kg	1.1
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	1.4
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.61
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.88
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.55



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667236
Sample ID	PRAIRIE_AUK_TP147_SO_0150
Depth	1.50
Other ID	4
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.17
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.65
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	12



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667236
Sample ID	PRAIRIE_AUK_TP147_SO_0150
Depth	1.50
Other ID	4
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667237
Sample ID	PRAIRIE_AUK_TP158_SO_0130
Depth	1.30
Other ID	3
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	10000
Antimony	DETSC 2301*	1	mg/kg	1.8
Arsenic	DETSC 2301#	0.2	mg/kg	9.1
Barium	DETSC 2301#	1.5	mg/kg	390
Beryllium	DETSC 2301#	0.2	mg/kg	1.7
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	7.4
Cadmium	DETSC 2301#	0.1	mg/kg	0.6
Chromium	DETSC 2301#	0.15	mg/kg	24
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	94
Iron	DETSC 2301	25	mg/kg	32000
Lead	DETSC 2301#	0.3	mg/kg	130
Magnesium	DETSC 2301*	1	mg/kg	7700
Manganese	DETSC 2301#	20	mg/kg	1000
Mercury	DETSC 2325#	0.05	mg/kg	0.56
Molybdenum	DETSC 2301#	0.4	mg/kg	1.2
Nickel	DETSC 2301#	1	mg/kg	13
Silicon	DETSC 2301*	10	mg/kg	95000
Vanadium	DETSC 2301#	0.8	mg/kg	37
Zinc	DETSC 2301#	1	mg/kg	710
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	9.9
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	57
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.2
Thiocyanate	DETSC 2130#	0.6	mg/kg	3.3
Organic matter	DETSC 2002#	0.1	%	2.7
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	620
Sulphur (free)	DETSC 3049#	0.75	mg/kg	14

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667237
Sample ID	PRAIRIE_AUK_TP158_SO_0130
Depth	1.30
Other ID	3
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	1.3
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	7.2
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.47
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.55
Fluorene	DETSC 3303	0.03	mg/kg	0.11
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.44
Anthracene	DETSC 3303	0.03	mg/kg	0.08
Fluoranthene	DETSC 3303#	0.03	mg/kg	1.2
Pyrene	DETSC 3303#	0.03	mg/kg	1.1
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.55
Chrysene	DETSC 3303	0.03	mg/kg	0.57
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.66
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.31
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.39
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.28



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667237
Sample ID	PRAIRIE_AUK_TP158_SO_0130
Depth	1.30
Other ID	3
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.05
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.34
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	7.1



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667237
Sample ID	PRAIRIE_AUK_TP158_SO_0130
Depth	1.30
Other ID	3
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667238
Sample ID	PRAIRIE_AUK_TP157_SO_0080
Depth	0.80
Other ID	2
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	< 0.001
Metals				
Aluminium	DETSC 2301*	1	mg/kg	9600
Antimony	DETSC 2301*	1	mg/kg	4.3
Arsenic	DETSC 2301#	0.2	mg/kg	10
Barium	DETSC 2301#	1.5	mg/kg	200
Beryllium	DETSC 2301#	0.2	mg/kg	1.0
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	3.5
Cadmium	DETSC 2301#	0.1	mg/kg	0.8
Chromium	DETSC 2301#	0.15	mg/kg	200
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	40
Iron	DETSC 2301	25	mg/kg	61000
Lead	DETSC 2301#	0.3	mg/kg	140
Magnesium	DETSC 2301*	1	mg/kg	14000
Manganese	DETSC 2301#	20	mg/kg	12000
Mercury	DETSC 2325#	0.05	mg/kg	2.2
Molybdenum	DETSC 2301#	0.4	mg/kg	2.6
Nickel	DETSC 2301#	1	mg/kg	11
Silicon	DETSC 2301*	10	mg/kg	70000
Vanadium	DETSC 2301#	0.8	mg/kg	410
Zinc	DETSC 2301#	1	mg/kg	470
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	12.0
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	25
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	1.5
Organic matter	DETSC 2002#	0.1	%	2.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	65
Sulphur (free)	DETSC 3049#	0.75	mg/kg	1.9

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667238
Sample ID	PRAIRIE_AUK_TP157_SO_0080
Depth	0.80
Other ID	2
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	0.6
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	6.3
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	22
Aromatic C5-C35	DETSC 3072*	10	mg/kg	29
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	29
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.16
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.27
Fluorene	DETSC 3303	0.03	mg/kg	0.05
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.49
Anthracene	DETSC 3303	0.03	mg/kg	0.04
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.72
Pyrene	DETSC 3303#	0.03	mg/kg	0.63
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.54
Chrysene	DETSC 3303	0.03	mg/kg	0.72
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.64
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.26
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.29
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.14



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667238
Sample ID	PRAIRIE_AUK_TP157_SO_0080
Depth	0.80
Other ID	2
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.15
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	5.1



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667238
Sample ID	PRAIRIE_AUK_TP157_SO_0080
Depth	0.80
Other ID	2
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667501
Sample ID	PRAIRIE_AUK_TP120A_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	0.001
Metals				
Aluminium	DETSC 2301*	1	mg/kg	21000
Antimony	DETSC 2301*	1	mg/kg	4.0
Arsenic	DETSC 2301#	0.2	mg/kg	12
Barium	DETSC 2301#	1.5	mg/kg	330
Beryllium	DETSC 2301#	0.2	mg/kg	3.1
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	4.9
Cadmium	DETSC 2301#	0.1	mg/kg	0.8
Chromium	DETSC 2301#	0.15	mg/kg	190
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	56
Iron	DETSC 2301	25	mg/kg	58000
Lead	DETSC 2301#	0.3	mg/kg	89
Magnesium	DETSC 2301*	1	mg/kg	18000
Manganese	DETSC 2301#	20	mg/kg	8200
Mercury	DETSC 2325#	0.05	mg/kg	0.19
Molybdenum	DETSC 2301#	0.4	mg/kg	5.8
Nickel	DETSC 2301#	1	mg/kg	19
Silicon	DETSC 2301*	10	mg/kg	72000
Vanadium	DETSC 2301#	0.8	mg/kg	360
Zinc	DETSC 2301#	1	mg/kg	190
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.3
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	2.2
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.7
Organic matter	DETSC 2002#	0.1	%	2.9
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	250
Sulphur (free)	DETSC 3049#	0.75	mg/kg	33

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667501
Sample ID	PRAIRIE_AUK_TP120A_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	3.4
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	27
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	270
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	300
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	6.8
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	100
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	510
Aromatic C5-C35	DETSC 3072*	10	mg/kg	610
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	910
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.04
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.13
Fluorene	DETSC 3303	0.03	mg/kg	0.05
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.4
Anthracene	DETSC 3303	0.03	mg/kg	0.39
Fluoranthene	DETSC 3303#	0.03	mg/kg	8.2
Pyrene	DETSC 3303#	0.03	mg/kg	12
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	6.6
Chrysene	DETSC 3303	0.03	mg/kg	4.8
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	7.3
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	2.9
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	5.8
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	1.9



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667501
Sample ID	PRAIRIE_AUK_TP120A_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.53
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	2.4
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	54



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667501
Sample ID	PRAIRIE_AUK_TP120A_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667502
Sample ID	PRAIRIE_AUK_TP134_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	8700
Antimony	DETSC 2301*	1	mg/kg	18
Arsenic	DETSC 2301#	0.2	mg/kg	61
Barium	DETSC 2301#	1.5	mg/kg	200
Beryllium	DETSC 2301#	0.2	mg/kg	0.9
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.6
Cadmium	DETSC 2301#	0.1	mg/kg	0.6
Chromium	DETSC 2301#	0.15	mg/kg	240
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	100
Iron	DETSC 2301	25	mg/kg	140000
Lead	DETSC 2301#	0.3	mg/kg	160
Magnesium	DETSC 2301*	1	mg/kg	15000
Manganese	DETSC 2301#	20	mg/kg	26000
Mercury	DETSC 2325#	0.05	mg/kg	0.09
Molybdenum	DETSC 2301#	0.4	mg/kg	4.6
Nickel	DETSC 2301#	1	mg/kg	29
Silicon	DETSC 2301*	10	mg/kg	59000
Vanadium	DETSC 2301#	0.8	mg/kg	680
Zinc	DETSC 2301#	1	mg/kg	180
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.3
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	1.4
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	2.5
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	130
Sulphur (free)	DETSC 3049#	0.75	mg/kg	6.0

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667502
Sample ID	PRAIRIE_AUK_TP134_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	1.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	15
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	69
Aromatic C5-C35	DETSC 3072*	10	mg/kg	86
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	86
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.09
Fluorene	DETSC 3303	0.03	mg/kg	0.12
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.93
Anthracene	DETSC 3303	0.03	mg/kg	0.48
Fluoranthene	DETSC 3303#	0.03	mg/kg	1.5
Pyrene	DETSC 3303#	0.03	mg/kg	1.2
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.62
Chrysene	DETSC 3303	0.03	mg/kg	0.47
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.66
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.29
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.52
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.21



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667502
Sample ID	PRAIRIE_AUK_TP134_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.06
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.25
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	7.4



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667502
Sample ID	PRAIRIE_AUK_TP134_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667503
Sample ID	PRAIRIE_AUK_TP134_SO_0200
Depth	2.00
Other ID	6
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	13000
Antimony	DETSC 2301*	1	mg/kg	1.5
Arsenic	DETSC 2301#	0.2	mg/kg	9.0
Barium	DETSC 2301#	1.5	mg/kg	300
Beryllium	DETSC 2301#	0.2	mg/kg	1.2
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.8
Cadmium	DETSC 2301#	0.1	mg/kg	0.3
Chromium	DETSC 2301#	0.15	mg/kg	29
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	29
Iron	DETSC 2301	25	mg/kg	43000
Lead	DETSC 2301#	0.3	mg/kg	30
Magnesium	DETSC 2301*	1	mg/kg	7300
Manganese	DETSC 2301#	20	mg/kg	850
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	0.5
Nickel	DETSC 2301#	1	mg/kg	38
Silicon	DETSC 2301*	10	mg/kg	170000
Vanadium	DETSC 2301#	0.8	mg/kg	36
Zinc	DETSC 2301#	1	mg/kg	99
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	8.7
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	2.3
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	78
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667503
Sample ID	PRAIRIE_AUK_TP134_SO_0200
Depth	2.00
Other ID	6
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667503
Sample ID	PRAIRIE_AUK_TP134_SO_0200
Depth	2.00
Other ID	6
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667503
Sample ID	PRAIRIE_AUK_TP134_SO_0200
Depth	2.00
Other ID	6
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667504
Sample ID	PRAIRIE_AUK_TP161_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	12000
Antimony	DETSC 2301*	1	mg/kg	5.5
Arsenic	DETSC 2301#	0.2	mg/kg	8.1
Barium	DETSC 2301#	1.5	mg/kg	260
Beryllium	DETSC 2301#	0.2	mg/kg	1.9
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.8
Cadmium	DETSC 2301#	0.1	mg/kg	0.2
Chromium	DETSC 2301#	0.15	mg/kg	150
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	150
Iron	DETSC 2301	25	mg/kg	53000
Lead	DETSC 2301#	0.3	mg/kg	59
Magnesium	DETSC 2301*	1	mg/kg	11000
Manganese	DETSC 2301#	20	mg/kg	3400
Mercury	DETSC 2325#	0.05	mg/kg	0.08
Molybdenum	DETSC 2301#	0.4	mg/kg	1.8
Nickel	DETSC 2301#	1	mg/kg	15
Silicon	DETSC 2301*	10	mg/kg	80000
Vanadium	DETSC 2301#	0.8	mg/kg	160
Zinc	DETSC 2301#	1	mg/kg	110
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.4
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.5
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.6
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	100
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667504
Sample ID	PRAIRIE_AUK_TP161_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	30
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	31
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	4.4
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	29
Aromatic C5-C35	DETSC 3072*	10	mg/kg	33
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	64
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.15
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.32
Pyrene	DETSC 3303#	0.03	mg/kg	0.33
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.19
Chrysene	DETSC 3303	0.03	mg/kg	0.19
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.11
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.13
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.09



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667504
Sample ID	PRAIRIE_AUK_TP161_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.11
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	1.6



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667504
Sample ID	PRAIRIE_AUK_TP161_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667505
Sample ID	PRAIRIE_AUK_TP166_SO_0045
Depth	0.45
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	0.001
Metals				
Aluminium	DETSC 2301*	1	mg/kg	28000
Antimony	DETSC 2301*	1	mg/kg	5.1
Arsenic	DETSC 2301#	0.2	mg/kg	22
Barium	DETSC 2301#	1.5	mg/kg	700
Beryllium	DETSC 2301#	0.2	mg/kg	3.4
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.9
Chromium	DETSC 2301#	0.15	mg/kg	140
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	160
Iron	DETSC 2301	25	mg/kg	91000
Lead	DETSC 2301#	0.3	mg/kg	190
Magnesium	DETSC 2301*	1	mg/kg	21000
Manganese	DETSC 2301#	20	mg/kg	6600
Mercury	DETSC 2325#	0.05	mg/kg	0.28
Molybdenum	DETSC 2301#	0.4	mg/kg	5.7
Nickel	DETSC 2301#	1	mg/kg	53
Silicon	DETSC 2301*	10	mg/kg	59000
Vanadium	DETSC 2301#	0.8	mg/kg	340
Zinc	DETSC 2301#	1	mg/kg	210
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.0
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.5
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	2.5
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	260
Sulphur (free)	DETSC 3049#	0.75	mg/kg	3.9

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667505
Sample ID	PRAIRIE_AUK_TP166_SO_0045
Depth	0.45
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	9.9
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	11
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	0.7
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	19
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	65
Aromatic C5-C35	DETSC 3072*	10	mg/kg	84
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	95
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.25
Anthracene	DETSC 3303	0.03	mg/kg	0.08
Fluoranthene	DETSC 3303#	0.03	mg/kg	1.2
Pyrene	DETSC 3303#	0.03	mg/kg	1.1
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.67
Chrysene	DETSC 3303	0.03	mg/kg	0.60
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.89
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.37
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.71
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.29



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667505
Sample ID	PRAIRIE_AUK_TP166_SO_0045
Depth	0.45
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.08
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.38
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	6.6



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667505
Sample ID	PRAIRIE_AUK_TP166_SO_0045
Depth	0.45
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667506
Sample ID	PRAIRIE_AUK_TP166_SO_0120
Depth	1.20
Other ID	8
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	10000
Antimony	DETSC 2301*	1	mg/kg	1.2
Arsenic	DETSC 2301#	0.2	mg/kg	7.6
Barium	DETSC 2301#	1.5	mg/kg	200
Beryllium	DETSC 2301#	0.2	mg/kg	1.0
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.5
Cadmium	DETSC 2301#	0.1	mg/kg	0.2
Chromium	DETSC 2301#	0.15	mg/kg	23
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	26
Iron	DETSC 2301	25	mg/kg	33000
Lead	DETSC 2301#	0.3	mg/kg	23
Magnesium	DETSC 2301*	1	mg/kg	3500
Manganese	DETSC 2301#	20	mg/kg	840
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	< 0.4
Nickel	DETSC 2301#	1	mg/kg	40
Silicon	DETSC 2301*	10	mg/kg	180000
Vanadium	DETSC 2301#	0.8	mg/kg	28
Zinc	DETSC 2301#	1	mg/kg	66
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	7.9
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.8
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	84
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667506
Sample ID	PRAIRIE_AUK_TP166_SO_0120
Depth	1.20
Other ID	8
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667506
Sample ID	PRAIRIE_AUK_TP166_SO_0120
Depth	1.20
Other ID	8
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667506
Sample ID	PRAIRIE_AUK_TP166_SO_0120
Depth	1.20
Other ID	8
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667507
Sample ID	PRAIRIE_AUK_TP171_SO_0075
Depth	0.75
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	18000
Antimony	DETSC 2301*	1	mg/kg	3.4
Arsenic	DETSC 2301#	0.2	mg/kg	30
Barium	DETSC 2301#	1.5	mg/kg	610
Beryllium	DETSC 2301#	0.2	mg/kg	3.2
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.9
Cadmium	DETSC 2301#	0.1	mg/kg	3.6
Chromium	DETSC 2301#	0.15	mg/kg	27
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	110
Iron	DETSC 2301	25	mg/kg	63000
Lead	DETSC 2301#	0.3	mg/kg	310
Magnesium	DETSC 2301*	1	mg/kg	5700
Manganese	DETSC 2301#	20	mg/kg	1600
Mercury	DETSC 2325#	0.05	mg/kg	0.06
Molybdenum	DETSC 2301#	0.4	mg/kg	4.2
Nickel	DETSC 2301#	1	mg/kg	46
Silicon	DETSC 2301*	10	mg/kg	90000
Vanadium	DETSC 2301#	0.8	mg/kg	120
Zinc	DETSC 2301#	1	mg/kg	1500
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	8.5
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.5
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	5.8
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	120
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667507
Sample ID	PRAIRIE_AUK_TP171_SO_0075
Depth	0.75
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.09
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.20
Pyrene	DETSC 3303#	0.03	mg/kg	0.17
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.11
Chrysene	DETSC 3303	0.03	mg/kg	0.12
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.17
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.08
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.12
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.06



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667507
Sample ID	PRAIRIE_AUK_TP171_SO_0075
Depth	0.75
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.07
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	1.2



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667507
Sample ID	PRAIRIE_AUK_TP171_SO_0075
Depth	0.75
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667508
Sample ID	PRAIRIE_AUK_TP187_SO_0070
Depth	0.70
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	14000
Antimony	DETSC 2301*	1	mg/kg	22
Arsenic	DETSC 2301#	0.2	mg/kg	46
Barium	DETSC 2301#	1.5	mg/kg	340
Beryllium	DETSC 2301#	0.2	mg/kg	3.2
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.1
Cadmium	DETSC 2301#	0.1	mg/kg	24
Chromium	DETSC 2301#	0.15	mg/kg	19
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	530
Iron	DETSC 2301	25	mg/kg	110000
Lead	DETSC 2301#	0.3	mg/kg	1800
Magnesium	DETSC 2301*	1	mg/kg	5200
Manganese	DETSC 2301#	20	mg/kg	4200
Mercury	DETSC 2325#	0.05	mg/kg	0.13
Molybdenum	DETSC 2301#	0.4	mg/kg	6.4
Nickel	DETSC 2301#	1	mg/kg	55
Silicon	DETSC 2301*	10	mg/kg	96000
Vanadium	DETSC 2301#	0.8	mg/kg	81
Zinc	DETSC 2301#	1	mg/kg	3800
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	8.8
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	11
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	14
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	74
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667508
Sample ID	PRAIRIE_AUK_TP187_SO_0070
Depth	0.70
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.06
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.29
Pyrene	DETSC 3303#	0.03	mg/kg	0.28
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.15
Chrysene	DETSC 3303	0.03	mg/kg	0.16
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.24
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.10
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.18
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.09



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667508
Sample ID	PRAIRIE_AUK_TP187_SO_0070
Depth	0.70
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.11
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	1.7



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667508
Sample ID	PRAIRIE_AUK_TP187_SO_0070
Depth	0.70
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668118
Sample ID	PRAIRIE_AUK_BH110_SO_0300
Depth	3.00
Other ID	1
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	12000
Antimony	DETSC 2301*	1	mg/kg	1.4
Arsenic	DETSC 2301#	0.2	mg/kg	7.5
Barium	DETSC 2301#	1.5	mg/kg	210
Beryllium	DETSC 2301#	0.2	mg/kg	1.1
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.6
Cadmium	DETSC 2301#	0.1	mg/kg	0.1
Chromium	DETSC 2301#	0.15	mg/kg	28
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	27
Iron	DETSC 2301	25	mg/kg	31000
Lead	DETSC 2301#	0.3	mg/kg	24
Magnesium	DETSC 2301*	1	mg/kg	9400
Manganese	DETSC 2301#	20	mg/kg	570
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	0.7
Nickel	DETSC 2301#	1	mg/kg	37
Silicon	DETSC 2301*	10	mg/kg	170000
Vanadium	DETSC 2301#	0.8	mg/kg	31
Zinc	DETSC 2301#	1	mg/kg	91
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	7.7
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	3.3
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	350
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668118
Sample ID	PRAIRIE_AUK_BH110_SO_0300
Depth	3.00
Other ID	1
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	0.05
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.06
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668118
Sample ID	PRAIRIE_AUK_BH110_SO_0300
Depth	3.00
Other ID	1
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	0.11



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668118
Sample ID	PRAIRIE_AUK_BH110_SO_0300
Depth	3.00
Other ID	1
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668119
Sample ID	PRAIRIE_AUK_TP102_SO_0100
Depth	1.00
Other ID	4
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	49000
Antimony	DETSC 2301*	1	mg/kg	1.3
Arsenic	DETSC 2301#	0.2	mg/kg	11
Barium	DETSC 2301#	1.5	mg/kg	460
Beryllium	DETSC 2301#	0.2	mg/kg	8.9
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.8
Cadmium	DETSC 2301#	0.1	mg/kg	0.1
Chromium	DETSC 2301#	0.15	mg/kg	30
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	22
Iron	DETSC 2301	25	mg/kg	19000
Lead	DETSC 2301#	0.3	mg/kg	20
Magnesium	DETSC 2301*	1	mg/kg	28000
Manganese	DETSC 2301#	20	mg/kg	6700
Mercury	DETSC 2325#	0.05	mg/kg	0.06
Molybdenum	DETSC 2301#	0.4	mg/kg	0.6
Nickel	DETSC 2301#	1	mg/kg	7.2
Silicon	DETSC 2301*	10	mg/kg	72000
Vanadium	DETSC 2301#	0.8	mg/kg	100
Zinc	DETSC 2301#	1	mg/kg	84
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.1
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.2
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	580
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668119
Sample ID	PRAIRIE_AUK_TP102_SO_0100
Depth	1.00
Other ID	4
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.06
Pyrene	DETSC 3303#	0.03	mg/kg	0.06
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.04
Chrysene	DETSC 3303	0.03	mg/kg	0.05
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.07
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.04



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668119
Sample ID	PRAIRIE_AUK_TP102_SO_0100
Depth	1.00
Other ID	4
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.04
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	0.36



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668119
Sample ID	PRAIRIE_AUK_TP102_SO_0100
Depth	1.00
Other ID	4
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668120
Sample ID	PRAIRIE_AUK_TP102_SO_0300
Depth	3.00
Other ID	11
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	< 0.001
Metals				
Aluminium	DETSC 2301*	1	mg/kg	19000
Antimony	DETSC 2301*	1	mg/kg	1.8
Arsenic	DETSC 2301#	0.2	mg/kg	21
Barium	DETSC 2301#	1.5	mg/kg	630
Beryllium	DETSC 2301#	0.2	mg/kg	2.0
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.4
Cadmium	DETSC 2301#	0.1	mg/kg	0.5
Chromium	DETSC 2301#	0.15	mg/kg	29
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	36
Iron	DETSC 2301	25	mg/kg	36000
Lead	DETSC 2301#	0.3	mg/kg	98
Magnesium	DETSC 2301*	1	mg/kg	7400
Manganese	DETSC 2301#	20	mg/kg	1100
Mercury	DETSC 2325#	0.05	mg/kg	0.08
Molybdenum	DETSC 2301#	0.4	mg/kg	0.7
Nickel	DETSC 2301#	1	mg/kg	25
Silicon	DETSC 2301*	10	mg/kg	160000
Vanadium	DETSC 2301#	0.8	mg/kg	65
Zinc	DETSC 2301#	1	mg/kg	300
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	8.5
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.2
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.7
Organic matter	DETSC 2002#	0.1	%	3.3
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	220
Sulphur (free)	DETSC 3049#	0.75	mg/kg	2.2

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668120
Sample ID	PRAIRIE_AUK_TP102_SO_0300
Depth	3.00
Other ID	11
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	11
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	29
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	33
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	29
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	100
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	1.8
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	13
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	16
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	5.9
Aromatic C5-C35	DETSC 3072*	10	mg/kg	36
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	140
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.11
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.16
Pyrene	DETSC 3303#	0.03	mg/kg	0.13
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.05
Chrysene	DETSC 3303	0.03	mg/kg	0.05
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668120
Sample ID	PRAIRIE_AUK_TP102_SO_0300
Depth	3.00
Other ID	11
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	0.49



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668120
Sample ID	PRAIRIE_AUK_TP102_SO_0300
Depth	3.00
Other ID	11
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668121
Sample ID	PRAIRIE_AUK_TP103_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	45000
Antimony	DETSC 2301*	1	mg/kg	1.5
Arsenic	DETSC 2301#	0.2	mg/kg	8.1
Barium	DETSC 2301#	1.5	mg/kg	440
Beryllium	DETSC 2301#	0.2	mg/kg	5.7
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.4
Cadmium	DETSC 2301#	0.1	mg/kg	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg	82
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	17
Iron	DETSC 2301	25	mg/kg	26000
Lead	DETSC 2301#	0.3	mg/kg	14
Magnesium	DETSC 2301*	1	mg/kg	25000
Manganese	DETSC 2301#	20	mg/kg	6200
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	0.6
Nickel	DETSC 2301#	1	mg/kg	11
Silicon	DETSC 2301*	10	mg/kg	68000
Vanadium	DETSC 2301#	0.8	mg/kg	110
Zinc	DETSC 2301#	1	mg/kg	43
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	9.2
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.2
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	3.1
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	680
Sulphur (free)	DETSC 3049#	0.75	mg/kg	110

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668121
Sample ID	PRAIRIE_AUK_TP103_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	3.1
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	13
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	14
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	17
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	47
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	8.2
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	30
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	97
Aromatic C5-C35	DETSC 3072*	10	mg/kg	140
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	180
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.10
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.12
Fluorene	DETSC 3303	0.03	mg/kg	0.13
Phenanthrene	DETSC 3303#	0.03	mg/kg	2.6
Anthracene	DETSC 3303	0.03	mg/kg	0.81
Fluoranthene	DETSC 3303#	0.03	mg/kg	36
Pyrene	DETSC 3303#	0.03	mg/kg	29
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	15
Chrysene	DETSC 3303	0.03	mg/kg	11
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	14
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	7.1
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	11
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	4.1



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668121
Sample ID	PRAIRIE_AUK_TP103_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	1.2
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	5.0
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	140



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668121
Sample ID	PRAIRIE_AUK_TP103_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668122
Sample ID	PRAIRIE_AUK_TP109_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	33000
Antimony	DETSC 2301*	1	mg/kg	2.1
Arsenic	DETSC 2301#	0.2	mg/kg	11
Barium	DETSC 2301#	1.5	mg/kg	350
Beryllium	DETSC 2301#	0.2	mg/kg	4.4
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	6.7
Cadmium	DETSC 2301#	0.1	mg/kg	0.2
Chromium	DETSC 2301#	0.15	mg/kg	110
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	71
Iron	DETSC 2301	25	mg/kg	35000
Lead	DETSC 2301#	0.3	mg/kg	33
Magnesium	DETSC 2301*	1	mg/kg	21000
Manganese	DETSC 2301#	20	mg/kg	8200
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	0.7
Nickel	DETSC 2301#	1	mg/kg	9.3
Silicon	DETSC 2301*	10	mg/kg	72000
Vanadium	DETSC 2301#	0.8	mg/kg	300
Zinc	DETSC 2301#	1	mg/kg	68
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.2
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.2
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.1
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	400
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668122
Sample ID	PRAIRIE_AUK_TP109_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.14
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.29
Pyrene	DETSC 3303#	0.03	mg/kg	0.25
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.17
Chrysene	DETSC 3303	0.03	mg/kg	0.15
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.23
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.08
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.11
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.08



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668122
Sample ID	PRAIRIE_AUK_TP109_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.10
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	1.6



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668122
Sample ID	PRAIRIE_AUK_TP109_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668123
Sample ID	PRAIRIE_AUK_TP110_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	31000
Antimony	DETSC 2301*	1	mg/kg	1.8
Arsenic	DETSC 2301#	0.2	mg/kg	6.8
Barium	DETSC 2301#	1.5	mg/kg	490
Beryllium	DETSC 2301#	0.2	mg/kg	3.6
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	3.3
Cadmium	DETSC 2301#	0.1	mg/kg	0.2
Chromium	DETSC 2301#	0.15	mg/kg	72
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	110
Iron	DETSC 2301	25	mg/kg	31000
Lead	DETSC 2301#	0.3	mg/kg	31
Magnesium	DETSC 2301*	1	mg/kg	24000
Manganese	DETSC 2301#	20	mg/kg	5100
Mercury	DETSC 2325#	0.05	mg/kg	0.06
Molybdenum	DETSC 2301#	0.4	mg/kg	1.2
Nickel	DETSC 2301#	1	mg/kg	9.8
Silicon	DETSC 2301*	10	mg/kg	68000
Vanadium	DETSC 2301#	0.8	mg/kg	180
Zinc	DETSC 2301#	1	mg/kg	140
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.2
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	2.3
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	260
Sulphur (free)	DETSC 3049#	0.75	mg/kg	57

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668123
Sample ID	PRAIRIE_AUK_TP110_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	2.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	4.4
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	35
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	43
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	1.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	8.8
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	73
Aromatic C5-C35	DETSC 3072*	10	mg/kg	84
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	130
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.07
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.06
Acenaphthene	DETSC 3303#	0.03	mg/kg	1.4
Fluorene	DETSC 3303	0.03	mg/kg	0.78
Phenanthrene	DETSC 3303#	0.03	mg/kg	3.2
Anthracene	DETSC 3303	0.03	mg/kg	3.1
Fluoranthene	DETSC 3303#	0.03	mg/kg	36
Pyrene	DETSC 3303#	0.03	mg/kg	37
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	20
Chrysene	DETSC 3303	0.03	mg/kg	12
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	18
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	5.6
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	9.4
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	3.1

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668123
Sample ID	PRAIRIE_AUK_TP110_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	1.1
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	3.2
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	150



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668123
Sample ID	PRAIRIE_AUK_TP110_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	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	0.6

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668124
Sample ID	PRAIRIE_AUK_TP110_SO_0200
Depth	2.00
Other ID	7
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	18000
Antimony	DETSC 2301*	1	mg/kg	2.9
Arsenic	DETSC 2301#	0.2	mg/kg	21
Barium	DETSC 2301#	1.5	mg/kg	380
Beryllium	DETSC 2301#	0.2	mg/kg	1.8
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.6
Cadmium	DETSC 2301#	0.1	mg/kg	0.4
Chromium	DETSC 2301#	0.15	mg/kg	78
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	60
Iron	DETSC 2301	25	mg/kg	60000
Lead	DETSC 2301#	0.3	mg/kg	94
Magnesium	DETSC 2301*	1	mg/kg	9500
Manganese	DETSC 2301#	20	mg/kg	1900
Mercury	DETSC 2325#	0.05	mg/kg	0.23
Molybdenum	DETSC 2301#	0.4	mg/kg	1.8
Nickel	DETSC 2301#	1	mg/kg	40
Silicon	DETSC 2301*	10	mg/kg	16000
Vanadium	DETSC 2301#	0.8	mg/kg	210
Zinc	DETSC 2301#	1	mg/kg	260
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.4
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	2.7
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	230
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668124
Sample ID	PRAIRIE_AUK_TP110_SO_0200
Depth	2.00
Other ID	7
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.12
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.52
Pyrene	DETSC 3303#	0.03	mg/kg	0.41
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.22
Chrysene	DETSC 3303	0.03	mg/kg	0.15
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.17
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.09
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.12
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.06



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668124
Sample ID	PRAIRIE_AUK_TP110_SO_0200
Depth	2.00
Other ID	7
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.06
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	1.9



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668124
Sample ID	PRAIRIE_AUK_TP110_SO_0200
Depth	2.00
Other ID	7
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668125
Sample ID	PRAIRIE_AUK_TP111_SO_0150
Depth	1.50
Other ID	4
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	0.002
Metals				
Aluminium	DETSC 2301*	1	mg/kg	18000
Antimony	DETSC 2301*	1	mg/kg	8.9
Arsenic	DETSC 2301#	0.2	mg/kg	48
Barium	DETSC 2301#	1.5	mg/kg	600
Beryllium	DETSC 2301#	0.2	mg/kg	1.8
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.4
Cadmium	DETSC 2301#	0.1	mg/kg	0.9
Chromium	DETSC 2301#	0.15	mg/kg	390
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	76
Iron	DETSC 2301	25	mg/kg	99000
Lead	DETSC 2301#	0.3	mg/kg	120
Magnesium	DETSC 2301*	1	mg/kg	29000
Manganese	DETSC 2301#	20	mg/kg	9100
Mercury	DETSC 2325#	0.05	mg/kg	0.36
Molybdenum	DETSC 2301#	0.4	mg/kg	3.1
Nickel	DETSC 2301#	1	mg/kg	32
Silicon	DETSC 2301*	10	mg/kg	67000
Vanadium	DETSC 2301#	0.8	mg/kg	1100
Zinc	DETSC 2301#	1	mg/kg	290
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.6
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.5
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	2.7
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	87
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668125
Sample ID	PRAIRIE_AUK_TP111_SO_0150
Depth	1.50
Other ID	4
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	0.8
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	5.2
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	18
Aromatic C5-C35	DETSC 3072*	10	mg/kg	24
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	24
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.15
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.31
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.13
Fluorene	DETSC 3303	0.03	mg/kg	0.49
Phenanthrene	DETSC 3303#	0.03	mg/kg	3.9
Anthracene	DETSC 3303	0.03	mg/kg	1.3
Fluoranthene	DETSC 3303#	0.03	mg/kg	8.6
Pyrene	DETSC 3303#	0.03	mg/kg	6.9
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	4.2
Chrysene	DETSC 3303	0.03	mg/kg	2.6
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	3.6
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	1.7
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	2.7
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	1.2



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668125
Sample ID	PRAIRIE_AUK_TP111_SO_0150
Depth	1.50
Other ID	4
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.25
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	1.2
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	39

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668125
Sample ID	PRAIRIE_AUK_TP111_SO_0150
Depth	1.50
Other ID	4
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668126
Sample ID	PRAIRIE_AUK_TP112_SO_0150
Depth	1.50
Other ID	4
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	14000
Antimony	DETSC 2301*	1	mg/kg	4.5
Arsenic	DETSC 2301#	0.2	mg/kg	19
Barium	DETSC 2301#	1.5	mg/kg	540
Beryllium	DETSC 2301#	0.2	mg/kg	1.8
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.0
Cadmium	DETSC 2301#	0.1	mg/kg	0.9
Chromium	DETSC 2301#	0.15	mg/kg	210
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	68
Iron	DETSC 2301	25	mg/kg	65000
Lead	DETSC 2301#	0.3	mg/kg	60
Magnesium	DETSC 2301*	1	mg/kg	12000
Manganese	DETSC 2301#	20	mg/kg	4900
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	5.4
Nickel	DETSC 2301#	1	mg/kg	31
Silicon	DETSC 2301*	10	mg/kg	79000
Vanadium	DETSC 2301#	0.8	mg/kg	690
Zinc	DETSC 2301#	1	mg/kg	580
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.3
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	2.0
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	140
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668126
Sample ID	PRAIRIE_AUK_TP112_SO_0150
Depth	1.50
Other ID	4
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	0.6
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	4.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	11
Aromatic C5-C35	DETSC 3072*	10	mg/kg	16
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	16
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.07
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.10
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	0.09
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.7
Anthracene	DETSC 3303	0.03	mg/kg	0.35
Fluoranthene	DETSC 3303#	0.03	mg/kg	3.5
Pyrene	DETSC 3303#	0.03	mg/kg	2.6
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	1.3
Chrysene	DETSC 3303	0.03	mg/kg	0.99
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	1.4
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.61
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.86
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.43



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668126
Sample ID	PRAIRIE_AUK_TP112_SO_0150
Depth	1.50
Other ID	4
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.11
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.51
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	14



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668126
Sample ID	PRAIRIE_AUK_TP112_SO_0150
Depth	1.50
Other ID	4
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	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	< 0.3

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668127
Sample ID	PRAIRIE_AUK_TP119_SO_0150
Depth	1.50
Other ID	3
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	37000
Antimony	DETSC 2301*	1	mg/kg	2.5
Arsenic	DETSC 2301#	0.2	mg/kg	11
Barium	DETSC 2301#	1.5	mg/kg	380
Beryllium	DETSC 2301#	0.2	mg/kg	4.0
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.8
Cadmium	DETSC 2301#	0.1	mg/kg	0.3
Chromium	DETSC 2301#	0.15	mg/kg	140
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	35
Iron	DETSC 2301	25	mg/kg	38000
Lead	DETSC 2301#	0.3	mg/kg	29
Magnesium	DETSC 2301*	1	mg/kg	26000
Manganese	DETSC 2301#	20	mg/kg	6400
Mercury	DETSC 2325#	0.05	mg/kg	0.08
Molybdenum	DETSC 2301#	0.4	mg/kg	0.8
Nickel	DETSC 2301#	1	mg/kg	11
Silicon	DETSC 2301*	10	mg/kg	58000
Vanadium	DETSC 2301#	0.8	mg/kg	430
Zinc	DETSC 2301#	1	mg/kg	82
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.1
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	4.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	1100
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668127
Sample ID	PRAIRIE_AUK_TP119_SO_0150
Depth	1.50
Other ID	3
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	1.7
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	25
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	98
Aromatic C5-C35	DETSC 3072*	10	mg/kg	130
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	130
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.13
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.15
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.30
Fluorene	DETSC 3303	0.03	mg/kg	0.23
Phenanthrene	DETSC 3303#	0.03	mg/kg	5.4
Anthracene	DETSC 3303	0.03	mg/kg	1.2
Fluoranthene	DETSC 3303#	0.03	mg/kg	30
Pyrene	DETSC 3303#	0.03	mg/kg	30
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	18
Chrysene	DETSC 3303	0.03	mg/kg	16
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	21
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	9.1
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	15
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	5.4



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668127
Sample ID	PRAIRIE_AUK_TP119_SO_0150
Depth	1.50
Other ID	3
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	1.7
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	6.6
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	160



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668127
Sample ID	PRAIRIE_AUK_TP119_SO_0150
Depth	1.50
Other ID	3
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668128
Sample ID	PRAIRIE_AUK_TP119_SO_0250
Depth	2.50
Other ID	7
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	14000
Antimony	DETSC 2301*	1	mg/kg	1.5
Arsenic	DETSC 2301#	0.2	mg/kg	8.5
Barium	DETSC 2301#	1.5	mg/kg	180
Beryllium	DETSC 2301#	0.2	mg/kg	1.1
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.5
Cadmium	DETSC 2301#	0.1	mg/kg	0.2
Chromium	DETSC 2301#	0.15	mg/kg	33
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	31
Iron	DETSC 2301	25	mg/kg	38000
Lead	DETSC 2301#	0.3	mg/kg	28
Magnesium	DETSC 2301*	1	mg/kg	7300
Manganese	DETSC 2301#	20	mg/kg	660
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	0.4
Nickel	DETSC 2301#	1	mg/kg	39
Silicon	DETSC 2301*	10	mg/kg	160000
Vanadium	DETSC 2301#	0.8	mg/kg	40
Zinc	DETSC 2301#	1	mg/kg	96
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	8.9
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	2.1
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	72
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668128
Sample ID	PRAIRIE_AUK_TP119_SO_0250
Depth	2.50
Other ID	7
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.05
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.17
Pyrene	DETSC 3303#	0.03	mg/kg	0.14
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.09
Chrysene	DETSC 3303	0.03	mg/kg	0.07
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.12
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.04
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.06
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.05



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668128
Sample ID	PRAIRIE_AUK_TP119_SO_0250
Depth	2.50
Other ID	7
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.06
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	0.85



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668128
Sample ID	PRAIRIE_AUK_TP119_SO_0250
Depth	2.50
Other ID	7
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668129
Sample ID	PRAIRIE_AUK_TP133_SO_0050
Depth	0.50
Other ID	2
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	21000
Antimony	DETSC 2301*	1	mg/kg	6.5
Arsenic	DETSC 2301#	0.2	mg/kg	35
Barium	DETSC 2301#	1.5	mg/kg	390
Beryllium	DETSC 2301#	0.2	mg/kg	2.4
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.8
Chromium	DETSC 2301#	0.15	mg/kg	150
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	330
Iron	DETSC 2301	25	mg/kg	120000
Lead	DETSC 2301#	0.3	mg/kg	110
Magnesium	DETSC 2301*	1	mg/kg	15000
Manganese	DETSC 2301#	20	mg/kg	4800
Mercury	DETSC 2325#	0.05	mg/kg	0.12
Molybdenum	DETSC 2301#	0.4	mg/kg	3.2
Nickel	DETSC 2301#	1	mg/kg	56
Silicon	DETSC 2301*	10	mg/kg	94000
Vanadium	DETSC 2301#	0.8	mg/kg	350
Zinc	DETSC 2301#	1	mg/kg	380
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.3
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.4
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	2.2
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	170
Sulphur (free)	DETSC 3049#	0.75	mg/kg	8.9

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668129
Sample ID	PRAIRIE_AUK_TP133_SO_0050
Depth	0.50
Other ID	2
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	0.04
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.79
Anthracene	DETSC 3303	0.03	mg/kg	0.11
Fluoranthene	DETSC 3303#	0.03	mg/kg	1.6
Pyrene	DETSC 3303#	0.03	mg/kg	1.3
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.66
Chrysene	DETSC 3303	0.03	mg/kg	0.62
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.79
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.32
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.54
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.26



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668129
Sample ID	PRAIRIE_AUK_TP133_SO_0050
Depth	0.50
Other ID	2
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.07
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.33
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	7.5



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668129
Sample ID	PRAIRIE_AUK_TP133_SO_0050
Depth	0.50
Other ID	2
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668130
Sample ID	PRAIRIE_AUK_TP152_SO_0200
Depth	2.00
Other ID	6
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	0.002
Metals				
Aluminium	DETSC 2301*	1	mg/kg	15000
Antimony	DETSC 2301*	1	mg/kg	5.0
Arsenic	DETSC 2301#	0.2	mg/kg	19
Barium	DETSC 2301#	1.5	mg/kg	230
Beryllium	DETSC 2301#	0.2	mg/kg	1.3
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.8
Cadmium	DETSC 2301#	0.1	mg/kg	1.7
Chromium	DETSC 2301#	0.15	mg/kg	160
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	64
Iron	DETSC 2301	25	mg/kg	67000
Lead	DETSC 2301#	0.3	mg/kg	200
Magnesium	DETSC 2301*	1	mg/kg	18000
Manganese	DETSC 2301#	20	mg/kg	3300
Mercury	DETSC 2325#	0.05	mg/kg	0.30
Molybdenum	DETSC 2301#	0.4	mg/kg	1.9
Nickel	DETSC 2301#	1	mg/kg	34
Silicon	DETSC 2301*	10	mg/kg	120000
Vanadium	DETSC 2301#	0.8	mg/kg	320
Zinc	DETSC 2301#	1	mg/kg	360
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.0
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.5
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.9
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	1700
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668130
Sample ID	PRAIRIE_AUK_TP152_SO_0200
Depth	2.00
Other ID	6
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	1.2
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	8.1
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	17
Aromatic C5-C35	DETSC 3072*	10	mg/kg	26
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	26
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.19
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.08
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.11
Fluorene	DETSC 3303	0.03	mg/kg	0.10
Phenanthrene	DETSC 3303#	0.03	mg/kg	3.5
Anthracene	DETSC 3303	0.03	mg/kg	0.54
Fluoranthene	DETSC 3303#	0.03	mg/kg	4.6
Pyrene	DETSC 3303#	0.03	mg/kg	4.9
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	2.6
Chrysene	DETSC 3303	0.03	mg/kg	1.9
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	2.4
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.94
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	1.2
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.72



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668130
Sample ID	PRAIRIE_AUK_TP152_SO_0200
Depth	2.00
Other ID	6
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.20
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.83
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	25



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668130
Sample ID	PRAIRIE_AUK_TP152_SO_0200
Depth	2.00
Other ID	6
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668131
Sample ID	PRAIRIE_AUK_TP153_SO_0110
Depth	1.10
Other ID	4
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	23000
Antimony	DETSC 2301*	1	mg/kg	4.4
Arsenic	DETSC 2301#	0.2	mg/kg	11
Barium	DETSC 2301#	1.5	mg/kg	330
Beryllium	DETSC 2301#	0.2	mg/kg	2.2
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	3.0
Cadmium	DETSC 2301#	0.1	mg/kg	0.3
Chromium	DETSC 2301#	0.15	mg/kg	110
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	94
Iron	DETSC 2301	25	mg/kg	47000
Lead	DETSC 2301#	0.3	mg/kg	330
Magnesium	DETSC 2301*	1	mg/kg	17000
Manganese	DETSC 2301#	20	mg/kg	7300
Mercury	DETSC 2325#	0.05	mg/kg	0.10
Molybdenum	DETSC 2301#	0.4	mg/kg	2.1
Nickel	DETSC 2301#	1	mg/kg	15
Silicon	DETSC 2301*	10	mg/kg	85000
Vanadium	DETSC 2301#	0.8	mg/kg	240
Zinc	DETSC 2301#	1	mg/kg	85
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.2
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	1.7
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	4.2
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	400
Sulphur (free)	DETSC 3049#	0.75	mg/kg	8.1

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668131
Sample ID	PRAIRIE_AUK_TP153_SO_0110
Depth	1.10
Other ID	4
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.07
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.04
Fluorene	DETSC 3303	0.03	mg/kg	0.04
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.1
Anthracene	DETSC 3303	0.03	mg/kg	0.24
Fluoranthene	DETSC 3303#	0.03	mg/kg	4.2
Pyrene	DETSC 3303#	0.03	mg/kg	4.0
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	1.7
Chrysene	DETSC 3303	0.03	mg/kg	1.4
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	2.3
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.94
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	1.9
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	1.1



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668131
Sample ID	PRAIRIE_AUK_TP153_SO_0110
Depth	1.10
Other ID	4
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.18
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	1.4
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	21



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668131
Sample ID	PRAIRIE_AUK_TP153_SO_0110
Depth	1.10
Other ID	4
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668132
Sample ID	PRAIRIE_AUK_TP154_SO_0085
Depth	0.85
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	21000
Antimony	DETSC 2301*	1	mg/kg	4.1
Arsenic	DETSC 2301#	0.2	mg/kg	9.2
Barium	DETSC 2301#	1.5	mg/kg	270
Beryllium	DETSC 2301#	0.2	mg/kg	2.0
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.6
Cadmium	DETSC 2301#	0.1	mg/kg	0.5
Chromium	DETSC 2301#	0.15	mg/kg	200
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	40
Iron	DETSC 2301	25	mg/kg	100000
Lead	DETSC 2301#	0.3	mg/kg	33
Magnesium	DETSC 2301*	1	mg/kg	17000
Manganese	DETSC 2301#	20	mg/kg	25000
Mercury	DETSC 2325#	0.05	mg/kg	0.07
Molybdenum	DETSC 2301#	0.4	mg/kg	2.3
Nickel	DETSC 2301#	1	mg/kg	16
Silicon	DETSC 2301*	10	mg/kg	68000
Vanadium	DETSC 2301#	0.8	mg/kg	1500
Zinc	DETSC 2301#	1	mg/kg	100
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.3
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.8
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.6
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	300
Sulphur (free)	DETSC 3049#	0.75	mg/kg	10

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668132
Sample ID	PRAIRIE_AUK_TP154_SO_0085
Depth	0.85
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	1.4
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	12
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	29
Aromatic C5-C35	DETSC 3072*	10	mg/kg	42
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	42
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.04
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.37
Fluorene	DETSC 3303	0.03	mg/kg	0.29
Phenanthrene	DETSC 3303#	0.03	mg/kg	4.0
Anthracene	DETSC 3303	0.03	mg/kg	0.80
Fluoranthene	DETSC 3303#	0.03	mg/kg	9.7
Pyrene	DETSC 3303#	0.03	mg/kg	9.1
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	4.9
Chrysene	DETSC 3303	0.03	mg/kg	3.6
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	4.4
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	1.7
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	3.2
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	1.2



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668132
Sample ID	PRAIRIE_AUK_TP154_SO_0085
Depth	0.85
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.36
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	1.3
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	45



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668132
Sample ID	PRAIRIE_AUK_TP154_SO_0085
Depth	0.85
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668133
Sample ID	PRAIRIE_AUK_TP155_SO_0070
Depth	0.70
Other ID	3
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	11000
Antimony	DETSC 2301*	1	mg/kg	2.3
Arsenic	DETSC 2301#	0.2	mg/kg	9.4
Barium	DETSC 2301#	1.5	mg/kg	220
Beryllium	DETSC 2301#	0.2	mg/kg	2.4
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.0
Cadmium	DETSC 2301#	0.1	mg/kg	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg	120
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	80
Iron	DETSC 2301	25	mg/kg	42000
Lead	DETSC 2301#	0.3	mg/kg	18
Magnesium	DETSC 2301*	1	mg/kg	6300
Manganese	DETSC 2301#	20	mg/kg	3000
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	3.8
Nickel	DETSC 2301#	1	mg/kg	40
Silicon	DETSC 2301*	10	mg/kg	100000
Vanadium	DETSC 2301#	0.8	mg/kg	480
Zinc	DETSC 2301#	1	mg/kg	37
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.7
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.4
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	86
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668133
Sample ID	PRAIRIE_AUK_TP155_SO_0070
Depth	0.70
Other ID	3
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.09
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.30
Pyrene	DETSC 3303#	0.03	mg/kg	0.24
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.14
Chrysene	DETSC 3303	0.03	mg/kg	0.12
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.18
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.07
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.09
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.07

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668133
Sample ID	PRAIRIE_AUK_TP155_SO_0070
Depth	0.70
Other ID	3
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.07
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	1.4



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668133
Sample ID	PRAIRIE_AUK_TP155_SO_0070
Depth	0.70
Other ID	3
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668134
Sample ID	PRAIRIE_AUK_TP160_SO_0075
Depth	0.75
Other ID	4
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	12000
Antimony	DETSC 2301*	1	mg/kg	3.7
Arsenic	DETSC 2301#	0.2	mg/kg	17
Barium	DETSC 2301#	1.5	mg/kg	270
Beryllium	DETSC 2301#	0.2	mg/kg	1.9
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.0
Cadmium	DETSC 2301#	0.1	mg/kg	0.4
Chromium	DETSC 2301#	0.15	mg/kg	110
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	72
Iron	DETSC 2301	25	mg/kg	58000
Lead	DETSC 2301#	0.3	mg/kg	100
Magnesium	DETSC 2301*	1	mg/kg	8700
Manganese	DETSC 2301#	20	mg/kg	2800
Mercury	DETSC 2325#	0.05	mg/kg	0.22
Molybdenum	DETSC 2301#	0.4	mg/kg	2.8
Nickel	DETSC 2301#	1	mg/kg	29
Silicon	DETSC 2301*	10	mg/kg	83000
Vanadium	DETSC 2301#	0.8	mg/kg	210
Zinc	DETSC 2301#	1	mg/kg	220
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.4
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.3
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	4.2
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	290
Sulphur (free)	DETSC 3049#	0.75	mg/kg	7.7

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668134
Sample ID	PRAIRIE_AUK_TP160_SO_0075
Depth	0.75
Other ID	4
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.44
Anthracene	DETSC 3303	0.03	mg/kg	0.04
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.81
Pyrene	DETSC 3303#	0.03	mg/kg	0.62
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.24
Chrysene	DETSC 3303	0.03	mg/kg	0.33
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.57
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.41
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.20
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.12



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668134
Sample ID	PRAIRIE_AUK_TP160_SO_0075
Depth	0.75
Other ID	4
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.04
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.15
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	3.9



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668134
Sample ID	PRAIRIE_AUK_TP160_SO_0075
Depth	0.75
Other ID	4
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668135
Sample ID	PRAIRIE_AUK_TP170_SO_0100
Depth	1.00
Other ID	4
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	14000
Antimony	DETSC 2301*	1	mg/kg	2.8
Arsenic	DETSC 2301#	0.2	mg/kg	9.8
Barium	DETSC 2301#	1.5	mg/kg	160
Beryllium	DETSC 2301#	0.2	mg/kg	1.2
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.7
Cadmium	DETSC 2301#	0.1	mg/kg	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg	41
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	52
Iron	DETSC 2301	25	mg/kg	39000
Lead	DETSC 2301#	0.3	mg/kg	38
Magnesium	DETSC 2301*	1	mg/kg	4300
Manganese	DETSC 2301#	20	mg/kg	680
Mercury	DETSC 2325#	0.05	mg/kg	0.09
Molybdenum	DETSC 2301#	0.4	mg/kg	1.1
Nickel	DETSC 2301#	1	mg/kg	22
Silicon	DETSC 2301*	10	mg/kg	170000
Vanadium	DETSC 2301#	0.8	mg/kg	96
Zinc	DETSC 2301#	1	mg/kg	81
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	9.1
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.2
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	2.1
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	130
Sulphur (free)	DETSC 3049#	0.75	mg/kg	11

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668135
Sample ID	PRAIRIE_AUK_TP170_SO_0100
Depth	1.00
Other ID	4
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668135
Sample ID	PRAIRIE_AUK_TP170_SO_0100
Depth	1.00
Other ID	4
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668135
Sample ID	PRAIRIE_AUK_TP170_SO_0100
Depth	1.00
Other ID	4
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668557
Sample ID	PRAIRIE_AUK_TP164_SO_0070
Depth	0.70
Other ID	3
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	6100
Antimony	DETSC 2301*	1	mg/kg	1.2
Arsenic	DETSC 2301#	0.2	mg/kg	9.6
Barium	DETSC 2301#	1.5	mg/kg	40
Beryllium	DETSC 2301#	0.2	mg/kg	0.4
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.5
Cadmium	DETSC 2301#	0.1	mg/kg	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg	27
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	11
Iron	DETSC 2301	25	mg/kg	26000
Lead	DETSC 2301#	0.3	mg/kg	9.3
Magnesium	DETSC 2301*	1	mg/kg	1700
Manganese	DETSC 2301#	20	mg/kg	210
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	< 0.4
Nickel	DETSC 2301#	1	mg/kg	14
Silicon	DETSC 2301*	10	mg/kg	230000
Vanadium	DETSC 2301#	0.8	mg/kg	51
Zinc	DETSC 2301#	1	mg/kg	41
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	8.6
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	12
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.9
Organic matter	DETSC 2002#	0.1	%	0.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	19
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668557
Sample ID	PRAIRIE_AUK_TP164_SO_0070
Depth	0.70
Other ID	3
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668557
Sample ID	PRAIRIE_AUK_TP164_SO_0070
Depth	0.70
Other ID	3
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668557
Sample ID	PRAIRIE_AUK_TP164_SO_0070
Depth	0.70
Other ID	3
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668558
Sample ID	PRAIRIE_AUK_TP164_SO_0130
Depth	1.30
Other ID	5
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	6300
Antimony	DETSC 2301*	1	mg/kg	1.3
Arsenic	DETSC 2301#	0.2	mg/kg	11
Barium	DETSC 2301#	1.5	mg/kg	51
Beryllium	DETSC 2301#	0.2	mg/kg	0.6
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.7
Cadmium	DETSC 2301#	0.1	mg/kg	0.1
Chromium	DETSC 2301#	0.15	mg/kg	32
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	22
Iron	DETSC 2301	25	mg/kg	30000
Lead	DETSC 2301#	0.3	mg/kg	14
Magnesium	DETSC 2301*	1	mg/kg	2000
Manganese	DETSC 2301#	20	mg/kg	390
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	0.5
Nickel	DETSC 2301#	1	mg/kg	17
Silicon	DETSC 2301*	10	mg/kg	220000
Vanadium	DETSC 2301#	0.8	mg/kg	76
Zinc	DETSC 2301#	1	mg/kg	59
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	8.2
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.5
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	30
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668558
Sample ID	PRAIRIE_AUK_TP164_SO_0130
Depth	1.30
Other ID	5
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668558
Sample ID	PRAIRIE_AUK_TP164_SO_0130
Depth	1.30
Other ID	5
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668558
Sample ID	PRAIRIE_AUK_TP164_SO_0130
Depth	1.30
Other ID	5
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668559
Sample ID	PRAIRIE_AUK_TP184_SO_0030
Depth	0.30
Other ID	2
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	< 0.001
Metals				
Aluminium	DETSC 2301*	1	mg/kg	10000
Antimony	DETSC 2301*	1	mg/kg	6.5
Arsenic	DETSC 2301#	0.2	mg/kg	8.6
Barium	DETSC 2301#	1.5	mg/kg	250
Beryllium	DETSC 2301#	0.2	mg/kg	0.8
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	3.8
Cadmium	DETSC 2301#	0.1	mg/kg	0.6
Chromium	DETSC 2301#	0.15	mg/kg	390
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	71
Iron	DETSC 2301	25	mg/kg	100000
Lead	DETSC 2301#	0.3	mg/kg	44
Magnesium	DETSC 2301*	1	mg/kg	25000
Manganese	DETSC 2301#	20	mg/kg	22000
Mercury	DETSC 2325#	0.05	mg/kg	1.0
Molybdenum	DETSC 2301#	0.4	mg/kg	8.2
Nickel	DETSC 2301#	1	mg/kg	62
Silicon	DETSC 2301*	10	mg/kg	47000
Vanadium	DETSC 2301#	0.8	mg/kg	1700
Zinc	DETSC 2301#	1	mg/kg	130
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.5
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.5
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	2.6
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	95
Sulphur (free)	DETSC 3049#	0.75	mg/kg	3.6

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668559
Sample ID	PRAIRIE_AUK_TP184_SO_0030
Depth	0.30
Other ID	2
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	2.7
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	18
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	24
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	46
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	46
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.32
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.07
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.06
Fluorene	DETSC 3303	0.03	mg/kg	0.12
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.53
Anthracene	DETSC 3303	0.03	mg/kg	0.36
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.67
Pyrene	DETSC 3303#	0.03	mg/kg	0.46
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.25
Chrysene	DETSC 3303	0.03	mg/kg	0.29
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.37
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.15
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.25
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.14



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668559
Sample ID	PRAIRIE_AUK_TP184_SO_0030
Depth	0.30
Other ID	2
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.04
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.16
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	4.3



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668559
Sample ID	PRAIRIE_AUK_TP184_SO_0030
Depth	0.30
Other ID	2
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668560
Sample ID	PRAIRIE_AUK_TP106_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	12000
Antimony	DETSC 2301*	1	mg/kg	9.5
Arsenic	DETSC 2301#	0.2	mg/kg	33
Barium	DETSC 2301#	1.5	mg/kg	330
Beryllium	DETSC 2301#	0.2	mg/kg	1.1
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.1
Cadmium	DETSC 2301#	0.1	mg/kg	2.1
Chromium	DETSC 2301#	0.15	mg/kg	82
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	150
Iron	DETSC 2301	25	mg/kg	95000
Lead	DETSC 2301#	0.3	mg/kg	220
Magnesium	DETSC 2301*	1	mg/kg	5400
Manganese	DETSC 2301#	20	mg/kg	1700
Mercury	DETSC 2325#	0.05	mg/kg	0.51
Molybdenum	DETSC 2301#	0.4	mg/kg	10
Nickel	DETSC 2301#	1	mg/kg	54
Silicon	DETSC 2301*	10	mg/kg	14000
Vanadium	DETSC 2301#	0.8	mg/kg	130
Zinc	DETSC 2301#	1	mg/kg	930
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	9.3
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	20
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.4
Thiocyanate	DETSC 2130#	0.6	mg/kg	1.1
Organic matter	DETSC 2002#	0.1	%	2.3
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	290
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668560
Sample ID	PRAIRIE_AUK_TP106_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	2.9
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	25
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	28
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	0.7
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	9.5
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	46
Aromatic C5-C35	DETSC 3072*	10	mg/kg	56
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	84
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.05
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.11
Fluorene	DETSC 3303	0.03	mg/kg	0.07
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.8
Anthracene	DETSC 3303	0.03	mg/kg	0.49
Fluoranthene	DETSC 3303#	0.03	mg/kg	5.7
Pyrene	DETSC 3303#	0.03	mg/kg	4.8
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	2.3
Chrysene	DETSC 3303	0.03	mg/kg	2.0
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	2.6
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	1.2
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	2.4
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.84



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668560
Sample ID	PRAIRIE_AUK_TP106_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.21
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	1.1
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	26



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668560
Sample ID	PRAIRIE_AUK_TP106_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668561
Sample ID	PRAIRIE_AUK_TP116_SO_0130
Depth	1.30
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	< 0.001
Metals				
Aluminium	DETSC 2301*	1	mg/kg	49000
Antimony	DETSC 2301*	1	mg/kg	3.4
Arsenic	DETSC 2301#	0.2	mg/kg	12
Barium	DETSC 2301#	1.5	mg/kg	590
Beryllium	DETSC 2301#	0.2	mg/kg	5.4
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.9
Cadmium	DETSC 2301#	0.1	mg/kg	0.8
Chromium	DETSC 2301#	0.15	mg/kg	150
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	44
Iron	DETSC 2301	25	mg/kg	55000
Lead	DETSC 2301#	0.3	mg/kg	60
Magnesium	DETSC 2301*	1	mg/kg	32000
Manganese	DETSC 2301#	20	mg/kg	9200
Mercury	DETSC 2325#	0.05	mg/kg	0.15
Molybdenum	DETSC 2301#	0.4	mg/kg	4.2
Nickel	DETSC 2301#	1	mg/kg	20
Silicon	DETSC 2301*	10	mg/kg	64000
Vanadium	DETSC 2301#	0.8	mg/kg	150
Zinc	DETSC 2301#	1	mg/kg	150
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.5
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	9.4
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	1.0
Organic matter	DETSC 2002#	0.1	%	1.2
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	780
Sulphur (free)	DETSC 3049#	0.75	mg/kg	29

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668561
Sample ID	PRAIRIE_AUK_TP116_SO_0130
Depth	1.30
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.16
Anthracene	DETSC 3303	0.03	mg/kg	0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.48
Pyrene	DETSC 3303#	0.03	mg/kg	0.34
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.19
Chrysene	DETSC 3303	0.03	mg/kg	0.23
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.38
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.13
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.26
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.13



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668561
Sample ID	PRAIRIE_AUK_TP116_SO_0130
Depth	1.30
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.15
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	2.5



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668561
Sample ID	PRAIRIE_AUK_TP116_SO_0130
Depth	1.30
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668562
Sample ID	PRAIRIE_AUK_TP117_SO_0300
Depth	3.00
Other ID	8
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	< 0.001
Metals				
Aluminium	DETSC 2301*	1	mg/kg	45000
Antimony	DETSC 2301*	1	mg/kg	1.4
Arsenic	DETSC 2301#	0.2	mg/kg	11
Barium	DETSC 2301#	1.5	mg/kg	420
Beryllium	DETSC 2301#	0.2	mg/kg	6.1
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	3.1
Cadmium	DETSC 2301#	0.1	mg/kg	0.4
Chromium	DETSC 2301#	0.15	mg/kg	50
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	24
Iron	DETSC 2301	25	mg/kg	24000
Lead	DETSC 2301#	0.3	mg/kg	38
Magnesium	DETSC 2301*	1	mg/kg	25000
Manganese	DETSC 2301#	20	mg/kg	3800
Mercury	DETSC 2325#	0.05	mg/kg	0.12
Molybdenum	DETSC 2301#	0.4	mg/kg	0.9
Nickel	DETSC 2301#	1	mg/kg	10
Silicon	DETSC 2301*	10	mg/kg	100000
Vanadium	DETSC 2301#	0.8	mg/kg	160
Zinc	DETSC 2301#	1	mg/kg	120
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.4
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.9
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.7
Organic matter	DETSC 2002#	0.1	%	1.8
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	1100
Sulphur (free)	DETSC 3049#	0.75	mg/kg	5.6

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668562
Sample ID	PRAIRIE_AUK_TP117_SO_0300
Depth	3.00
Other ID	8
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.16
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.17
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.38
Fluorene	DETSC 3303	0.03	mg/kg	1.0
Phenanthrene	DETSC 3303#	0.03	mg/kg	7.2
Anthracene	DETSC 3303	0.03	mg/kg	1.6
Fluoranthene	DETSC 3303#	0.03	mg/kg	18
Pyrene	DETSC 3303#	0.03	mg/kg	15
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	8.1
Chrysene	DETSC 3303	0.03	mg/kg	5.8
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	6.1
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	2.5
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	5.5
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	1.4



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668562
Sample ID	PRAIRIE_AUK_TP117_SO_0300
Depth	3.00
Other ID	8
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.46
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	1.7
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	75



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668562
Sample ID	PRAIRIE_AUK_TP117_SO_0300
Depth	3.00
Other ID	8
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668563
Sample ID	PRAIRIE_AUK_TP118_SO_0120
Depth	1.20
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	25000
Antimony	DETSC 2301*	1	mg/kg	11
Arsenic	DETSC 2301#	0.2	mg/kg	24
Barium	DETSC 2301#	1.5	mg/kg	570
Beryllium	DETSC 2301#	0.2	mg/kg	2.3
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.3
Cadmium	DETSC 2301#	0.1	mg/kg	0.7
Chromium	DETSC 2301#	0.15	mg/kg	610
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	140
Iron	DETSC 2301	25	mg/kg	120000
Lead	DETSC 2301#	0.3	mg/kg	87
Magnesium	DETSC 2301*	1	mg/kg	33000
Manganese	DETSC 2301#	20	mg/kg	25000
Mercury	DETSC 2325#	0.05	mg/kg	0.09
Molybdenum	DETSC 2301#	0.4	mg/kg	6.1
Nickel	DETSC 2301#	1	mg/kg	26
Silicon	DETSC 2301*	10	mg/kg	60000
Vanadium	DETSC 2301#	0.8	mg/kg	1300
Zinc	DETSC 2301#	1	mg/kg	270
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.9
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.7
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.0
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	110
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668563
Sample ID	PRAIRIE_AUK_TP118_SO_0120
Depth	1.20
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	7.1
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	29
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	36
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	36
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.26
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.64
Pyrene	DETSC 3303#	0.03	mg/kg	0.42
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.25
Chrysene	DETSC 3303	0.03	mg/kg	0.29
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.40
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.16
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.29
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.12

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668563
Sample ID	PRAIRIE_AUK_TP118_SO_0120
Depth	1.20
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.04
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.17
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	3.0



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668563
Sample ID	PRAIRIE_AUK_TP118_SO_0120
Depth	1.20
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668564
Sample ID	PRAIRIE_AUK_TP127_SO_0030
Depth	0.30
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	10000
Antimony	DETSC 2301*	1	mg/kg	11
Arsenic	DETSC 2301#	0.2	mg/kg	2.2
Barium	DETSC 2301#	1.5	mg/kg	130
Beryllium	DETSC 2301#	0.2	mg/kg	0.3
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	3.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.4
Chromium	DETSC 2301#	0.15	mg/kg	740
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	25
Iron	DETSC 2301	25	mg/kg	170000
Lead	DETSC 2301#	0.3	mg/kg	15
Magnesium	DETSC 2301*	1	mg/kg	40000
Manganese	DETSC 2301#	20	mg/kg	19000
Mercury	DETSC 2325#	0.05	mg/kg	0.24
Molybdenum	DETSC 2301#	0.4	mg/kg	5.1
Nickel	DETSC 2301#	1	mg/kg	25
Silicon	DETSC 2301*	10	mg/kg	37000
Vanadium	DETSC 2301#	0.8	mg/kg	500
Zinc	DETSC 2301#	1	mg/kg	60
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	12.2
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	1.3
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.6
Organic matter	DETSC 2002#	0.1	%	0.6
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	10
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668564
Sample ID	PRAIRIE_AUK_TP127_SO_0030
Depth	0.30
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.05
Pyrene	DETSC 3303#	0.03	mg/kg	0.04
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	0.04
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668564
Sample ID	PRAIRIE_AUK_TP127_SO_0030
Depth	0.30
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	0.16



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668564
Sample ID	PRAIRIE_AUK_TP127_SO_0030
Depth	0.30
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668565
Sample ID	PRAIRIE_AUK_TP127A_SO_0280
Depth	2.80
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	9000
Antimony	DETSC 2301*	1	mg/kg	1.1
Arsenic	DETSC 2301#	0.2	mg/kg	6.2
Barium	DETSC 2301#	1.5	mg/kg	230
Beryllium	DETSC 2301#	0.2	mg/kg	1.2
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.0
Cadmium	DETSC 2301#	0.1	mg/kg	0.1
Chromium	DETSC 2301#	0.15	mg/kg	30
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	23
Iron	DETSC 2301	25	mg/kg	23000
Lead	DETSC 2301#	0.3	mg/kg	27
Magnesium	DETSC 2301*	1	mg/kg	2500
Manganese	DETSC 2301#	20	mg/kg	560
Mercury	DETSC 2325#	0.05	mg/kg	0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	0.6
Nickel	DETSC 2301#	1	mg/kg	20
Silicon	DETSC 2301*	10	mg/kg	150000
Vanadium	DETSC 2301#	0.8	mg/kg	41
Zinc	DETSC 2301#	1	mg/kg	89
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	9.6
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.3
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	0.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	150
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668565
Sample ID	PRAIRIE_AUK_TP127A_SO_0280
Depth	2.80
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668565
Sample ID	PRAIRIE_AUK_TP127A_SO_0280
Depth	2.80
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668565
Sample ID	PRAIRIE_AUK_TP127A_SO_0280
Depth	2.80
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668566
Sample ID	PRAIRIE_AUK_TP140_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	52000
Antimony	DETSC 2301*	1	mg/kg	1.6
Arsenic	DETSC 2301#	0.2	mg/kg	10
Barium	DETSC 2301#	1.5	mg/kg	520
Beryllium	DETSC 2301#	0.2	mg/kg	6.5
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.3
Chromium	DETSC 2301#	0.15	mg/kg	38
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	36
Iron	DETSC 2301	25	mg/kg	19000
Lead	DETSC 2301#	0.3	mg/kg	33
Magnesium	DETSC 2301*	1	mg/kg	33000
Manganese	DETSC 2301#	20	mg/kg	4100
Mercury	DETSC 2325#	0.05	mg/kg	0.06
Molybdenum	DETSC 2301#	0.4	mg/kg	0.8
Nickel	DETSC 2301#	1	mg/kg	7.1
Silicon	DETSC 2301*	10	mg/kg	73000
Vanadium	DETSC 2301#	0.8	mg/kg	96
Zinc	DETSC 2301#	1	mg/kg	75
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.4
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.2
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.6
Organic matter	DETSC 2002#	0.1	%	1.5
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	290
Sulphur (free)	DETSC 3049#	0.75	mg/kg	2.9

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668566
Sample ID	PRAIRIE_AUK_TP140_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.47
Anthracene	DETSC 3303	0.03	mg/kg	0.06
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.85
Pyrene	DETSC 3303#	0.03	mg/kg	0.55
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.16
Chrysene	DETSC 3303	0.03	mg/kg	0.30
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.28
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.09
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.15
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.08



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668566
Sample ID	PRAIRIE_AUK_TP140_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.10
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	3.1



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668566
Sample ID	PRAIRIE_AUK_TP140_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668567
Sample ID	PRAIRIE_AUK_TP141_SO_0200
Depth	2.00
Other ID	4
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	8900
Antimony	DETSC 2301*	1	mg/kg	34
Arsenic	DETSC 2301#	0.2	mg/kg	130
Barium	DETSC 2301#	1.5	mg/kg	350
Beryllium	DETSC 2301#	0.2	mg/kg	0.7
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.9
Cadmium	DETSC 2301#	0.1	mg/kg	15
Chromium	DETSC 2301#	0.15	mg/kg	450
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	1700
Iron	DETSC 2301	25	mg/kg	260000
Lead	DETSC 2301#	0.3	mg/kg	1200
Magnesium	DETSC 2301*	1	mg/kg	14000
Manganese	DETSC 2301#	20	mg/kg	10000
Mercury	DETSC 2325#	0.05	mg/kg	0.37
Molybdenum	DETSC 2301#	0.4	mg/kg	21
Nickel	DETSC 2301#	1	mg/kg	200
Silicon	DETSC 2301*	10	mg/kg	37000
Vanadium	DETSC 2301#	0.8	mg/kg	740
Zinc	DETSC 2301#	1	mg/kg	3100
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.1
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	2.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.9
Organic matter	DETSC 2002#	0.1	%	10
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	770
Sulphur (free)	DETSC 3049#	0.75	mg/kg	220

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668567
Sample ID	PRAIRIE_AUK_TP141_SO_0200
Depth	2.00
Other ID	4
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	10
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	130
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	1300
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	5600
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	7000
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	3.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	97
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	1400
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	6600
Aromatic C5-C35	DETSC 3072*	10	mg/kg	8100
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	15000
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.35
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.11
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.61
Fluorene	DETSC 3303	0.03	mg/kg	0.97
Phenanthrene	DETSC 3303#	0.03	mg/kg	3.0
Anthracene	DETSC 3303	0.03	mg/kg	0.57
Fluoranthene	DETSC 3303#	0.03	mg/kg	4.9
Pyrene	DETSC 3303#	0.03	mg/kg	3.8
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	1.8
Chrysene	DETSC 3303	0.03	mg/kg	2.7
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	2.3
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.95
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	1.7
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.64



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668567
Sample ID	PRAIRIE_AUK_TP141_SO_0200
Depth	2.00
Other ID	4
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.18
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.78
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	25



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668567
Sample ID	PRAIRIE_AUK_TP141_SO_0200
Depth	2.00
Other ID	4
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668568
Sample ID	PRAIRIE_AUK_TP142_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	4300
Antimony	DETSC 2301*	1	mg/kg	16
Arsenic	DETSC 2301#	0.2	mg/kg	32
Barium	DETSC 2301#	1.5	mg/kg	50
Beryllium	DETSC 2301#	0.2	mg/kg	< 0.2
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.4
Cadmium	DETSC 2301#	0.1	mg/kg	1.5
Chromium	DETSC 2301#	0.15	mg/kg	220
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	220
Iron	DETSC 2301	25	mg/kg	450000
Lead	DETSC 2301#	0.3	mg/kg	170
Magnesium	DETSC 2301*	1	mg/kg	7400
Manganese	DETSC 2301#	20	mg/kg	10000
Mercury	DETSC 2325#	0.05	mg/kg	0.11
Molybdenum	DETSC 2301#	0.4	mg/kg	17
Nickel	DETSC 2301#	1	mg/kg	82
Silicon	DETSC 2301*	10	mg/kg	15000
Vanadium	DETSC 2301#	0.8	mg/kg	170
Zinc	DETSC 2301#	1	mg/kg	170
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.9
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	10
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	31
Sulphur (free)	DETSC 3049#	0.75	mg/kg	30

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668568
Sample ID	PRAIRIE_AUK_TP142_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	3.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	37
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	300
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	6100
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	6400
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	19
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	160
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	2100
Aromatic C5-C35	DETSC 3072*	10	mg/kg	2200
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	8700
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.12
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.23
Fluorene	DETSC 3303	0.03	mg/kg	0.18
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.90
Anthracene	DETSC 3303	0.03	mg/kg	0.25
Fluoranthene	DETSC 3303#	0.03	mg/kg	1.6
Pyrene	DETSC 3303#	0.03	mg/kg	1.1
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.45
Chrysene	DETSC 3303	0.03	mg/kg	0.68
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.76
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.39
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.54
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.25



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668568
Sample ID	PRAIRIE_AUK_TP142_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.08
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.33
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	7.9



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668568
Sample ID	PRAIRIE_AUK_TP142_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668569
Sample ID	PRAIRIE_AUK_TP142_SO_0150
Depth	1.50
Other ID	4
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	2700
Antimony	DETSC 2301*	1	mg/kg	36
Arsenic	DETSC 2301#	0.2	mg/kg	130
Barium	DETSC 2301#	1.5	mg/kg	92
Beryllium	DETSC 2301#	0.2	mg/kg	< 0.2
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.0
Cadmium	DETSC 2301#	0.1	mg/kg	5.7
Chromium	DETSC 2301#	0.15	mg/kg	310
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	1400
Iron	DETSC 2301	25	mg/kg	650000
Lead	DETSC 2301#	0.3	mg/kg	550
Magnesium	DETSC 2301*	1	mg/kg	2600
Manganese	DETSC 2301#	20	mg/kg	4000
Mercury	DETSC 2325#	0.05	mg/kg	0.14
Molybdenum	DETSC 2301#	0.4	mg/kg	61
Nickel	DETSC 2301#	1	mg/kg	320
Silicon	DETSC 2301*	10	mg/kg	22000
Vanadium	DETSC 2301#	0.8	mg/kg	140
Zinc	DETSC 2301#	1	mg/kg	890
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.7
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.7
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.7
Organic matter	DETSC 2002#	0.1	%	6.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	210
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668569
Sample ID	PRAIRIE_AUK_TP142_SO_0150
Depth	1.50
Other ID	4
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	0.10
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	8.6
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	41
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	260
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	2300
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	2600
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	0.11
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	0.06
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	21
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	160
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	1000
Aromatic C5-C35	DETSC 3072*	10	mg/kg	1200
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	3800
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.04
Fluorene	DETSC 3303	0.03	mg/kg	0.10
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.33
Anthracene	DETSC 3303	0.03	mg/kg	0.18
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.13
Pyrene	DETSC 3303#	0.03	mg/kg	0.17
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.05
Chrysene	DETSC 3303	0.03	mg/kg	0.21
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.07
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.04
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668569
Sample ID	PRAIRIE_AUK_TP142_SO_0150
Depth	1.50
Other ID	4
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.04
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	1.4



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668569
Sample ID	PRAIRIE_AUK_TP142_SO_0150
Depth	1.50
Other ID	4
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668570
Sample ID	PRAIRIE_AUK_TP143_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	39000
Antimony	DETSC 2301*	1	mg/kg	4.3
Arsenic	DETSC 2301#	0.2	mg/kg	20
Barium	DETSC 2301#	1.5	mg/kg	570
Beryllium	DETSC 2301#	0.2	mg/kg	4.0
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.6
Cadmium	DETSC 2301#	0.1	mg/kg	0.6
Chromium	DETSC 2301#	0.15	mg/kg	120
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	82
Iron	DETSC 2301	25	mg/kg	81000
Lead	DETSC 2301#	0.3	mg/kg	190
Magnesium	DETSC 2301*	1	mg/kg	25000
Manganese	DETSC 2301#	20	mg/kg	4100
Mercury	DETSC 2325#	0.05	mg/kg	0.45
Molybdenum	DETSC 2301#	0.4	mg/kg	3.4
Nickel	DETSC 2301#	1	mg/kg	23
Silicon	DETSC 2301*	10	mg/kg	73000
Vanadium	DETSC 2301#	0.8	mg/kg	150
Zinc	DETSC 2301#	1	mg/kg	230
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.4
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	4.6
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.7
Organic matter	DETSC 2002#	0.1	%	1.8
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	170
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668570
Sample ID	PRAIRIE_AUK_TP143_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	4.5
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	8.2
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	24
Aromatic C5-C35	DETSC 3072*	10	mg/kg	32
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	37
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.06
Fluorene	DETSC 3303	0.03	mg/kg	0.05
Phenanthrene	DETSC 3303#	0.03	mg/kg	2.2
Anthracene	DETSC 3303	0.03	mg/kg	0.50
Fluoranthene	DETSC 3303#	0.03	mg/kg	9.9
Pyrene	DETSC 3303#	0.03	mg/kg	9.2
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	5.8
Chrysene	DETSC 3303	0.03	mg/kg	4.3
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	6.1
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	2.3
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	3.9
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	1.7



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668570
Sample ID	PRAIRIE_AUK_TP143_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.52
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	2.2
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	49



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668570
Sample ID	PRAIRIE_AUK_TP143_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668571
Sample ID	PRAIRIE_AUK_TP143_SO_0160
Depth	1.60
Other ID	6
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	12000
Antimony	DETSC 2301*	1	mg/kg	17
Arsenic	DETSC 2301#	0.2	mg/kg	68
Barium	DETSC 2301#	1.5	mg/kg	210
Beryllium	DETSC 2301#	0.2	mg/kg	0.9
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.7
Cadmium	DETSC 2301#	0.1	mg/kg	2.7
Chromium	DETSC 2301#	0.15	mg/kg	180
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	650
Iron	DETSC 2301	25	mg/kg	320000
Lead	DETSC 2301#	0.3	mg/kg	310
Magnesium	DETSC 2301*	1	mg/kg	3600
Manganese	DETSC 2301#	20	mg/kg	2500
Mercury	DETSC 2325#	0.05	mg/kg	0.09
Molybdenum	DETSC 2301#	0.4	mg/kg	29
Nickel	DETSC 2301#	1	mg/kg	200
Silicon	DETSC 2301*	10	mg/kg	110000
Vanadium	DETSC 2301#	0.8	mg/kg	97
Zinc	DETSC 2301#	1	mg/kg	510
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.4
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	7.6
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	200
Sulphur (free)	DETSC 3049#	0.75	mg/kg	1.7

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668571
Sample ID	PRAIRIE_AUK_TP143_SO_0160
Depth	1.60
Other ID	6
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	3.6
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668571
Sample ID	PRAIRIE_AUK_TP143_SO_0160
Depth	1.60
Other ID	6
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668571
Sample ID	PRAIRIE_AUK_TP143_SO_0160
Depth	1.60
Other ID	6
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668572
Sample ID	PRAIRIE_AUK_TP151_SO_0120
Depth	1.20
Other ID	5
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	47000
Antimony	DETSC 2301*	1	mg/kg	3.4
Arsenic	DETSC 2301#	0.2	mg/kg	18
Barium	DETSC 2301#	1.5	mg/kg	590
Beryllium	DETSC 2301#	0.2	mg/kg	5.5
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.7
Cadmium	DETSC 2301#	0.1	mg/kg	0.9
Chromium	DETSC 2301#	0.15	mg/kg	120
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	84
Iron	DETSC 2301	25	mg/kg	78000
Lead	DETSC 2301#	0.3	mg/kg	90
Magnesium	DETSC 2301*	1	mg/kg	29000
Manganese	DETSC 2301#	20	mg/kg	5400
Mercury	DETSC 2325#	0.05	mg/kg	0.25
Molybdenum	DETSC 2301#	0.4	mg/kg	3.0
Nickel	DETSC 2301#	1	mg/kg	26
Silicon	DETSC 2301*	10	mg/kg	48000
Vanadium	DETSC 2301#	0.8	mg/kg	250
Zinc	DETSC 2301#	1	mg/kg	490
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.0
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.7
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.7
Organic matter	DETSC 2002#	0.1	%	3.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	490
Sulphur (free)	DETSC 3049#	0.75	mg/kg	49

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668572
Sample ID	PRAIRIE_AUK_TP151_SO_0120
Depth	1.20
Other ID	5
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	2.8
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	4.8
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	39
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	180
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	220
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	1.0
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	18
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	95
Aromatic C5-C35	DETSC 3072*	10	mg/kg	110
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	340
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.04
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.24
Fluorene	DETSC 3303	0.03	mg/kg	0.18
Phenanthrene	DETSC 3303#	0.03	mg/kg	2.8
Anthracene	DETSC 3303	0.03	mg/kg	0.64
Fluoranthene	DETSC 3303#	0.03	mg/kg	7.2
Pyrene	DETSC 3303#	0.03	mg/kg	5.9
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	3.0
Chrysene	DETSC 3303	0.03	mg/kg	2.3
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	3.1
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	1.3
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	2.7
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.84



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668572
Sample ID	PRAIRIE_AUK_TP151_SO_0120
Depth	1.20
Other ID	5
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.23
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	1.2
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	32



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668572
Sample ID	PRAIRIE_AUK_TP151_SO_0120
Depth	1.20
Other ID	5
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668657
Sample ID	PRAIRIE_AUK_TP139_SO_0110
Depth	1.10
Other ID	4
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	15000
Antimony	DETSC 2301*	1	mg/kg	12
Arsenic	DETSC 2301#	0.2	mg/kg	75
Barium	DETSC 2301#	1.5	mg/kg	820
Beryllium	DETSC 2301#	0.2	mg/kg	1.4
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	39
Cadmium	DETSC 2301#	0.1	mg/kg	17
Chromium	DETSC 2301#	0.15	mg/kg	47
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	90
Iron	DETSC 2301	25	mg/kg	110000
Lead	DETSC 2301#	0.3	mg/kg	1100
Magnesium	DETSC 2301*	1	mg/kg	25000
Manganese	DETSC 2301#	20	mg/kg	64000
Mercury	DETSC 2325#	0.05	mg/kg	3.6
Molybdenum	DETSC 2301#	0.4	mg/kg	7.9
Nickel	DETSC 2301#	1	mg/kg	42
Silicon	DETSC 2301*	10	mg/kg	37000
Vanadium	DETSC 2301#	0.8	mg/kg	46
Zinc	DETSC 2301#	1	mg/kg	1200
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	9.4
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	470
Cyanide, Free	DETSC 2130#	0.1	mg/kg	1.0
Thiocyanate	DETSC 2130#	0.6	mg/kg	21
Organic matter	DETSC 2002#	0.1	%	2.6
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	520
Sulphur (free)	DETSC 3049#	0.75	mg/kg	95

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668657
Sample ID	PRAIRIE_AUK_TP139_SO_0110
Depth	1.10
Other ID	4
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	3.8
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.29
Fluorene	DETSC 3303	0.03	mg/kg	0.13
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.74
Anthracene	DETSC 3303	0.03	mg/kg	0.31
Fluoranthene	DETSC 3303#	0.03	mg/kg	1.3
Pyrene	DETSC 3303#	0.03	mg/kg	0.72
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.39
Chrysene	DETSC 3303	0.03	mg/kg	0.61
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.54
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.14
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.33
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.07

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668657
Sample ID	PRAIRIE_AUK_TP139_SO_0110
Depth	1.10
Other ID	4
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.04
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.14
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	9.5



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668657
Sample ID	PRAIRIE_AUK_TP139_SO_0110
Depth	1.10
Other ID	4
Sample Type	ES
Sampling Date	16/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668869
Sample ID	PRAIRIE_AUK_TP144_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	24/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	0.001
Metals				
Aluminium	DETSC 2301*	1	mg/kg	47000
Antimony	DETSC 2301*	1	mg/kg	4.4
Arsenic	DETSC 2301#	0.2	mg/kg	24
Barium	DETSC 2301#	1.5	mg/kg	470
Beryllium	DETSC 2301#	0.2	mg/kg	6.0
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.7
Cadmium	DETSC 2301#	0.1	mg/kg	0.8
Chromium	DETSC 2301#	0.15	mg/kg	66
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	220
Iron	DETSC 2301	25	mg/kg	76000
Lead	DETSC 2301#	0.3	mg/kg	130
Magnesium	DETSC 2301*	1	mg/kg	24000
Manganese	DETSC 2301#	20	mg/kg	3600
Mercury	DETSC 2325#	0.05	mg/kg	0.68
Molybdenum	DETSC 2301#	0.4	mg/kg	4.9
Nickel	DETSC 2301#	1	mg/kg	35
Silicon	DETSC 2301*	10	mg/kg	56000
Vanadium	DETSC 2301#	0.8	mg/kg	81
Zinc	DETSC 2301#	1	mg/kg	550
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	9.7
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	6.8
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	1.0
Organic matter	DETSC 2002#	0.1	%	2.3
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	370
Sulphur (free)	DETSC 3049#	0.75	mg/kg	57

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668869
Sample ID	PRAIRIE_AUK_TP144_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	24/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	4.2
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	3.8
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	7.9
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	39
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	55
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	55
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.10
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.07
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.11
Fluorene	DETSC 3303	0.03	mg/kg	0.16
Phenanthrene	DETSC 3303#	0.03	mg/kg	1.7
Anthracene	DETSC 3303	0.03	mg/kg	0.34
Fluoranthene	DETSC 3303#	0.03	mg/kg	2.6
Pyrene	DETSC 3303#	0.03	mg/kg	2.3
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	1.2
Chrysene	DETSC 3303	0.03	mg/kg	1.6
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	2.0
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.78
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	1.3
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.87



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668869
Sample ID	PRAIRIE_AUK_TP144_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	24/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.29
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	1.2
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	17



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668869
Sample ID	PRAIRIE_AUK_TP144_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	24/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1669251
Sample ID	PRAIRIE_AUK_TP112_SO_0210
Depth	2.10
Other ID	7
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	12000
Antimony	DETSC 2301*	1	mg/kg	6.6
Arsenic	DETSC 2301#	0.2	mg/kg	26
Barium	DETSC 2301#	1.5	mg/kg	280
Beryllium	DETSC 2301#	0.2	mg/kg	1.5
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.6
Cadmium	DETSC 2301#	0.1	mg/kg	0.7
Chromium	DETSC 2301#	0.15	mg/kg	340
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	67
Iron	DETSC 2301	25	mg/kg	90000
Lead	DETSC 2301#	0.3	mg/kg	90
Magnesium	DETSC 2301*	1	mg/kg	19000
Manganese	DETSC 2301#	20	mg/kg	9900
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	2.1
Nickel	DETSC 2301#	1	mg/kg	28
Silicon	DETSC 2301*	10	mg/kg	58000
Vanadium	DETSC 2301#	0.8	mg/kg	1500
Zinc	DETSC 2301#	1	mg/kg	470
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	11.7
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.9
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	110
Sulphur (free)	DETSC 3049#	0.75	mg/kg	2.5

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1669251
Sample ID	PRAIRIE_AUK_TP112_SO_0210
Depth	2.10
Other ID	7
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.05
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	2.8
Anthracene	DETSC 3303	0.03	mg/kg	0.47
Fluoranthene	DETSC 3303#	0.03	mg/kg	4.0
Pyrene	DETSC 3303#	0.03	mg/kg	2.7
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.79
Chrysene	DETSC 3303	0.03	mg/kg	0.75
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.64
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.30
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.28
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.24



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1669251
Sample ID	PRAIRIE_AUK_TP112_SO_0210
Depth	2.10
Other ID	7
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.20
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	13



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1669251
Sample ID	PRAIRIE_AUK_TP112_SO_0210
Depth	2.10
Other ID	7
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670142
Sample ID	PRAIRIE_AUK_TP194A_SO_0140
Depth	1.40
Other ID	1
Sample Type	ES
Sampling Date	29/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	73000
Antimony	DETSC 2301*	1	mg/kg	< 1.0
Arsenic	DETSC 2301#	0.2	mg/kg	8.4
Barium	DETSC 2301#	1.5	mg/kg	210
Beryllium	DETSC 2301#	0.2	mg/kg	9.7
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	16
Cadmium	DETSC 2301#	0.1	mg/kg	0.1
Chromium	DETSC 2301#	0.15	mg/kg	14
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	18
Iron	DETSC 2301	25	mg/kg	9400
Lead	DETSC 2301#	0.3	mg/kg	11
Magnesium	DETSC 2301*	1	mg/kg	28000
Manganese	DETSC 2301#	20	mg/kg	1300
Mercury	DETSC 2325#	0.05	mg/kg	0.37
Molybdenum	DETSC 2301#	0.4	mg/kg	< 0.4
Nickel	DETSC 2301#	1	mg/kg	4.9
Silicon	DETSC 2301*	10	mg/kg	140000
Vanadium	DETSC 2301#	0.8	mg/kg	53
Zinc	DETSC 2301#	1	mg/kg	57
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.8
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	24
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.2
Thiocyanate	DETSC 2130#	0.6	mg/kg	2.2
Organic matter	DETSC 2002#	0.1	%	1.9
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	530
Sulphur (free)	DETSC 3049#	0.75	mg/kg	93

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670142
Sample ID	PRAIRIE_AUK_TP194A_SO_0140
Depth	1.40
Other ID	1
Sample Type	ES
Sampling Date	29/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	1.8
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	45
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	190
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	40
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	280
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	6800
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	3500
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	620
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	170
Aromatic C5-C35	DETSC 3072*	10	mg/kg	11000
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	11000
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	1100
Acenaphthylene	DETSC 3303#	0.03	mg/kg	46
Acenaphthene	DETSC 3303#	0.03	mg/kg	780
Fluorene	DETSC 3303	0.03	mg/kg	330
Phenanthrene	DETSC 3303#	0.03	mg/kg	230
Anthracene	DETSC 3303	0.03	mg/kg	49
Fluoranthene	DETSC 3303#	0.03	mg/kg	41
Pyrene	DETSC 3303#	0.03	mg/kg	25
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	6.5
Chrysene	DETSC 3303	0.03	mg/kg	5.0
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	2.9
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	1.2
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	1.8
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.56



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670142
Sample ID	PRAIRIE_AUK_TP194A_SO_0140
Depth	1.40
Other ID	1
Sample Type	ES
Sampling Date	29/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.19
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.80
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	2600



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670142
Sample ID	PRAIRIE_AUK_TP194A_SO_0140
Depth	1.40
Other ID	1
Sample Type	ES
Sampling Date	29/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670143
Sample ID	PRAIRIE_AUK_TP196A_SO_0140
Depth	1.40
Other ID	1
Sample Type	ES
Sampling Date	29/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	77000
Antimony	DETSC 2301*	1	mg/kg	1.3
Arsenic	DETSC 2301#	0.2	mg/kg	7.6
Barium	DETSC 2301#	1.5	mg/kg	200
Beryllium	DETSC 2301#	0.2	mg/kg	8.9
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	2.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.1
Chromium	DETSC 2301#	0.15	mg/kg	66
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	15
Iron	DETSC 2301	25	mg/kg	14000
Lead	DETSC 2301#	0.3	mg/kg	9.2
Magnesium	DETSC 2301*	1	mg/kg	31000
Manganese	DETSC 2301#	20	mg/kg	2700
Mercury	DETSC 2325#	0.05	mg/kg	0.22
Molybdenum	DETSC 2301#	0.4	mg/kg	< 0.4
Nickel	DETSC 2301#	1	mg/kg	4.1
Silicon	DETSC 2301*	10	mg/kg	160000
Vanadium	DETSC 2301#	0.8	mg/kg	270
Zinc	DETSC 2301#	1	mg/kg	37
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.3
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	50
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.5
Thiocyanate	DETSC 2130#	0.6	mg/kg	3.7
Organic matter	DETSC 2002#	0.1	%	1.8
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	470
Sulphur (free)	DETSC 3049#	0.75	mg/kg	69

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670143
Sample ID	PRAIRIE_AUK_TP196A_SO_0140
Depth	1.40
Other ID	1
Sample Type	ES
Sampling Date	29/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	0.12
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	7.1
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	3.8
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	7.6
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	19
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	0.16
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	0.08
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	4.4
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	390
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	290
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	64
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	23
Aromatic C5-C35	DETSC 3072*	10	mg/kg	770
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	790
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	220
Acenaphthylene	DETSC 3303#	0.03	mg/kg	9.9
Acenaphthene	DETSC 3303#	0.03	mg/kg	230
Fluorene	DETSC 3303	0.03	mg/kg	120
Phenanthrene	DETSC 3303#	0.03	mg/kg	74
Anthracene	DETSC 3303	0.03	mg/kg	17
Fluoranthene	DETSC 3303#	0.03	mg/kg	14
Pyrene	DETSC 3303#	0.03	mg/kg	8.9
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	1.5
Chrysene	DETSC 3303	0.03	mg/kg	1.2
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.75
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.28
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.53
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.19



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670143
Sample ID	PRAIRIE_AUK_TP196A_SO_0140
Depth	1.40
Other ID	1
Sample Type	ES
Sampling Date	29/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.05
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.21
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	690



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670143
Sample ID	PRAIRIE_AUK_TP196A_SO_0140
Depth	1.40
Other ID	1
Sample Type	ES
Sampling Date	29/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670144
Sample ID	PRAIRIE_AUK_TP201_SO_0360
Depth	3.60
Other ID	1
Sample Type	ES
Sampling Date	28/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	23000
Antimony	DETSC 2301*	1	mg/kg	6.5
Arsenic	DETSC 2301#	0.2	mg/kg	100
Barium	DETSC 2301#	1.5	mg/kg	190
Beryllium	DETSC 2301#	0.2	mg/kg	3.0
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	4.2
Cadmium	DETSC 2301#	0.1	mg/kg	2.1
Chromium	DETSC 2301#	0.15	mg/kg	84
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	170
Iron	DETSC 2301	25	mg/kg	150000
Lead	DETSC 2301#	0.3	mg/kg	320
Magnesium	DETSC 2301*	1	mg/kg	7900
Manganese	DETSC 2301#	20	mg/kg	3100
Mercury	DETSC 2325#	0.05	mg/kg	0.27
Molybdenum	DETSC 2301#	0.4	mg/kg	4.1
Nickel	DETSC 2301#	1	mg/kg	110
Silicon	DETSC 2301*	10	mg/kg	54000
Vanadium	DETSC 2301#	0.8	mg/kg	270
Zinc	DETSC 2301#	1	mg/kg	2000
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	8.2
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	14
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	0.7
Organic matter	DETSC 2002#	0.1	%	2.6
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	1800
Sulphur (free)	DETSC 3049#	0.75	mg/kg	0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670144
Sample ID	PRAIRIE_AUK_TP201_SO_0360
Depth	3.60
Other ID	1
Sample Type	ES
Sampling Date	28/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	16
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	17
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	17
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	7.9
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	4.7
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	16
Aromatic C5-C35	DETSC 3072*	10	mg/kg	45
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	62
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.20
Acenaphthylene	DETSC 3303#	0.03	mg/kg	0.27
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.13
Fluorene	DETSC 3303	0.03	mg/kg	0.10
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.52
Anthracene	DETSC 3303	0.03	mg/kg	0.13
Fluoranthene	DETSC 3303#	0.03	mg/kg	1.0
Pyrene	DETSC 3303#	0.03	mg/kg	0.78
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.52
Chrysene	DETSC 3303	0.03	mg/kg	0.85
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	2.4
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.85
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.72
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	1.1



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670144
Sample ID	PRAIRIE_AUK_TP201_SO_0360
Depth	3.60
Other ID	1
Sample Type	ES
Sampling Date	28/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.32
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	1.4
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	11



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670144
Sample ID	PRAIRIE_AUK_TP201_SO_0360
Depth	3.60
Other ID	1
Sample Type	ES
Sampling Date	28/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670502
Sample ID	PRAIRIE_AUK_TP193_SO_0080
Depth	0.80
Other ID	1
Sample Type	ES
Sampling Date	30/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	890
Antimony	DETSC 2301*	1	mg/kg	< 1.0
Arsenic	DETSC 2301#	0.2	mg/kg	4.0
Barium	DETSC 2301#	1.5	mg/kg	85
Beryllium	DETSC 2301#	0.2	mg/kg	< 0.2
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.9
Cadmium	DETSC 2301#	0.1	mg/kg	0.6
Chromium	DETSC 2301#	0.15	mg/kg	3.9
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	9.7
Iron	DETSC 2301	25	mg/kg	4400
Lead	DETSC 2301#	0.3	mg/kg	20
Magnesium	DETSC 2301*	1	mg/kg	3700
Manganese	DETSC 2301#	20	mg/kg	330
Mercury	DETSC 2325#	0.05	mg/kg	0.71
Molybdenum	DETSC 2301#	0.4	mg/kg	0.4
Nickel	DETSC 2301#	1	mg/kg	3.8
Silicon	DETSC 2301*	10	mg/kg	9400
Vanadium	DETSC 2301#	0.8	mg/kg	11
Zinc	DETSC 2301#	1	mg/kg	140
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	10.3
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	130
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.5
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	1.3
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	270
Sulphur (free)	DETSC 3049#	0.75	mg/kg	43

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670502
Sample ID	PRAIRIE_AUK_TP193_SO_0080
Depth	0.80
Other ID	1
Sample Type	ES
Sampling Date	30/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	6.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	14
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	22
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	0.95
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	41
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	300
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	67
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	28
Aromatic C5-C35	DETSC 3072*	10	mg/kg	440
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	460
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	140
Acenaphthylene	DETSC 3303#	0.03	mg/kg	22
Acenaphthene	DETSC 3303#	0.03	mg/kg	310
Fluorene	DETSC 3303	0.03	mg/kg	120
Phenanthrene	DETSC 3303#	0.03	mg/kg	68
Anthracene	DETSC 3303	0.03	mg/kg	26
Fluoranthene	DETSC 3303#	0.03	mg/kg	24
Pyrene	DETSC 3303#	0.03	mg/kg	15
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	2.4
Chrysene	DETSC 3303	0.03	mg/kg	2.0
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.95
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.47
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.63
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.20



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670502
Sample ID	PRAIRIE_AUK_TP193_SO_0080
Depth	0.80
Other ID	1
Sample Type	ES
Sampling Date	30/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.06
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.21
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	730



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670502
Sample ID	PRAIRIE_AUK_TP193_SO_0080
Depth	0.80
Other ID	1
Sample Type	ES
Sampling Date	30/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1675450
Sample ID	PRAIRIE_AUK_BH101_SO_0300
Depth	3.00
Other ID	1
Sample Type	ES
Sampling Date	27/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	12000
Antimony	DETSC 2301*	1	mg/kg	1.6
Arsenic	DETSC 2301#	0.2	mg/kg	8.3
Barium	DETSC 2301#	1.5	mg/kg	290
Beryllium	DETSC 2301#	0.2	mg/kg	1.1
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	1.1
Cadmium	DETSC 2301#	0.1	mg/kg	0.3
Chromium	DETSC 2301#	0.15	mg/kg	26
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	27
Iron	DETSC 2301	25	mg/kg	32000
Lead	DETSC 2301#	0.3	mg/kg	33
Magnesium	DETSC 2301*	1	mg/kg	7700
Manganese	DETSC 2301#	20	mg/kg	730
Mercury	DETSC 2325#	0.05	mg/kg	0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	0.6
Nickel	DETSC 2301#	1	mg/kg	32
Silicon	DETSC 2301*	10	mg/kg	160000
Vanadium	DETSC 2301#	0.8	mg/kg	27
Zinc	DETSC 2301#	1	mg/kg	110
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	7.8
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.9
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	2.8
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	230
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1675450
Sample ID	PRAIRIE_AUK_BH101_SO_0300
Depth	3.00
Other ID	1
Sample Type	ES
Sampling Date	27/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1675450
Sample ID	PRAIRIE_AUK_BH101_SO_0300
Depth	3.00
Other ID	1
Sample Type	ES
Sampling Date	27/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1675450
Sample ID	PRAIRIE_AUK_BH101_SO_0300
Depth	3.00
Other ID	1
Sample Type	ES
Sampling Date	27/04/2020
Sampling Time	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

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1675451
Sample ID	PRAIRIE_AUK_BH107_SO_0300
Depth	3.00
Other ID	1
Sample Type	ES
Sampling Date	24/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Asbestos Quantification	DETSC 1102	0.001	%	
Metals				
Aluminium	DETSC 2301*	1	mg/kg	18000
Antimony	DETSC 2301*	1	mg/kg	3.4
Arsenic	DETSC 2301#	0.2	mg/kg	12
Barium	DETSC 2301#	1.5	mg/kg	440
Beryllium	DETSC 2301#	0.2	mg/kg	2.3
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.9
Cadmium	DETSC 2301#	0.1	mg/kg	1.1
Chromium	DETSC 2301#	0.15	mg/kg	68
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	73
Iron	DETSC 2301	25	mg/kg	41000
Lead	DETSC 2301#	0.3	mg/kg	71
Magnesium	DETSC 2301*	1	mg/kg	6500
Manganese	DETSC 2301#	20	mg/kg	960
Mercury	DETSC 2325#	0.05	mg/kg	0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	2.3
Nickel	DETSC 2301#	1	mg/kg	63
Silicon	DETSC 2301*	10	mg/kg	170000
Vanadium	DETSC 2301#	0.8	mg/kg	39
Zinc	DETSC 2301#	1	mg/kg	130
Inorganics				
Loss on Ignition at 440oC	DETSC 2003#	0.01	%	
pH	DETSC 2008#		pH	7.8
Calorific Value	DETSC 5008	1	MJ/kg	
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.3
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6
Organic matter	DETSC 2002#	0.1	%	2.3
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	130
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75

Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1675451
Sample ID	PRAIRIE_AUK_BH107_SO_0300
Depth	3.00
Other ID	1
Sample Type	ES
Sampling Date	24/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10
EPH (C10-C40)	DETSC 3311#	10	mg/kg	
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.11
Fluorene	DETSC 3303	0.03	mg/kg	0.10
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.37
Anthracene	DETSC 3303	0.03	mg/kg	0.04
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.27
Pyrene	DETSC 3303#	0.03	mg/kg	0.19
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.06
Chrysene	DETSC 3303	0.03	mg/kg	0.09
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.05
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1675451
Sample ID	PRAIRIE_AUK_BH107_SO_0300
Depth	3.00
Other ID	1
Sample Type	ES
Sampling Date	24/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	1.3



Summary of Chemical Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1675451
Sample ID	PRAIRIE_AUK_BH107_SO_0300
Depth	3.00
Other ID	1
Sample Type	ES
Sampling Date	24/04/2020
Sampling Time	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



Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665134
Sample ID	PRAIRIE_AUK_TP175_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
VOCs				
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	0.02
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	0.03
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	0.03
m+p-Xylene	DETSC 3431	0.01	mg/kg	0.15
o-Xylene	DETSC 3431	0.01	mg/kg	0.08
Styrene	DETSC 3431*	0.01	mg/kg	0.05
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665134
Sample ID	PRAIRIE_AUK_TP175_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	0.05
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	0.10
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01
SVOCs				
Phenol	DETSC 3433	0.1	mg/kg	3.8
Aniline	DETSC 3433*	0.1	mg/kg	0.5
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	2.7
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	5.3
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	4.7
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665134
Sample ID	PRAIRIE_AUK_TP175_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
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	80
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	500
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1
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	0.3
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	32



Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665141
Sample ID	PRAIRIE_AUK_TP108_SO_0200
Depth	2.00
Other ID	8
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
VOCs				
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01



Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665141
Sample ID	PRAIRIE_AUK_TP108_SO_0200
Depth	2.00
Other ID	8
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01
SVOCs				
Phenol	DETSC 3433	0.1	mg/kg	0.3
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1
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	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	0.4
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	0.2
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665141
Sample ID	PRAIRIE_AUK_TP108_SO_0200
Depth	2.00
Other ID	8
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
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	0.6
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	1.0
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1
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	1.0



Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665588
Sample ID	PRAIRIE_AUK_TP114_SO_0090
Depth	0.90
Other ID	6
Sample Type	ES
Sampling Date	07/04/2020
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	13
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	0.64
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	12
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	0.74
m+p-Xylene	DETSC 3431	0.01	mg/kg	11
o-Xylene	DETSC 3431	0.01	mg/kg	4.5
Styrene	DETSC 3431*	0.01	mg/kg	5.6
Bromoform	DETSC 3431	0.01	mg/kg	< 0.10



Summary of Chemical Analysis

Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665588
Sample ID	PRAIRIE_AUK_TP114_SO_0090
Depth	0.90
Other ID	6
Sample Type	ES
Sampling Date	07/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
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	3.5
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.10
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	1.2
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	5.3
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	180
Aniline	DETSC 3433*	0.1	mg/kg	< 100.0
2-Chlorophenol	DETSC 3433	0.1	mg/kg	< 100.0
Benzyl Alcohol	DETSC 3433	0.1	mg/kg	< 100.0
2-Methylphenol	DETSC 3433	0.1	mg/kg	< 100.0
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 100.0
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	150
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 100.0
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 100.0
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 100.0

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665588
Sample ID	PRAIRIE_AUK_TP114_SO_0090
Depth	0.90
Other ID	6
Sample Type	ES
Sampling Date	07/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
1,2,4-Trichlorobenzene	DETSC 3433	0.1	mg/kg	< 100.0
4-Chloro-3-methylphenol	DETSC 3433	0.1	mg/kg	< 100.0
2-Methylnaphthalene	DETSC 3433	0.1	mg/kg	3000
Hexachlorocyclopentadiene	DETSC 3433*	0.1	mg/kg	< 100.0
2,4,6-Trichlorophenol	DETSC 3433	0.1	mg/kg	< 100.0
2,4,5-Trichlorophenol	DETSC 3433*	0.1	mg/kg	< 100.0
2-Chloronaphthalene	DETSC 3433	0.1	mg/kg	< 100.0
2-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 100.0
2,4-Dinitrotoluene	DETSC 3433*	0.1	mg/kg	< 100.0
3-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 100.0
4-Nitrophenol	DETSC 3433*	0.1	mg/kg	< 100.0
Dibenzofuran	DETSC 3433	0.1	mg/kg	3300
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 100.0
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 100.0
Diethylphthalate	DETSC 3433	0.1	mg/kg	< 100.0
4-Chlorophenylphenylether	DETSC 3433*	0.1	mg/kg	< 100.0
4-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 100.0
2-Methyl-4,6-Dinitrophenol	DETSC 3433*	0.1	mg/kg	< 100.0
Diphenylamine	DETSC 3433	0.1	mg/kg	< 100.0
4-Bromophenylphenylether	DETSC 3433	0.1	mg/kg	< 100.0
Hexachlorobenzene	DETSC 3433	0.1	mg/kg	< 100.0
Pentachlorophenol	DETSC 3433*	0.1	mg/kg	< 100.0
Di-n-butylphthalate	DETSC 3433	0.1	mg/kg	< 100.0
Butylbenzylphthalate	DETSC 3433*	0.1	mg/kg	< 100.0
Bis(2-ethylhexyl)phthalate	DETSC 3433	0.1	mg/kg	< 100.0
Di-n-octylphthalate	DETSC 3433	0.1	mg/kg	< 100.0
1,4-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 100.0
Dimethylphthalate	DETSC 3433	0.1	mg/kg	< 100.0
1,3-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 100.0
1,2-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 100.0
2,3,5,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 100.0
Azobenzene	DETSC 3433	0.1	mg/kg	< 100.0
Carbazole	DETSC 3433*	0.1	mg/kg	2200



Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665610
Sample ID	PRAIRIE_AUK_TP179_SO_0140
Depth	1.40
Other ID	4
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
VOCs				
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	0.03
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	0.19
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	0.11
m+p-Xylene	DETSC 3431	0.01	mg/kg	4.5
o-Xylene	DETSC 3431	0.01	mg/kg	0.62
Styrene	DETSC 3431*	0.01	mg/kg	0.28
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01



Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665610
Sample ID	PRAIRIE_AUK_TP179_SO_0140
Depth	1.40
Other ID	4
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	0.53
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	0.21
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	0.83
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01
SVOCs				
Phenol	DETSC 3433	0.1	mg/kg	< 0.1
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1
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	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1



Summary of Chemical Analysis

Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665610
Sample ID	PRAIRIE_AUK_TP179_SO_0140
Depth	1.40
Other ID	4
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
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	64
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	49
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1
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	2.6
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	0.7



Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665611
Sample ID	PRAIRIE_AUK_TP179_SO_0200
Depth	2.00
Other ID	7
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
VOCs				
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665611
Sample ID	PRAIRIE_AUK_TP179_SO_0200
Depth	2.00
Other ID	7
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	0.01
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01
SVOCs				
Phenol	DETSC 3433	0.1	mg/kg	< 0.1
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1
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	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665611
Sample ID	PRAIRIE_AUK_TP179_SO_0200
Depth	2.00
Other ID	7
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
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	0.3
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	0.2
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1
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	< 0.1



Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665612
Sample ID	PRAIRIE_AUK_TP181_SO_0060
Depth	0.60
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
VOCs				
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01



Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665612
Sample ID	PRAIRIE_AUK_TP181_SO_0060
Depth	0.60
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	0.01
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01
SVOCs				
Phenol	DETSC 3433	0.1	mg/kg	< 0.1
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1
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	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1



Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665612
Sample ID	PRAIRIE_AUK_TP181_SO_0060
Depth	0.60
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
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	0.5
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	0.5
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1
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	< 0.1



Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665613
Sample ID	PRAIRIE_AUK_TP182_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
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	2.9
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	0.14
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	5.0
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	2.3
m+p-Xylene	DETSC 3431	0.01	mg/kg	17
o-Xylene	DETSC 3431	0.01	mg/kg	8.1
Styrene	DETSC 3431*	0.01	mg/kg	5.1
Bromoform	DETSC 3431	0.01	mg/kg	< 0.10



Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665613
Sample ID	PRAIRIE_AUK_TP182_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
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	7.0
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.10
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	2.9
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	10
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	< 1.0
Aniline	DETSC 3433*	0.1	mg/kg	< 1.0
2-Chlorophenol	DETSC 3433	0.1	mg/kg	< 1.0
Benzyl Alcohol	DETSC 3433	0.1	mg/kg	< 1.0
2-Methylphenol	DETSC 3433	0.1	mg/kg	< 1.0
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 1.0
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 1.0
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 1.0
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 1.0
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 1.0

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665613
Sample ID	PRAIRIE_AUK_TP182_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
1,2,4-Trichlorobenzene	DETSC 3433	0.1	mg/kg	< 1.0
4-Chloro-3-methylphenol	DETSC 3433	0.1	mg/kg	< 1.0
2-Methylnaphthalene	DETSC 3433	0.1	mg/kg	1300
Hexachlorocyclopentadiene	DETSC 3433*	0.1	mg/kg	< 1.0
2,4,6-Trichlorophenol	DETSC 3433	0.1	mg/kg	< 1.0
2,4,5-Trichlorophenol	DETSC 3433*	0.1	mg/kg	< 1.0
2-Chloronaphthalene	DETSC 3433	0.1	mg/kg	< 1.0
2-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 1.0
2,4-Dinitrotoluene	DETSC 3433*	0.1	mg/kg	< 1.0
3-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 1.0
4-Nitrophenol	DETSC 3433*	0.1	mg/kg	< 1.0
Dibenzofuran	DETSC 3433	0.1	mg/kg	820
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 1.0
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 1.0
Diethylphthalate	DETSC 3433	0.1	mg/kg	< 1.0
4-Chlorophenylphenylether	DETSC 3433*	0.1	mg/kg	< 1.0
4-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 1.0
2-Methyl-4,6-Dinitrophenol	DETSC 3433*	0.1	mg/kg	< 1.0
Diphenylamine	DETSC 3433	0.1	mg/kg	< 1.0
4-Bromophenylphenylether	DETSC 3433	0.1	mg/kg	< 1.0
Hexachlorobenzene	DETSC 3433	0.1	mg/kg	< 1.0
Pentachlorophenol	DETSC 3433*	0.1	mg/kg	< 1.0
Di-n-butylphthalate	DETSC 3433	0.1	mg/kg	< 1.0
Butylbenzylphthalate	DETSC 3433*	0.1	mg/kg	< 1.0
Bis(2-ethylhexyl)phthalate	DETSC 3433	0.1	mg/kg	< 1.0
Di-n-octylphthalate	DETSC 3433	0.1	mg/kg	< 1.0
1,4-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	72
Dimethylphthalate	DETSC 3433	0.1	mg/kg	< 1.0
1,3-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 1.0
1,2-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 1.0
2,3,5,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 1.0
Azobenzene	DETSC 3433	0.1	mg/kg	< 1.0
Carbazole	DETSC 3433*	0.1	mg/kg	38

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665990
Sample ID	PRAIRIE_AUK_TP145_SO_0160
Depth	1.60
Other ID	4
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
VOCs				
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665990
Sample ID	PRAIRIE_AUK_TP145_SO_0160
Depth	1.60
Other ID	4
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01
SVOCs				
Phenol	DETSC 3433	0.1	mg/kg	< 0.1
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1
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	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665990
Sample ID	PRAIRIE_AUK_TP145_SO_0160
Depth	1.60
Other ID	4
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
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	< 0.1
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	< 0.1
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1
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	< 0.1



Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665995
Sample ID	PRAIRIE_AUK_TP163_SO_0120
Depth	1.20
Other ID	3
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
VOCs				
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665995
Sample ID	PRAIRIE_AUK_TP163_SO_0120
Depth	1.20
Other ID	3
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01
SVOCs				
Phenol	DETSC 3433	0.1	mg/kg	0.2
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1
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	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665995
Sample ID	PRAIRIE_AUK_TP163_SO_0120
Depth	1.20
Other ID	3
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
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	0.2
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	140
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1
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	0.9

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666344
Sample ID	PRAIRIE_AUK_TP136_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
VOCs				
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666344
Sample ID	PRAIRIE_AUK_TP136_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01
SVOCs				
Phenol	DETSC 3433	0.1	mg/kg	< 0.1
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1
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	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666344
Sample ID	PRAIRIE_AUK_TP136_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
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	< 0.1
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	< 0.1
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1
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	< 0.1

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667233
Sample ID	PRAIRIE_AUK_TP128_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	17/04/2020
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	< 0.10
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	< 0.10
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	< 0.10
m+p-Xylene	DETSC 3431	0.01	mg/kg	0.27
o-Xylene	DETSC 3431	0.01	mg/kg	0.13
Styrene	DETSC 3431*	0.01	mg/kg	0.18
Bromoform	DETSC 3431	0.01	mg/kg	< 0.10

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667233
Sample ID	PRAIRIE_AUK_TP128_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
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	0.49
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	0.53
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	< 0.1
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1
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	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667233
Sample ID	PRAIRIE_AUK_TP128_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
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	830
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	210
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1
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	1.0
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	< 0.1

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668123
Sample ID	PRAIRIE_AUK_TP110_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
VOCs				
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668123
Sample ID	PRAIRIE_AUK_TP110_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01
SVOCs				
Phenol	DETSC 3433	0.1	mg/kg	< 0.1
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1
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	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668123
Sample ID	PRAIRIE_AUK_TP110_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	21/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
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	0.2
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	0.9
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1
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	0.5

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668135
Sample ID	PRAIRIE_AUK_TP170_SO_0100
Depth	1.00
Other ID	4
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
VOCs				
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668135
Sample ID	PRAIRIE_AUK_TP170_SO_0100
Depth	1.00
Other ID	4
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01
SVOCs				
Phenol	DETSC 3433	0.1	mg/kg	< 0.1
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1
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	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668135
Sample ID	PRAIRIE_AUK_TP170_SO_0100
Depth	1.00
Other ID	4
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
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	< 0.1
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	< 0.1
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1
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	< 0.1

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668566
Sample ID	PRAIRIE_AUK_TP140_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
VOCs				
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668566
Sample ID	PRAIRIE_AUK_TP140_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01
SVOCs				
Phenol	DETSC 3433	0.1	mg/kg	< 0.1
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1
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	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668566
Sample ID	PRAIRIE_AUK_TP140_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
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	0.1
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	0.2
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1
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	0.3

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668567
Sample ID	PRAIRIE_AUK_TP141_SO_0200
Depth	2.00
Other ID	4
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
VOCs				
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668567
Sample ID	PRAIRIE_AUK_TP141_SO_0200
Depth	2.00
Other ID	4
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01
SVOCs				
Phenol	DETSC 3433	0.1	mg/kg	< 0.1
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1
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	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668567
Sample ID	PRAIRIE_AUK_TP141_SO_0200
Depth	2.00
Other ID	4
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
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	0.1
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	0.3
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1
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	< 0.1

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668569
Sample ID	PRAIRIE_AUK_TP142_SO_0150
Depth	1.50
Other ID	4
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
VOCs				
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	0.02
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668569
Sample ID	PRAIRIE_AUK_TP142_SO_0150
Depth	1.50
Other ID	4
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01
SVOCs				
Phenol	DETSC 3433	0.1	mg/kg	1.1
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1
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	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	0.6
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668569
Sample ID	PRAIRIE_AUK_TP142_SO_0150
Depth	1.50
Other ID	4
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
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	< 0.1
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	< 0.1
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1
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	< 0.1



Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668869
Sample ID	PRAIRIE_AUK_TP144_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	24/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
VOCs				
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668869
Sample ID	PRAIRIE_AUK_TP144_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	24/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01
SVOCs				
Phenol	DETSC 3433	0.1	mg/kg	< 0.1
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1
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	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668869
Sample ID	PRAIRIE_AUK_TP144_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	24/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
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	0.3
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	0.3
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1
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	< 0.1

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1669251
Sample ID	PRAIRIE_AUK_TP112_SO_0210
Depth	2.10
Other ID	7
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
VOCs				
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1669251
Sample ID	PRAIRIE_AUK_TP112_SO_0210
Depth	2.10
Other ID	7
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01
SVOCs				
Phenol	DETSC 3433	0.1	mg/kg	< 0.1
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1
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	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1669251
Sample ID	PRAIRIE_AUK_TP112_SO_0210
Depth	2.10
Other ID	7
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
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	< 0.1
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	< 0.1
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1
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	< 0.1

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670142
Sample ID	PRAIRIE_AUK_TP194A_SO_0140
Depth	1.40
Other ID	1
Sample Type	ES
Sampling Date	29/04/2020
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	0.53
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	0.43
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	0.73
m+p-Xylene	DETSC 3431	0.01	mg/kg	1.1
o-Xylene	DETSC 3431	0.01	mg/kg	0.76
Styrene	DETSC 3431*	0.01	mg/kg	0.52
Bromoform	DETSC 3431	0.01	mg/kg	< 0.10

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670142
Sample ID	PRAIRIE_AUK_TP194A_SO_0140
Depth	1.40
Other ID	1
Sample Type	ES
Sampling Date	29/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Isopropylbenzene	DETSC 3431	0.01	mg/kg	0.20
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	2.0
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.10
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	1.1
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	2.9
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.10
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	0.27
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	0.53
MTBE	DETSC 3431*	0.01	mg/kg	< 0.10
SVOCs				
Phenol	DETSC 3433	0.1	mg/kg	1.1
Aniline	DETSC 3433*	0.1	mg/kg	0.5
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	0.5
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	0.7
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	0.6
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670142
Sample ID	PRAIRIE_AUK_TP194A_SO_0140
Depth	1.40
Other ID	1
Sample Type	ES
Sampling Date	29/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
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	660
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	590
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1
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	5.1

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670143
Sample ID	PRAIRIE_AUK_TP196A_SO_0140
Depth	1.40
Other ID	1
Sample Type	ES
Sampling Date	29/04/2020
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	< 0.10
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	< 0.10
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	< 0.10
m+p-Xylene	DETSC 3431	0.01	mg/kg	0.37
o-Xylene	DETSC 3431	0.01	mg/kg	0.33
Styrene	DETSC 3431*	0.01	mg/kg	0.32
Bromoform	DETSC 3431	0.01	mg/kg	< 0.10

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670143
Sample ID	PRAIRIE_AUK_TP196A_SO_0140
Depth	1.40
Other ID	1
Sample Type	ES
Sampling Date	29/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
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	0.49
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.10
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	0.27
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	0.62
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	1.1
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1
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	0.3
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	0.5
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670143
Sample ID	PRAIRIE_AUK_TP196A_SO_0140
Depth	1.40
Other ID	1
Sample Type	ES
Sampling Date	29/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
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	75
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	82
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1
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	3.6

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670144
Sample ID	PRAIRIE_AUK_TP201_SO_0360
Depth	3.60
Other ID	1
Sample Type	ES
Sampling Date	28/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
VOCs				
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670144
Sample ID	PRAIRIE_AUK_TP201_SO_0360
Depth	3.60
Other ID	1
Sample Type	ES
Sampling Date	28/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01
SVOCs				
Phenol	DETSC 3433	0.1	mg/kg	0.3
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1
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	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670144
Sample ID	PRAIRIE_AUK_TP201_SO_0360
Depth	3.60
Other ID	1
Sample Type	ES
Sampling Date	28/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
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	0.6
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	1.4
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1
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	0.3

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670502
Sample ID	PRAIRIE_AUK_TP193_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

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670502
Sample ID	PRAIRIE_AUK_TP193_SO_0080
Depth	0.80
Other ID	1
Sample Type	ES
Sampling Date	30/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
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
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

Summary of Chemical Analysis Soil VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670502
Sample ID	PRAIRIE_AUK_TP193_SO_0080
Depth	0.80
Other ID	1
Sample Type	ES
Sampling Date	30/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
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
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



Summary of Chemical Analysis Water Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665287	1665289	1665294
Sample ID	PRAIRIE_AU K_SW1	PRAIRIE_AUK_TP11 5_SO_0050	PRAIRIE_AUK_TP18 6_SO_0100
Depth	0.00	0.50	1.00
Other ID	1	9	4
Sample Type	EW	EW	EW
Sampling Date	09/04/2020	08/04/2020	07/04/2020
Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
Metals						
Aluminium, Dissolved	DETSC 2306	10	ug/l			
Antimony, Dissolved	DETSC 2306	0.17	ug/l			
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	2.6	4.3	6.7
Barium, Dissolved	DETSC 2306	0.26	ug/l			
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l			
Boron, Dissolved	DETSC 2306*	12	ug/l	370	170	370
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	0.14	< 0.03
Calcium, Dissolved	DETSC 2306	0.09	mg/l			
Chromium, Total	DETSC 2306*	0.25	ug/l	7.9	110	6.4
Chromium, Hexavalent	DETSC 2203	7	ug/l			
Copper, Dissolved	DETSC 2306	0.4	ug/l	4.4	11	3.6
Iron, Dissolved	DETSC 2306	5.5	ug/l			
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.52	20	2.2
Magnesium, Dissolved	DETSC 2306	0.02	mg/l			
Manganese, Dissolved	DETSC 2306	0.22	ug/l	19	990	400
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	0.06	< 0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l			
Nickel, Dissolved	DETSC 2306	0.5	ug/l	1.1	4.7	2.9
Sodium, Dissolved	DETSC 2306	0.07	mg/l			
Vanadium, Dissolved	DETSC 2306	0.6	ug/l			
Zinc, Dissolved	DETSC 2306	1.3	ug/l	2.2	86	10
Inorganics						
pH	DETSC 2008		pH	6.8	10.9	7.2
Cyanide, Total	DETSC 2130	40	ug/l	< 40	71	410
Cyanide, Free	DETSC 2130	20	ug/l			
Thiocyanate	DETSC 2130	20	ug/l			
Dissolved Organic Carbon	DETSC 2085	2	mg/l	9.9	10	23
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	< 0.015	0.54	5.6
Chloride	DETSC 2055	0.1	mg/l			
Nitrate as N	*	0.1	mg/l			
Nitrite as N	DETSC 2201	0.035	mg/l			
Salinity (Calculated)	DETSC 2017*	0.01	%			

Summary of Chemical Analysis Water Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665287	1665289	1665294
Sample ID	PRAIRIE_AU K_SW1	PRAIRIE_AUK_TP11 5_SO_0050	PRAIRIE_AUK_TP18 6_SO_0100
Depth	0.00	0.50	1.00
Other ID	1	9	4
Sample Type	EW	EW	EW
Sampling Date	09/04/2020	08/04/2020	07/04/2020
Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
Silicate as SiO2	DETSC 2211*	0.1	mg/l			
Sulphate as SO4	DETSC 2055	0.1	mg/l	210	230	510
Sulphur (free)	DETSC 3049	84	ug/l			

Summary of Chemical Analysis Water Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665287	1665289	1665294
Sample ID	PRAIRIE_AU K_SW1	PRAIRIE_AUK_TP11 5_SO_0050	PRAIRIE_AUK_TP18 6_SO_0100
Depth	0.00	0.50	1.00
Other ID	1	9	4
Sample Type	EW	EW	EW
Sampling Date	09/04/2020	08/04/2020	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	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	310
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	54
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	1.1
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	180
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	1200
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	1000
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	2800
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	280
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	44
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	110
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	1.6	3100
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	29	1200
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	150	240
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10	180	5000
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	< 10	180	7800
EPH (C10-C40)	DETSC 3311	10	ug/l	220	1900	20000

Summary of Chemical Analysis Water Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Lab No	1665287	1665289	1665294
Sample ID	PRAIRIE_AU K_SW1	PRAIRIE_AUK_TP11 5_SO_0050	PRAIRIE_AUK_TP18 6_SO_0100
Depth	0.00	0.50	1.00
Other ID	1	9	4
Sample Type	EW	EW	EW
Sampling Date	09/04/2020	08/04/2020	07/04/2020
Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
PAHs						
Naphthalene	DETSC 3304	0.05	ug/l	0.06	0.18	690
Acenaphthylene	DETSC 3304	0.01	ug/l	0.02	0.05	69
Acenaphthene	DETSC 3304	0.01	ug/l	0.03	1.3	690
Fluorene	DETSC 3304	0.01	ug/l	0.02	0.80	310
Phenanthrene	DETSC 3304	0.01	ug/l	0.18	2.8	210
Anthracene	DETSC 3304	0.01	ug/l	0.07	0.54	35
Fluoranthene	DETSC 3304	0.01	ug/l	0.50	2.3	28
Pyrene	DETSC 3304	0.01	ug/l	0.41	1.7	18
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.19	0.55	3.4
Chrysene	DETSC 3304	0.01	ug/l	0.28	0.59	3.7
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.44	0.83	4.5
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	0.15	0.30	1.5
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	0.22	0.56	2.4
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	0.14	0.38	1.2
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	0.05	0.11	< 1.00
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	0.20	0.52	1.6
PAH Total	DETSC 3304	0.2	ug/l	3.0	14	2100
Phenols						
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100	3400

Summary of Chemical Analysis Water Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Lab No	1671485	1671486
Sample ID	PRAIRIE_AUK_BH102_GW_050520	PRAIRIE_AUK_BH103_GW_050520
Depth		
Other ID	100	100
Sample Type	EW	EW
Sampling Date	05/05/2020	05/05/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Metals					
Aluminium, Dissolved	DETSC 2306	10	ug/l	80	37
Antimony, Dissolved	DETSC 2306	0.17	ug/l	1.3	2.4
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	0.70	5.3
Barium, Dissolved	DETSC 2306	0.26	ug/l	1000	45
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	13	240
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	0.07
Calcium, Dissolved	DETSC 2306	0.09	mg/l	980	170
Chromium, Total	DETSC 2306*	0.25	ug/l	< 0.25	0.34
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.8	4.6
Iron, Dissolved	DETSC 2306	5.5	ug/l	17	170
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.49	0.48
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	0.14	15
Manganese, Dissolved	DETSC 2306	0.22	ug/l	6.5	390
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.02	0.11
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	11	51
Nickel, Dissolved	DETSC 2306	0.5	ug/l	7.1	3.6
Sodium, Dissolved	DETSC 2306	0.07	mg/l	31	51
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	2.1	17
Zinc, Dissolved	DETSC 2306	1.3	ug/l	8.6	< 1.3
Inorganics					
pH	DETSC 2008		pH	12.5	9.2
Cyanide, Total	DETSC 2130	40	ug/l	< 40	100
Cyanide, Free	DETSC 2130	20	ug/l	< 20	86
Thiocyanate	DETSC 2130	20	ug/l	150	91
Dissolved Organic Carbon	DETSC 2085	2	mg/l	15	7.9
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	1.0	0.46
Chloride	DETSC 2055	0.1	mg/l	29	36
Nitrate as N	*	0.1	mg/l	0.29	0.29
Nitrite as N	DETSC 2201	0.035	mg/l	< 0.035	0.049
Salinity (Calculated)	DETSC 2017*	0.01	%	3.3	0.5

Summary of Chemical Analysis Water Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Lab No	1671485	1671486
Sample ID	PRAIRIE_AUK_BH102_ GW_050520	PRAIRIE_AUK_BH103_ GW_050520
Depth		
Other ID	100	100
Sample Type	EW	EW
Sampling Date	05/05/2020	05/05/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Silicate as SiO ₂	DETSC 2211*	0.1	mg/l	2.0	12
Sulphate as SO ₄	DETSC 2055	0.1	mg/l	35	330
Sulphur (free)	DETSC 3049	84	ug/l	< 84	< 84



Summary of Chemical Analysis Water Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Lab No	1671485	1671486
Sample ID	PRAIRIE_AUK_BH102_GW_050520	PRAIRIE_AUK_BH103_GW_050520
Depth		
Other ID	100	100
Sample Type	EW	EW
Sampling Date	05/05/2020	05/05/2020
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		



Summary of Chemical Analysis Water Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Lab No	1671485	1671486
Sample ID	PRAIRIE_AUK_BH102_ GW_050520	PRAIRIE_AUK_BH103_ GW_050520
Depth		
Other ID	100	100
Sample Type	EW	EW
Sampling Date	05/05/2020	05/05/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
PAHs					
Naphthalene	DETSC 3304	0.05	ug/l	3.7	0.06
Acenaphthylene	DETSC 3304	0.01	ug/l	0.10	0.23
Acenaphthene	DETSC 3304	0.01	ug/l	4.4	0.87
Fluorene	DETSC 3304	0.01	ug/l	1.5	0.22
Phenanthrene	DETSC 3304	0.01	ug/l	1.8	0.07
Anthracene	DETSC 3304	0.01	ug/l	0.14	0.09
Fluoranthene	DETSC 3304	0.01	ug/l	0.24	0.27
Pyrene	DETSC 3304	0.01	ug/l	0.18	0.25
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.03	0.11
Chrysene	DETSC 3304	0.01	ug/l	0.03	0.11
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.03	0.24
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	0.01	0.06
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	0.02	0.12
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	0.02	0.21
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 0.01	0.04
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	0.02	0.20
PAH Total	DETSC 3304	0.2	ug/l	12	3.1
Phenols					
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100

Summary of Chemical Analysis Water Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Lab No	1671487	1671488
Sample ID	PRAIRIE_AUK_BH104_GW_050520	PRAIRIE_AUK_BH105_GW_050520
Depth		
Other ID	100	100
Sample Type	EW	EW
Sampling Date	05/05/2020	05/05/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Metals					
Aluminium, Dissolved	DETSC 2306	10	ug/l	39	68
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.59	0.46
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	1.7	1.9
Barium, Dissolved	DETSC 2306	0.26	ug/l	87	42
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	410	310
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03
Calcium, Dissolved	DETSC 2306	0.09	mg/l	99	220
Chromium, Total	DETSC 2306*	0.25	ug/l	2.9	2.6
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	0.7	< 0.4
Iron, Dissolved	DETSC 2306	5.5	ug/l	30	600
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.18	0.11
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	58	45
Manganese, Dissolved	DETSC 2306	0.22	ug/l	440	810
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.09	< 0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	13	8.2
Nickel, Dissolved	DETSC 2306	0.5	ug/l	3.7	1.9
Sodium, Dissolved	DETSC 2306	0.07	mg/l	110	130
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	0.9	< 0.6
Zinc, Dissolved	DETSC 2306	1.3	ug/l	16	< 1.3
Inorganics					
pH	DETSC 2008		pH	8.2	7.9
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	< 40
Dissolved Organic Carbon	DETSC 2085	2	mg/l	2.2	12
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.17	0.030
Chloride	DETSC 2055	0.1	mg/l	85	51
Nitrate as N	*	0.1	mg/l	0.32	0.31
Nitrite as N	DETSC 2201	0.035	mg/l	< 0.035	< 0.035
Salinity (Calculated)	DETSC 2017*	0.01	%	0.6	0.8

Summary of Chemical Analysis Water Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Lab No	1671487	1671488
Sample ID	PRAIRIE_AUK_BH104_GW_050520	PRAIRIE_AUK_BH105_GW_050520
Depth		
Other ID	100	100
Sample Type	EW	EW
Sampling Date	05/05/2020	05/05/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Silicate as SiO ₂	DETSC 2211*	0.1	mg/l	7.1	16
Sulphate as SO ₄	DETSC 2055	0.1	mg/l	310	640
Sulphur (free)	DETSC 3049	84	ug/l	< 84	< 84



Summary of Chemical Analysis Water Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Lab No	1671487	1671488
Sample ID	PRAIRIE_AUK_BH104_GW_050520	PRAIRIE_AUK_BH105_GW_050520
Depth		
Other ID	100	100
Sample Type	EW	EW
Sampling Date	05/05/2020	05/05/2020
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	14	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	16	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	1.3	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	31	< 10
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	31	< 10
EPH (C10-C40)	DETSC 3311	10	ug/l		

Summary of Chemical Analysis Water Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Lab No	1671487	1671488
Sample ID	PRAIRIE_AUK_BH104_GW_050520	PRAIRIE_AUK_BH105_GW_050520
Depth		
Other ID	100	100
Sample Type	EW	EW
Sampling Date	05/05/2020	05/05/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
PAHs					
Naphthalene	DETSC 3304	0.05	ug/l	4.3	0.08
Acenaphthylene	DETSC 3304	0.01	ug/l	1.1	< 0.01
Acenaphthene	DETSC 3304	0.01	ug/l	22	0.10
Fluorene	DETSC 3304	0.01	ug/l	23	0.10
Phenanthrene	DETSC 3304	0.01	ug/l	44	0.21
Anthracene	DETSC 3304	0.01	ug/l	6.2	0.03
Fluoranthene	DETSC 3304	0.01	ug/l	4.5	0.04
Pyrene	DETSC 3304	0.01	ug/l	2.6	0.03
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.35	< 0.01
Chrysene	DETSC 3304	0.01	ug/l	0.61	< 0.01
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.40	< 0.01
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	0.10	< 0.01
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	0.22	< 0.01
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	0.32	< 0.01
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	0.05	< 0.01
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	0.30	< 0.01
PAH Total	DETSC 3304	0.2	ug/l	110	0.65
Phenols					
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100

Summary of Chemical Analysis Water Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Contract Title Prairie Site Ground Investigation Works

Lab No	1671489	1671490
Sample ID	PRAIRIE_AUK_BH107_GW_050520	PRAIRIE_AUK_BH109_GW_050520
Depth		
Other ID	100	100
Sample Type	EW	EW
Sampling Date	05/05/2020	05/05/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Metals					
Aluminium, Dissolved	DETSC 2306	10	ug/l	33	260
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.53	1.2
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	0.65	5.1
Barium, Dissolved	DETSC 2306	0.26	ug/l	66	180
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	150	86
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	0.08	< 0.03
Calcium, Dissolved	DETSC 2306	0.09	mg/l	340	38
Chromium, Total	DETSC 2306*	0.25	ug/l	41	110
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.7	< 0.4
Iron, Dissolved	DETSC 2306	5.5	ug/l	60	160
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.20	0.15
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	88	17
Manganese, Dissolved	DETSC 2306	0.22	ug/l	290	85
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	0.33
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	2.8	23
Nickel, Dissolved	DETSC 2306	0.5	ug/l	4.5	1.2
Sodium, Dissolved	DETSC 2306	0.07	mg/l	290	99
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	< 0.6	1.2
Zinc, Dissolved	DETSC 2306	1.3	ug/l	3.7	< 1.3
Inorganics					
pH	DETSC 2008		pH	7.6	7.9
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	130
Dissolved Organic Carbon	DETSC 2085	2	mg/l	4.0	12
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	< 0.015	0.45
Chloride	DETSC 2055	0.1	mg/l	130	83
Nitrate as N	*	0.1	mg/l	0.32	0.26
Nitrite as N	DETSC 2201	0.035	mg/l	< 0.035	< 0.035
Salinity (Calculated)	DETSC 2017*	0.01	%	1.4	0.4

Summary of Chemical Analysis Water Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

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Contract Title Prairie Site Ground Investigation Works

Lab No	1671489	1671490
Sample ID	PRAIRIE_AUK_BH107_ GW_050520	PRAIRIE_AUK_BH109_ GW_050520
Depth		
Other ID	100	100
Sample Type	EW	EW
Sampling Date	05/05/2020	05/05/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Silicate as SiO ₂	DETSC 2211*	0.1	mg/l	10	8.1
Sulphate as SO ₄	DETSC 2055	0.1	mg/l	840	54
Sulphur (free)	DETSC 3049	84	ug/l	< 84	460



Summary of Chemical Analysis Water Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1671489	1671490
Sample ID	PRAIRIE_AUK_BH107_ GW_050520	PRAIRIE_AUK_BH109_ GW_050520
Depth		
Other ID	100	100
Sample Type	EW	EW
Sampling Date	05/05/2020	05/05/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Petroleum Hydrocarbons					
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1	20
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1	160
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	210
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	13
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	330
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	1200
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	230
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10	2200
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1	130
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1	41
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	1200
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	4600
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	1100
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	140
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10	7200
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	< 10	9400
EPH (C10-C40)	DETSC 3311	10	ug/l		

Summary of Chemical Analysis Water Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

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Contract Title Prairie Site Ground Investigation Works

Lab No	1671489	1671490
Sample ID	PRAIRIE_AUK_BH107_ GW_050520	PRAIRIE_AUK_BH109_ GW_050520
Depth		
Other ID	100	100
Sample Type	EW	EW
Sampling Date	05/05/2020	05/05/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
PAHs					
Naphthalene	DETSC 3304	0.05	ug/l	< 0.05	4900
Acenaphthylene	DETSC 3304	0.01	ug/l	0.02	19
Acenaphthene	DETSC 3304	0.01	ug/l	0.48	1600
Fluorene	DETSC 3304	0.01	ug/l	0.01	540
Phenanthrene	DETSC 3304	0.01	ug/l	0.02	630
Anthracene	DETSC 3304	0.01	ug/l	0.01	55
Fluoranthene	DETSC 3304	0.01	ug/l	0.01	35
Pyrene	DETSC 3304	0.01	ug/l	0.02	21
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	< 0.01	6.4
Chrysene	DETSC 3304	0.01	ug/l	< 0.01	5.9
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	5.8
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	2.6
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	< 0.01	2.8
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	< 0.01	2.6
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 0.01	< 1.00
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	< 0.01	2.6
PAH Total	DETSC 3304	0.2	ug/l	0.62	7800
Phenols					
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100

Summary of Chemical Analysis Water Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Lab No	1671899	1671900
Sample ID	PRAIRIE_AUK_BH101S _GW_060520	PRAIRIE_AUK_BH101D _GW_060520
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	710	110
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.76	0.76
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	2.4	2.3
Barium, Dissolved	DETSC 2306	0.26	ug/l	68	69
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	440	390
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03
Calcium, Dissolved	DETSC 2306	0.09	mg/l	270	260
Chromium, Total	DETSC 2306*	0.25	ug/l	9.4	11
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	2.8	2.2
Iron, Dissolved	DETSC 2306	5.5	ug/l	780	380
Lead, Dissolved	DETSC 2306	0.09	ug/l	1.1	0.26
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	53	50
Manganese, Dissolved	DETSC 2306	0.22	ug/l	720	590
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.02	0.02
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	30	33
Nickel, Dissolved	DETSC 2306	0.5	ug/l	4.1	3.7
Sodium, Dissolved	DETSC 2306	0.07	mg/l	320	310
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	2.4	1.3
Zinc, Dissolved	DETSC 2306	1.3	ug/l	6.7	3.9
Inorganics					
pH	DETSC 2008		pH	7.4	7.5
Cyanide, Total	DETSC 2130	40	ug/l	54	64
Cyanide, Free	DETSC 2130	20	ug/l	23	27
Thiocyanate	DETSC 2130	20	ug/l	120	130
Dissolved Organic Carbon	DETSC 2085	2	mg/l	6.6	6.8
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.80	0.82
Chloride	DETSC 2055	0.1	mg/l	240	230
Nitrate as N	*	0.1	mg/l	1.1	< 0.10
Nitrite as N	DETSC 2201	0.035	mg/l	< 0.035	< 0.035
Salinity (Calculated)	DETSC 2017*	0.01	%	1.4	1.3

Summary of Chemical Analysis Water Samples

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-
08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

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Contract Title Prairie Site Ground Investigation Works

Lab No	1671899	1671900
Sample ID	PRAIRIE_AUK_BH101S _GW_060520	PRAIRIE_AUK_BH101D _GW_060520
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		
Silicate as SiO ₂	DETSC 2211*	0.1	mg/l	10	9.6
Sulphate as SO ₄	DETSC 2055	0.1	mg/l	920	820
Sulphur (free)	DETSC 3049	84	ug/l	< 84	< 84



Summary of Chemical Analysis Water Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Contract Title Prairie Site Ground Investigation Works

Lab No	1671899	1671900
Sample ID	PRAIRIE_AUK_BH101S _GW_060520	PRAIRIE_AUK_BH101D _GW_060520
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	6.4	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	24	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	8.5	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	1.1	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	40	< 10
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	40	< 10
EPH (C10-C40)	DETSC 3311	10	ug/l		

Summary of Chemical Analysis Water Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Lab No	1671899	1671900
Sample ID	PRAIRIE_AUK_BH101S _GW_060520	PRAIRIE_AUK_BH101D _GW_060520
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	1.4	0.53
Acenaphthylene	DETSC 3304	0.01	ug/l	0.08	0.03
Acenaphthene	DETSC 3304	0.01	ug/l	3.5	1.3
Fluorene	DETSC 3304	0.01	ug/l	2.0	0.80
Phenanthrene	DETSC 3304	0.01	ug/l	2.7	1.0
Anthracene	DETSC 3304	0.01	ug/l	0.40	0.14
Fluoranthene	DETSC 3304	0.01	ug/l	0.46	0.17
Pyrene	DETSC 3304	0.01	ug/l	0.30	0.12
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.07	0.03
Chrysene	DETSC 3304	0.01	ug/l	0.09	0.02
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.09	0.03
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	0.02	0.01
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	0.05	0.02
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	0.06	0.03
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	0.06	0.03
PAH Total	DETSC 3304	0.2	ug/l	11	4.3
Phenols					
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100

Summary of Chemical Analysis Water Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Contract Title Prairie Site Ground Investigation Works

Lab No	1671901	1671902
Sample ID	PRAIRIE_AUK_BH106_GW_060520	PRAIRIE_AUK_BH108S_GW_060520
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	470	140
Antimony, Dissolved	DETSC 2306	0.17	ug/l	1.3	0.28
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	3.7	0.40
Barium, Dissolved	DETSC 2306	0.26	ug/l	110	46
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	140	230
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	0.03
Calcium, Dissolved	DETSC 2306	0.09	mg/l	140	940
Chromium, Total	DETSC 2306*	0.25	ug/l	57	26
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	2.2	0.9
Iron, Dissolved	DETSC 2306	5.5	ug/l	310	74
Lead, Dissolved	DETSC 2306	0.09	ug/l	1.0	0.18
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	19	93
Manganese, Dissolved	DETSC 2306	0.22	ug/l	160	620
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.13	< 0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	16	3.9
Nickel, Dissolved	DETSC 2306	0.5	ug/l	2.8	2.3
Sodium, Dissolved	DETSC 2306	0.07	mg/l	61	71
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	11	< 0.6
Zinc, Dissolved	DETSC 2306	1.3	ug/l	5.5	4.9
Inorganics					
pH	DETSC 2008		pH	8.5	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	46	< 40
Dissolved Organic Carbon	DETSC 2085	2	mg/l	24	< 2.0
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.98	0.17
Chloride	DETSC 2055	0.1	mg/l	28	41
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	%	0.5	1.3

Summary of Chemical Analysis Water Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

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Contract Title Prairie Site Ground Investigation Works

Lab No	1671901	1671902
Sample ID	PRAIRIE_AUK_BH106_ GW_060520	PRAIRIE_AUK_BH108S _GW_060520
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		
Silicate as SiO ₂	DETSC 2211*	0.1	mg/l	11	9.1
Sulphate as SO ₄	DETSC 2055	0.1	mg/l	270	1300
Sulphur (free)	DETSC 3049	84	ug/l	< 84	< 84



Summary of Chemical Analysis Water Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Contract Title Prairie Site Ground Investigation Works

Lab No	1671901	1671902
Sample ID	PRAIRIE_AUK_BH106_ GW_060520	PRAIRIE_AUK_BH108S _GW_060520
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		

Summary of Chemical Analysis Water Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

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Contract Title Prairie Site Ground Investigation Works

Lab No	1671901	1671902
Sample ID	PRAIRIE_AUK_BH106_ GW_060520	PRAIRIE_AUK_BH108S _GW_060520
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	0.57	0.10
Acenaphthylene	DETSC 3304	0.01	ug/l	0.07	< 0.01
Acenaphthene	DETSC 3304	0.01	ug/l	1.0	0.28
Fluorene	DETSC 3304	0.01	ug/l	0.85	0.21
Phenanthrene	DETSC 3304	0.01	ug/l	1.0	0.32
Anthracene	DETSC 3304	0.01	ug/l	0.09	0.04
Fluoranthene	DETSC 3304	0.01	ug/l	0.13	0.05
Pyrene	DETSC 3304	0.01	ug/l	0.09	0.03
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.02	< 0.01
Chrysene	DETSC 3304	0.01	ug/l	0.04	< 0.01
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.04	< 0.01
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	0.02	< 0.01
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	0.02	< 0.01
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	0.04	< 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	0.05	< 0.01
PAH Total	DETSC 3304	0.2	ug/l	4.1	1.1
Phenols					
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100

Summary of Chemical Analysis Water Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Lab No	1671903	1671904
Sample ID	PRAIRIE_AUK_BH108D_GW_060520	PRAIRIE_AUK_BH110_GW_060520
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

Summary of Chemical Analysis Water Samples

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Lab No	1671903	1671904
Sample ID	PRAIRIE_AUK_BH108D _GW_060520	PRAIRIE_AUK_BH110_ GW_060520
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		
Silicate as SiO ₂	DETSC 2211*	0.1	mg/l	9.0	9.4
Sulphate as SO ₄	DETSC 2055	0.1	mg/l	1100	1500
Sulphur (free)	DETSC 3049	84	ug/l	< 84	< 84



Summary of Chemical Analysis Water Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Lab No	1671903	1671904
Sample ID	PRAIRIE_AUK_BH108D_GW_060520	PRAIRIE_AUK_BH110_GW_060520
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		

Summary of Chemical Analysis Water Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Lab No	1671903	1671904
Sample ID	PRAIRIE_AUK_BH108D _GW_060520	PRAIRIE_AUK_BH110_ GW_060520
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



Summary of Chemical Analysis Water VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Lab No	1671485	1671486
Sample ID	PRAIRIE_AUK_BH102_ GW_050520	PRAIRIE_AUK_BH103_ GW_050520
Depth		
Other ID	100	100
Sample Type	EW	EW
Sampling Date	05/05/2020	05/05/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
VOCs					
Dichlorodifluoromethane	DETSC 3432	1	ug/l	< 1	< 1
Chloromethane	DETSC 3432	1	ug/l	< 1	< 1
Vinyl Chloride	DETSC 3432	1	ug/l	< 1	< 1
Bromomethane	DETSC 3432	1	ug/l	< 1	< 1
Chloroethane	DETSC 3432	1	ug/l	< 1	< 1
Trichlorofluoromethane	DETSC 3432*	1	ug/l	< 1	< 1
1,1-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
Methylene Chloride	DETSC 3432*	27	ug/l	< 27	< 27
Trans-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
1,1-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Cis-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
2,2-dichloropropane	DETSC 3432	2	ug/l	< 2	< 2
Bromochloromethane	DETSC 3432	4	ug/l	< 4	< 4
Chloroform	DETSC 3432	1	ug/l	< 1	< 1
1,1,1-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1
1,1-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
Carbon tetrachloride	DETSC 3432	1	ug/l	< 1	< 1
Benzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Trichloroethylene	DETSC 3432*	1	ug/l	< 1	< 1
1,2-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1
Dibromomethane	DETSC 3432	1	ug/l	< 1	< 1
Bromodichloromethane	DETSC 3432	4	ug/l	< 4	< 4
cis-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
Toluene	DETSC 3432	1	ug/l	< 1	< 1
trans-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
1,1,2-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Tetrachloroethylene	DETSC 3432	1	ug/l	< 1	< 1
1,3-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1
Dibromochloromethane	DETSC 3432	1	ug/l	< 1	< 1
1,2-dibromoethane	DETSC 3432	1	ug/l	< 1	< 1
Chlorobenzene	DETSC 3432	1	ug/l	< 1	< 1



Summary of Chemical Analysis Water VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Lab No	1671485	1671486
Sample ID	PRAIRIE_AUK_BH102_ GW_050520	PRAIRIE_AUK_BH103_ GW_050520
Depth		
Other ID	100	100
Sample Type	EW	EW
Sampling Date	05/05/2020	05/05/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
1,1,1,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1
Ethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
m+p-Xylene	DETSC 3432	2	ug/l	< 2	< 2
o-Xylene	DETSC 3432	1	ug/l	< 1	< 1
Styrene	DETSC 3432	1	ug/l	< 1	< 1
Bromoform	DETSC 3432	1	ug/l	< 1	< 1
Isopropylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,1,2,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1
Bromobenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2,3-trichloropropane	DETSC 3432	1	ug/l	< 1	< 1
n-propylbenzene	DETSC 3432	1	ug/l	< 1	< 1
2-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1
1,3,5-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
4-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1
Tert-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2,4-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
sec-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
p-isopropyltoluene	DETSC 3432	1	ug/l	< 1	< 1
1,3-dichlorobenzene	DETSC 3432	2	ug/l	< 2	< 2
1,4-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
n-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dibromo-3-chloropropane	DETSC 3432	1	ug/l	< 1	< 1
1,2,4-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
Hexachlorobutadiene	DETSC 3432	1	ug/l	< 1	< 1
1,2,3-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
MTBE	DETSC 3432*	1	ug/l	< 1	< 1



Summary of Chemical Analysis Water VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Lab No	1671487	1671488
Sample ID	PRAIRIE_AUK_BH104_GW_050520	PRAIRIE_AUK_BH105_GW_050520
Depth		
Other ID	100	100
Sample Type	EW	EW
Sampling Date	05/05/2020	05/05/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
VOCs					
Dichlorodifluoromethane	DETSC 3432	1	ug/l	< 1	< 1
Chloromethane	DETSC 3432	1	ug/l	< 1	< 1
Vinyl Chloride	DETSC 3432	1	ug/l	< 1	< 1
Bromomethane	DETSC 3432	1	ug/l	< 1	< 1
Chloroethane	DETSC 3432	1	ug/l	< 1	< 1
Trichlorofluoromethane	DETSC 3432*	1	ug/l	< 1	< 1
1,1-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
Methylene Chloride	DETSC 3432*	27	ug/l	< 27	< 27
Trans-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
1,1-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Cis-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
2,2-dichloropropane	DETSC 3432	2	ug/l	< 2	< 2
Bromochloromethane	DETSC 3432	4	ug/l	< 4	< 4
Chloroform	DETSC 3432	1	ug/l	< 1	< 1
1,1,1-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1
1,1-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
Carbon tetrachloride	DETSC 3432	1	ug/l	< 1	< 1
Benzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Trichloroethylene	DETSC 3432*	1	ug/l	< 1	< 1
1,2-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1
Dibromomethane	DETSC 3432	1	ug/l	< 1	< 1
Bromodichloromethane	DETSC 3432	4	ug/l	< 4	< 4
cis-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
Toluene	DETSC 3432	1	ug/l	< 1	< 1
trans-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
1,1,2-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Tetrachloroethylene	DETSC 3432	1	ug/l	< 1	< 1
1,3-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1
Dibromochloromethane	DETSC 3432	1	ug/l	< 1	< 1
1,2-dibromoethane	DETSC 3432	1	ug/l	< 1	< 1
Chlorobenzene	DETSC 3432	1	ug/l	< 1	< 1



Summary of Chemical Analysis Water VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Lab No	1671487	1671488
Sample ID	PRAIRIE_AUK_BH104_ GW_050520	PRAIRIE_AUK_BH105_ GW_050520
Depth		
Other ID	100	100
Sample Type	EW	EW
Sampling Date	05/05/2020	05/05/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
1,1,1,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1
Ethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
m+p-Xylene	DETSC 3432	2	ug/l	< 2	< 2
o-Xylene	DETSC 3432	1	ug/l	< 1	< 1
Styrene	DETSC 3432	1	ug/l	< 1	< 1
Bromoform	DETSC 3432	1	ug/l	< 1	< 1
Isopropylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,1,2,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1
Bromobenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2,3-trichloropropane	DETSC 3432	1	ug/l	< 1	< 1
n-propylbenzene	DETSC 3432	1	ug/l	< 1	< 1
2-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1
1,3,5-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
4-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1
Tert-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2,4-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
sec-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
p-isopropyltoluene	DETSC 3432	1	ug/l	< 1	< 1
1,3-dichlorobenzene	DETSC 3432	2	ug/l	< 2	< 2
1,4-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
n-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dibromo-3-chloropropane	DETSC 3432	1	ug/l	< 1	< 1
1,2,4-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
Hexachlorobutadiene	DETSC 3432	1	ug/l	< 1	< 1
1,2,3-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
MTBE	DETSC 3432*	1	ug/l	< 1	< 1



Summary of Chemical Analysis Water VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Lab No	1671489	1671490
Sample ID	PRAIRIE_AUK_BH107_ GW_050520	PRAIRIE_AUK_BH109_ GW_050520
Depth		
Other ID	100	100
Sample Type	EW	EW
Sampling Date	05/05/2020	05/05/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
VOCs					
Dichlorodifluoromethane	DETSC 3432	1	ug/l	< 1	< 1
Chloromethane	DETSC 3432	1	ug/l	< 1	< 1
Vinyl Chloride	DETSC 3432	1	ug/l	< 1	< 1
Bromomethane	DETSC 3432	1	ug/l	< 1	< 1
Chloroethane	DETSC 3432	1	ug/l	< 1	< 1
Trichlorofluoromethane	DETSC 3432*	1	ug/l	< 1	< 1
1,1-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
Methylene Chloride	DETSC 3432*	27	ug/l	< 27	< 27
Trans-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
1,1-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Cis-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
2,2-dichloropropane	DETSC 3432	2	ug/l	< 2	< 2
Bromochloromethane	DETSC 3432	4	ug/l	< 4	< 4
Chloroform	DETSC 3432	1	ug/l	< 1	< 1
1,1,1-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1
1,1-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
Carbon tetrachloride	DETSC 3432	1	ug/l	< 1	< 1
Benzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dichloroethane	DETSC 3432	1	ug/l	< 1	7
Trichloroethylene	DETSC 3432*	1	ug/l	< 1	< 1
1,2-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1
Dibromomethane	DETSC 3432	1	ug/l	< 1	< 1
Bromodichloromethane	DETSC 3432	4	ug/l	< 4	< 4
cis-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
Toluene	DETSC 3432	1	ug/l	< 1	48
trans-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
1,1,2-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Tetrachloroethylene	DETSC 3432	1	ug/l	< 1	< 1
1,3-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1
Dibromochloromethane	DETSC 3432	1	ug/l	< 1	< 1
1,2-dibromoethane	DETSC 3432	1	ug/l	< 1	< 1
Chlorobenzene	DETSC 3432	1	ug/l	< 1	< 1



Summary of Chemical Analysis Water VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

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Contract Title Prairie Site Ground Investigation Works

Lab No	1671489	1671490
Sample ID	PRAIRIE_AUK_BH107_ GW_050520	PRAIRIE_AUK_BH109_ GW_050520
Depth		
Other ID	100	100
Sample Type	EW	EW
Sampling Date	05/05/2020	05/05/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
1,1,1,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1
Ethylbenzene	DETSC 3432	1	ug/l	< 1	11
m+p-Xylene	DETSC 3432	2	ug/l	< 2	77
o-Xylene	DETSC 3432	1	ug/l	< 1	30
Styrene	DETSC 3432	1	ug/l	< 1	4
Bromoform	DETSC 3432	1	ug/l	< 1	< 1
Isopropylbenzene	DETSC 3432	1	ug/l	< 1	1
1,1,2,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1
Bromobenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2,3-trichloropropane	DETSC 3432	1	ug/l	< 1	< 1
n-propylbenzene	DETSC 3432	1	ug/l	< 1	< 1
2-chlorotoluene	DETSC 3432	1	ug/l	< 1	2
1,3,5-trimethylbenzene	DETSC 3432	1	ug/l	< 1	14
4-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1
Tert-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2,4-trimethylbenzene	DETSC 3432	1	ug/l	< 1	34
sec-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
p-isopropyltoluene	DETSC 3432	1	ug/l	< 1	< 1
1,3-dichlorobenzene	DETSC 3432	2	ug/l	< 2	< 2
1,4-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
n-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dibromo-3-chloropropane	DETSC 3432	1	ug/l	< 1	< 1
1,2,4-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
Hexachlorobutadiene	DETSC 3432	1	ug/l	< 1	< 1
1,2,3-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
MTBE	DETSC 3432*	1	ug/l	< 1	< 1



Summary of Chemical Analysis

Water VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

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Contract Title Prairie Site Ground Investigation Works

Lab No	1671899	1671900
Sample ID	PRAIRIE_AUK_BH101S _GW_060520	PRAIRIE_AUK_BH101D _GW_060520
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		
VOCs					
Dichlorodifluoromethane	DETSC 3432	1	ug/l	< 1	< 1
Chloromethane	DETSC 3432	1	ug/l	< 1	< 1
Vinyl Chloride	DETSC 3432	1	ug/l	< 1	< 1
Bromomethane	DETSC 3432	1	ug/l	< 1	< 1
Chloroethane	DETSC 3432	1	ug/l	< 1	< 1
Trichlorofluoromethane	DETSC 3432*	1	ug/l	< 1	< 1
1,1-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
Methylene Chloride	DETSC 3432*	27	ug/l	< 27	< 27
Trans-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
1,1-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Cis-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
2,2-dichloropropane	DETSC 3432	2	ug/l	< 2	< 2
Bromochloromethane	DETSC 3432	4	ug/l	< 4	< 4
Chloroform	DETSC 3432	1	ug/l	< 1	< 1
1,1,1-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1
1,1-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
Carbon tetrachloride	DETSC 3432	1	ug/l	< 1	< 1
Benzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Trichloroethylene	DETSC 3432*	1	ug/l	< 1	< 1
1,2-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1
Dibromomethane	DETSC 3432	1	ug/l	< 1	< 1
Bromodichloromethane	DETSC 3432	4	ug/l	< 4	< 4
cis-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
Toluene	DETSC 3432	1	ug/l	< 1	< 1
trans-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
1,1,2-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Tetrachloroethylene	DETSC 3432	1	ug/l	< 1	< 1
1,3-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1
Dibromochloromethane	DETSC 3432	1	ug/l	< 1	< 1
1,2-dibromoethane	DETSC 3432	1	ug/l	< 1	< 1
Chlorobenzene	DETSC 3432	1	ug/l	< 1	< 1



Summary of Chemical Analysis Water VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Contract Title Prairie Site Ground Investigation Works

Lab No	1671899	1671900
Sample ID	PRAIRIE_AUK_BH101S _GW_060520	PRAIRIE_AUK_BH101D _GW_060520
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		
1,1,1,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1
Ethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
m+p-Xylene	DETSC 3432	2	ug/l	< 2	< 2
o-Xylene	DETSC 3432	1	ug/l	< 1	< 1
Styrene	DETSC 3432	1	ug/l	< 1	< 1
Bromoform	DETSC 3432	1	ug/l	< 1	< 1
Isopropylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,1,2,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1
Bromobenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2,3-trichloropropane	DETSC 3432	1	ug/l	< 1	< 1
n-propylbenzene	DETSC 3432	1	ug/l	< 1	< 1
2-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1
1,3,5-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
4-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1
Tert-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2,4-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
sec-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
p-isopropyltoluene	DETSC 3432	1	ug/l	< 1	< 1
1,3-dichlorobenzene	DETSC 3432	2	ug/l	< 2	< 2
1,4-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
n-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dibromo-3-chloropropane	DETSC 3432	1	ug/l	64	< 1
1,2,4-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
Hexachlorobutadiene	DETSC 3432	1	ug/l	< 1	< 1
1,2,3-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
MTBE	DETSC 3432*	1	ug/l	< 1	< 1



Summary of Chemical Analysis Water VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

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Contract Title Prairie Site Ground Investigation Works

Lab No	1671901	1671902
Sample ID	PRAIRIE_AUK_BH106_ GW_060520	PRAIRIE_AUK_BH108S _GW_060520
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		
VOCS					
Dichlorodifluoromethane	DETSC 3432	1	ug/l	< 1	< 1
Chloromethane	DETSC 3432	1	ug/l	< 1	< 1
Vinyl Chloride	DETSC 3432	1	ug/l	< 1	< 1
Bromomethane	DETSC 3432	1	ug/l	< 1	< 1
Chloroethane	DETSC 3432	1	ug/l	< 1	< 1
Trichlorofluoromethane	DETSC 3432*	1	ug/l	< 1	< 1
1,1-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
Methylene Chloride	DETSC 3432*	27	ug/l	< 27	< 27
Trans-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
1,1-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Cis-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
2,2-dichloropropane	DETSC 3432	2	ug/l	< 2	< 2
Bromochloromethane	DETSC 3432	4	ug/l	< 4	< 4
Chloroform	DETSC 3432	1	ug/l	< 1	< 1
1,1,1-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1
1,1-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
Carbon tetrachloride	DETSC 3432	1	ug/l	< 1	< 1
Benzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Trichloroethylene	DETSC 3432*	1	ug/l	< 1	< 1
1,2-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1
Dibromomethane	DETSC 3432	1	ug/l	< 1	< 1
Bromodichloromethane	DETSC 3432	4	ug/l	< 4	< 4
cis-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
Toluene	DETSC 3432	1	ug/l	< 1	< 1
trans-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
1,1,2-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Tetrachloroethylene	DETSC 3432	1	ug/l	< 1	< 1
1,3-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1
Dibromochloromethane	DETSC 3432	1	ug/l	< 1	< 1
1,2-dibromoethane	DETSC 3432	1	ug/l	< 1	< 1
Chlorobenzene	DETSC 3432	1	ug/l	< 1	< 1



Summary of Chemical Analysis Water VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Contract Title Prairie Site Ground Investigation Works

Lab No	1671901	1671902
Sample ID	PRAIRIE_AUK_BH106_ GW_060520	PRAIRIE_AUK_BH108S _GW_060520
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		
1,1,1,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1
Ethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
m+p-Xylene	DETSC 3432	2	ug/l	< 2	< 2
o-Xylene	DETSC 3432	1	ug/l	< 1	< 1
Styrene	DETSC 3432	1	ug/l	< 1	< 1
Bromoform	DETSC 3432	1	ug/l	< 1	< 1
Isopropylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,1,2,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1
Bromobenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2,3-trichloropropane	DETSC 3432	1	ug/l	< 1	< 1
n-propylbenzene	DETSC 3432	1	ug/l	< 1	< 1
2-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1
1,3,5-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
4-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1
Tert-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2,4-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
sec-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
p-isopropyltoluene	DETSC 3432	1	ug/l	< 1	< 1
1,3-dichlorobenzene	DETSC 3432	2	ug/l	< 2	< 2
1,4-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
n-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dibromo-3-chloropropane	DETSC 3432	1	ug/l	< 1	< 1
1,2,4-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
Hexachlorobutadiene	DETSC 3432	1	ug/l	< 1	< 1
1,2,3-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
MTBE	DETSC 3432*	1	ug/l	< 1	< 1



Summary of Chemical Analysis

Water VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Lab No	1671903	1671904
Sample ID	PRAIRIE_AUK_BH108D _GW_060520	PRAIRIE_AUK_BH110_ GW_060520
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		
VOCS					
Dichlorodifluoromethane	DETSC 3432	1	ug/l	< 1	< 1
Chloromethane	DETSC 3432	1	ug/l	< 1	< 1
Vinyl Chloride	DETSC 3432	1	ug/l	< 1	< 1
Bromomethane	DETSC 3432	1	ug/l	< 1	< 1
Chloroethane	DETSC 3432	1	ug/l	< 1	< 1
Trichlorofluoromethane	DETSC 3432*	1	ug/l	< 1	< 1
1,1-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
Methylene Chloride	DETSC 3432*	27	ug/l	< 27	< 27
Trans-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
1,1-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Cis-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
2,2-dichloropropane	DETSC 3432	2	ug/l	< 2	< 2
Bromochloromethane	DETSC 3432	4	ug/l	< 4	< 4
Chloroform	DETSC 3432	1	ug/l	< 1	< 1
1,1,1-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1
1,1-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
Carbon tetrachloride	DETSC 3432	1	ug/l	< 1	< 1
Benzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Trichloroethylene	DETSC 3432*	1	ug/l	< 1	< 1
1,2-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1
Dibromomethane	DETSC 3432	1	ug/l	< 1	< 1
Bromodichloromethane	DETSC 3432	4	ug/l	< 4	< 4
cis-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
Toluene	DETSC 3432	1	ug/l	< 1	< 1
trans-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
1,1,2-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Tetrachloroethylene	DETSC 3432	1	ug/l	< 1	< 1
1,3-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1
Dibromochloromethane	DETSC 3432	1	ug/l	< 1	< 1
1,2-dibromoethane	DETSC 3432	1	ug/l	< 1	< 1
Chlorobenzene	DETSC 3432	1	ug/l	< 1	< 1



Summary of Chemical Analysis Water VOC/SVOC Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Lab No	1671903	1671904
Sample ID	PRAIRIE_AUK_BH108D _GW_060520	PRAIRIE_AUK_BH110_ GW_060520
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		
1,1,1,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1
Ethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
m+p-Xylene	DETSC 3432	2	ug/l	< 2	< 2
o-Xylene	DETSC 3432	1	ug/l	< 1	< 1
Styrene	DETSC 3432	1	ug/l	< 1	< 1
Bromoform	DETSC 3432	1	ug/l	< 1	< 1
Isopropylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,1,2,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1
Bromobenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2,3-trichloropropane	DETSC 3432	1	ug/l	< 1	< 1
n-propylbenzene	DETSC 3432	1	ug/l	< 1	< 1
2-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1
1,3,5-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
4-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1
Tert-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2,4-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
sec-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
p-isopropyltoluene	DETSC 3432	1	ug/l	< 1	< 1
1,3-dichlorobenzene	DETSC 3432	2	ug/l	< 2	< 2
1,4-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
n-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dibromo-3-chloropropane	DETSC 3432	1	ug/l	< 1	< 1
1,2,4-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
Hexachlorobutadiene	DETSC 3432	1	ug/l	< 1	< 1
1,2,3-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
MTBE	DETSC 3432*	1	ug/l	< 1	< 1

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Contract Title Prairie Site Ground Investigation Works

Lab No	1665143
Sample ID	PRAIRIE_AUK_TP175_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Preparation				
BS EN 12457 10:1	DETSC 1009*			Y
Leachate 2:1 250g Non-WAC	DETSC 1009*			
Metals				
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.32
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	0.88
Barium, Dissolved	DETSC 2306	0.26	ug/l	7.9
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	47
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	0.42
Chromium, Total	DETSC 2306*	0.25	ug/l	
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.0
Iron, Dissolved	DETSC 2306	5.5	ug/l	21
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.45
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	2.1
Manganese, Dissolved	DETSC 2306	0.22	ug/l	52
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.02
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	2.5
Nickel, Dissolved	DETSC 2306	0.5	ug/l	< 0.5
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	0.6
Zinc, Dissolved	DETSC 2306	1.3	ug/l	1.6
Inorganics				
pH	DETSC 2008		pH	8.2
Cyanide, Total	DETSC 2130	40	ug/l	< 40
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	1.6
Chloride	DETSC 2055	0.1	mg/l	6.5
Sulphate as SO4	DETSC 2055	0.1	mg/l	11



Summary of Chemical Analysis

Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665143
Sample ID	PRAIRIE_AUK_TP175_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	110
Aromatic C16-C21	DETSC 3072*	1	ug/l	22
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	130
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	130
EPH (C10-C40)	DETSC 3311	10	ug/l	9300

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665143
Sample ID	PRAIRIE_AUK_TP175_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	890
Acenaphthylene	DETSC 3304	0.01	ug/l	86
Acenaphthene	DETSC 3304	0.01	ug/l	910
Fluorene	DETSC 3304	0.01	ug/l	380
Phenanthrene	DETSC 3304	0.01	ug/l	360
Anthracene	DETSC 3304	0.01	ug/l	57
Fluoranthene	DETSC 3304	0.01	ug/l	66
Pyrene	DETSC 3304	0.01	ug/l	41
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	24
Chrysene	DETSC 3304	0.01	ug/l	20
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	27
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	9.7
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	19
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	15
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	3.0
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	9.5
PAH Total	DETSC 3304	0.2	ug/l	2900
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665582
Sample ID	PRAIRIE_AUK_TP108_SO_0200
Depth	2.00
Other ID	8
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Preparation				
BS EN 12457 10:1	DETSC 1009*			
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y
Metals				
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.55
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	2.8
Barium, Dissolved	DETSC 2306	0.26	ug/l	27
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	75
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	43
Chromium, Total	DETSC 2306*	0.25	ug/l	
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	2.0
Iron, Dissolved	DETSC 2306	5.5	ug/l	< 5.5
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.09
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	0.72
Manganese, Dissolved	DETSC 2306	0.22	ug/l	1.8
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	7.3
Nickel, Dissolved	DETSC 2306	0.5	ug/l	3.9
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	22
Zinc, Dissolved	DETSC 2306	1.3	ug/l	< 1.3
Inorganics				
pH	DETSC 2008		pH	10.4
Cyanide, Total	DETSC 2130	40	ug/l	< 40
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	< 0.015
Chloride	DETSC 2055	0.1	mg/l	10
Sulphate as SO4	DETSC 2055	0.1	mg/l	72



Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665582
Sample ID	PRAIRIE_AUK_TP108_SO_0200
Depth	2.00
Other ID	8
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	10
Aromatic C12-C16	DETSC 3072*	1	ug/l	260
Aromatic C16-C21	DETSC 3072*	1	ug/l	65
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	340
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	340
EPH (C10-C40)	DETSC 3311	10	ug/l	66

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665582
Sample ID	PRAIRIE_AUK_TP108_SO_0200
Depth	2.00
Other ID	8
Sample Type	ES
Sampling Date	06/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	0.17
Acenaphthylene	DETSC 3304	0.01	ug/l	0.11
Acenaphthene	DETSC 3304	0.01	ug/l	0.12
Fluorene	DETSC 3304	0.01	ug/l	0.06
Phenanthrene	DETSC 3304	0.01	ug/l	0.13
Anthracene	DETSC 3304	0.01	ug/l	0.09
Fluoranthene	DETSC 3304	0.01	ug/l	0.40
Pyrene	DETSC 3304	0.01	ug/l	0.35
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.24
Chrysene	DETSC 3304	0.01	ug/l	0.31
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.65
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	0.23
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	0.36
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	0.33
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	0.05
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	0.27
PAH Total	DETSC 3304	0.2	ug/l	3.9
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665595
Sample ID	PRAIRIE_AUK_TP114_SO_0090
Depth	0.90
Other ID	6
Sample Type	ES
Sampling Date	07/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Preparation				
BS EN 12457 10:1	DETSC 1009*			
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y
Metals				
Antimony, Dissolved	DETSC 2306	0.17	ug/l	2.9
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	5.7
Barium, Dissolved	DETSC 2306	0.26	ug/l	2.3
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	63
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25
Chromium, Total	DETSC 2306*	0.25	ug/l	
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.2
Iron, Dissolved	DETSC 2306	5.5	ug/l	52
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.85
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	0.34
Manganese, Dissolved	DETSC 2306	0.22	ug/l	10
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	5.2
Nickel, Dissolved	DETSC 2306	0.5	ug/l	0.6
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	21
Zinc, Dissolved	DETSC 2306	1.3	ug/l	2.3
Inorganics				
pH	DETSC 2008		pH	8.5
Cyanide, Total	DETSC 2130	40	ug/l	< 40
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.029
Chloride	DETSC 2055	0.1	mg/l	6.5
Sulphate as SO4	DETSC 2055	0.1	mg/l	6.7



Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665595
Sample ID	PRAIRIE_AUK_TP114_SO_0090
Depth	0.90
Other ID	6
Sample Type	ES
Sampling Date	07/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 10.0
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 10.0
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 10.0
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	30
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 10.0
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 10.0
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 10.0
Aromatic C10-C12	DETSC 3072*	1	ug/l	3000
Aromatic C12-C16	DETSC 3072*	1	ug/l	410
Aromatic C16-C21	DETSC 3072*	1	ug/l	180
Aromatic C21-C35	DETSC 3072*	1	ug/l	51
Aromatic C5-C35	DETSC 3072*	10	ug/l	3700
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	3700
EPH (C10-C40)	DETSC 3311	10	ug/l	

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665595
Sample ID	PRAIRIE_AUK_TP114_SO_0090
Depth	0.90
Other ID	6
Sample Type	ES
Sampling Date	07/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	10000
Acenaphthylene	DETSC 3304	0.01	ug/l	390
Acenaphthene	DETSC 3304	0.01	ug/l	30
Fluorene	DETSC 3304	0.01	ug/l	88
Phenanthrene	DETSC 3304	0.01	ug/l	200
Anthracene	DETSC 3304	0.01	ug/l	32
Fluoranthene	DETSC 3304	0.01	ug/l	45
Pyrene	DETSC 3304	0.01	ug/l	34
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	9.6
Chrysene	DETSC 3304	0.01	ug/l	8.8
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	12
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	4.6
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	8.6
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	5.7
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 1.00
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	5.6
PAH Total	DETSC 3304	0.2	ug/l	11000
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	2600

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665614
Sample ID	PRAIRIE_AUK_TP179_SO_0140
Depth	1.40
Other ID	4
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Preparation				
BS EN 12457 10:1	DETSC 1009*			
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y
Metals				
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.18
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	1.9
Barium, Dissolved	DETSC 2306	0.26	ug/l	70
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	91
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25
Chromium, Total	DETSC 2306*	0.25	ug/l	
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.0
Iron, Dissolved	DETSC 2306	5.5	ug/l	80
Lead, Dissolved	DETSC 2306	0.09	ug/l	< 0.09
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	14
Manganese, Dissolved	DETSC 2306	0.22	ug/l	890
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	2.0
Nickel, Dissolved	DETSC 2306	0.5	ug/l	2.6
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	0.6
Zinc, Dissolved	DETSC 2306	1.3	ug/l	5.3
Inorganics				
pH	DETSC 2008		pH	7.1
Cyanide, Total	DETSC 2130	40	ug/l	67
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.20
Chloride	DETSC 2055	0.1	mg/l	4.5
Sulphate as SO4	DETSC 2055	0.1	mg/l	37



Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665614
Sample ID	PRAIRIE_AUK_TP179_SO_0140
Depth	1.40
Other ID	4
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 1.0
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 1.0
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 1.0
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 1.0
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 1.0
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 1.0
Aromatic C10-C12	DETSC 3072*	1	ug/l	480
Aromatic C12-C16	DETSC 3072*	1	ug/l	370
Aromatic C16-C21	DETSC 3072*	1	ug/l	18
Aromatic C21-C35	DETSC 3072*	1	ug/l	13
Aromatic C5-C35	DETSC 3072*	10	ug/l	880
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	880
EPH (C10-C40)	DETSC 3311	10	ug/l	



Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665614
Sample ID	PRAIRIE_AUK_TP179_SO_0140
Depth	1.40
Other ID	4
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	2300
Acenaphthylene	DETSC 3304	0.01	ug/l	32
Acenaphthene	DETSC 3304	0.01	ug/l	490
Fluorene	DETSC 3304	0.01	ug/l	78
Phenanthrene	DETSC 3304	0.01	ug/l	16
Anthracene	DETSC 3304	0.01	ug/l	1.2
Fluoranthene	DETSC 3304	0.01	ug/l	1.2
Pyrene	DETSC 3304	0.01	ug/l	< 1.00
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	< 1.00
Chrysene	DETSC 3304	0.01	ug/l	< 1.00
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	< 1.00
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	< 1.00
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	< 1.00
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	< 1.00
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 1.00
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	< 1.00
PAH Total	DETSC 3304	0.2	ug/l	2900
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

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Contract Title Prairie Site Ground Investigation Works

Lab No	1665615
Sample ID	PRAIRIE_AUK_TP179_SO_0200
Depth	2.00
Other ID	7
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Preparation				
BS EN 12457 10:1	DETSC 1009*			
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y
Metals				
Antimony, Dissolved	DETSC 2306	0.17	ug/l	< 0.17
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	0.89
Barium, Dissolved	DETSC 2306	0.26	ug/l	6.0
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	100
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	0.79
Chromium, Total	DETSC 2306*	0.25	ug/l	
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	2.7
Iron, Dissolved	DETSC 2306	5.5	ug/l	1700
Lead, Dissolved	DETSC 2306	0.09	ug/l	1.2
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	1.9
Manganese, Dissolved	DETSC 2306	0.22	ug/l	28
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	1.3
Nickel, Dissolved	DETSC 2306	0.5	ug/l	1.1
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	1.3
Zinc, Dissolved	DETSC 2306	1.3	ug/l	3.3
Inorganics				
pH	DETSC 2008		pH	7.5
Cyanide, Total	DETSC 2130	40	ug/l	41
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	1.2
Chloride	DETSC 2055	0.1	mg/l	2.1
Sulphate as SO4	DETSC 2055	0.1	mg/l	180



Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665615
Sample ID	PRAIRIE_AUK_TP179_SO_0200
Depth	2.00
Other ID	7
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	< 10
EPH (C10-C40)	DETSC 3311	10	ug/l	

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

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Contract Title Prairie Site Ground Investigation Works

Lab No	1665615
Sample ID	PRAIRIE_AUK_TP179_SO_0200
Depth	2.00
Other ID	7
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	50
Acenaphthylene	DETSC 3304	0.01	ug/l	3.4
Acenaphthene	DETSC 3304	0.01	ug/l	47
Fluorene	DETSC 3304	0.01	ug/l	7.5
Phenanthrene	DETSC 3304	0.01	ug/l	2.1
Anthracene	DETSC 3304	0.01	ug/l	0.51
Fluoranthene	DETSC 3304	0.01	ug/l	0.41
Pyrene	DETSC 3304	0.01	ug/l	0.25
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	< 0.10
Chrysene	DETSC 3304	0.01	ug/l	< 0.10
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	< 0.10
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	< 0.10
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	< 0.10
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	< 0.10
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 0.10
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	< 0.10
PAH Total	DETSC 3304	0.2	ug/l	110
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

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Contract Title Prairie Site Ground Investigation Works

Lab No	1665616
Sample ID	PRAIRIE_AUK_TP181_SO_0060
Depth	0.60
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Preparation				
BS EN 12457 10:1	DETSC 1009*			
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y
Metals				
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.47
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	4.2
Barium, Dissolved	DETSC 2306	0.26	ug/l	5.6
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	21
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	0.93
Chromium, Total	DETSC 2306*	0.25	ug/l	
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	5.6
Iron, Dissolved	DETSC 2306	5.5	ug/l	94
Lead, Dissolved	DETSC 2306	0.09	ug/l	4.2
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	1.7
Manganese, Dissolved	DETSC 2306	0.22	ug/l	6.2
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	1.2
Nickel, Dissolved	DETSC 2306	0.5	ug/l	0.5
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	2.4
Zinc, Dissolved	DETSC 2306	1.3	ug/l	2.0
Inorganics				
pH	DETSC 2008		pH	8.3
Cyanide, Total	DETSC 2130	40	ug/l	46
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.022
Chloride	DETSC 2055	0.1	mg/l	5.7
Sulphate as SO4	DETSC 2055	0.1	mg/l	27



Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

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Contract Title Prairie Site Ground Investigation Works

Lab No	1665616
Sample ID	PRAIRIE_AUK_TP181_SO_0060
Depth	0.60
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	< 10
EPH (C10-C40)	DETSC 3311	10	ug/l	



Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

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Contract Title Prairie Site Ground Investigation Works

Lab No	1665616
Sample ID	PRAIRIE_AUK_TP181_SO_0060
Depth	0.60
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	1.7
Acenaphthylene	DETSC 3304	0.01	ug/l	9.0
Acenaphthene	DETSC 3304	0.01	ug/l	3.3
Fluorene	DETSC 3304	0.01	ug/l	1.9
Phenanthrene	DETSC 3304	0.01	ug/l	4.2
Anthracene	DETSC 3304	0.01	ug/l	3.3
Fluoranthene	DETSC 3304	0.01	ug/l	4.3
Pyrene	DETSC 3304	0.01	ug/l	4.4
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	2.1
Chrysene	DETSC 3304	0.01	ug/l	3.9
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	8.1
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	2.8
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	4.4
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	7.1
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	1.7
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	8.0
PAH Total	DETSC 3304	0.2	ug/l	70
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100

Summary of Chemical Analysis

Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Contract Title Prairie Site Ground Investigation Works

Lab No	1665617
Sample ID	PRAIRIE_AUK_TP182_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Preparation				
BS EN 12457 10:1	DETSC 1009*			
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y
Metals				
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.33
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	3.6
Barium, Dissolved	DETSC 2306	0.26	ug/l	6.5
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	73
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	0.57
Chromium, Total	DETSC 2306*	0.25	ug/l	
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	< 0.4
Iron, Dissolved	DETSC 2306	5.5	ug/l	480
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.09
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	3.3
Manganese, Dissolved	DETSC 2306	0.22	ug/l	86
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	2.7
Nickel, Dissolved	DETSC 2306	0.5	ug/l	2.5
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	< 0.6
Zinc, Dissolved	DETSC 2306	1.3	ug/l	< 1.3
Inorganics				
pH	DETSC 2008		pH	7.6
Cyanide, Total	DETSC 2130	40	ug/l	1100
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.071
Chloride	DETSC 2055	0.1	mg/l	3.0
Sulphate as SO4	DETSC 2055	0.1	mg/l	18

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

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Contract Title Prairie Site Ground Investigation Works

Lab No	1665617
Sample ID	PRAIRIE_AUK_TP182_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 1.0
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 1.0
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	820
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	820
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 1.0
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 1.0
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 1.0
Aromatic C10-C12	DETSC 3072*	1	ug/l	3400
Aromatic C12-C16	DETSC 3072*	1	ug/l	3500
Aromatic C16-C21	DETSC 3072*	1	ug/l	610
Aromatic C21-C35	DETSC 3072*	1	ug/l	180
Aromatic C5-C35	DETSC 3072*	10	ug/l	7700
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	8500
EPH (C10-C40)	DETSC 3311	10	ug/l	

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665617
Sample ID	PRAIRIE_AUK_TP182_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	09/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	11000
Acenaphthylene	DETSC 3304	0.01	ug/l	190
Acenaphthene	DETSC 3304	0.01	ug/l	1100
Fluorene	DETSC 3304	0.01	ug/l	290
Phenanthrene	DETSC 3304	0.01	ug/l	170
Anthracene	DETSC 3304	0.01	ug/l	35
Fluoranthene	DETSC 3304	0.01	ug/l	24
Pyrene	DETSC 3304	0.01	ug/l	14
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	2.8
Chrysene	DETSC 3304	0.01	ug/l	3.1
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	2.4
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	1.1
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	1.3
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	< 1.00
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 1.00
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	< 1.00
PAH Total	DETSC 3304	0.2	ug/l	13000
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100

Summary of Chemical Analysis

Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665996
Sample ID	PRAIRIE_AUK_TP145_SO_0160
Depth	1.60
Other ID	4
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Preparation				
BS EN 12457 10:1	DETSC 1009*			
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y
Metals				
Antimony, Dissolved	DETSC 2306	0.17	ug/l	2.2
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	3.9
Barium, Dissolved	DETSC 2306	0.26	ug/l	26
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	170
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	1.1
Chromium, Total	DETSC 2306*	0.25	ug/l	
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	4.2
Iron, Dissolved	DETSC 2306	5.5	ug/l	50
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.26
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	4.6
Manganese, Dissolved	DETSC 2306	0.22	ug/l	7.6
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.02
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	7.9
Nickel, Dissolved	DETSC 2306	0.5	ug/l	0.7
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	26
Zinc, Dissolved	DETSC 2306	1.3	ug/l	< 1.3
Inorganics				
pH	DETSC 2008		pH	8.7
Cyanide, Total	DETSC 2130	40	ug/l	< 40
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	< 0.015
Chloride	DETSC 2055	0.1	mg/l	3.0
Sulphate as SO4	DETSC 2055	0.1	mg/l	55



Summary of Chemical Analysis

Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665996
Sample ID	PRAIRIE_AUK_TP145_SO_0160
Depth	1.60
Other ID	4
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	< 10
EPH (C10-C40)	DETSC 3311	10	ug/l	

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

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Contract Title Prairie Site Ground Investigation Works

Lab No	1665996
Sample ID	PRAIRIE_AUK_TP145_SO_0160
Depth	1.60
Other ID	4
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	0.78
Acenaphthylene	DETSC 3304	0.01	ug/l	0.16
Acenaphthene	DETSC 3304	0.01	ug/l	0.40
Fluorene	DETSC 3304	0.01	ug/l	0.26
Phenanthrene	DETSC 3304	0.01	ug/l	0.95
Anthracene	DETSC 3304	0.01	ug/l	0.31
Fluoranthene	DETSC 3304	0.01	ug/l	2.2
Pyrene	DETSC 3304	0.01	ug/l	2.0
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.94
Chrysene	DETSC 3304	0.01	ug/l	1.8
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	3.7
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	1.3
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	2.2
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	2.2
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	0.33
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	2.9
PAH Total	DETSC 3304	0.2	ug/l	22
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665997
Sample ID	PRAIRIE_AUK_TP163_SO_0120
Depth	1.20
Other ID	3
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Preparation				
BS EN 12457 10:1	DETSC 1009*			
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y
Metals				
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.33
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	1.6
Barium, Dissolved	DETSC 2306	0.26	ug/l	32
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	50
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25
Chromium, Total	DETSC 2306*	0.25	ug/l	
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	0.6
Iron, Dissolved	DETSC 2306	5.5	ug/l	860
Lead, Dissolved	DETSC 2306	0.09	ug/l	< 0.09
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	4.5
Manganese, Dissolved	DETSC 2306	0.22	ug/l	400
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	1.5
Nickel, Dissolved	DETSC 2306	0.5	ug/l	2.1
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	< 0.6
Zinc, Dissolved	DETSC 2306	1.3	ug/l	2.8
Inorganics				
pH	DETSC 2008		pH	8.1
Cyanide, Total	DETSC 2130	40	ug/l	2200
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	< 0.015
Chloride	DETSC 2055	0.1	mg/l	2.6
Sulphate as SO4	DETSC 2055	0.1	mg/l	64



Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

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Contract Title Prairie Site Ground Investigation Works

Lab No	1665997
Sample ID	PRAIRIE_AUK_TP163_SO_0120
Depth	1.20
Other ID	3
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	< 10
EPH (C10-C40)	DETSC 3311	10	ug/l	

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

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Contract Title Prairie Site Ground Investigation Works

Lab No	1665997
Sample ID	PRAIRIE_AUK_TP163_SO_0120
Depth	1.20
Other ID	3
Sample Type	ES
Sampling Date	14/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	3.2
Acenaphthylene	DETSC 3304	0.01	ug/l	30
Acenaphthene	DETSC 3304	0.01	ug/l	650
Fluorene	DETSC 3304	0.01	ug/l	120
Phenanthrene	DETSC 3304	0.01	ug/l	5.7
Anthracene	DETSC 3304	0.01	ug/l	11
Fluoranthene	DETSC 3304	0.01	ug/l	11
Pyrene	DETSC 3304	0.01	ug/l	6.7
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	1.4
Chrysene	DETSC 3304	0.01	ug/l	1.5
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	1.6
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	< 1.00
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	< 1.00
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	< 1.00
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 1.00
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	< 1.00
PAH Total	DETSC 3304	0.2	ug/l	840
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666349
Sample ID	PRAIRIE_AUK_TP136_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Preparation				
BS EN 12457 10:1	DETSC 1009*			
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y
Metals				
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.25
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	1.0
Barium, Dissolved	DETSC 2306	0.26	ug/l	2.8
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	< 12
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25
Chromium, Total	DETSC 2306*	0.25	ug/l	
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.4
Iron, Dissolved	DETSC 2306	5.5	ug/l	14
Lead, Dissolved	DETSC 2306	0.09	ug/l	< 0.09
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	0.21
Manganese, Dissolved	DETSC 2306	0.22	ug/l	0.85
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	< 1.1
Nickel, Dissolved	DETSC 2306	0.5	ug/l	0.7
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	5.4
Zinc, Dissolved	DETSC 2306	1.3	ug/l	< 1.3
Inorganics				
pH	DETSC 2008		pH	10.4
Cyanide, Total	DETSC 2130	40	ug/l	< 40
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	< 0.015
Chloride	DETSC 2055	0.1	mg/l	1.8
Sulphate as SO4	DETSC 2055	0.1	mg/l	18



Summary of Chemical Analysis Leachate Samples

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-
08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666349
Sample ID	PRAIRIE_AUK_TP136_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	13
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	87
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	100
Aromatic C5-C7	DETSC 3322	0.1	ug/l	6.6
Aromatic C7-C8	DETSC 3322	0.1	ug/l	6.7
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	13
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	110
EPH (C10-C40)	DETSC 3311	10	ug/l	

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Contract Title Prairie Site Ground Investigation Works

Lab No	1666349
Sample ID	PRAIRIE_AUK_TP136_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	15/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	0.07
Acenaphthylene	DETSC 3304	0.01	ug/l	0.14
Acenaphthene	DETSC 3304	0.01	ug/l	0.21
Fluorene	DETSC 3304	0.01	ug/l	0.09
Phenanthrene	DETSC 3304	0.01	ug/l	0.17
Anthracene	DETSC 3304	0.01	ug/l	0.14
Fluoranthene	DETSC 3304	0.01	ug/l	2.7
Pyrene	DETSC 3304	0.01	ug/l	2.6
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	1.3
Chrysene	DETSC 3304	0.01	ug/l	2.2
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	2.8
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	0.99
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	1.7
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	1.6
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	0.32
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	1.5
PAH Total	DETSC 3304	0.2	ug/l	18
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100

Summary of Chemical Analysis

Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

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Contract Title Prairie Site Ground Investigation Works

Lab No	1667239
Sample ID	PRAIRIE_AUK_TP128_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Preparation				
BS EN 12457 10:1	DETSC 1009*			
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y
Metals				
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.58
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	5.9
Barium, Dissolved	DETSC 2306	0.26	ug/l	61
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	76
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25
Chromium, Total	DETSC 2306*	0.25	ug/l	
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	5.8
Iron, Dissolved	DETSC 2306	5.5	ug/l	160
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.57
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	3.6
Manganese, Dissolved	DETSC 2306	0.22	ug/l	98
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	1.9
Nickel, Dissolved	DETSC 2306	0.5	ug/l	2.5
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	2.2
Zinc, Dissolved	DETSC 2306	1.3	ug/l	7.2
Inorganics				
pH	DETSC 2008		pH	7.3
Cyanide, Total	DETSC 2130	40	ug/l	< 40
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.36
Chloride	DETSC 2055	0.1	mg/l	15
Sulphate as SO4	DETSC 2055	0.1	mg/l	1.7



Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667239
Sample ID	PRAIRIE_AUK_TP128_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	19
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	260
Aliphatic C10-C12	DETSC 3072*	1	ug/l	7.1
Aliphatic C12-C16	DETSC 3072*	1	ug/l	340
Aliphatic C16-C21	DETSC 3072*	1	ug/l	54
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	680
Aromatic C5-C7	DETSC 3322	0.1	ug/l	4.5
Aromatic C7-C8	DETSC 3322	0.1	ug/l	15
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	3100
Aromatic C12-C16	DETSC 3072*	1	ug/l	13000
Aromatic C16-C21	DETSC 3072*	1	ug/l	95
Aromatic C21-C35	DETSC 3072*	1	ug/l	4.2
Aromatic C5-C35	DETSC 3072*	10	ug/l	16000
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	17000
EPH (C10-C40)	DETSC 3311	10	ug/l	



Summary of Chemical Analysis

Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

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Contract Title Prairie Site Ground Investigation Works

Lab No	1667239
Sample ID	PRAIRIE_AUK_TP128_SO_0090
Depth	0.90
Other ID	3
Sample Type	ES
Sampling Date	17/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	230
Acenaphthylene	DETSC 3304	0.01	ug/l	2.6
Acenaphthene	DETSC 3304	0.01	ug/l	160
Fluorene	DETSC 3304	0.01	ug/l	30
Phenanthrene	DETSC 3304	0.01	ug/l	0.75
Anthracene	DETSC 3304	0.01	ug/l	0.20
Fluoranthene	DETSC 3304	0.01	ug/l	0.05
Pyrene	DETSC 3304	0.01	ug/l	0.04
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.02
Chrysene	DETSC 3304	0.01	ug/l	0.04
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.04
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	0.01
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	0.02
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	0.04
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 0.01
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	0.04
PAH Total	DETSC 3304	0.2	ug/l	420
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668136
Sample ID	PRAIRIE_AUK_TP110_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Preparation				
BS EN 12457 10:1	DETSC 1009*			
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y
Metals				
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.70
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	0.47
Barium, Dissolved	DETSC 2306	0.26	ug/l	36
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	15
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25
Chromium, Total	DETSC 2306*	0.25	ug/l	
Chromium, Hexavalent	DETSC 2203	7	ug/l	8.1
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.0
Iron, Dissolved	DETSC 2306	5.5	ug/l	28
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.14
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	1.2
Manganese, Dissolved	DETSC 2306	0.22	ug/l	160
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	< 1.1
Nickel, Dissolved	DETSC 2306	0.5	ug/l	3.7
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	< 0.6
Zinc, Dissolved	DETSC 2306	1.3	ug/l	15
Inorganics				
pH	DETSC 2008		pH	10.7
Cyanide, Total	DETSC 2130	40	ug/l	< 40
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.14
Chloride	DETSC 2055	0.1	mg/l	4.3
Sulphate as SO4	DETSC 2055	0.1	mg/l	31

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668136
Sample ID	PRAIRIE_AUK_TP110_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	1.7
Aliphatic C16-C21	DETSC 3072*	1	ug/l	2.4
Aliphatic C21-C35	DETSC 3072*	1	ug/l	15
Aliphatic C5-C35	DETSC 3072*	10	ug/l	19
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	1.2
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	18
Aromatic C21-C35	DETSC 3072*	1	ug/l	81
Aromatic C5-C35	DETSC 3072*	10	ug/l	100
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	120
EPH (C10-C40)	DETSC 3311	10	ug/l	

Summary of Chemical Analysis Leachate Samples

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-
08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668136
Sample ID	PRAIRIE_AUK_TP110_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	0.32
Acenaphthylene	DETSC 3304	0.01	ug/l	0.34
Acenaphthene	DETSC 3304	0.01	ug/l	0.52
Fluorene	DETSC 3304	0.01	ug/l	0.19
Phenanthrene	DETSC 3304	0.01	ug/l	1.2
Anthracene	DETSC 3304	0.01	ug/l	0.63
Fluoranthene	DETSC 3304	0.01	ug/l	9.9
Pyrene	DETSC 3304	0.01	ug/l	9.1
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	5.5
Chrysene	DETSC 3304	0.01	ug/l	6.7
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	13
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	4.3
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	8.5
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	4.0
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	1.3
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	5.0
PAH Total	DETSC 3304	0.2	ug/l	71
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668137
Sample ID	PRAIRIE_AUK_TP170_SO_0100
Depth	1.00
Other ID	4
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Preparation				
BS EN 12457 10:1	DETSC 1009*			
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y
Metals				
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.80
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	0.52
Barium, Dissolved	DETSC 2306	0.26	ug/l	40
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	16
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25
Chromium, Total	DETSC 2306*	0.25	ug/l	
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.0
Iron, Dissolved	DETSC 2306	5.5	ug/l	36
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.16
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	1.4
Manganese, Dissolved	DETSC 2306	0.22	ug/l	180
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	< 1.1
Nickel, Dissolved	DETSC 2306	0.5	ug/l	4.2
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	< 0.6
Zinc, Dissolved	DETSC 2306	1.3	ug/l	15
Inorganics				
pH	DETSC 2008		pH	8.4
Cyanide, Total	DETSC 2130	40	ug/l	< 40
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.20
Chloride	DETSC 2055	0.1	mg/l	5.8
Sulphate as SO4	DETSC 2055	0.1	mg/l	33



Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668137
Sample ID	PRAIRIE_AUK_TP170_SO_0100
Depth	1.00
Other ID	4
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	4.3
Aliphatic C12-C16	DETSC 3072*	1	ug/l	25
Aliphatic C16-C21	DETSC 3072*	1	ug/l	29
Aliphatic C21-C35	DETSC 3072*	1	ug/l	17
Aliphatic C5-C35	DETSC 3072*	10	ug/l	75
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	5.7
Aromatic C16-C21	DETSC 3072*	1	ug/l	18
Aromatic C21-C35	DETSC 3072*	1	ug/l	20
Aromatic C5-C35	DETSC 3072*	10	ug/l	45
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	120
EPH (C10-C40)	DETSC 3311	10	ug/l	

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668137
Sample ID	PRAIRIE_AUK_TP170_SO_0100
Depth	1.00
Other ID	4
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	< 0.05
Acenaphthylene	DETSC 3304	0.01	ug/l	0.03
Acenaphthene	DETSC 3304	0.01	ug/l	0.02
Fluorene	DETSC 3304	0.01	ug/l	0.01
Phenanthrene	DETSC 3304	0.01	ug/l	0.07
Anthracene	DETSC 3304	0.01	ug/l	0.09
Fluoranthene	DETSC 3304	0.01	ug/l	0.28
Pyrene	DETSC 3304	0.01	ug/l	0.26
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.12
Chrysene	DETSC 3304	0.01	ug/l	0.14
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.19
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	0.07
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	0.11
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	0.17
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	0.04
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	0.15
PAH Total	DETSC 3304	0.2	ug/l	1.8
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668573
Sample ID	PRAIRIE_AUK_TP140_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Preparation				
BS EN 12457 10:1	DETSC 1009*			
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y
Metals				
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.43
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	1.7
Barium, Dissolved	DETSC 2306	0.26	ug/l	11
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	46
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	1.7
Chromium, Total	DETSC 2306*	0.25	ug/l	
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	4.2
Iron, Dissolved	DETSC 2306	5.5	ug/l	31
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.41
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	1.7
Manganese, Dissolved	DETSC 2306	0.22	ug/l	2.4
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.17
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	6.6
Nickel, Dissolved	DETSC 2306	0.5	ug/l	0.5
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	15
Zinc, Dissolved	DETSC 2306	1.3	ug/l	2.5
Inorganics				
pH	DETSC 2008		pH	8.4
Cyanide, Total	DETSC 2130	40	ug/l	< 40
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.033
Chloride	DETSC 2055	0.1	mg/l	0.73
Sulphate as SO4	DETSC 2055	0.1	mg/l	29

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

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Contract Title Prairie Site Ground Investigation Works

Lab No	1668573
Sample ID	PRAIRIE_AUK_TP140_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	< 10
EPH (C10-C40)	DETSC 3311	10	ug/l	

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668573
Sample ID	PRAIRIE_AUK_TP140_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	0.30
Acenaphthylene	DETSC 3304	0.01	ug/l	0.23
Acenaphthene	DETSC 3304	0.01	ug/l	0.11
Fluorene	DETSC 3304	0.01	ug/l	0.11
Phenanthrene	DETSC 3304	0.01	ug/l	1.2
Anthracene	DETSC 3304	0.01	ug/l	0.38
Fluoranthene	DETSC 3304	0.01	ug/l	3.5
Pyrene	DETSC 3304	0.01	ug/l	3.1
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	1.6
Chrysene	DETSC 3304	0.01	ug/l	2.4
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	4.4
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	1.9
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	2.9
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	4.0
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	0.69
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	3.8
PAH Total	DETSC 3304	0.2	ug/l	31
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668574
Sample ID	PRAIRIE_AUK_TP141_SO_0200
Depth	2.00
Other ID	4
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Preparation				
BS EN 12457 10:1	DETSC 1009*			
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y
Metals				
Antimony, Dissolved	DETSC 2306	0.17	ug/l	14
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	8.1
Barium, Dissolved	DETSC 2306	0.26	ug/l	20
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	180
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25
Chromium, Total	DETSC 2306*	0.25	ug/l	
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	0.7
Iron, Dissolved	DETSC 2306	5.5	ug/l	8.7
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.30
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	3.4
Manganese, Dissolved	DETSC 2306	0.22	ug/l	47
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.27
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	51
Nickel, Dissolved	DETSC 2306	0.5	ug/l	11
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	0.9
Zinc, Dissolved	DETSC 2306	1.3	ug/l	4.3
Inorganics				
pH	DETSC 2008		pH	8.2
Cyanide, Total	DETSC 2130	40	ug/l	< 40
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.91
Chloride	DETSC 2055	0.1	mg/l	1.4
Sulphate as SO4	DETSC 2055	0.1	mg/l	25

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

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Contract Title Prairie Site Ground Investigation Works

Lab No	1668574
Sample ID	PRAIRIE_AUK_TP141_SO_0200
Depth	2.00
Other ID	4
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	4.1
Aliphatic C12-C16	DETSC 3072*	1	ug/l	9.3
Aliphatic C16-C21	DETSC 3072*	1	ug/l	83
Aliphatic C21-C35	DETSC 3072*	1	ug/l	350
Aliphatic C5-C35	DETSC 3072*	10	ug/l	440
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	1.1
Aromatic C12-C16	DETSC 3072*	1	ug/l	4.9
Aromatic C16-C21	DETSC 3072*	1	ug/l	79
Aromatic C21-C35	DETSC 3072*	1	ug/l	390
Aromatic C5-C35	DETSC 3072*	10	ug/l	480
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	920
EPH (C10-C40)	DETSC 3311	10	ug/l	

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668574
Sample ID	PRAIRIE_AUK_TP141_SO_0200
Depth	2.00
Other ID	4
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	2.5
Acenaphthylene	DETSC 3304	0.01	ug/l	0.14
Acenaphthene	DETSC 3304	0.01	ug/l	0.54
Fluorene	DETSC 3304	0.01	ug/l	0.51
Phenanthrene	DETSC 3304	0.01	ug/l	1.4
Anthracene	DETSC 3304	0.01	ug/l	0.23
Fluoranthene	DETSC 3304	0.01	ug/l	1.4
Pyrene	DETSC 3304	0.01	ug/l	1.0
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.40
Chrysene	DETSC 3304	0.01	ug/l	0.61
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.50
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	0.20
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	0.31
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	0.33
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 0.10
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	0.35
PAH Total	DETSC 3304	0.2	ug/l	10
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668575
Sample ID	PRAIRIE_AUK_TP142_SO_0150
Depth	1.50
Other ID	4
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Preparation				
BS EN 12457 10:1	DETSC 1009*			
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y
Metals				
Antimony, Dissolved	DETSC 2306	0.17	ug/l	18
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	41
Barium, Dissolved	DETSC 2306	0.26	ug/l	2.9
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	17
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	0.04
Chromium, Dissolved	DETSC 2306	0.25	ug/l	0.44
Chromium, Total	DETSC 2306*	0.25	ug/l	
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	30
Iron, Dissolved	DETSC 2306	5.5	ug/l	240
Lead, Dissolved	DETSC 2306	0.09	ug/l	16
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	0.15
Manganese, Dissolved	DETSC 2306	0.22	ug/l	3.1
Mercury, Dissolved	DETSC 2306	0.01	ug/l	1.2
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	77
Nickel, Dissolved	DETSC 2306	0.5	ug/l	18
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	1.6
Zinc, Dissolved	DETSC 2306	1.3	ug/l	6.0
Inorganics				
pH	DETSC 2008		pH	10.0
Cyanide, Total	DETSC 2130	40	ug/l	< 40
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	3.2
Chloride	DETSC 2055	0.1	mg/l	1.5
Sulphate as SO4	DETSC 2055	0.1	mg/l	2.2

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668575
Sample ID	PRAIRIE_AUK_TP142_SO_0150
Depth	1.50
Other ID	4
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	1.2
Aliphatic C12-C16	DETSC 3072*	1	ug/l	8.3
Aliphatic C16-C21	DETSC 3072*	1	ug/l	130
Aliphatic C21-C35	DETSC 3072*	1	ug/l	1000
Aliphatic C5-C35	DETSC 3072*	10	ug/l	1200
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	1.4
Aromatic C12-C16	DETSC 3072*	1	ug/l	12
Aromatic C16-C21	DETSC 3072*	1	ug/l	100
Aromatic C21-C35	DETSC 3072*	1	ug/l	670
Aromatic C5-C35	DETSC 3072*	10	ug/l	790
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	1900
EPH (C10-C40)	DETSC 3311	10	ug/l	

Summary of Chemical Analysis Leachate Samples

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-
08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668575
Sample ID	PRAIRIE_AUK_TP142_SO_0150
Depth	1.50
Other ID	4
Sample Type	ES
Sampling Date	23/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	0.29
Acenaphthylene	DETSC 3304	0.01	ug/l	< 0.10
Acenaphthene	DETSC 3304	0.01	ug/l	< 0.10
Fluorene	DETSC 3304	0.01	ug/l	0.11
Phenanthrene	DETSC 3304	0.01	ug/l	0.24
Anthracene	DETSC 3304	0.01	ug/l	< 0.10
Fluoranthene	DETSC 3304	0.01	ug/l	< 0.10
Pyrene	DETSC 3304	0.01	ug/l	< 0.10
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	< 0.10
Chrysene	DETSC 3304	0.01	ug/l	< 0.10
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	< 0.10
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	< 0.10
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	< 0.10
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	< 0.10
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 0.10
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	< 0.10
PAH Total	DETSC 3304	0.2	ug/l	< 1.60
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	400

Summary of Chemical Analysis

Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668870
Sample ID	PRAIRIE_AUK_TP144_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	24/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Preparation				
BS EN 12457 10:1	DETSC 1009*			
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y
Metals				
Antimony, Dissolved	DETSC 2306	0.17	ug/l	1.8
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	3.1
Barium, Dissolved	DETSC 2306	0.26	ug/l	38
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	60
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	0.91
Chromium, Total	DETSC 2306*	0.25	ug/l	
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	6.4
Iron, Dissolved	DETSC 2306	5.5	ug/l	47
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.86
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	2.0
Manganese, Dissolved	DETSC 2306	0.22	ug/l	12
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.05
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	4.4
Nickel, Dissolved	DETSC 2306	0.5	ug/l	1.2
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	5.4
Zinc, Dissolved	DETSC 2306	1.3	ug/l	3.8
Inorganics				
pH	DETSC 2008		pH	7.2
Cyanide, Total	DETSC 2130	40	ug/l	< 40
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.17
Chloride	DETSC 2055	0.1	mg/l	1.6
Sulphate as SO4	DETSC 2055	0.1	mg/l	58



Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668870
Sample ID	PRAIRIE_AUK_TP144_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	24/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	5.4
Aliphatic C21-C35	DETSC 3072*	1	ug/l	47
Aliphatic C5-C35	DETSC 3072*	10	ug/l	53
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	1.2
Aromatic C12-C16	DETSC 3072*	1	ug/l	1.7
Aromatic C16-C21	DETSC 3072*	1	ug/l	14
Aromatic C21-C35	DETSC 3072*	1	ug/l	66
Aromatic C5-C35	DETSC 3072*	10	ug/l	83
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	140
EPH (C10-C40)	DETSC 3311	10	ug/l	

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

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Contract Title Prairie Site Ground Investigation Works

Lab No	1668870
Sample ID	PRAIRIE_AUK_TP144_SO_0080
Depth	0.80
Other ID	3
Sample Type	ES
Sampling Date	24/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	1.9
Acenaphthylene	DETSC 3304	0.01	ug/l	2.7
Acenaphthene	DETSC 3304	0.01	ug/l	0.93
Fluorene	DETSC 3304	0.01	ug/l	1.1
Phenanthrene	DETSC 3304	0.01	ug/l	16
Anthracene	DETSC 3304	0.01	ug/l	3.1
Fluoranthene	DETSC 3304	0.01	ug/l	36
Pyrene	DETSC 3304	0.01	ug/l	33
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	19
Chrysene	DETSC 3304	0.01	ug/l	20
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	35
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	11
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	21
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	22
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	10
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	20
PAH Total	DETSC 3304	0.2	ug/l	250
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1669252
Sample ID	PRAIRIE_AUK_TP112_SO_0210
Depth	2.10
Other ID	7
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Preparation				
BS EN 12457 10:1	DETSC 1009*			
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y
Metals				
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.57
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	1.1
Barium, Dissolved	DETSC 2306	0.26	ug/l	17
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	14
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	2.0
Chromium, Total	DETSC 2306*	0.25	ug/l	
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	3.6
Iron, Dissolved	DETSC 2306	5.5	ug/l	34
Lead, Dissolved	DETSC 2306	0.09	ug/l	1.1
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	1.1
Manganese, Dissolved	DETSC 2306	0.22	ug/l	7.9
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	2.3
Nickel, Dissolved	DETSC 2306	0.5	ug/l	< 0.5
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	1.0
Zinc, Dissolved	DETSC 2306	1.3	ug/l	2.9
Inorganics				
pH	DETSC 2008		pH	10.7
Cyanide, Total	DETSC 2130	40	ug/l	< 40
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.039
Chloride	DETSC 2055	0.1	mg/l	7.7
Sulphate as SO4	DETSC 2055	0.1	mg/l	33

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1669252
Sample ID	PRAIRIE_AUK_TP112_SO_0210
Depth	2.10
Other ID	7
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	< 10
EPH (C10-C40)	DETSC 3311	10	ug/l	

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1669252
Sample ID	PRAIRIE_AUK_TP112_SO_0210
Depth	2.10
Other ID	7
Sample Type	ES
Sampling Date	22/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	0.25
Acenaphthylene	DETSC 3304	0.01	ug/l	0.23
Acenaphthene	DETSC 3304	0.01	ug/l	0.05
Fluorene	DETSC 3304	0.01	ug/l	0.11
Phenanthrene	DETSC 3304	0.01	ug/l	5.7
Anthracene	DETSC 3304	0.01	ug/l	0.82
Fluoranthene	DETSC 3304	0.01	ug/l	2.5
Pyrene	DETSC 3304	0.01	ug/l	1.1
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.26
Chrysene	DETSC 3304	0.01	ug/l	0.32
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.30
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	0.16
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	0.14
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	0.22
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	0.04
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	0.18
PAH Total	DETSC 3304	0.2	ug/l	12
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670145
Sample ID	PRAIRIE_AUK_TP201_SO_0360
Depth	3.60
Other ID	1
Sample Type	ES
Sampling Date	28/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Preparation				
BS EN 12457 10:1	DETSC 1009*			
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y
Metals				
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.98
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	2.1
Barium, Dissolved	DETSC 2306	0.26	ug/l	47
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	150
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	0.11
Chromium, Dissolved	DETSC 2306	0.25	ug/l	
Chromium, Total	DETSC 2306*	0.25	ug/l	0.32
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	3.6
Iron, Dissolved	DETSC 2306	5.5	ug/l	< 5.5
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.20
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	24
Manganese, Dissolved	DETSC 2306	0.22	ug/l	30
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	2.1
Nickel, Dissolved	DETSC 2306	0.5	ug/l	6.3
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	0.8
Zinc, Dissolved	DETSC 2306	1.3	ug/l	33
Inorganics				
pH	DETSC 2008		pH	7.7
Cyanide, Total	DETSC 2130	40	ug/l	< 40
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.097
Chloride	DETSC 2055	0.1	mg/l	4.0
Sulphate as SO4	DETSC 2055	0.1	mg/l	400

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670145
Sample ID	PRAIRIE_AUK_TP201_SO_0360
Depth	3.60
Other ID	1
Sample Type	ES
Sampling Date	28/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	< 10
EPH (C10-C40)	DETSC 3311	10	ug/l	

Summary of Chemical Analysis Leachate Samples

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-
08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1670145
Sample ID	PRAIRIE_AUK_TP201_SO_0360
Depth	3.60
Other ID	1
Sample Type	ES
Sampling Date	28/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	0.28
Acenaphthylene	DETSC 3304	0.01	ug/l	0.02
Acenaphthene	DETSC 3304	0.01	ug/l	0.12
Fluorene	DETSC 3304	0.01	ug/l	0.03
Phenanthrene	DETSC 3304	0.01	ug/l	0.05
Anthracene	DETSC 3304	0.01	ug/l	0.04
Fluoranthene	DETSC 3304	0.01	ug/l	0.05
Pyrene	DETSC 3304	0.01	ug/l	0.04
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.02
Chrysene	DETSC 3304	0.01	ug/l	0.02
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.03
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	0.02
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	0.02
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 0.01
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	0.02
PAH Total	DETSC 3304	0.2	ug/l	0.75
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100

Summary of Chemical Analysis

Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1675436
Sample ID	PRAIRIE_AUK_TP123_SO_0060
Depth	0.60
Other ID	3
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Preparation				
BS EN 12457 10:1	DETSC 1009*			
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y
Metals				
Antimony, Dissolved	DETSC 2306	0.17	ug/l	2.8
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	4.7
Barium, Dissolved	DETSC 2306	0.26	ug/l	20
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	51
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	1.6
Chromium, Total	DETSC 2306*	0.25	ug/l	
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	22
Iron, Dissolved	DETSC 2306	5.5	ug/l	31
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.20
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	0.22
Manganese, Dissolved	DETSC 2306	0.22	ug/l	1.6
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.02
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	3.4
Nickel, Dissolved	DETSC 2306	0.5	ug/l	1.2
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	48
Zinc, Dissolved	DETSC 2306	1.3	ug/l	< 1.3
Inorganics				
pH	DETSC 2008		pH	10.7
Cyanide, Total	DETSC 2130	40	ug/l	44
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.13
Chloride	DETSC 2055	0.1	mg/l	1.9
Sulphate as SO4	DETSC 2055	0.1	mg/l	31

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1675436
Sample ID	PRAIRIE_AUK_TP123_SO_0060
Depth	0.60
Other ID	3
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	< 10
EPH (C10-C40)	DETSC 3311	10	ug/l	



Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1675436
Sample ID	PRAIRIE_AUK_TP123_SO_0060
Depth	0.60
Other ID	3
Sample Type	ES
Sampling Date	08/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	0.30
Acenaphthylene	DETSC 3304	0.01	ug/l	0.58
Acenaphthene	DETSC 3304	0.01	ug/l	0.65
Fluorene	DETSC 3304	0.01	ug/l	0.28
Phenanthrene	DETSC 3304	0.01	ug/l	0.49
Anthracene	DETSC 3304	0.01	ug/l	0.21
Fluoranthene	DETSC 3304	0.01	ug/l	0.74
Pyrene	DETSC 3304	0.01	ug/l	0.50
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.35
Chrysene	DETSC 3304	0.01	ug/l	0.38
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.71
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	0.29
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	0.44
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	0.59
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	0.12
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	0.58
PAH Total	DETSC 3304	0.2	ug/l	7.2
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1675439
Sample ID	PRAIRIE_AUK_TP120A_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Preparation				
BS EN 12457 10:1	DETSC 1009*			
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y
Metals				
Antimony, Dissolved	DETSC 2306	0.17	ug/l	1.6
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	1.4
Barium, Dissolved	DETSC 2306	0.26	ug/l	32
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	110
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	2.0
Chromium, Total	DETSC 2306*	0.25	ug/l	
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	3.2
Iron, Dissolved	DETSC 2306	5.5	ug/l	9.6
Lead, Dissolved	DETSC 2306	0.09	ug/l	< 0.09
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	0.29
Manganese, Dissolved	DETSC 2306	0.22	ug/l	0.90
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.03
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	1.8
Nickel, Dissolved	DETSC 2306	0.5	ug/l	< 0.5
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	78
Zinc, Dissolved	DETSC 2306	1.3	ug/l	< 1.3
Inorganics				
pH	DETSC 2008		pH	10.2
Cyanide, Total	DETSC 2130	40	ug/l	< 40
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.058
Chloride	DETSC 2055	0.1	mg/l	1.4
Sulphate as SO4	DETSC 2055	0.1	mg/l	37

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1675439
Sample ID	PRAIRIE_AUK_TP120A_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	< 10
EPH (C10-C40)	DETSC 3311	10	ug/l	

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1675439
Sample ID	PRAIRIE_AUK_TP120A_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	0.63
Acenaphthylene	DETSC 3304	0.01	ug/l	0.43
Acenaphthene	DETSC 3304	0.01	ug/l	0.42
Fluorene	DETSC 3304	0.01	ug/l	0.21
Phenanthrene	DETSC 3304	0.01	ug/l	1.9
Anthracene	DETSC 3304	0.01	ug/l	0.89
Fluoranthene	DETSC 3304	0.01	ug/l	16
Pyrene	DETSC 3304	0.01	ug/l	18
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	9.4
Chrysene	DETSC 3304	0.01	ug/l	12
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	20
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	11
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	14
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	16
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	3.8
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	16
PAH Total	DETSC 3304	0.2	ug/l	140
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1675441
Sample ID	PRAIRIE_AUK_TP103_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Preparation				
BS EN 12457 10:1	DETSC 1009*			
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y
Metals				
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.46
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	1.5
Barium, Dissolved	DETSC 2306	0.26	ug/l	18
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	51
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	0.65
Chromium, Total	DETSC 2306*	0.25	ug/l	
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	2.8
Iron, Dissolved	DETSC 2306	5.5	ug/l	15
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.14
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	2.4
Manganese, Dissolved	DETSC 2306	0.22	ug/l	7.9
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	1.5
Nickel, Dissolved	DETSC 2306	0.5	ug/l	< 0.5
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	27
Zinc, Dissolved	DETSC 2306	1.3	ug/l	10
Inorganics				
pH	DETSC 2008		pH	8.6
Cyanide, Total	DETSC 2130	40	ug/l	< 40
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.16
Chloride	DETSC 2055	0.1	mg/l	1.3
Sulphate as SO4	DETSC 2055	0.1	mg/l	36

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1675441
Sample ID	PRAIRIE_AUK_TP103_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	1.9
Aromatic C21-C35	DETSC 3072*	1	ug/l	6.4
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	< 10
EPH (C10-C40)	DETSC 3311	10	ug/l	

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1675441
Sample ID	PRAIRIE_AUK_TP103_SO_0100
Depth	1.00
Other ID	3
Sample Type	ES
Sampling Date	20/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	4.6
Acenaphthylene	DETSC 3304	0.01	ug/l	3.2
Acenaphthene	DETSC 3304	0.01	ug/l	< 1.00
Fluorene	DETSC 3304	0.01	ug/l	1.1
Phenanthrene	DETSC 3304	0.01	ug/l	4.4
Anthracene	DETSC 3304	0.01	ug/l	4.8
Fluoranthene	DETSC 3304	0.01	ug/l	83
Pyrene	DETSC 3304	0.01	ug/l	95
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	70
Chrysene	DETSC 3304	0.01	ug/l	76
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	210
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	57
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	130
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	210
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	28
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	400
PAH Total	DETSC 3304	0.2	ug/l	1400
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1675442
Sample ID	PRAIRIE_AUK_TP194A_SO_0140
Depth	1.40
Other ID	1
Sample Type	ES
Sampling Date	29/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Preparation				
BS EN 12457 10:1	DETSC 1009*			
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y
Metals				
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.71
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	1.5
Barium, Dissolved	DETSC 2306	0.26	ug/l	26
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	150
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25
Chromium, Total	DETSC 2306*	0.25	ug/l	
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.2
Iron, Dissolved	DETSC 2306	5.5	ug/l	150
Lead, Dissolved	DETSC 2306	0.09	ug/l	< 0.09
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	5.6
Manganese, Dissolved	DETSC 2306	0.22	ug/l	330
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	2.7
Nickel, Dissolved	DETSC 2306	0.5	ug/l	2.1
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	1.1
Zinc, Dissolved	DETSC 2306	1.3	ug/l	4.5
Inorganics				
pH	DETSC 2008		pH	8.5
Cyanide, Total	DETSC 2130	40	ug/l	320
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.078
Chloride	DETSC 2055	0.1	mg/l	2.5
Sulphate as SO4	DETSC 2055	0.1	mg/l	28

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1675442
Sample ID	PRAIRIE_AUK_TP194A_SO_0140
Depth	1.40
Other ID	1
Sample Type	ES
Sampling Date	29/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	22
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	22
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	1.1
Aromatic C12-C16	DETSC 3072*	1	ug/l	25
Aromatic C16-C21	DETSC 3072*	1	ug/l	4.1
Aromatic C21-C35	DETSC 3072*	1	ug/l	1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	31
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	53
EPH (C10-C40)	DETSC 3311	10	ug/l	

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1675442
Sample ID	PRAIRIE_AUK_TP194A_SO_0140
Depth	1.40
Other ID	1
Sample Type	ES
Sampling Date	29/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	57
Acenaphthylene	DETSC 3304	0.01	ug/l	200
Acenaphthene	DETSC 3304	0.01	ug/l	430
Fluorene	DETSC 3304	0.01	ug/l	200
Phenanthrene	DETSC 3304	0.01	ug/l	180
Anthracene	DETSC 3304	0.01	ug/l	53
Fluoranthene	DETSC 3304	0.01	ug/l	82
Pyrene	DETSC 3304	0.01	ug/l	48
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	22
Chrysene	DETSC 3304	0.01	ug/l	19
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	24
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	10
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	19
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	15
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	3.7
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	12
PAH Total	DETSC 3304	0.2	ug/l	1400
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1675443
Sample ID	PRAIRIE_AUK_TP196A_SO_0140
Depth	1.40
Other ID	1
Sample Type	ES
Sampling Date	29/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Preparation				
BS EN 12457 10:1	DETSC 1009*			
Leachate 2:1 250g Non-WAC	DETSC 1009*			Y
Metals				
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.66
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	0.98
Barium, Dissolved	DETSC 2306	0.26	ug/l	27
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	0.3
Boron, Dissolved	DETSC 2306*	12	ug/l	75
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	0.10
Chromium, Dissolved	DETSC 2306	0.25	ug/l	0.93
Chromium, Total	DETSC 2306*	0.25	ug/l	
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	2.0
Iron, Dissolved	DETSC 2306	5.5	ug/l	410
Lead, Dissolved	DETSC 2306	0.09	ug/l	1.1
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	4.8
Manganese, Dissolved	DETSC 2306	0.22	ug/l	580
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.04
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	6.1
Nickel, Dissolved	DETSC 2306	0.5	ug/l	2.6
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	1.4
Zinc, Dissolved	DETSC 2306	1.3	ug/l	1.7
Inorganics				
pH	DETSC 2008		pH	6.9
Cyanide, Total	DETSC 2130	40	ug/l	1000
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.063
Chloride	DETSC 2055	0.1	mg/l	2.2
Sulphate as SO4	DETSC 2055	0.1	mg/l	44

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1675443
Sample ID	PRAIRIE_AUK_TP196A_SO_0140
Depth	1.40
Other ID	1
Sample Type	ES
Sampling Date	29/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	12
Aromatic C16-C21	DETSC 3072*	1	ug/l	1.6
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	15
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	15
EPH (C10-C40)	DETSC 3311	10	ug/l	

Summary of Chemical Analysis Leachate Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-

Our Ref 09144,20-09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1675443
Sample ID	PRAIRIE_AUK_TP196A_SO_0140
Depth	1.40
Other ID	1
Sample Type	ES
Sampling Date	29/04/2020
Sampling Time	n/s

Test	Method	LOD	Units	
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	34
Acenaphthylene	DETSC 3304	0.01	ug/l	170
Acenaphthene	DETSC 3304	0.01	ug/l	760
Fluorene	DETSC 3304	0.01	ug/l	270
Phenanthrene	DETSC 3304	0.01	ug/l	66
Anthracene	DETSC 3304	0.01	ug/l	66
Fluoranthene	DETSC 3304	0.01	ug/l	92
Pyrene	DETSC 3304	0.01	ug/l	56
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	18
Chrysene	DETSC 3304	0.01	ug/l	18
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	27
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	11
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	18
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	17
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	4.4
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	15
PAH Total	DETSC 3304	0.2	ug/l	1700
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100

Summary of Asbestos Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-09146,20-09147,20-

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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

Summary of Asbestos Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-09146,20-09147,20-

Our Ref 09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
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
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

Summary of Asbestos Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-09146,20-09147,20-

Our Ref 09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
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
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

Summary of Asbestos Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-09146,20-09147,20-

Our Ref 09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
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
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

Summary of Asbestos Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-09146,20-09147,20-

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Lab No	Sample ID	Material Type	Result	Comment*	Analyst
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
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

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1663734
Sample ID	PRAIRIE_AUK_TP101_SO_0100
Depth	1.00
Other ID	5
Sample Type	SOIL
Sampling Date	01/04/2020
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	853.49
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 reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665589
Sample ID	PRAIRIE_AUK_TP124_SO_0150
Depth	1.50
Other ID	5
Sample Type	SOIL
Sampling Date	08/04/2020
Sampling Time	

Test	Method	Units	
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	0.002
Gravimetric Quantification (a)	DETSC 1102	Mass %	na
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	0.002
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	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
% Chrysotile bundles in sample		Mass %	0.002

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 reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665133
Sample ID	PRAIRIE_AUK_TP172_SO_0800
Depth	0.80
Other ID	3
Sample Type	SOIL
Sampling Date	06/04/2020
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	782.89
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
% Chrysotile bundles in sample		Mass %	na

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 reference to HSG 264.
 Recommended sample size for quantification is approximately 1kg
 # denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665140
Sample ID	PRAIRIE_AUK_TP108_SO_0100
Depth	1.00
Other ID	5
Sample Type	SOIL
Sampling Date	06/04/2020
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	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
% Chrysotile bundles in sample		Mass %	na

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 reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665141
Sample ID	PRAIRIE_AUK_TP108_SO_0200
Depth	2.00
Other ID	8
Sample Type	SOIL
Sampling Date	06/04/2020
Sampling Time	

Test	Method	Units	
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	0.002
Gravimetric Quantification (a)	DETSC 1102	Mass %	na
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	0.002
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	761.41
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
% Chrysotile bundles in sample		Mass %	na

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 reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665142
Sample ID	PRAIRIE_AUK_TP113_SO_0130
Depth	1.30
Other ID	5
Sample Type	SOIL
Sampling Date	06/04/2020
Sampling Time	

Test	Method	Units	
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	0.005
Gravimetric Quantification (a)	DETSC 1102	Mass %	na
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	0.005
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	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 %	na
% Chrysotile bundles in sample		Mass %	0.005

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 reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665290
Sample ID	PRAIRIE_AUK_TP122_SO_0100
Depth	1.00
Other ID	3
Sample Type	SOIL
Sampling Date	08/04/2020
Sampling Time	

Test	Method	Units	
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	0.002
Gravimetric Quantification (a)	DETSC 1102	Mass %	0.002
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	na
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	1153.64
ACMs present*		type	Cement
Mass of ACM in sample		g	0.13
% ACM by mass		%	0.01
% asbestos in ACM		%	15
% asbestos in sample		%	0.002

Breakdown of Detailed Gravimetric Analysis (b)

% Amphibole bundles in sample		Mass %	na
% Chrysotile bundles in sample		Mass %	na

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 reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665451
Sample ID	PRARIE_AUK_TP138_SO_0120
Depth	1.20
Other ID	3
Sample Type	SOIL
Sampling Date	09/04/2020
Sampling Time	

Test	Method	Units	
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	0.020
Gravimetric Quantification (a)	DETSC 1102	Mass %	0.020
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	na
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	1191.05
ACMs present*		type	LFAD
Mass of ACM in sample		g	0.29
% ACM by mass		%	0.02
% asbestos in ACM		%	85.00
% asbestos in sample		%	0.020

Breakdown of Detailed Gravimetric Analysis (b)

% Amphibole bundles in sample		Mass %	na
% Chrysotile bundles in sample		Mass %	na

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 reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665452
Sample ID	PRARIE_AUK_TP149_SO_0130
Depth	1.30
Other ID	3
Sample Type	SOIL
Sampling Date	09/04/2020
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	965.87
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 reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665453
Sample ID	PRARIE_AUK_TP168_SO_0005
Depth	0.05
Other ID	1
Sample Type	SOIL
Sampling Date	09/04/2020
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	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
% 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 reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665454
Sample ID	PRARIE_AUK_TP173_SO_0090
Depth	0.90
Other ID	3
Sample Type	SOIL
Sampling Date	09/04/2020
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	952.28
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 reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665992
Sample ID	PRAIRIE_AUK_TP156A_SO_0030
Depth	0.30
Other ID	2
Sample Type	SOIL
Sampling Date	14/04/2020
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	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
% 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 reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1665995
Sample ID	PRAIRIE_AUK_TP163_SO_0120
Depth	1.20
Other ID	3
Sample Type	SOIL
Sampling Date	14/04/2020
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	483.48
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 reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666343
Sample ID	PRAIRIE_AUK_TP135_SO_0130
Depth	1.30
Other ID	5
Sample Type	SOIL
Sampling Date	15/04/2020
Sampling Time	

Test	Method	Units	
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	< 0.001
Gravimetric Quantification (a)	DETSC 1102	Mass %	0.001
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	na
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	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
% Chrysotile bundles in sample		Mass %	na

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 reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666348
Sample ID	PRAIRIE_AUK_TP169_SO_0150
Depth	1.50
Other ID	3
Sample Type	SOIL
Sampling Date	15/04/2020
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	1335.01
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 reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666611
Sample ID	PRAIRIE_AUK_TP139B_SO_0030
Depth	0.30
Other ID	3
Sample Type	SOIL
Sampling Date	16/04/2020
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	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
% 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 reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666614
Sample ID	PRAIRIE_AUK_TP150_SO_0150
Depth	1.50
Other ID	3
Sample Type	SOIL
Sampling Date	16/04/2020
Sampling Time	

Test	Method	Units	
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	0.009
Gravimetric Quantification (a)	DETSC 1102	Mass %	0.009
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	na
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	932.90
ACMs present*		type	LFAD
Mass of ACM in sample		g	0.10
% ACM by mass		%	0.01
% asbestos in ACM		%	85
% asbestos in sample		%	0.009

Breakdown of Detailed Gravimetric Analysis (b)

% Amphibole bundles in sample		Mass %	na
% Chrysotile bundles in sample		Mass %	na

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 reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666615
Sample ID	PRAIRIE_AUK_TP159_SO_0060
Depth	0.60
Other ID	3
Sample Type	SOIL
Sampling Date	16/04/2020
Sampling Time	

Test	Method	Units	
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	0.002
Gravimetric Quantification (a)	DETSC 1102	Mass %	0.002
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	na
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	695.59
ACMs present*		type	LFAD
Mass of ACM in sample		g	0.01
% 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
% Chrysotile bundles in sample		Mass %	na

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 reference to HSG 264.
 Recommended sample size for quantification is approximately 1kg
 # denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1666616
Sample ID	PRAIRIE_AUK_TP190A_SO_0110
Depth	1.10
Other ID	3
Sample Type	SOIL
Sampling Date	16/04/2020
Sampling Time	

Test	Method	Units	
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	0.003
Gravimetric Quantification (a)	DETSC 1102	Mass %	0.003
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	na
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	1052.76
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
% Chrysotile bundles in sample		Mass %	na

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 reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667233
Sample ID	PRAIRIE_AUK_TP128_SO_0090
Depth	0.90
Other ID	3
Sample Type	SOIL
Sampling Date	17/04/2020
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	649.46
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
% 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 reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667236
Sample ID	PRAIRIE_AUK_TP147_SO_0150
Depth	1.50
Other ID	4
Sample Type	SOIL
Sampling Date	17/04/2020
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	1033.16
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
% Chrysotile bundles in sample		Mass %	na

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 reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667238
Sample ID	PRAIRIE_AUK_TP157_SO_0080
Depth	0.80
Other ID	2
Sample Type	SOIL
Sampling Date	17/04/2020
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	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
% Chrysotile bundles in sample		Mass %	na

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 reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667501
Sample ID	PRAIRIE_AUK_TP120A_SO_0100
Depth	1.00
Other ID	3
Sample Type	SOIL
Sampling Date	20/04/2020
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	925.95
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 reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1667505
Sample ID	PRAIRIE_AUK_TP166_SO_0045
Depth	0.45
Other ID	3
Sample Type	SOIL
Sampling Date	20/04/2020
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	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 %	0.001
% Chrysotile bundles in sample		Mass %	na

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 reference to HSG 264.
 Recommended sample size for quantification is approximately 1kg
 # denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668120
Sample ID	PRAIRIE_AUK_TP102_SO_0300
Depth	3.00
Other ID	11
Sample Type	SOIL
Sampling Date	21/04/2020
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	709.21
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 reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668125
Sample ID	PRAIRIE_AUK_TP111_SO_0150
Depth	1.50
Other ID	4
Sample Type	SOIL
Sampling Date	22/04/2020
Sampling Time	

Test	Method	Units	
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	0.002
Gravimetric Quantification (a)	DETSC 1102	Mass %	0.002
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	na
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	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
% Chrysotile bundles in sample		Mass %	na

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 reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668130
Sample ID	PRAIRIE_AUK_TP152_SO_0200
Depth	2.00
Other ID	6
Sample Type	SOIL
Sampling Date	22/04/2020
Sampling Time	

Test	Method	Units	
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	0.002
Gravimetric Quantification (a)	DETSC 1102	Mass %	na
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	0.002
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	1135.68
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 %	0.002

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 reference to HSG 264.
 Recommended sample size for quantification is approximately 1kg
 # denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668559
Sample ID	PRAIRIE_AUK_TP184_SO_0030
Depth	0.30
Other ID	2
Sample Type	SOIL
Sampling Date	16/04/2020
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	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 %	<0.001
% Chrysotile bundles in sample		Mass %	na

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 reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668561
Sample ID	PRAIRIE_AUK_TP116_SO_0130
Depth	1.30
Other ID	3
Sample Type	SOIL
Sampling Date	23/04/2020
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	942.18
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 reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668562
Sample ID	PRAIRIE_AUK_TP117_SO_0300
Depth	3.00
Other ID	8
Sample Type	SOIL
Sampling Date	23/04/2020
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	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
% 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 reference to HSG 264.
 Recommended sample size for quantification is approximately 1kg
 # denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-

Our Ref 09146,20-09147,20-09149

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1668869
Sample ID	PRAIRIE_AUK_TP144_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 reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Information in Support of the Analytical Results

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-
 Our Ref 07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-09146,20-09147,20-09149
 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		
1665134	PRAIRIE_AUK_TP175_SO_0 080 0.80 SOIL	06/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665135	PRAIRIE_AUK_TP175_SO_0 180 1.80 SOIL	06/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665136	PRAIRIE_AUK_TP178_SO_0 080 0.80 SOIL	06/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665137	PRAIRIE_AUK_BH106_SO_0 550 5.50 SOIL	06/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665138	PRAIRIE_AUK_TP107_SO_0 180 1.80 SOIL	06/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665139	PRAIRIE_AUK_TP107_SO_0 080 0.80 SOIL	06/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665140	PRAIRIE_AUK_TP108_SO_0 100 1.00 SOIL	06/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665141	PRAIRIE_AUK_TP108_SO_0 200 2.00 SOIL	06/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665142	PRAIRIE_AUK_TP113_SO_0 130 1.30 SOIL	06/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
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		
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		

Information in Support of the Analytical Results

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-
 Our Ref 07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-09146,20-09147,20-09149
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Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1665290	PRAIRIE_AUK_TP122_SO_0 100 1.00 SOIL	08/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665291	PRAIRIE_AUK_TP123_SO_0 060 0.60 SOIL	08/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665292	PRAIRIE_AUK_TP185_SO_0 430 4.30 SOIL	08/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665293	PRAIRIE_AUK_TP186_SO_0 050 0.50 SOIL	07/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665294	PRAIRIE_AUK_TP186_SO_0 100 1.00 WATER	07/04/20	PB 1L x2		
1665295	PRAIRIE_AUK_TP188_SO_0 100 1.00 SOIL	08/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665450	PRARIE_AUK_TP121_SO_01 50 1.50 SOIL	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665451	PRARIE_AUK_TP138_SO_01 20 1.20 SOIL	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665452	PRARIE_AUK_TP149_SO_01 30 1.30 SOIL	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665453	PRARIE_AUK_TP168_SO_00 05 0.05 SOIL	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665454	PRARIE_AUK_TP173_SO_00 90 0.90 SOIL	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665455	PRARIE_AUK_SURFACE1_S O_0000 SOIL	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665582	PRAIRIE_AUK_TP108_SO_0 200 2.00 LEACHATE	06/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665588	PRAIRIE_AUK_TP114_SO_0 090 0.90 SOIL	07/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665589	PRAIRIE_AUK_TP124_SO_0 150 1.50 SOIL	08/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665590	PRAIRIE_AUK_TP174_SO_0 080 0.80 SOIL	08/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665591	PRAIRIE_AUK_TP174_SO_0 160 1.60 SOIL	08/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665592	PRAIRIE_AUK_TP176_SO_0 090 0.90 SOIL	07/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665593	PRAIRIE_AUK_TP177_SO_0 060 0.60 SOIL	07/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665594	PRAIRIE_AUK_TP189_SO_0 300 3.00 SOIL	07/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665595	PRAIRIE_AUK_TP114_SO_0 090 0.90 LEACHATE	07/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665610	PRAIRIE_AUK_TP179_SO_0 140 1.40 SOIL	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665611	PRAIRIE_AUK_TP179_SO_0 200 2.00 SOIL	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665612	PRAIRIE_AUK_TP181_SO_0 060 0.60 SOIL	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665613	PRAIRIE_AUK_TP182_SO_0 090 0.90 SOIL	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		

Information in Support of the Analytical Results

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-
 Our Ref 07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-09146,20-09147,20-09149
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Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1665614	PRAIRIE_AUK_TP179_SO_0 140 1.40 LEACHATE	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665615	PRAIRIE_AUK_TP179_SO_0 200 2.00 LEACHATE	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665616	PRAIRIE_AUK_TP181_SO_0 060 0.60 LEACHATE	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665617	PRAIRIE_AUK_TP182_SO_0 090 0.90 LEACHATE	09/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665990	PRAIRIE_AUK_TP145_SO_0 160 1.60 SOIL	14/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665991	PRAIRIE_AUK_TP146C_SO_0 0130 1.30 SOIL	14/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665992	PRAIRIE_AUK_TP156A_SO_0 0030 0.30 SOIL	14/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665993	PRAIRIE_AUK_TP162_SO_0 170 1.70 SOIL	14/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665994	PRAIRIE_AUK_TP180_SO_0 030 0.30 SOIL	14/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665995	PRAIRIE_AUK_TP163_SO_0 120 1.20 SOIL	14/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665996	PRAIRIE_AUK_TP145_SO_0 160 1.60 LEACHATE	14/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1665997	PRAIRIE_AUK_TP163_SO_0 120 1.20 LEACHATE	14/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666343	PRAIRIE_AUK_TP135_SO_0 130 1.30 SOIL	15/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666344	PRAIRIE_AUK_TP136_SO_0 080 0.80 SOIL	15/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666345	PRAIRIE_AUK_TP136_SO_0 290 2.90 SOIL	15/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666346	PRAIRIE_AUK_TP165_SO_0 100 1.00 SOIL	15/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666347	PRAIRIE_AUK_TP167_SO_0 250 2.50 SOIL	15/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666348	PRAIRIE_AUK_TP169_SO_0 150 1.50 SOIL	15/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666349	PRAIRIE_AUK_TP136_SO_0 080 0.80 LEACHATE	15/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666610	PRAIRIE_AUK_BH108_SO_0 250 2.50 SOIL	15/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666611	PRAIRIE_AUK_TP139B_SO_0 0030 0.30 SOIL	16/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666612	PRAIRIE_AUK_TP139B_SO_0 0330 3.30 SOIL	16/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666613	PRAIRIE_AUK_TP148A_SO_0 0140 1.40 SOIL	16/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666614	PRAIRIE_AUK_TP150_SO_0 150 1.50 SOIL	16/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1666615	PRAIRIE_AUK_TP159_SO_0 060 0.60 SOIL	16/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		

Information in Support of the Analytical Results

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-

Our Ref 07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-09146,20-09147,20-09149

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1666616	PRAIRIE_AUK_TP190A_SO_ 0110 1.10 SOIL	16/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
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Information in Support of the Analytical Results

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-
 Our Ref 07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-09146,20-09147,20-09149
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Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1667231	PRAIRIE_AUK_BH105_SO_0 300 3.00 SOIL	16/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667232	PRAIRIE_AUK_TP126_SO_0 260 2.60 SOIL	17/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667233	PRAIRIE_AUK_TP128_SO_0 090 0.90 SOIL	17/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667234	PRAIRIE_AUK_TP129_SO_0 210 2.10 SOIL	17/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667235	PRAIRIE_AUK_TP130_SO_0 100 1.00 SOIL	17/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667236	PRAIRIE_AUK_TP147_SO_0 150 1.50 SOIL	17/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667237	PRAIRIE_AUK_TP158_SO_0 130 1.30 SOIL	17/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667238	PRAIRIE_AUK_TP157_SO_0 080 0.80 SOIL	17/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667239	PRAIRIE_AUK_TP128_SO_0 090 0.90 LEACHATE	17/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667501	PRAIRIE_AUK_TP120A_SO_0 0100 1.00 SOIL	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667502	PRAIRIE_AUK_TP134_SO_0 100 1.00 SOIL	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667503	PRAIRIE_AUK_TP134_SO_0 200 2.00 SOIL	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667504	PRAIRIE_AUK_TP161_SO_0 100 1.00 SOIL	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667505	PRAIRIE_AUK_TP166_SO_0 045 0.45 SOIL	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667506	PRAIRIE_AUK_TP166_SO_0 120 1.20 SOIL	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667507	PRAIRIE_AUK_TP171_SO_0 075 0.75 SOIL	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1667508	PRAIRIE_AUK_TP187_SO_0 070 0.70 SOIL	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668118	PRAIRIE_AUK_BH110_SO_0 300 3.00 SOIL	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668119	PRAIRIE_AUK_TP102_SO_0 100 1.00 SOIL	21/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668120	PRAIRIE_AUK_TP102_SO_0 300 3.00 SOIL	21/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668121	PRAIRIE_AUK_TP103_SO_0 100 1.00 SOIL	21/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668122	PRAIRIE_AUK_TP109_SO_0 100 1.00 SOIL	21/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668123	PRAIRIE_AUK_TP110_SO_0 100 1.00 SOIL	21/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668124	PRAIRIE_AUK_TP110_SO_0 200 2.00 SOIL	21/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668125	PRAIRIE_AUK_TP111_SO_0 150 1.50 SOIL	22/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		

Information in Support of the Analytical Results

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-

Our Ref 07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-09146,20-09147,20-09149

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1668126	PRAIRIE_AUK_TP112_SO_0 150 1.50 SOIL	22/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
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Information in Support of the Analytical Results

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 Our Ref 07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-09146,20-09147,20-09149
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Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1668127	PRAIRIE_AUK_TP119_SO_0 150 1.50 SOIL	22/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668128	PRAIRIE_AUK_TP119_SO_0 250 2.50 SOIL	22/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668129	PRAIRIE_AUK_TP133_SO_0 050 0.50 SOIL	22/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668130	PRAIRIE_AUK_TP152_SO_0 200 2.00 SOIL	22/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668131	PRAIRIE_AUK_TP153_SO_0 110 1.10 SOIL	22/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668132	PRAIRIE_AUK_TP154_SO_0 085 0.85 SOIL	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668133	PRAIRIE_AUK_TP155_SO_0 070 0.70 SOIL	21/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668134	PRAIRIE_AUK_TP160_SO_0 075 0.75 SOIL	21/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668135	PRAIRIE_AUK_TP170_SO_0 100 1.00 SOIL	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668136	PRAIRIE_AUK_TP110_SO_0 100 1.00 LEACHATE	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668137	PRAIRIE_AUK_TP170_SO_0 100 1.00 LEACHATE	20/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668557	PRAIRIE_AUK_TP164_SO_0 070 0.70 SOIL	16/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668558	PRAIRIE_AUK_TP164_SO_0 130 1.30 SOIL	16/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668559	PRAIRIE_AUK_TP184_SO_0 030 0.30 SOIL	16/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668560	PRAIRIE_AUK_TP106_SO_0 100 1.00 SOIL	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668561	PRAIRIE_AUK_TP116_SO_0 130 1.30 SOIL	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668562	PRAIRIE_AUK_TP117_SO_0 300 3.00 SOIL	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668563	PRAIRIE_AUK_TP118_SO_0 120 1.20 SOIL	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668564	PRAIRIE_AUK_TP127_SO_0 030 0.30 SOIL	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668565	PRAIRIE_AUK_TP127A_SO_0 0280 2.80 SOIL	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668566	PRAIRIE_AUK_TP140_SO_0 100 1.00 SOIL	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668567	PRAIRIE_AUK_TP141_SO_0 200 2.00 SOIL	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668568	PRAIRIE_AUK_TP142_SO_0 090 0.90 SOIL	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668569	PRAIRIE_AUK_TP142_SO_0 150 1.50 SOIL	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668570	PRAIRIE_AUK_TP143_SO_0 080 0.80 SOIL	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		

Information in Support of the Analytical Results

20-07033,20-07070,20-07108,20-07266,20-07289,20-07308,20-07410,20-07470,20-07526,20-07617,20-07658,20-

Our Ref 07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-09146,20-09147,20-09149

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1668571	PRAIRIE_AUK_TP143_SO_0 160 1.60 SOIL	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
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 Our Ref 07758,20-07838,20-07839,20-07890,20-08118,20-08189,20-08381,20-09141,20-09144,20-09146,20-09147,20-09149
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Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1668572	PRAIRIE_AUK_TP151_SO_0 120 1.20 SOIL	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668573	PRAIRIE_AUK_TP140_SO_0 100 1.00 LEACHATE	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668574	PRAIRIE_AUK_TP141_SO_0 200 2.00 LEACHATE	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668575	PRAIRIE_AUK_TP142_SO_0 150 1.50 LEACHATE	23/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668657	PRAIRIE_AUK_TP139_SO_0 110 1.10 SOIL	16/04/20	No containers logged		
1668869	PRAIRIE_AUK_TP144_SO_0 080 0.80 SOIL	24/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1668870	PRAIRIE_AUK_TP144_SO_0 080 0.80 LEACHATE	24/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1669251	PRAIRIE_AUK_TP112_SO_0 210 2.10 SOIL	22/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1669252	PRAIRIE_AUK_TP112_SO_0 210 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_0 360 3.60 SOIL	28/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1670145	PRAIRIE_AUK_TP201_SO_0 360 3.60 LEACHATE	28/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		
1670502	PRAIRIE_AUK_TP193_SO_0 080 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		
1671486	PRAIRIE_AUK_BH103_GW_ 050520 WATER	05/05/20	GB 1L x3, GV, PB 1L		
1671487	PRAIRIE_AUK_BH104_GW_ 050520 WATER	05/05/20	GB 1L x3, GV, PB 1L		
1671488	PRAIRIE_AUK_BH105_GW_ 050520 WATER	05/05/20	GB 1L x3, GV, PB 1L		
1671489	PRAIRIE_AUK_BH107_GW_ 050520 WATER	05/05/20	GB 1L x3, GV, PB 1L		
1671490	PRAIRIE_AUK_BH109_GW_ 050520 WATER	05/05/20	GB 1L x3, GV, PB 1L		
1671899	PRAIRIE_AUK_BH101S_GW_ _060520 WATER	06/05/20	GB 1L x2, GV, PB 1L		
1671900	PRAIRIE_AUK_BH101D_GW_ _060520 WATER	06/05/20	GB 1L x2, GV, PB 1L		

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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		
1671902	PRAIRIE_AUK_BH108S_GW_060520 WATER	06/05/20	GB 1L x2, GV, PB 1L		
1671903	PRAIRIE_AUK_BH108D_GW_060520 WATER	06/05/20	GB 1L x2, GV, PB 1L		
1671904	PRAIRIE_AUK_BH110_GW_060520 WATER	06/05/20	GB 1L x2, GV, PB 1L		
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		
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		
1675451	PRAIRIE_AUK_BH107_SO_0300 3.00 SOIL	24/04/20	GJ 250ml x2, GJ 60ml x2, PT 1L x2		

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.

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Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425 μ m 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
DETS 3303	Acenaphthene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Acenaphthylene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Benzo(a)pyrene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Benzo(a)anthracene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Benzo(b)fluoranthene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Benzo(k)fluoranthene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Benzo(g,h,i)perylene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Dibenzo(a,h)anthracene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Fluoranthene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Indeno(1,2,3-c,d)pyrene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Naphthalene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Phenanthrene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Pyrene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3401	PCB 28 + PCB 31	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB 52	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB 101	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB 118	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB 153	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB 138	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB 180	mg/kg	0.01	As Received	No	Yes	Yes
DETS 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.



DETS

Certificate of Analysis

Certificate Number 20-12223-1

20-Jul-20

Client Allied Exploration & Geotechnics Limited
Unit 25
Stella Gill Industrial Estate
Pelton Fell
DH2 2RG

Our Reference 20-12223-1

Client Reference 4251

Order No (not supplied)

Contract Title Prairie Site Ground Investigation Works

Description 12 Water samples.

Date Received 06-Jul-20

Date Started 06-Jul-20

Date Completed 20-Jul-20

Test Procedures Identified by prefix DETSn (details on request).

Notes This report supersedes 20-12223, amendments.

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





Summary of Chemical Analysis

Water Samples

Our Ref 20-12223-1

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1694889	1694890
Sample ID	PRAIRIE_AUK_BH101S_G W_010720	PRAIRIE_AUK_BH101D_G W_010720
Depth	1.69-10.00	1.64-16.50
Other ID	300	300
Sample Type	EW	EW
Sampling Date	01/07/2020	01/07/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Metals					
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	6.9	3.1
Boron, Dissolved	DETSC 2306*	12	ug/l	570	430
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03
Calcium, Dissolved	DETSC 2306	0.09	mg/l	80	110
Chromium, Total	DETSC 2306*	0.25	ug/l	0.51	0.31
Copper, Dissolved	DETSC 2306	0.4	ug/l	< 0.4	0.4
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.21	< 0.09
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.03	0.02
Nickel, Dissolved	DETSC 2306	0.5	ug/l	4.6	3.3
Sodium, Dissolved	DETSC 2306	0.07	mg/l	210	270
Zinc, Dissolved	DETSC 2306	1.3	ug/l	31	270
Inorganics					
pH	DETSC 2008		pH	8.4	7.9
Cyanide, Total	DETSC 2130	40	ug/l	1400	1300
Cyanide, Free	DETSC 2130	20	ug/l	53	50
Thiocyanate	DETSC 2130	20	ug/l	280	340
Dissolved Organic Carbon	DETSC 2085	2	mg/l	8.9	9.0
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.95	1.1
Chloride	DETSC 2055	0.1	mg/l	200	210
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	%	0.9	1.2
Sulphate as SO4	DETSC 2055	0.1	mg/l	430	590
Sulphur (free)	DETSC 3049	84	ug/l	< 84	< 84
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	1.2	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	1.7	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	6.8	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	9.6	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	19	< 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



Summary of Chemical Analysis

Water Samples

Our Ref 20-12223-1

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1694889	1694890
Sample ID	PRAIRIE_AUK_BH101S_G W_010720	PRAIRIE_AUK_BH101D_G W_010720
Depth	1.69-10.00	1.64-16.50
Other ID	300	300
Sample Type	EW	EW
Sampling Date	01/07/2020	01/07/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
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	19	< 10



Summary of Chemical Analysis

Water Samples

Our Ref 20-12223-1

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1694889	1694890
Sample ID	PRAIRIE_AUK_BH101S_G W_010720	PRAIRIE_AUK_BH101D_G W_010720
Depth	1.69-10.00	1.64-16.50
Other ID	300	300
Sample Type	EW	EW
Sampling Date	01/07/2020	01/07/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
PAHs					
Naphthalene	DETSC 3304	0.05	ug/l	2.2	0.16
Acenaphthylene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Acenaphthene	DETSC 3304	0.01	ug/l	1.4	0.11
Fluorene	DETSC 3304	0.01	ug/l	0.05	0.05
Phenanthrene	DETSC 3304	0.01	ug/l	0.09	0.07
Anthracene	DETSC 3304	0.01	ug/l	0.04	0.03
Fluoranthene	DETSC 3304	0.01	ug/l	0.05	0.05
Pyrene	DETSC 3304	0.01	ug/l	0.06	0.05
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	< 0.01	0.02
Chrysene	DETSC 3304	0.01	ug/l	< 0.01	0.02
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	0.03
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	0.01
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	< 0.01	0.02
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	< 0.01	0.02
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	< 0.01	0.02
PAH Total	DETSC 3304	0.2	ug/l	3.9	0.66
Phenols					
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100

Summary of Chemical Analysis

Water Samples

Our Ref 20-12223-1

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1694891	1694892
Sample ID	PRAIRIE_AUK_BH102_GW_020720	PRAIRIE_AUK_BH103_GW_010720
Depth	0.90-7.20	1.92-8.50
Other ID	300	300
Sample Type	EW	EW
Sampling Date	02/07/2020	01/07/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Metals					
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	0.74	1.2
Boron, Dissolved	DETSC 2306*	12	ug/l	62	310
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	0.12	0.04
Calcium, Dissolved	DETSC 2306	0.09	mg/l	210	< 0.09
Chromium, Total	DETSC 2306*	0.25	ug/l	0.97	1.9
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.6	1.8
Lead, Dissolved	DETSC 2306	0.09	ug/l	< 0.09	< 0.09
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.17	0.13
Nickel, Dissolved	DETSC 2306	0.5	ug/l	8.3	0.6
Sodium, Dissolved	DETSC 2306	0.07	mg/l	550	530
Zinc, Dissolved	DETSC 2306	1.3	ug/l	2.8	4.9
Inorganics					
pH	DETSC 2008		pH	12.4	9.2
Cyanide, Total	DETSC 2130	40	ug/l	< 40	250
Cyanide, Free	DETSC 2130	20	ug/l	< 20	< 20
Thiocyanate	DETSC 2130	20	ug/l	160	< 20
Dissolved Organic Carbon	DETSC 2085	2	mg/l	13	7.3
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.86	0.35
Chloride	DETSC 2055	0.1	mg/l	45	59
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	%	2.9	0.5
Sulphate as SO4	DETSC 2055	0.1	mg/l	130	310
Sulphur (free)	DETSC 3049	84	ug/l	< 84	< 84
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



Summary of Chemical Analysis

Water Samples

Our Ref 20-12223-1

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1694891	1694892
Sample ID	PRAIRIE_AUK_BH102_GW_020720	PRAIRIE_AUK_BH103_GW_010720
Depth	0.90-7.20	1.92-8.50
Other ID	300	300
Sample Type	EW	EW
Sampling Date	02/07/2020	01/07/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
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



Summary of Chemical Analysis

Water Samples

Our Ref 20-12223-1

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1694891	1694892
Sample ID	PRAIRIE_AUK_BH102_GW_020720	PRAIRIE_AUK_BH103_GW_010720
Depth	0.90-7.20	1.92-8.50
Other ID	300	300
Sample Type	EW	EW
Sampling Date	02/07/2020	01/07/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
PAHs					
Naphthalene	DETSC 3304	0.05	ug/l	2.3	0.06
Acenaphthylene	DETSC 3304	0.01	ug/l	0.14	0.14
Acenaphthene	DETSC 3304	0.01	ug/l	8.0	0.35
Fluorene	DETSC 3304	0.01	ug/l	3.6	0.12
Phenanthrene	DETSC 3304	0.01	ug/l	4.8	0.08
Anthracene	DETSC 3304	0.01	ug/l	0.39	0.04
Fluoranthene	DETSC 3304	0.01	ug/l	0.42	0.21
Pyrene	DETSC 3304	0.01	ug/l	0.31	0.24
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.02	0.11
Chrysene	DETSC 3304	0.01	ug/l	0.02	0.12
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	0.15
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	0.06
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	< 0.01	0.10
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	< 0.01	0.08
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 0.01	0.02
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	< 0.01	0.09
PAH Total	DETSC 3304	0.2	ug/l	20	2.0
Phenols					
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100

Summary of Chemical Analysis

Water Samples

Our Ref 20-12223-1

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1694893	1694894
Sample ID	PRAIRIE_AUK_BH104_GW_020720	PRAIRIE_AUK_BH105_GW_020720
Depth	6.21-18.50	4.51-11.00
Other ID	300	300
Sample Type	EW	EW
Sampling Date	02/07/2020	02/07/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Metals					
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	0.81	2.1
Boron, Dissolved	DETSC 2306*	12	ug/l	240	290
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03
Calcium, Dissolved	DETSC 2306	0.09	mg/l	29	190
Chromium, Total	DETSC 2306*	0.25	ug/l	0.88	0.56
Copper, Dissolved	DETSC 2306	0.4	ug/l	2.0	< 0.4
Lead, Dissolved	DETSC 2306	0.09	ug/l	< 0.09	0.11
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.06	< 0.01
Nickel, Dissolved	DETSC 2306	0.5	ug/l	5.2	1.5
Sodium, Dissolved	DETSC 2306	0.07	mg/l	230	170
Zinc, Dissolved	DETSC 2306	1.3	ug/l	11	31
Inorganics					
pH	DETSC 2008		pH	8.0	7.7
Cyanide, Total	DETSC 2130	40	ug/l	< 40	< 40
Cyanide, Free	DETSC 2130	20	ug/l	< 20	< 20
Thiocyanate	DETSC 2130	20	ug/l	< 20	< 20
Dissolved Organic Carbon	DETSC 2085	2	mg/l	5.1	4.1
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.13	0.21
Chloride	DETSC 2055	0.1	mg/l	67	97
Nitrate as N	*	0.1	mg/l	1.2	< 0.10
Nitrite as N	DETSC 2201	0.035	mg/l	0.14	< 0.035
Salinity (Calculated)	DETSC 2017*	0.01	%	1.0	1.0
Sulphate as SO4	DETSC 2055	0.1	mg/l	750	620
Sulphur (free)	DETSC 3049	84	ug/l	< 84	< 84
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



Summary of Chemical Analysis

Water Samples

Our Ref 20-12223-1

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1694893	1694894
Sample ID	PRAIRIE_AUK_BH104_GW_020720	PRAIRIE_AUK_BH105_GW_020720
Depth	6.21-18.50	4.51-11.00
Other ID	300	300
Sample Type	EW	EW
Sampling Date	02/07/2020	02/07/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
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



Summary of Chemical Analysis

Water Samples

Our Ref 20-12223-1

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1694893	1694894
Sample ID	PRAIRIE_AUK_BH104_GW_020720	PRAIRIE_AUK_BH105_GW_020720
Depth	6.21-18.50	4.51-11.00
Other ID	300	300
Sample Type	EW	EW
Sampling Date	02/07/2020	02/07/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
PAHs					
Naphthalene	DETSC 3304	0.05	ug/l	< 0.05	0.06
Acenaphthylene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Acenaphthene	DETSC 3304	0.01	ug/l	0.01	0.03
Fluorene	DETSC 3304	0.01	ug/l	< 0.01	0.01
Phenanthrene	DETSC 3304	0.01	ug/l	0.02	0.03
Anthracene	DETSC 3304	0.01	ug/l	< 0.01	0.01
Fluoranthene	DETSC 3304	0.01	ug/l	0.01	0.01
Pyrene	DETSC 3304	0.01	ug/l	0.02	0.02
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	0.01	< 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	< 0.01	< 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	< 0.01	< 0.01
PAH Total	DETSC 3304	0.2	ug/l	< 0.20	0.21
Phenols					
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100

Summary of Chemical Analysis

Water Samples

Our Ref 20-12223-1

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1694895	1694896
Sample ID	PRAIRIE_AUK_BH106_GW _020720	PRAIRIE_AUK_BH107_GW _020720
Depth	3.28-10.00	3.12-8.00
Other ID	300	300
Sample Type	EW	EW
Sampling Date	02/07/2020	02/07/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Metals					
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	3.7	0.50
Boron, Dissolved	DETSC 2306*	12	ug/l	95	100
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	0.06
Calcium, Dissolved	DETSC 2306	0.09	mg/l	230	260
Chromium, Total	DETSC 2306*	0.25	ug/l	1.1	0.43
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.3	0.6
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.17	0.10
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.13	< 0.01
Nickel, Dissolved	DETSC 2306	0.5	ug/l	1.8	3.4
Sodium, Dissolved	DETSC 2306	0.07	mg/l	52	220
Zinc, Dissolved	DETSC 2306	1.3	ug/l	5.8	24
Inorganics					
pH	DETSC 2008		pH	8.7	7.5
Cyanide, Total	DETSC 2130	40	ug/l	< 40	110
Cyanide, Free	DETSC 2130	20	ug/l	< 20	< 20
Thiocyanate	DETSC 2130	20	ug/l	25	< 20
Dissolved Organic Carbon	DETSC 2085	2	mg/l	15	3.4
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	1.4	0.14
Chloride	DETSC 2055	0.1	mg/l	59	89
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	%	0.8	1.3
Sulphate as SO4	DETSC 2055	0.1	mg/l	680	770
Sulphur (free)	DETSC 3049	84	ug/l	< 84	< 84
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	13
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	45
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10	60
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



Summary of Chemical Analysis

Water Samples

Our Ref 20-12223-1

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1694895	1694896
Sample ID	PRAIRIE_AUK_BH106_GW_020720	PRAIRIE_AUK_BH107_GW_020720
Depth	3.28-10.00	3.12-8.00
Other ID	300	300
Sample Type	EW	EW
Sampling Date	02/07/2020	02/07/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
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	60



Summary of Chemical Analysis

Water Samples

Our Ref 20-12223-1

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1694895	1694896
Sample ID	PRAIRIE_AUK_BH106_GW_020720	PRAIRIE_AUK_BH107_GW_020720
Depth	3.28-10.00	3.12-8.00
Other ID	300	300
Sample Type	EW	EW
Sampling Date	02/07/2020	02/07/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
PAHs					
Naphthalene	DETSC 3304	0.05	ug/l	0.25	< 0.05
Acenaphthylene	DETSC 3304	0.01	ug/l	0.05	0.01
Acenaphthene	DETSC 3304	0.01	ug/l	0.09	0.02
Fluorene	DETSC 3304	0.01	ug/l	0.16	0.02
Phenanthrene	DETSC 3304	0.01	ug/l	0.16	0.03
Anthracene	DETSC 3304	0.01	ug/l	0.04	< 0.01
Fluoranthene	DETSC 3304	0.01	ug/l	0.06	0.02
Pyrene	DETSC 3304	0.01	ug/l	0.05	0.03
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.02	0.01
Chrysene	DETSC 3304	0.01	ug/l	0.02	0.01
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.01	< 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	0.01	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	0.01	< 0.01
PAH Total	DETSC 3304	0.2	ug/l	0.95	0.24
Phenols					
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100

Summary of Chemical Analysis

Water Samples

Our Ref 20-12223-1

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1694897	1694898
Sample ID	PRAIRIE_AUK_BH108S_G W_020720	PRAIRIE_AUK_BH108D_G W_020720
Depth	0.35-6.00	4.81-14.00
Other ID	300	300
Sample Type	EW	EW
Sampling Date	02/07/2020	02/07/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Metals					
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	0.71	0.60
Boron, Dissolved	DETSC 2306*	12	ug/l	270	480
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03
Calcium, Dissolved	DETSC 2306	0.09	mg/l	610	640
Chromium, Total	DETSC 2306*	0.25	ug/l	2.6	0.51
Copper, Dissolved	DETSC 2306	0.4	ug/l	0.7	< 0.4
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.21	< 0.09
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	< 0.01
Nickel, Dissolved	DETSC 2306	0.5	ug/l	5.3	2.5
Sodium, Dissolved	DETSC 2306	0.07	mg/l	160	190
Zinc, Dissolved	DETSC 2306	1.3	ug/l	33	2.7
Inorganics					
pH	DETSC 2008		pH	7.6	7.3
Cyanide, Total	DETSC 2130	40	ug/l	< 40	< 40
Cyanide, Free	DETSC 2130	20	ug/l	< 20	< 20
Thiocyanate	DETSC 2130	20	ug/l	< 20	< 20
Dissolved Organic Carbon	DETSC 2085	2	mg/l	5.2	< 2.0
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.19	0.21
Chloride	DETSC 2055	0.1	mg/l	90	220
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	%	1.5	2.0
Sulphate as SO4	DETSC 2055	0.1	mg/l	1300	1800
Sulphur (free)	DETSC 3049	84	ug/l	< 84	< 84
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	2.9	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	27	13
Aliphatic C21-C35	DETSC 3072*	1	ug/l	31	8.2
Aliphatic C5-C35	DETSC 3072*	10	ug/l	62	23
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



Summary of Chemical Analysis

Water Samples

Our Ref 20-12223-1

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1694897	1694898
	PRAIRIE_AUK_BH108S_G	PRAIRIE_AUK_BH108D_G
Sample ID	W_020720	W_020720
Depth	0.35-6.00	4.81-14.00
Other ID	300	300
Sample Type	EW	EW
Sampling Date	02/07/2020	02/07/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
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	62	23



Summary of Chemical Analysis

Water Samples

Our Ref 20-12223-1

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1694897	1694898
Sample ID	PRAIRIE_AUK_BH108S_G W_020720	PRAIRIE_AUK_BH108D_G W_020720
Depth	0.35-6.00	4.81-14.00
Other ID	300	300
Sample Type	EW	EW
Sampling Date	02/07/2020	02/07/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
PAHs					
Naphthalene	DETSC 3304	0.05	ug/l	0.08	0.08
Acenaphthylene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Acenaphthene	DETSC 3304	0.01	ug/l	0.01	0.02
Fluorene	DETSC 3304	0.01	ug/l	< 0.01	0.01
Phenanthrene	DETSC 3304	0.01	ug/l	0.01	0.02
Anthracene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Fluoranthene	DETSC 3304	0.01	ug/l	0.01	0.01
Pyrene	DETSC 3304	0.01	ug/l	0.01	0.02
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	< 0.01	< 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	< 0.01	< 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	< 0.01	< 0.01
PAH Total	DETSC 3304	0.2	ug/l	< 0.20	< 0.20
Phenols					
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100

Summary of Chemical Analysis

Water Samples

Our Ref 20-12223-1

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1694899	1694900
Sample ID	PRAIRIE_AUK_BH109_GW_020720	PRAIRIE_AUK_BH110_GW_020720
Depth	6.72-11.80	3.87-20.80
Other ID	300	300
Sample Type	EW	EW
Sampling Date	02/07/2020	02/07/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Metals					
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	6.4	2.7
Boron, Dissolved	DETSC 2306*	12	ug/l	70	800
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	0.03	< 0.03
Calcium, Dissolved	DETSC 2306	0.09	mg/l	540	61
Chromium, Total	DETSC 2306*	0.25	ug/l	1.3	1.4
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.7	0.7
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.33	< 0.09
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	0.03
Nickel, Dissolved	DETSC 2306	0.5	ug/l	28	< 0.5
Sodium, Dissolved	DETSC 2306	0.07	mg/l	350	950
Zinc, Dissolved	DETSC 2306	1.3	ug/l	19	< 1.3
Inorganics					
pH	DETSC 2008		pH	7.0	7.5
Cyanide, Total	DETSC 2130	40	ug/l	< 40	1400
Cyanide, Free	DETSC 2130	20	ug/l	< 20	56
Thiocyanate	DETSC 2130	20	ug/l	43	< 20
Dissolved Organic Carbon	DETSC 2085	2	mg/l	6.1	11
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.45	0.13
Chloride	DETSC 2055	0.1	mg/l	860	750
Nitrate as N	*	0.1	mg/l	< 0.10	0.89
Nitrite as N	DETSC 2201	0.035	mg/l	< 0.035	0.17
Salinity (Calculated)	DETSC 2017*	0.01	%	2.7	2.7
Sulphate as SO4	DETSC 2055	0.1	mg/l	120	1300
Sulphur (free)	DETSC 3049	84	ug/l	< 84	< 84
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	62	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	220	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	3.5	< 1.0



Summary of Chemical Analysis

Water Samples

Our Ref 20-12223-1

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1694899	1694900
Sample ID	PRAIRIE_AUK_BH109_GW_020720	PRAIRIE_AUK_BH110_GW_020720
Depth	6.72-11.80	3.87-20.80
Other ID	300	300
Sample Type	EW	EW
Sampling Date	02/07/2020	02/07/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	280	< 10
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	280	< 10



Summary of Chemical Analysis

Water Samples

Our Ref 20-12223-1

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1694899	1694900
Sample ID	PRAIRIE_AUK_BH109_GW_020720	PRAIRIE_AUK_BH110_GW_020720
Depth	6.72-11.80	3.87-20.80
Other ID	300	300
Sample Type	EW	EW
Sampling Date	02/07/2020	02/07/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
PAHs					
Naphthalene	DETSC 3304	0.05	ug/l	0.08	< 0.05
Acenaphthylene	DETSC 3304	0.01	ug/l	13	0.17
Acenaphthene	DETSC 3304	0.01	ug/l	170	8.4
Fluorene	DETSC 3304	0.01	ug/l	29	0.76
Phenanthrene	DETSC 3304	0.01	ug/l	0.06	0.04
Anthracene	DETSC 3304	0.01	ug/l	1.4	0.04
Fluoranthene	DETSC 3304	0.01	ug/l	0.54	0.02
Pyrene	DETSC 3304	0.01	ug/l	0.32	0.02
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.05	< 0.01
Chrysene	DETSC 3304	0.01	ug/l	0.05	< 0.01
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.03	< 0.01
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	0.01	< 0.01
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	0.03	< 0.01
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	0.01	< 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	0.02	< 0.01
PAH Total	DETSC 3304	0.2	ug/l	210	9.5
Phenols					
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100

Information in Support of the Analytical Results

Our Ref 20-12223-1

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	Headspace in container for tests
1694889	PRAIRIE_AUK_BH101S _GW_010720 1.69-10.00 WATER	01/07/20	GB 1L, GV, PB 1L, PU			
1694890	PRAIRIE_AUK_BH101D _GW_010720 1.64-16.50 WATER	01/07/20	GB 1L, GV, PB 1L, PU			
1694891	PRAIRIE_AUK_BH102_ GW_020720 0.90-7.20 WATER	02/07/20	GB 1L, GV, PB 1L, PU			
1694892	PRAIRIE_AUK_BH103_ GW_010720 1.92-8.50 WATER	01/07/20	GB 1L, GV, PB 1L, PU			
1694893	PRAIRIE_AUK_BH104_ GW_020720 6.21-18.50 WATER	02/07/20	GB 1L, GV, PB 1L, PU			
1694894	PRAIRIE_AUK_BH105_ GW_020720 4.51-11.00 WATER	02/07/20	GB 1L, GV, PB 1L, PU			
1694895	PRAIRIE_AUK_BH106_ GW_020720 3.28-10.00 WATER	02/07/20	GB 1L, GV, PB 1L, PU			
1694896	PRAIRIE_AUK_BH107_ GW_020720 3.12-8.00 WATER	02/07/20	GB 1L, GV, PB 1L, PU			
1694897	PRAIRIE_AUK_BH108S _GW_020720 0.35-6.00 WATER	02/07/20	GB 1L, GV, PB 1L, PU			
1694898	PRAIRIE_AUK_BH108D _GW_020720 4.81-14.00 WATER	02/07/20	GB 1L, GV, PB 1L, PU			
1694899	PRAIRIE_AUK_BH109_ GW_020720 6.72-11.80 WATER	02/07/20	GB 1L, GV, PB 1L, PU			
1694900	PRAIRIE_AUK_BH110_ GW_020720 3.87-20.80 WATER	02/07/20	GB 1L, GV, PB 1L, PU			

Key: G-Glass P-Plastic B-Bottle V-Vial U-Tube

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.

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



DETS

Certificate of Analysis

Certificate Number 20-11109-1

09-Jul-20

Client Allied Exploration & Geotechnics Limited
Unit 25
Stella Gill Industrial Estate
Pelton Fell
DH2 2RG

Our Reference 20-11109-1

Client Reference 4251

Order No (not supplied)

Contract Title Prairie Site Ground Investigation Works

Description 12 Water samples.

Date Received 23-Jun-20

Date Started 23-Jun-20

Date Completed 09-Jul-20

Test Procedures Identified by prefix DETSn (details on request).

Notes This report supersedes 20-11109, amendments.

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



Summary of Chemical Analysis

Water Samples

Our Ref 20-11109-1

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1688245	1688246	1688247
Sample ID	PRAIRIE_AUK_BH 101S_GW_	PRAIRIE_AUK_BH 101D_GW_	PRAIRIE_AUK_B H102_GW_
Depth			
Other ID	200	200	200
Sample Type	EW	EW	EW
Sampling Date	17/06/2020	17/06/2020	18/06/2020
Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
Metals						
Aluminium, Dissolved	DETSC 2306	10	ug/l	23	39	23
Antimony, Dissolved	DETSC 2306	0.17	ug/l	1.3	1.1	< 0.17
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	5.7	2.9	0.72
Barium, Dissolved	DETSC 2306	0.26	ug/l	18	49	930
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1	< 0.1	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	380	370	18
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03	< 0.03
Calcium, Dissolved	DETSC 2306	0.09	mg/l	49	160	630
Chromium, Total	DETSC 2306*	0.25	ug/l	6.1	1.1	14
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0	< 7.0	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	0.6	0.8	0.5
Iron, Dissolved	DETSC 2306	5.5	ug/l	1500	630	19
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.11	0.20	1.0
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	7.7	28	0.28
Manganese, Dissolved	DETSC 2306	0.22	ug/l	380	470	13
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.02	0.01	0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	140	67	16
Nickel, Dissolved	DETSC 2306	0.5	ug/l	12	4.6	4.4
Sodium, Dissolved	DETSC 2306	0.07	mg/l	190	320	33
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	1.6	< 0.6	2.3
Zinc, Dissolved	DETSC 2306	1.3	ug/l	2.4	4.3	2.1
Inorganics						
pH	DETSC 2008		pH	7.6	7.5	12.3
Cyanide, Total	DETSC 2130	40	ug/l	3000	1200	< 40
Cyanide, Free	DETSC 2130	20	ug/l	73	38	< 20
Thiocyanate	DETSC 2130	20	ug/l	470	270	170
Dissolved Organic Carbon	DETSC 2085	2	mg/l	15	8.7	10
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	1.8	1.2	0.55
Chloride	DETSC 2055	0.1	mg/l	210	260	84
Nitrate as N	*	0.1	mg/l	0.14	0.11	< 0.10
Nitrite as N	DETSC 2201	0.035	mg/l	< 0.035	< 0.035	< 0.035
Salinity (Calculated)	DETSC 2017*	0.01	%	1.0	1.4	4.1
Silicate as SiO2	DETSC 2211*	0.1	mg/l	5.5	7.0	1.4
Sulphate as SO4	DETSC 2055	0.1	mg/l	540	800	190
Sulphur (free)	DETSC 3049	84	ug/l	< 84	< 84	< 84



Summary of Chemical Analysis

Water Samples

Our Ref 20-11109-1

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1688245	1688246	1688247
Sample ID	PRAIRIE_AUK_BH 101S_GW_	PRAIRIE_AUK_BH 101D_GW_	PRAIRIE_AUK_B H102_GW_
Depth			
Other ID	200	200	200
Sample Type	EW	EW	EW
Sampling Date	17/06/2020	17/06/2020	18/06/2020
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	2.8
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	4.9
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
PAHs						
Naphthalene	DETSC 3304	0.05	ug/l	0.09	0.09	22
Acenaphthylene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	0.31
Acenaphthene	DETSC 3304	0.01	ug/l	0.14	0.03	17
Fluorene	DETSC 3304	0.01	ug/l	0.04	0.01	7.5
Phenanthrene	DETSC 3304	0.01	ug/l	0.08	0.04	9.4
Anthracene	DETSC 3304	0.01	ug/l	0.04	0.03	0.43
Fluoranthene	DETSC 3304	0.01	ug/l	0.06	0.03	0.48
Pyrene	DETSC 3304	0.01	ug/l	0.06	0.03	0.35
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	0.02
Chrysene	DETSC 3304	0.01	ug/l	0.01	< 0.01	0.03
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	0.01
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 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	< 0.01	< 0.01	< 0.01
PAH Total	DETSC 3304	0.2	ug/l	0.55	0.27	57
Phenols						
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100	< 100

Summary of Chemical Analysis

Water Samples

Our Ref 20-11109-1

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1688248	1688249	1688250
Sample ID	PRAIRIE_AUK_B H103_GW_	PRAIRIE_AUK_B H104_GW_	PRAIRIE_AUK_B H105_GW_
Depth			
Other ID	200	200	200
Sample Type	EW	EW	EW
Sampling Date	17/06/2020	17/06/2020	18/06/2020
Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
Metals						
Aluminium, Dissolved	DETSC 2306	10	ug/l	47	61	360
Antimony, Dissolved	DETSC 2306	0.17	ug/l	1.2	0.93	0.22
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	4.7	2.4	2.0
Barium, Dissolved	DETSC 2306	0.26	ug/l	57	35	46
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1	< 0.1	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	240	240	210
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	0.04	< 0.03
Calcium, Dissolved	DETSC 2306	0.09	mg/l	220	330	200
Chromium, Total	DETSC 2306*	0.25	ug/l	15	2.0	1.1
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0	< 7.0	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.2	4.7	< 0.4
Iron, Dissolved	DETSC 2306	5.5	ug/l	210	48	650
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.52	0.27	0.45
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	23	44	33
Manganese, Dissolved	DETSC 2306	0.22	ug/l	520	1200	650
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.05	< 0.01	< 0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	29	11	6.0
Nickel, Dissolved	DETSC 2306	0.5	ug/l	2.8	1.8	0.9
Sodium, Dissolved	DETSC 2306	0.07	mg/l	60	48	130
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	21	5.2	0.9
Zinc, Dissolved	DETSC 2306	1.3	ug/l	2.1	4.7	1.6
Inorganics						
pH	DETSC 2008		pH	8.0	7.6	7.4
Cyanide, Total	DETSC 2130	40	ug/l	220	43	< 40
Cyanide, Free	DETSC 2130	20	ug/l	24	< 20	< 20
Thiocyanate	DETSC 2130	20	ug/l	< 20	< 20	< 20
Dissolved Organic Carbon	DETSC 2085	2	mg/l	6.9	6.9	4.2
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.37	0.11	0.15
Chloride	DETSC 2055	0.1	mg/l	120	38	100
Nitrate as N	*	0.1	mg/l	0.12	3.8	0.14
Nitrite as N	DETSC 2201	0.035	mg/l	< 0.035	0.24	< 0.035
Salinity (Calculated)	DETSC 2017*	0.01	%	0.9	1.1	1.1
Silicate as SiO2	DETSC 2211*	0.1	mg/l	9.4	9.2	14
Sulphate as SO4	DETSC 2055	0.1	mg/l	580	1000	640
Sulphur (free)	DETSC 3049	84	ug/l	< 84	< 84	< 84



Summary of Chemical Analysis

Water Samples

Our Ref 20-11109-1

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1688248	1688249	1688250
Sample ID	PRAIRIE_AUK_B H103_GW_	PRAIRIE_AUK_B H104_GW_	PRAIRIE_AUK_B H105_GW_
Depth			
Other ID	200	200	200
Sample Type	EW	EW	EW
Sampling Date	17/06/2020	17/06/2020	18/06/2020
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
PAHs						
Naphthalene	DETSC 3304	0.05	ug/l	< 0.05	< 0.05	0.05
Acenaphthylene	DETSC 3304	0.01	ug/l	0.16	< 0.01	< 0.01
Acenaphthene	DETSC 3304	0.01	ug/l	0.48	< 0.01	0.02
Fluorene	DETSC 3304	0.01	ug/l	0.13	< 0.01	< 0.01
Phenanthrene	DETSC 3304	0.01	ug/l	0.02	0.01	0.02
Anthracene	DETSC 3304	0.01	ug/l	0.05	0.02	0.01
Fluoranthene	DETSC 3304	0.01	ug/l	0.11	< 0.01	0.01
Pyrene	DETSC 3304	0.01	ug/l	0.10	< 0.01	0.01
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.03	< 0.01	< 0.01
Chrysene	DETSC 3304	0.01	ug/l	0.03	< 0.01	< 0.01
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.02	< 0.01	< 0.01
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	0.01	< 0.01	< 0.01
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 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	0.01	< 0.01	< 0.01
PAH Total	DETSC 3304	0.2	ug/l	1.2	< 0.20	< 0.20
Phenols						
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100	< 100

Summary of Chemical Analysis

Water Samples

Our Ref 20-11109-1

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1688251	1688252	1688253
Sample ID	PRAIRIE_AUK_B H106_GW_	PRAIRIE_AUK_B H107_GW_	PRAIRIE_AUK_BH1 08S_GW_
Depth			
Other ID	200	200	200
Sample Type	EW	EW	EW
Sampling Date	17/06/2020	19/06/2020	18/06/2020
Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
Metals						
Aluminium, Dissolved	DETSC 2306	10	ug/l	29	18	12
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.87	0.61	0.19
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	2.9	0.53	0.66
Barium, Dissolved	DETSC 2306	0.26	ug/l	120	0.98	46
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1	< 0.1	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	120	150	320
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03	< 0.03
Calcium, Dissolved	DETSC 2306	0.09	mg/l	200	0.46	620
Chromium, Total	DETSC 2306*	0.25	ug/l	11	0.51	8.7
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0	< 7.0	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.3	< 0.4	< 0.4
Iron, Dissolved	DETSC 2306	5.5	ug/l	45	69	290
Lead, Dissolved	DETSC 2306	0.09	ug/l	< 0.09	< 0.09	0.09
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	49	0.23	110
Manganese, Dissolved	DETSC 2306	0.22	ug/l	320	1.7	1300
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.05	0.04	< 0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	19	25	3.5
Nickel, Dissolved	DETSC 2306	0.5	ug/l	1.5	< 0.5	3.2
Sodium, Dissolved	DETSC 2306	0.07	mg/l	35	980	110
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	8.0	0.7	< 0.6
Zinc, Dissolved	DETSC 2306	1.3	ug/l	1.5	< 1.3	3.0
Inorganics						
pH	DETSC 2008		pH	7.7	7.0	7.3
Cyanide, Total	DETSC 2130	40	ug/l	< 40	95	< 40
Cyanide, Free	DETSC 2130	20	ug/l	< 20	< 20	< 20
Thiocyanate	DETSC 2130	20	ug/l	< 20	< 20	< 20
Dissolved Organic Carbon	DETSC 2085	2	mg/l	14	3.8	3.6
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	1.2	0.029	0.046
Chloride	DETSC 2055	0.1	mg/l	57	130	86
Nitrate as N	*	0.1	mg/l	0.44	0.12	0.11
Nitrite as N	DETSC 2201	0.035	mg/l	3.4	< 0.035	< 0.035
Salinity (Calculated)	DETSC 2017*	0.01	%	0.8	1.5	1.6
Silicate as SiO2	DETSC 2211*	0.1	mg/l	6.1	11	8.2
Sulphate as SO4	DETSC 2055	0.1	mg/l	740	1000	1800
Sulphur (free)	DETSC 3049	84	ug/l	< 84	< 84	< 84



Summary of Chemical Analysis

Water Samples

Our Ref 20-11109-1

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1688251	1688252	1688253
Sample ID	PRAIRIE_AUK_B H106_GW_	PRAIRIE_AUK_B H107_GW_	PRAIRIE_AUK_BH1 08S_GW_
Depth			
Other ID	200	200	200
Sample Type	EW	EW	EW
Sampling Date	17/06/2020	19/06/2020	18/06/2020
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
PAHs						
Naphthalene	DETSC 3304	0.05	ug/l	0.06	< 0.05	< 0.05
Acenaphthylene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 0.01
Acenaphthene	DETSC 3304	0.01	ug/l	0.03	< 0.01	0.01
Fluorene	DETSC 3304	0.01	ug/l	0.01	< 0.01	< 0.01
Phenanthrene	DETSC 3304	0.01	ug/l	0.02	0.02	0.02
Anthracene	DETSC 3304	0.01	ug/l	0.02	< 0.01	< 0.01
Fluoranthene	DETSC 3304	0.01	ug/l	0.02	0.01	0.05
Pyrene	DETSC 3304	0.01	ug/l	0.02	0.02	0.05
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	0.03
Chrysene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	0.03
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	0.04
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	0.02
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	0.02
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	< 0.01	< 0.01	0.02
PAH Total	DETSC 3304	0.2	ug/l	< 0.20	< 0.20	0.37
Phenols						
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100	< 100

Summary of Chemical Analysis

Water Samples

Our Ref 20-11109-1

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1688254	1688255	1688256
Sample ID	PRAIRIE_AUK_BH1 08D_GW_	PRAIRIE_AUK_B H109_GW_	PRAIRIE_AUK_B H110_GW_
Depth			
Other ID	200	200	200
Sample Type	EW	EW	EW
Sampling Date	18/06/2020	19/06/2020	19/06/2020
Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
Metals						
Aluminium, Dissolved	DETSC 2306	10	ug/l	< 10	< 10	11
Antimony, Dissolved	DETSC 2306	0.17	ug/l	< 0.17	0.19	1.5
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	0.55	0.33	3.7
Barium, Dissolved	DETSC 2306	0.26	ug/l	32	23	49
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1	< 0.1	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	420	30	740
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03	0.31
Calcium, Dissolved	DETSC 2306	0.09	mg/l	650	9.4	480
Chromium, Total	DETSC 2306*	0.25	ug/l	0.75	2.5	2.5
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0	< 7.0	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	< 0.4	< 0.4	5.4
Iron, Dissolved	DETSC 2306	5.5	ug/l	240	11	910
Lead, Dissolved	DETSC 2306	0.09	ug/l	< 0.09	< 0.09	0.18
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	120	45	88
Manganese, Dissolved	DETSC 2306	0.22	ug/l	910	6.7	770
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	< 0.01	0.02
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	1.9	1.5	20
Nickel, Dissolved	DETSC 2306	0.5	ug/l	2.3	< 0.5	2.5
Sodium, Dissolved	DETSC 2306	0.07	mg/l	140	1100	420
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	< 0.6	< 0.6	1.7
Zinc, Dissolved	DETSC 2306	1.3	ug/l	3.9	< 1.3	12
Inorganics						
pH	DETSC 2008		pH	7.1	7.0	7.6
Cyanide, Total	DETSC 2130	40	ug/l	< 40	< 40	1700
Cyanide, Free	DETSC 2130	20	ug/l	< 20	< 20	240
Thiocyanate	DETSC 2130	20	ug/l	< 20	57	< 20
Dissolved Organic Carbon	DETSC 2085	2	mg/l	< 2.0	6.0	11
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.19	0.55	0.26
Chloride	DETSC 2055	0.1	mg/l	200	2400	780
Nitrate as N	*	0.1	mg/l	0.11	0.14	3.5
Nitrite as N	DETSC 2201	0.035	mg/l	< 0.035	< 0.035	0.70
Salinity (Calculated)	DETSC 2017*	0.01	%	2.0	3.7	2.6
Silicate as SiO2	DETSC 2211*	0.1	mg/l	9.5	17	12
Sulphate as SO4	DETSC 2055	0.1	mg/l	1800	230	1500
Sulphur (free)	DETSC 3049	84	ug/l	< 84	< 84	< 84

Summary of Chemical Analysis

Water Samples

Our Ref 20-11109-1

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1688254	1688255	1688256
Sample ID	PRAIRIE_AUK_BH1 08D_GW_	PRAIRIE_AUK_B H109_GW_	PRAIRIE_AUK_B H110_GW_
Depth			
Other ID	200	200	200
Sample Type	EW	EW	EW
Sampling Date	18/06/2020	19/06/2020	19/06/2020
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	1.1	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	1.1	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	4.9	< 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	190	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	230	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	6.9	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	1.2	10
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10	430	10
TPH Ali/Aro Total	DETSC 3072*	10	ug/l	< 10	440	10
PAHs						
Naphthalene	DETSC 3304	0.05	ug/l	< 0.05	190	< 0.05
Acenaphthylene	DETSC 3304	0.01	ug/l	< 0.01	6.4	< 0.01
Acenaphthene	DETSC 3304	0.01	ug/l	< 0.01	290	0.01
Fluorene	DETSC 3304	0.01	ug/l	< 0.01	56	< 0.01
Phenanthrene	DETSC 3304	0.01	ug/l	0.01	0.83	0.01
Anthracene	DETSC 3304	0.01	ug/l	< 0.01	3.9	0.03
Fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	3.0	< 0.01
Pyrene	DETSC 3304	0.01	ug/l	< 0.01	1.9	< 0.01
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	< 0.01	0.36	< 0.01
Chrysene	DETSC 3304	0.01	ug/l	< 0.01	0.35	< 0.01
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	0.32	< 0.01
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	0.14	< 0.01
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	< 0.01	0.25	< 0.01
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	< 0.01	0.14	< 0.01
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 0.01	0.05	< 0.01
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	< 0.01	0.15	< 0.01
PAH Total	DETSC 3304	0.2	ug/l	< 0.20	550	< 0.20
Phenols						
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100	< 100

Information in Support of the Analytical Results

Our Ref 20-11109-1

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	Headspace in container for tests
1688245	PRAIRIE_AUK_BH101S_GW_WATER	17/06/20	GB 1L x2, GV, PB 1L, P(other)			
1688246	PRAIRIE_AUK_BH101D_GW_WATER	17/06/20	GB 1L x2, GV, PB 1L, P(other)			
1688247	PRAIRIE_AUK_BH102_GW_WATER	18/06/20	GB 1L x2, GV, PB 1L, P(other)			
1688248	PRAIRIE_AUK_BH103_GW_WATER	17/06/20	GB 1L x2, GV, PB 1L, P(other)			
1688249	PRAIRIE_AUK_BH104_GW_WATER	17/06/20	GB 1L x2, GV, PB 1L, P(other)			
1688250	PRAIRIE_AUK_BH105_GW_WATER	18/06/20	GB 1L x2, GV, PB 1L, P(other)			
1688251	PRAIRIE_AUK_BH106_GW_WATER	17/06/20	GB 1L x2, GV, PB 1L, P(other)			
1688252	PRAIRIE_AUK_BH107_GW_WATER	19/06/20	GB 1L x2, GV, PB 1L			

Information in Support of the Analytical Results

Our Ref 20-11109-1

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	Headspace in container for tests
1688253	PRAIRIE_AUK_BH108S_GW_WATER	18/06/20	GB 1L x2, GV, PB 1L, P(other)			
1688254	PRAIRIE_AUK_BH108D_GW_WATER	18/06/20	GB 1L x2, GV, PB 1L, P(other)			
1688255	PRAIRIE_AUK_BH109_GW_WATER	19/06/20	GB 1L x2, GV, PB 1L			
1688256	PRAIRIE_AUK_BH110_GW_WATER	19/06/20	GB 1L x2, GV, PB 1L, P(other)			

Key: G-Glass P-Plastic 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.

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



DETS

Certificate of Analysis

Certificate Number 20-10649

02-Jul-20

Client Allied Exploration & Geotechnics Limited
Unit 25
Stella Gill Industrial Estate
Pelton Fell
DH2 2RG

Our Reference 20-10649

Client Reference 4251

Order No (not supplied)

Contract Title Prairie Site Ground Investigation Works

Description 2 Water samples.

Date Received 17-Jun-20

Date Started 17-Jun-20

Date Completed 02-Jul-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



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Summary of Chemical Analysis

Water Samples

Our Ref 20-10649

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1685108	1685109
Sample ID	PRAIRIE_AUK_HBSW1_GW_1 50620	PRAIRIE_AUK_HBSW2_GW_1 50620
Depth		
Other ID	1	1
Sample Type	EW	EW
Sampling Date	15/06/2020	15/06/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Metals					
Aluminium, Dissolved	DETSC 2306	10	ug/l	15	35
Antimony, Dissolved	DETSC 2306	0.17	ug/l	0.33	0.42
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	4.4	4.6
Barium, Dissolved	DETSC 2306	0.26	ug/l	42	41
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	260	270
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03
Chromium, Total	DETSC 2306*	0.25	ug/l	5.2	2.4
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	2.0	2.0
Iron, Dissolved	DETSC 2306	5.5	ug/l	10	25
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.13	< 0.09
Magnesium, Dissolved	DETSC 2306	0.02	mg/l	63	65
Manganese, Dissolved	DETSC 2306	0.22	ug/l	70	52
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	< 0.01
Molybdenum, Dissolved	DETSC 2306	1.1	ug/l	1.9	2.0
Nickel, Dissolved	DETSC 2306	0.5	ug/l	1.9	3.6
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	1.5	2.5
Zinc, Dissolved	DETSC 2306	1.3	ug/l	4.1	3.6
Inorganics					
pH	DETSC 2008		pH	7.8	8.0
Cyanide, Total	DETSC 2130	40	ug/l	< 40	< 40
Cyanide, Free	DETSC 2130	20	ug/l	< 20	< 20
Thiocyanate	DETSC 2130	20	ug/l	< 20	< 20
Ammoniacal Nitrogen as N	DETSC 2207	0.015	mg/l	0.11	< 0.015
Silicate as SiO2	DETSC 2211*	0.1	mg/l	12	12
Sulphate as SO4	DETSC 2055	0.1	mg/l	680	760
Sulphur (free)	DETSC 3049	84	ug/l	< 84	< 84

Summary of Chemical Analysis

Water Samples

Our Ref 20-10649

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1685108	1685109
Sample ID	PRAIRIE_AUK_HBSW1_GW_1 50620	PRAIRIE_AUK_HBSW2_GW_1 50620
Depth		
Other ID	1	1
Sample Type	EW	EW
Sampling Date	15/06/2020	15/06/2020
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
PAHs					
Naphthalene	DETSC 3304	0.05	ug/l	< 0.05	< 0.05
Acenaphthylene	DETSC 3304	0.01	ug/l	< 0.01	0.02
Acenaphthene	DETSC 3304	0.01	ug/l	0.02	0.03
Fluorene	DETSC 3304	0.01	ug/l	0.01	< 0.01
Phenanthrene	DETSC 3304	0.01	ug/l	0.04	< 0.01
Anthracene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Fluoranthene	DETSC 3304	0.01	ug/l	0.05	0.02
Pyrene	DETSC 3304	0.01	ug/l	0.04	0.02
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	0.01	< 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	< 0.01	< 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	0.01	< 0.01
PAH Total	DETSC 3304	0.2	ug/l	0.26	< 0.20

Summary of Chemical Analysis

Water Samples

Our Ref 20-10649

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1685108	1685109
Sample ID	PRAIRIE_AUK_HBSW1_GW_1 50620	PRAIRIE_AUK_HBSW2_GW_1 50620
Depth		
Other ID	1	1
Sample Type	EW	EW
Sampling Date	15/06/2020	15/06/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Phenols					
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100
VOCs					
Dichlorodifluoromethane	DETSC 3432	1	ug/l	< 1	< 1
Chloromethane	DETSC 3432	1	ug/l	< 1	< 1
Vinyl Chloride	DETSC 3432	1	ug/l	< 1	< 1
Bromomethane	DETSC 3432	1	ug/l	< 1	< 1
Chloroethane	DETSC 3432	1	ug/l	< 1	< 1
Trichlorofluoromethane	DETSC 3432*	1	ug/l	< 1	< 1
1,1-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
Methylene Chloride	DETSC 3432*	27	ug/l	< 27	< 27
Trans-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
1,1-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Cis-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
2,2-dichloropropane	DETSC 3432	2	ug/l	< 2	< 2
Bromochloromethane	DETSC 3432	4	ug/l	< 4	< 4
Chloroform	DETSC 3432	1	ug/l	< 1	< 1
1,1,1-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1
1,1-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
Carbon tetrachloride	DETSC 3432	1	ug/l	< 1	< 1
Benzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Trichloroethylene	DETSC 3432*	1	ug/l	< 1	< 1
1,2-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1
Dibromomethane	DETSC 3432	1	ug/l	< 1	< 1
Bromodichloromethane	DETSC 3432	4	ug/l	< 4	< 4
cis-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
Toluene	DETSC 3432	1	ug/l	1	1
trans-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
1,1,2-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Tetrachloroethylene	DETSC 3432	1	ug/l	< 1	< 1
1,3-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1
Dibromochloromethane	DETSC 3432	1	ug/l	< 1	< 1
1,2-dibromoethane	DETSC 3432	1	ug/l	< 1	< 1
Chlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
1,1,1,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1
Ethylbenzene	DETSC 3432	1	ug/l	< 1	< 1



Summary of Chemical Analysis

Water Samples

Our Ref 20-10649

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1685108	1685109
Sample ID	PRAIRIE_AUK_HBSW1_GW_1 50620	PRAIRIE_AUK_HBSW2_GW_1 50620
Depth		
Other ID	1	1
Sample Type	EW	EW
Sampling Date	15/06/2020	15/06/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
m+p-Xylene	DETSC 3432	2	ug/l	< 2	< 2
o-Xylene	DETSC 3432	1	ug/l	< 1	< 1
Styrene	DETSC 3432	1	ug/l	< 1	< 1
Bromoform	DETSC 3432	1	ug/l	< 1	< 1
Isopropylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,1,2,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1
Bromobenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2,3-trichloropropane	DETSC 3432	1	ug/l	< 1	< 1
n-propylbenzene	DETSC 3432	1	ug/l	< 1	< 1
2-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1
1,3,5-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
4-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1
Tert-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2,4-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
sec-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
p-isopropyltoluene	DETSC 3432	1	ug/l	< 1	< 1
1,3-dichlorobenzene	DETSC 3432	2	ug/l	< 2	< 2
1,4-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
n-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dibromo-3-chloropropane	DETSC 3432	1	ug/l	< 1	< 1
1,2,4-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
Hexachlorobutadiene	DETSC 3432	1	ug/l	< 1	< 1
1,2,3-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
MTBE	DETSC 3432*	1	ug/l	< 1	< 1
SVOCs					
Phenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Aniline	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2-Chlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Benzyl Alcohol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2-Methylphenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Bis(2-chloroisopropyl)ether	DETSC 3434*	1	ug/l	< 1.0	< 1.0
3&4-Methylphenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Bis(2-chloroethoxy)methane	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,4-Dimethylphenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,4-Dichlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
1,2,4-Trichlorobenzene	DETSC 3434*	1	ug/l	< 1.0	< 1.0

Summary of Chemical Analysis

Water Samples

Our Ref 20-10649

Client Ref 4251

Contract Title Prairie Site Ground Investigation Works

Lab No	1685108	1685109
Sample ID	PRAIRIE_AUK_HBSW1_GW_1 50620	PRAIRIE_AUK_HBSW2_GW_1 50620
Depth		
Other ID	1	1
Sample Type	EW	EW
Sampling Date	15/06/2020	15/06/2020
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
4-Chloro-3-methylphenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2-Methylnaphthalene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Hexachlorocyclopentadiene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,4,6-Trichlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,4,5-Trichlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2-Chloronaphthalene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2-Nitroaniline	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,4-Dinitrotoluene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
3-Nitroaniline	DETSC 3434*	1	ug/l	< 1.0	< 1.0
4-Nitrophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Dibenzofuran	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,6-Dinitrotoluene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,3,4,6-Tetrachlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Diethylphthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0
4-Chlorophenylphenylether	DETSC 3434*	1	ug/l	< 1.0	< 1.0
4-Nitroaniline	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Diphenylamine	DETSC 3434*	1	ug/l	< 1.0	< 1.0
4-Bromophenylphenylether	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Hexachlorobenzene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Bis(2-ethylhexyl)ester	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Pentachlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Di-n-butylphthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Butylbenzylphthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Bis(2-ethylhexyl)phthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Di-n-octylphthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0
1,4-Dinitrobenzene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Dimethylphthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0
1,3-Dinitrobenzene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,3,5,6-Tetrachlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Azobenzene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Carbazole	DETSC 3434*	1	ug/l	< 1.0	< 1.0
1-Methylnaphthalene	DETSC 3434*	1	ug/l	< 1.0	< 1.0

Information in Support of the Analytical Results

Our Ref 20-10649
 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
1685108	PRAIRIE_AUK_HBSW1_GW_150620 WATER	15/06/20	GB 1L x2, GV, PB 1L, P(other)	pH/Cond/TDS (1 days)	
1685109	PRAIRIE_AUK_HBSW2_GW_150620 WATER	15/06/20	GB 1L x2, GV, PB 1L, P(other)	pH/Cond/TDS (1 days)	

Key: G-Glass P-Plastic 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.

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



Quality Control

Quality Systems.

Derwentside Environmental Testing Services employs numerous measures to ensure high levels of confidence in the results produced. Our laboratory has been accredited by the United Kingdom Accreditation Service (UKAS) since its inception and operates in full compliance with the internationally recognised standard ISO17025 and the Environment Agency's MCERTS (Monitoring & Certification Scheme) standard for soils and waters, which provides greater assurance to all parties of the reliability of data from chemical analysis.

To obtain a copy of our full UKAS schedule visit the UKAS website at www.ukas.org and search for our laboratory number 2139.



Proficiency Testing Schemes.

DETS participates in seven external proficiency testing schemes in order to monitor and ensure the continuing quality of analysis. These schemes are:



Internal Quality Control.

DETS runs a strict internal quality control system. A minimum of 5% of all samples that undergo analysis in our laboratories are quality control samples. This way we can ensure a high level of confidence in all of the analytical data produced. In addition, MCERTS accredited tests must meet strict, ongoing limits for precision and bias in order to maintain their accreditation status.

SAMPLE HOLDING TIME INFORMATION

Soil

Analyte	Container type	Minimum sample required	Reference	Maximum holding time from sampling	
				pre drying/extraction ¹	post drying/extraction ²
Ammonium	Glass or plastic	20g	BS ISO18512:2007	1 week	
Anions	Glass or plastic	20g	BS ISO18512:2007	1 month	3 years
BTEX	60ml glass jar	Full container	EPA 8260	2 weeks	N/A
Conductivity	Glass or plastic	20g	BS ISO18512:2007	1 week	3 years
Cyanide	Glass or plastic	20g	EPA 9010B/9012	2 weeks	
Heavy metals	Glass or plastic	10g	BS ISO18512:2007	6 months	30 years
Hexavalent chromium	Glass or plastic	20g	BS ISO18512:2007	1 month	
Loss on ignition	Glass or plastic	10g	BS ISO18512:2007	1 month	
OCP	Glass	20g	BS ISO18512:2007	1 month	
Oil & grease	Glass	20g	EPA 9070/1	1 month	
Organic matter/TOC	Glass or plastic	20g	BS ISO18512:2007	1 month	
PAH	Glass	20g	EPA 8100/8270	2 weeks	6 weeks
PCB	Glass	20g	BS ISO18512:2007	1 month	
pH	Glass or plastic	20g	BS ISO18512:2007	1 week	3 years
Phenols	Glass	20g	EPA 8270	2 weeks	6 weeks
PRO	60ml glass jar	Full container	EPA 8015	2 weeks	N/A
Sulphide	Glass or plastic	20g	BRE SD1	3 weeks	1 month
SVOC	Glass	20g	EPA 8270	2 weeks	6 weeks
TEM/CEM	Glass	20g	EPA 418.1	2 weeks	6 weeks
Thiocyanate	Glass or plastic	20g	EPA 9251	No special requirement	
Total sulphur	Glass or plastic	20g	BS ISO18512:2007	1 month	3 years
TPH (C10-C40)	Glass	20g	EPA 418.1	2 weeks	6 weeks
VOC	60ml glass jar	Full container	EPA 8260	2 weeks	N/A

Sample storage environment 5°C

1. From sampling to extraction
2. Once extracted

Waters

Analyte	Container type	Min sample required (ml)	Reference	Preservative required	Max holding time until extraction
Alkalinity	Glass or plastic	100	EPA 310.2	none	2 weeks
Ammonium	Glass or plastic	20	ISO 5667 3:2012	Sulphuric acid	3 weeks
BOD	Glass or plastic	500	EPA 405.1 5120B	none	2 days
BTEX	Glass vial	Full container	Lab validation	none	2 weeks
Chloride	Glass or plastic	20	ISO 5667 3:2012	none	1 month
COD	Glass or plastic	20	ISO 5667 3:2012	Sulphuric acid	1 month
Conductivity/TDS	Glass or plastic	100	EPA 160.1	none	1 week
Cyanide	Plastic	50	EPA 9012/335.3	Sodium hydroxide	2 weeks
Hexavalent chromium	Glass or plastic	20	ISO 5667 3:2012	none	4 days
Metals	Glass or plastic	20	ISO 5667 3:2012	Nitric acid	1 month
Nitrate	Glass or plastic	20	EPA 353.2	none	2 days
Nitrite	Glass or plastic	20	EPA 600/4 079-020	none	2 days
OCP	Glass	500	EPA 8081A/608	none	1 week
Oil & grease	Glass	500	ISO 5667 3:2012	Hydrochloric acid	1 month
PAH	Glass	500	ISO 5667 3:2012	none	1 week
pH	Glass or plastic	50	Lab validation	none	1 week
PCB	Glass	500	EPA 8082A	none	6 weeks
Phenols	Glass	500	ISO 5667 3:2012	Sulphuric acid	3 weeks
Phosphate	Glass or plastic	20	ISO 5667 3:2012	Sulphuric acid	1 month
PRO	Glass vial	Full container	EPA 8015	none	2 weeks
Sulphate	Glass or plastic	20	ISO 5667 3:2012	none	1 month
Sulphide	Plastic	50	ISO 5667 3:2012	NaOH/Zinc acetate	1 week
Suspended solids	Glass or plastic	100	EPA 160.2 2540D	none	1 week
SVOC	Glass	500	EPA 8270/625	none	1 week
TOC	Glass or plastic	20	ISO 5667 3:2012	Sulphuric/Phosphoric acid	1 week
TON	Glass or plastic	20	EPA 353.2	none	1 month
TPH/EPH	Glass	500	Lab validation	none	1 weeks
VOC	Glass vial	Full container	Lab validation	none	1 week

Sample storage environment 3°C ± 2°C

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETS 036	Leachate Preparation (NRA Method and BS EN 12457 Parts 1-3)	Leachates are prepared as per the NRA (1994) method and as per BS EN 12457 Parts 1 - 3 one and two stage leachate preparation.	Leaching Test Method for the Assessment of Contaminated Land, Interim Guidance, NRA(1994) BS EN 12457 Part 1,2 & 3	n/a	Not Accredited
DETS 073	Acid Neutralisation Capacity of Soils and Other Solids	ANC is a measure of the buffering capacity of soils and other waste materials. The analysis measures the amount of acid required to bring the sample to a fixed pH. The initial pH of the sample extract must be measured before analysis begins. Analysis is performed by the addition of acid in conjunction with pH measurement by pH meter until the specified pH has been reached as indicated by the meter. The result is expressed in mol/kg (dry wt).	Annex B (Preliminary determination of the acid/base consumption) – CEN/TC 292 – WI 292046 – Characterization of waste – Leaching behaviour tests – Acid and Base neutralization capacity test	1.0 mol/kg	Not Accredited
DETS 074	Low Level PAH by HPLC Fluorescence	PAH is extracted from one litre of filtered water sample by solid phase extraction. PAH is eluted from the SPE column with DCM evaporated to dryness under nitrogen and redissolved in acetonitrile. Analysis of samples is carried out by HPLC fluorescence.	EPA Method 550 The Analyst 2001, 126:1336-1331 Phenomonex Strata X Application Note for PAH by SPE	0.01ug/L each 5.0 ug/L Total	Not Accredited

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 1001	Sample Pre-Treatment and Preparation of Solids	Solid samples are classified and identified. Samples requiring analysis for unstable or volatile determinands are analysed as received. Samples requiring analysis for stable and non-volatile determinands are dried at <30°C or 50°C, depending on requirements, for a minimum of 16hrs (overnight). Dried samples are crushed in a jaw crusher, if necessary, and then ground using a mechanical mixer mill and sieved through a 250µm sieve to ensure they are homogenous.	BS1377:1990 – Soils for Civil Engineering Purposes The preparation and pre-treatment of potentially contaminated soils prior to chemical analysis – MEWAM – 2006 – Environment Agency (Updated procedure under preparation)	n/a	Not Accredited
DETSC 1002	Description of Soil Sample Type	This method outlines the procedure used to describe soil samples with respect to basic type, predominant colour and inclusions. The procedure is carried out during the sample preparation stage.	BS 5930:Section 6:1999	n/a	Not Accredited
DETSC 1003	Stone and Glass / Metal / Plastic Content of Soil	This method outlines the procedure used to determine the Stone and Glass/Metal/Plastic content of soil samples. The procedure is carried out during the sample preparation stage.	BS 3882:2007 BS 1377:1990	0.1%	Not Accredited
DETSC 1004	Moisture Content/Loss on Drying of Soil	Loss on drying is determined by loss of mass on drying in an oven set at 28°C or 50°C. Moisture content is determined by loss of mass on drying in an oven set at 105°C. The procedure is carried out during the sample preparation stage.	Practical Environmental Analysis. Radojevic & Bashkin. RSC 1999 BS 1377: Part 2:1990 DETS drying time study	0.1%	Not Accredited
DETSC 1101	Asbestos - Bulk Analysis	Samples are examined visually for the presence of asbestos containing materials or asbestos fibres. Suspect fibres are removed from the sample and examined using polarised light microscopy to determine whether they are asbestos fibres. If no asbestos fibres are identified by the method after an adequate length of examination time, and after at least two small pinch samples have been examined, then the sample may be reported as 'NAD' (no asbestos detected).	HSG 248 Asbestos: The Analysis Guide for Sampling, Analysis and Clearance Procedures. 2005 McCrone W.C., Asbestos Identification (Second Edition), The McCrone Research Institute, 1987 LAB 30, Application of ISO/IEC17025 for Asbestos Sampling and Testing, UKAS, Edition 2, April 2008	n/a	UKAS

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 1102	Quantification of asbestos in soils, loose aggregates and ballast	The method of quantification is divided into three procedures: Gravimetric analysis, detailed gravimetric analysis and PCOM analysis. The analysis may be affected by the client's requirements as determined by contract review, and by the nature of the asbestos found in the sample, e.g. whether ACMs are present, and whether fibre bundles large enough to pick out using tweezers are have been found in the sample.	HSG 248 Asbestos: The Analysis Guide for Sampling, Analysis and Clearance Procedures. 2005 HSG264 Asbestos: The survey guide. HSE Books, 2010. Davies, L. S.T., Wetherill, G. Z., McIntosh, C., McGonagle, C., Addison, J. 1996. Development and validation of an analytical method to determine the amount of asbestos in soils and loose aggregates. HSE Contract Research Report NO. 83/1996. HSE Books	Gravimetric Analysis: 0.01% for 1kg sample Detailed Gravimetric Analysis: 0.001% for 50g sample PCOM Analysis: 0.001%	UKAS
DETSC 1103	Asbestos Water Absorption Test	This test involves a sample of the asbestos product being dried and weighed before being immersed in water for a period of time. The sample is then removed from the water and re-weighed. If the amount of water absorbed is <30% by weight, then the sample should be reported as 'Not Licensed'. If $\geq 30\%$ water is absorbed then the sample should be reported as being 'Licensed', i.e. an asbestos material for which a licence is required to work on.	Work with Materials Containing Asbestos: Approved Code of Practice and Guidance. HSE Books, 2006.	n/a	UKAS
DETSC 2002	Organic matter content of soil	The procedure is based upon Walkley and Black's method. Organic matter in soil is oxidised with potassium dichromate in the presence of concentrated sulphuric acid. The excess dichromate is titrated with ferrous sulphate using diphenylamine as an external indicator. The organic matter content is calculated from the amount of dichromate used during the oxidation process based on an empirical relationship.	BS1377 : Part 3 : 1990 Method 3 BS1377 : Part 1 : 1990 BS 3882:2007	0.1%	UKAS MCERTS(Soils)

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

DETSC 2003	Loss On Ignition	Soil is ignited at 440C and the amount of sample lost on ignition is determined gravimetrically. Other specified temperatures may be used but are not accredited.	BS1377 : Part 3 : 1990 Method 4 BS1377 : Part 1 : 1990	0.01%	UKAS MCERTS(Soils)
Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 2004	Sulphate Content of Soil and Water	The sulphate in the soil is dissolved in dilute hydrochloric acid, or in an aqueous extract having a water:soil ratio of 2:1 and the insoluble residue is removed by filtration. Waters are also filtered prior to analysis. The sulphate in the filtrate is precipitated as barium sulphate which is then filtered, ignited and weighed.	BS1377 : Part 3 : 1990 Method 5 BS1377 : Part 1 : 1990 BRE SD1: 2005 Concrete in Aggressive Ground	Acid Soluble: 0.01% Water Soluble 100mg/l Waters 10mg/l	UKAS MCERTS(Soils)
DETSC 2005	Carbonate content of soil by Rapid Titration	The carbonate present in the soil reacts with a known excess of hydrochloric acid liberating carbon dioxide. The acid remaining after the reaction is determined by titration against sodium hydroxide. The result is calculated in terms of the equivalent proportion of carbon dioxide.	BS 1377: Part 1: 1990. BS 1377: Part 3: 1990: Method 5	1%	UKAS
DETSC 2006	Water Soluble Chloride Content of Soil & Chloride Content of Water	The chloride in the soil is dissolved in water and the insoluble material is removed by filtration. Waters are filtered before analysis. The chloride is analysed by Mohr's method. The chloride in a neutral solution is titrated against standard silver nitrate using potassium chromate as an indicator. The colour change is from yellow to brick red.	BS1377 : Part 3 : 1990 Method 7.2 BS1377: Part 1: 1990	Soil: 0.01% Water: 10mg/l	UKAS MCERTS(Soils)
DETSC 2007	Acid Soluble Chloride Content of Soil and Concrete	The chloride in the sample is dissolved in nitric acid and the insoluble material is removed by filtration. The dissolved chloride is analysed by Volhard's method. The chloride in solution is precipitated with a known excess of standard silver nitrate. The excess silver nitrate is titrated against standard ammonium thiocyanate using ferric alum as an indicator. The colour change is white to red.	BS1377 : Part 3 : 1990 Method 7.3 BS1377: Part 1: 1990 BS 1881-124:1988	0.01%	UKAS

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 2008	pH Value of Soil and Water	The pH value of a soil suspension in water or a groundwater sample is determined electrometrically using a glass electrode.	BS1377: Part 3: 1990 – Soils for Civil Engineering Purposes – Chemical and Electrochemical Methods	n/a	UKAS (Soils + Waters) MCERTS (Soils + Waters-Trade Effluent only)
DETSC 2009	Electrical Conductivity of Soil & Water	The electrical conductance of a soil suspension in water or of a water sample is determined by voltammetry using a conductivity meter. In some cases, the soil may need to be extracted with an aqueous solution of an inorganic salt e.g. the conductivity of topsoil is determined by preparing a suspension of the soil in saturated calcium sulphate.	Standard Methods for the Examination of water and Wastewater Part 2510B 21st Edition 2005 APHA, AWWA, WEF BS3882:2007 Specification for Topsoil	1uS/cm	UKAS
DETSC 2019	Loose Packed Dry Soil Density	Dried, ground soil is transferred to a dry, tared measuring cylinder and the volume recorded. The cylinder and its contents are then weighed and the density of the soil calculated.	BS3882:2007 Specification for Topsoil	n/a	Not Accredited

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 2024	Sulphide in Soil and Water by Iodometry	Hydrogen sulphide is liberated by acidification of the sample with hydrochloric acid in a steam distillation unit. The hydrogen sulphide produced is carried over with the steam and is absorbed in alkaline zinc acetate. The zinc sulphide produced reacts with iodine formed when iodate-iodide is acidified and the excess iodine titrated with standard thiosulphate.	In House Method based on: Environment Agency The determination of easily liberated sulphide in soils and similar matrices (2010) - Blue Book 228 Method D - The determination of easily liberated sulphide in as received or air-dried samples following acid steam distillation with iodometric titration. Environment Agency The determination of sulphide in waters and associated materials (2007) Draft Method D - The determination of easily liberated sulphide in as received or air-dried samples following phosphoric acid steam distillation with iodometric titration.	Soils: 10mg/kg Waters: 250ug/l	Soils: UKAS MCERTS(Soils) Waters: Not Accredited
DETSC 2030	Alkalinity in Water	Alkalinity of a water sample is determined by indicator end point titration with a strong acid from sample pH to pH8.3 (where applicable) and then to pH4.5. From the titres obtained the total alkalinity and concentrations and types of alkalinity present can be calculated.	SCA Method ISBN 0 11 751601 5 The Determination of Alkalinity and Acidity in Water 1981 Instruction Manual for Skalar SP50 Robotic Analyser	20mg/l as CaCO ₃	UKAS MCERTS(Waters) Trade Effluent only
DETSC 2031	5 Day Biochemical Oxygen Demand	The sample, either diluted or undiluted, is placed in a BOD bottle and the initial dissolved oxygen content of the sample is measured using a dissolved oxygen meter. The bottle is placed in an incubator at 20°C in the dark for 5 days. After this time the bottle is removed and the residual dissolved oxygen content of the sample is measured. The BOD of the sample is calculated from the reduction in the concentration of dissolved oxygen over 5 days.	SCA Method ISBN 0 117522120 5 Day Biochemical Oxygen Demand (BOD5) Second Edition 1988	1 mg/l	UKAS MCERTS(Waters)- Trade Effluent only

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 2032	Chemical Oxygen Demand	Oxidisable substances react with sulphuric acid – potassium dichromate solution in the presence of silver sulphate as a catalyst. Chloride is masked by mercury sulphate. The reduction in the yellow colouration of Cr ⁶⁺ is evaluated using a spectrophotometer for the low range tubes (LCK 314) whilst the green colouration of Cr ³⁺ is evaluated for the medium and high range tubes (LCK 014 and LCK 114).	Environment Agency The determination of chemical oxygen demand in waters and effluents (2007) Methods for the Examination of Waters and Associated Materials	10 mg/l	UKAS MCERTS(Waters)- Trade Effluent only
DETSC 2033	Total and Dissolved Organic Carbon in Water	The term TOC (Total Organic Carbon) is used to describe the total content of organically bound carbon in dissolved and undissolved compounds. The TOC content is expressed in mg/l. If DOC (Dissolved Organic Carbon) is required, samples are filtered through a 0.45µm filter paper prior to analysis. Inorganic carbon is expelled by acidification of the sample. TOC is then determined by digestion of the sample with sulphuric acid and peroxodisulphate. Carbon containing compounds are transformed into carbon dioxide. The carbon dioxide evolves and reacts with an indicator solution. The colour change is measured using a spectrophotometer.	Hach-Lange Technical Instructions: LCK 385, LCK 386, LCK 387	2 mg/l	UKAS
DETSC 2034	Suspended and Settleable Solids in Water	Suspended matter is removed from a measured volume of sample by filtration under reduced pressure through a pre-treated, pre-weighed glass fibre filter paper. The paper is washed with deionised water to remove dissolved salts and the total suspended matter is determined gravimetrically after drying at 105 ±5°C Settleable solids are determined by subtracting the solids left in suspension after settlement for 1 hour (or other agreed time) from the total suspended matter in the sample.	SCA Method ISBN 011 751957 X Suspended, Settleable and Total Dissolved Solids in Waters and Effluents 1980	5 mg/l	Suspended Solids: UKAS MCERTS(Waters)- Trade Effluent only Settleable Solids: Not Accredited

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 2035	Total Dissolved Solids in Water	Water samples are pre-filtered to remove any suspended solids and evaporated in an oven at 180°C. The amount of residual dissolved solids is determined gravimetrically. An estimate of the total dissolved solids can be obtained by measuring the conductivity of the sample. This method is not accredited.	SCA Method ISBN 011 751957 X Suspended, Settleable and Total Dissolved Solids in Waters and Effluents 1980 BS1377: Part 3 : 1990 Section 8	5 mg/l	UKAS
DETSC 2047	Formaldehyde in Water	Formaldehyde in soil is extracted in water, with a water to soil ratio of 10:1. The insoluble residue is removed by filtration prior to analysis. Waters are filtered prior to analysis to remove any particulates in suspension. Formaldehyde in the extract or water sample reacts with chromatropic acid-sulphuric acid solution to form a purple coloured complex. The absorbance of the coloured solution is read at 580nm using a suitable visible spectrophotometer.	Formaldehyde by visible absorption spectrophotometry – Method 3500, Issue 2 – NIOSH Manual of Analytical Methods, Fourth edition, August 1994	Soil: 0.2mg/kg Water: 20µg/l	Not Accredited
DETSC 2048	Dissolved Oxygen Content of Water	The dissolved oxygen content of the sample is measured using a dissolved oxygen meter either electrochemically or by fluorescence, or by the titrimetric method developed by Winkler.	SCA Method ISBN 0.11 751442X Dissolved Oxygen in Natural and Waste Waters 1979	0.1 mg/l	Not Accredited
DETSC 2055	Anions in Water and Aqueous Soil Extracts by Ion Chromatography	Liquid samples and aqueous soil extracts are filtered through a 0.22µm syringe filter prior to analysis. The filtered samples are injected into an Ion Chromatograph. The anions of interest are separated on the basis of their affinity for the active sites of the column packing material. The separated anions are converted into their highly conductive acid forms and measured by conductivity. The anions are identified on the basis of retention time as compared to standards and quantisation is by measurement of peak area.	Standard Methods for the Examination of Water and Wastewater Section 4110 21st Edition 2005 APHA, AWWA, WEF	Soil: 1.0 mg/kg Water: 0.1 mg/L	UKAS

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 2076	Sulphate and Magnesium Content of 2:1 Aqueous Extract of Soil by ICP-OES	The sulphate and magnesium in the soil are extracted in an aqueous extract having water: soil ratio of 2:1 and the insoluble material is removed by filtration. The concentrations of sulphate and magnesium in the filtrate are determined by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES). The wavelengths used for identification and quantification are 181.972nm for sulphate and 285.213nm for magnesium.	BS1377 : Part 3: 1990 Method 5 BS1377 : Part 1: 1990 TRL 447 Sulphate Specification for Structural Backfills 2005 BRE SD1:2005 Concrete in Aggressive Ground 2005	10mg/L	Sulphate: UKAS MCERTS(Soils) Magnesium: Not Accredited
DETSC 2084	Total Organic Carbon by PrimacATC Analyser	Soil samples are treated with phosphoric acid to expel any inorganic carbonates. The samples are then heated at high temperature in a continuous flow of air so that any organic carbon is oxidised to carbon dioxide. The gas is then allowed to cool and analysed by an infra-red detector.	PrimacsATC Analyser – User Manual, Skalar	0.47%	MCERTS(Soils)
DETSC 2085	Total and Dissolved Organic Carbon in Water	<p style="text-align: center;">Direct TOC Analysis</p> <p>The sample is acidified, stirred and purged to remove the IC before the sample is injected and handled as in the TC Analysis. The sample is filtered before acidification for DOC.</p> <p style="text-align: center;">TC Analysis</p> <p>The sample is injected by an automated septum less rotary port into a high temperature reactor. In the reactor, at a temperature of 750 - 950°C all organic and inorganic carbon is oxidized to the gaseous carbon dioxide (CO₂). The catalyst that is present in the reactor catalysis the oxidation to completion. A flow of air transports these oxidation products to the detectors. The oxygen required for reaction is taken from the airflow. The products are led into the non-dispersive infrared detector where the carbon dioxide is determined. The carbon dioxide is measured at a wavelength of 4.2 μm by NDIR detection.</p>	<p>Standard Methods for the Examination of Water and Wastewater Section 5310 B 21st Edition 2005 APHA, AWWA, WEF</p> <p>HMSO Methods for the Examination of Waters and Associated Materials – The Instrumental Determination of Total Organic Carbon and Related Determinands 1995</p>	1mg/l as C	UKAS

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 2119	Exchangeable Ammonia in Soil	An intense blue-green complex, related to indophenol blue, is formed by the reaction of ammonia with hypochlorite and sodium salicylate, with sodium nitroprusside acting as a catalyst. The complex is measured at 655nm and is related to the ammonia concentration by means of a calibration curve. Sodium citrate is added to overcome interfering ions.	MAFF/ADAS Reference Book 427 – the Analysis of Agricultural Materials – Method 53, Ammonium, Nitrate and Nitrite-Nitrogen, Potassium Chloride Extractable	0.5mg/kg	UKAS MCERTS(Soils)
DETSC 2120	Ammonia in Water by Spectrophotometry	An intense blue-green complex, related to indophenol blue, is formed by the reaction of ammonia with hypochlorite and sodium salicylate, with sodium nitroprusside acting as a catalyst. The complex is measured at 655nm and is related to the ammonia concentration by means of a calibration curve. Sodium citrate is added to overcome interfering ions.	Environment Agency Ammonia in Waters 1981 ISBN 0117516139 Methods for the Examination of Waters and Associated Materials	20µg/l	UKAS
DETSC 2121	Total Kjeldahl Nitrogen Content of Soils and Waters	The sample is digested with sulphuric acid and a mixture of catalysts to convert organic nitrogen to ammonia. The sample is then distilled under alkaline conditions, and the distilled ammonia is absorbed in sulphuric acid. The ammonia content of the distillate is then determined colorimetrically either using the UV/vis spectrophotometer or the Konelab 60i. Ammonia reacts with hypochlorite ions generated by the alkaline hydrolysis of sodium dichloroisocyanurate to form monochloramine. Monochloramine reacts with salicylate ions in the presence of sodium nitroprusside at around pH 12.6 to form a blue compound. The absorbance of this compound is measured spectrophotometrically at wavelength 660nm	The Analysis of Agricultural Materials – MAFF/ADAS Reference Book 427 – HMSO BS 3882: 2007 Specification for topsoil Standard Methods for the Examination of Water and Wastewater Part 4500-N. 21st Edition 2005 APHA, WWA, WEF	Soil: 0.01% Water: 2mg/l	Not Accredited
DETSC 2123	Water Soluble Boron in Soil & Boron in Water	Boron in soil is extracted in boiling saline water. Waters are filtered prior to analysis to remove any particulates in suspension. The water soluble boron in the extract or filtrate reacts with azomethine-H to produce a yellow coloured complex. The resulting colour absorbance is measured at 420nm using a suitable visible spectrophotometer.	SecondSite Property (now National Grid Property Holdings) - Guidance for assessing and managing potential contamination on former gasworks and associated sites (Part I) (Version 3) Method 17.12 The analysis of Agricultural materials MAFF/ADAS – reference book 427	Soil: 0.2mg/kg Water: 100ug/L	UKAS MCERTS(Soils)

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

			HMSO		
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Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 2130	Cyanides & Monohydric Phenols by Skalar	<p>Water samples are filtered through a 0.45µm syringe filter and solid samples are extracted with 1M caustic soda prior to analysis on the automated flow analyser.</p> <p>The method determines total cyanide, easily liberated cyanide, complex cyanide, thiocyanate and monohydric phenols</p>	Skalar methods: I295-001 w/r+P7 I295-002 w/r+P7 293-902 w/r+P7 497-001	<p>Soils mg/kg: Total & Free CN=0.1, Thio=0.6, Phenol=0.3</p> <p>Waters ug/L: Total CN=40, Free CN=20, Thio=20, Phenol=100</p>	UKAS MCERTS(Soils)
DETSC 2140	Sugar in Mixing Water for Cement	<p>Waters are filtered prior to analysis to remove any particulates in suspension.</p> <p>The sugar in the filtrate reacts with phenol and sulphuric acid to produce a yellow-orange coloured complex. The resulting colour absorbance is measured at 490nm using a suitable visible spectrophotometer.</p>	Colorimetric Method for Determination of Sugars and Related Substances MICHEL DUBOIS, K. A. GILLES, J. K. HAMILTON, P. A. REBERS, and FRED SMITH - Division of Biochemistry, University of Minnesota, St. Paul, Minnesota.	10mg/l	Not Accredited
DETSC 2201	Nitrite in Waters and Leachates by Konelab 60i	<p>Nitrite is determined colorimetrically using the Konelab60i autoanalyser. The nitrite colour reaction occurs at pH 2.0 to 2.5 by coupling diazotized Sulphanilamide with N-1-naphthyl-ethylenediamine. The absorbance of this compound is measured spectrophotometrically at 520nm.</p>	Standard Methods for the Examination of Water and Wastewater Part 4500-NO2 B – 21st Edition 2005 APHA, AWWA, WEF Aquakem Method Nitrite in Waters Iss No 2 Methods for the Examination of Water and Associated Materials Oxidised Nitrogen in Waters 1981.	0.04mg/l (as N)	UKAS



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			EPA Method 354.1 Nitrite, spectrophotometric (Approved at 40 CFR Part 136, not approved at Part 141)		
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DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 2202	Total Oxidised Nitrogen in Waters and Leachates by Konelab 60i	Nitrate is reduced to nitrite by hydrazine under alkaline conditions. The total nitrite ions are then reacted with sulphanilamide and N-1-naphthylethylenediamine dihydrochloride under acidic conditions to form a reddish purple azo-dye. The absorbance of this compound is measured spectrophotometrically at 540 nm using the Konelab 60i autoanalyser.	Standard Methods for the Examination of Water and Wastewater Part 4500-NO2 B and Part 4500-NO3 H – 21st Edition 2005 APHA, AWWA, WEF Aquakem Method Total Oxidised Nitrogen. Methods for the Examination of Water and Associated Materials Oxidised Nitrogen in Waters 1981. EPA Method 353.1 Nitrate, Nitrite Colorimetric Automated Hydrazine Reduction (Approved at 40 CFR Part 136, Not approved at Part 141)	0.7mg/l (as N)	UKAS
DETSC 2203	Hexavalent Chromium in Waters and Leachates by Konelab 60i	Hexavalent Chromium is determined colorimetrically using the Konelab 60i autoanalyser. Hexavalent chromium reacts with diphenylcarbide in acid solution and produces a red-violet colour. The absorbance of this compound is measured spectrophotometrically at 540nm.	Standard Methods for the Examination of Water and Wastewater Part 3500-Cr – 21st Edition 2005 APHA, AWWA, WEF USEPA 7196-A Aquakem Method. Hexavalent Chromium	10µg/l	UKAS
DETSC 2204	Hexavalent Chromium in Soil by Konelab 60i	Hexavalent Chromium is determined colorimetrically using the Konelab 60i autoanalyser. Hexavalent chromium reacts with diphenylcarbide in acid solution and produces a red-violet colour. The absorbance of this compound is measured spectrophotometrically at 540nm.	Aquakem Method. Hexavalent Chromium	1mg/kg	Not Accredited

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 2205	Reactive & Total Phosphorus in Waters and Leachates by Konelab 60i	Phosphate is determined colorimetrically using the Konelab60i autoanalyser. The orthophosphate ion reacts with ammonium molybdate and antimony potassium tartrate under acidic conditions to form a 12-molybdophosphoric acid complex. The complex is then reduced with ascorbic acid to form a blue heteropoly compound. The absorbance of this compound is measured spectrophotometrically at wavelength 880nm.	Standard Methods for the Examination of Water and Wastewater Part 4500-P E– 21st Edition 2005 APHA, AWWA, WEF Aquakem Method. Phosphate in Waters Issue 2	0.01mg/l	Reactive Phosphorus: UKAS MCERTS (Waters-Trade Effluent only) Total Phosphorus: Not Accredited
DETSC 2206	High Level Ammonia in Waters and Leachates by Konelab 60i	Ammonia is determined colorimetrically using the Konelab60i autoanalyser. Ammonia reacts with hypochlorite ions generated by the alkaline hydrolysis of sodium dichloroisocyanurate to form monochloramine. Monochloramine reacts with salicylate ions in the presence of sodium nitroprusside at around pH 12.6 to form a blue compound. The absorbance of this compound is measured spectrophotometrically at wavelength 660nm.	Methods for the Examination of Waters and Associated Materials Ammonia in Waters 1981 ISBN 0117516139. Aquakem Method. Ammonia in Waters Issue 2	0.8mg/l	UKAS
DETSC 2207	Low Level Ammonia in Waters and Leachates by Konelab 60i	Ammonia is determined colorimetrically using the Konelab60i autoanalyser. Ammonia reacts with hypochlorite ions generated by the alkaline hydrolysis of sodium dichloroisocyanurate to form monochloramine. Monochloramine reacts with salicylate ions in the presence of sodium nitroprusside at around pH 12.6 to form a blue compound. The absorbance of this compound is measured spectrophotometrically at wavelength 660nm.	Methods for the Examination of Waters and Associated Materials Ammonia in Waters 1981 ISBN 0117516139. Aquakem Method. Ammonia in Waters Issue 2	0.015mg/l	UKAS

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 2208	Sulphide in Waters and Leachates by Konelab 60i	Sulphide is determined colorimetrically using the Konelab60i autoanalyser. Potassium Dichromate converts N-N-Diethyl-p-phenylenediamine to the free radical which reacts rapidly with sulphide to produce the coloured 'DPD Blue' or 'Ethylene Blue'. The absorbance can then be measured at wavelength 660nm.	The determination of sulphide in waters and associated materials (2007) - SCA - Draft (March 2007) Aquakem Method. Sulphide SP001 Issue 2 Standard Methods for the Examination of Water and Wastewater, 21st Edition 2005, Part 4500. ISBN0-87553-223-3	10µg/l	UKAS
DETSC 2210	Ferrous Iron in Waters and Leachates by Konelab 60i	Three molecules of phenanthroline chelate with each atom of ferrous iron to form an orange/red complex. The intensity of the coloured solution is stable between pH3 to pH9. Rapid colour development occurs between pH2.9 and pH3.5 in the presence of excess phenanthroline. The resulting colour absorbance is measured at 510nm	Aquakem Method Ferrous Iron FIR001 Issue 2	0.1mg/l	Not Accredited
DETSC 2211	Silicate in Waters and Leachates by Konelab 60i	Reactive forms of silicon in acid solution, below pH2, react with ammonium molybdate ions to form a yellow silicomolybdate. Ascorbic acid reduces the yellow silicomolybdate to produce a blue silicomolybdate complex. Oxalic acid is added to destroy any molybdophosphoric acid formed.	ASTM D7126 - 10 Standard Test Method for On-Line Colorimetric Measurement of Silica Aquakem Method Silica SIL Issue 2	0.1mg/l	Not Accredited
DETSC 2301	Metals in Soil by ICP-OES As, Ba, Be, Cd, Cr, Co, Cu, Fe, Mn, Mo, Ni, Pb, Se, V, Zn	Metals in soil are extracted using aqua regia and their concentrations are determined by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES). Any metals not listed can be determined but are not accredited under UKAS or MCERTS for soils.	Standard Methods for the Examination of Water and Wastewater Part 3120 B – 21st Edition 2005, AWWA, WEF	mg/kg: As, Be Cu, Ni =0.2, Ba=1.5, Cd=0.1, Cr=0.15, Co=0.7, Mn=20, Mo=0.4, Pb=0.3, Fe=1200, Se=0.5, V=0.8, Zn=1.0	UKAS (all listed) MCERTS (All soils listed except Fe)

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 2302	<p>Metals in Waters by ICP-OES</p> <p>Al, As, Ca, Cd, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Se, Zn</p>	<p>Concentrations of metals in water are determined by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).</p> <p>Any metals not listed can be determined but are not accredited under UKAS or MCERTS for waters</p>	Standard Methods for the Examination of Water and Wastewater Part 3120 B – 21st Edition 2005 APHA, AWWA, WEF	<p>µg/l:</p> <p>Al=6.5, As= 7.1, Ca=100, Cd=0.3, Cr=0.75, Cu=0.75, Fe=70, K=20, Mg=5, Na=12, Ni=2.7, Pb=4, Se=11.3, Zn=3.8</p>	<p>Dissolved: UKAS (all listed) MCERTS(Waters)- Trade Effluent only (Al, Cd, Cr, Cu, Ni, Pb, Zn)</p> <p>Total: Not Accredited</p>
DETSC 2303	Total Hardness (By Calculation)	The concentrations of calcium and magnesium are determined using the appropriate methodologies. The hardness is a measure of the sum of the calcium and magnesium concentration expressed as calcium carbonate.	Standard Methods for the Examination of Water and Wastewater Part 3120 B – 21st Edition 2005 APHA, AWWA, WEF	n/a	UKAS
DETSC 2304	Zinc Equivalent in Soil (By Calculation)	The concentrations of copper, nickel and zinc concentrations are determined using the appropriate methodologies. The zinc equivalent is a measure of the combined toxicity of the three metals, relative to the toxicity of zinc.	n/a	n/a	Not Accredited
DETSC 2306	<p>Metals in Waters by ICP-MS</p> <p>Ag, Al, As, Ba, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Sn, V, Zn</p>	<p>Concentrations of metals in water are determined by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS).</p> <p>Any metals not listed can be determined but are not accredited under UKAS.</p>	Standard Methods for the Examination of Water and Wastewater Part 3125 B – 21st Edition 2005 APHA, AWWA, WEF	<p>µg/l:</p> <p>Ag=0.13, Al=10.0, As=0.16, Ba=0.26, Ca=90, Cd=0.03, Co=0.16, Cr=0.25, Cu=0.40, Fe=5.50, Hg=0.01, K=80, Mg=20, Mn=0.22, Mo=1.1, Na=70, Ni=0.50, P=18.0, Pb=0.09, Sb=0.17, Se=0.25, Sn=0.40, V=0.60, Zn=1.3</p>	<p>Dissolved: UKAS (all listed)</p> <p>Total: Not Accredited</p>

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 2320	Total Sulphur in Soil by ICP	Sulphur compounds in soil are extracted using aqua regia and the insoluble residue is removed by filtration. The concentration of sulphur in the filtrate is determined by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES). Loss of sulphur as H ₂ S is prevented by oxidation of the sulphur compounds to sulphate by the aqua regia.	TRL 447 Sulphate Specification for Structural Backfills 2005 BRE SD1 Concrete in Aggressive Ground 2005	0.01%	UKAS
DETSC 2321	Total Sulphate content of Soil by ICP-OES	The sulphate in the soil is extracted in dilute hydrochloric acid and the insoluble residue is removed by filtration. The filtrate is made up to volume and the concentration of sulphate in the filtrate is determined by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).	BS1377 : Part 3: 1990 Method 5 BS1377 : Part 1 : 1990	0.01%	UKAS MCERTS(Soils)
DETSC 2322	Total Potential Sulfate and Total Oxidisable Sulphur (By Calculation)	<p>Sulphur compounds in soil are extracted using aqua regia and the insoluble residue is removed by filtration. The concentration of sulphur in the filtrate is determined by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES). Loss of sulphur as H₂S is prevented by oxidation of the sulphur compounds to sulphate by the aqua regia. The wavelength used for identification and quantification of sulphate is 181.972nm.</p> <p>The sulphate in the soil is extracted in dilute hydrochloric acid and the insoluble residue is removed by filtration. The filtrate is made up to volume and the concentration of sulphate in the filtrate is determined by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES). The wavelength used for identification and quantification of sulphate is 181.972nm.</p> <p>The two results obtained from the above tests may then be combined to calculate the Total Potential Sulphate and Total Oxidisable Sulphur content</p>	BS1377 : Part 3: 1990 Method 5 BS1377 : Part 1 : 1990	0.01%	Not Accredited

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 2324	Mercury in Waters by Atomic Fluorescence Spectroscopy	Waters and aqueous samples are preserved by fixing with concentrated nitric acid. Treatment with tin (II) chloride reduces mercury (II) to mercury (0) vapour which is detected using atomic fluorescence spectrometry.	Standard Methods for the Examination of Water and Wastewater Part 3112 B – 21st Edition 2005 APHA, AWWA, WEF PSA Method – Millennium Merlin Method for Total Mercury in Drinking, Surface, Ground, Industrial and Domestic Wastewaters and Saline Waters	0.05µg/l	UKAS
DETSC 2325	Mercury in Soil Atomic Fluorescence Spectroscopy	The mercury is extracted from soil in aqua regia with gentle refluxing. The extract is filtered to remove particulates and diluted to volume. Treatment with tin (II) chloride reduces mercury (II) to mercury (0) vapour which is detected using atomic fluorescence spectrometry.	PSA Method – Millennium Merlin Method for Mercury in Sludge, Soils and Sediments	0.05 mg/kg	UKAS MCERTS(Soils)
DETSC 2332	Inorganic and Methyl Mercury Speciation	Soils are air-dried and crushed before being subjected to a two-stage microwave extraction procedure for Inorganic (Hg(II)) and Methyl (MeHg) mercury. Waters and aqueous samples are filtered to remove particulates. An aliquot is separated via HPLC before treatment with bromate-bromide and tin (II) chloride to generate mercury and the mercury is determined by atomic fluorescence spectroscopy.	USEPA Method 3200 – Mercury Species Fractionation and Quantification by Microwave Assisted Extraction. PSA Application Note 053 – Mercury Speciation Using The Millennium Merlin Speciation System	Soil: 100µg/kg Water: 1µg/l	Not Accredited
DETSC 2333	Elemental Mercury Speciation	Soils, waters and aqueous samples are tested on an as-received bases. A known quantity of sample is extracted using argon and the released elemental mercury is trapped. The trapped mercury is released upon heating in a scarifier module and determined by atomic fluorescence spectroscopy.		Soil: 0.6µg/kg Water: 1µg/l	Not Accredited

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 2400	Unified Barge Bioaccessible Metals in Soils	<p>The Unified BARGE Method (UBM) is a an in vitro method for simulating the human digestive system. Synthetic digestive fluids are used to simulate the fluids present in the body.</p> <p>Both inorganic solutions (Containing inorganic salts such as KCl, NaCl etc), and organic solutions (Containing organic compounds such as Urea, Glucose etc) are mixed with enzymes to produce 4 Synthetic digestive fluids saliva (S), Gastric fluid (G), duodenal fluid (D) and bile (B). These solutions are then used to mimic the effect of a sample passing through a human gastro intestinal tract by shaking portions of the sample at 37°C, human body temperature (17.4).</p>	<p>EPA 9200.2-86 April 2012- Standard Operating Procedure for an In Vitro Bioaccessibility Assay for Lead in Soil</p> <p>BGS Chemical & Biological Hazards Programme Open Report OR/07/027 - Inter-laboratory Trial of a Unified Bioaccessibility Procedure</p>	<p>V = 1.0mg/kg Cr = 5.0mg/kg Co = 1.0mg/kg Ni = 5.0mg/kg As = 0.5mg/kg Se = 0.5mg/kg Cd = 0.5mg/kg Pb = 1.0mg/kg</p>	Not Accredited
DETSC 3001	Solvent Extractable Matter in Soil	<p>Soil samples are extracted with a water-immiscible solvent and filtered to remove the water. The solvent is evaporated and the amount of extractable matter in the sample is determined gravimetrically.</p>	<p>In-house method based on:- Problems Arising from the Redevelopment of Gas Works and Similar Sites - AERE Harwell Laboratory 1981.</p> <p>Environmental Agency The Determination of Material Extractable by Carbon Tetrachloride and of Certain Hydrocarbon Oil and Grease Components in sewage Sludge – 1978</p>	40mg/kg	<p>Toluene & Cyclohexane: UKAS</p> <p>Other Solvents: Not Accredited</p>
DETSC 3002	Oil & Grease/Solvent Extractable Matter in Waters	<p>A known volume of sample is acidified to pH<2 and extracted three times with an organic solvent, such as n-Hexane, in a separating funnel. The solvent is removed by evaporation and the amount of extractable matter in the sample is determined gravimetrically.</p>	<p>APHA 21st Edition, 2005 – Method 5520 B. Oil & Grease - Partition Gravimetric Method</p> <p>USEPA Method 1664, Revision A: n-Hexane Extractable Material (HEM: Oil & Grease) and Silica Treated N-Hexane Extractable Material (SGT-HEM; Non Polar Material) by Extraction and Gravimetry.</p>	1mg/l for 500ml sample	UKAS

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 3049	Elemental Sulphur in Soils and Waters by HPLC	Soils are extracted in dichloromethane (DCM) by sonication. The elemental sulphur concentration is determined by high performance liquid chromatography (HPLC) with UV detection using a C ₁₈ (e.g. 250mm x 4.6mm) column and a mobile phase composed of 95% methanol and 5% water. Waters and aqueous extracts of soils are extracted using DCM in a separating funnel, filtered, and the concentration determined using HPLC.	National Grid Property Holdings Limited, Methods for the Collection and Analysis of Samples from National Grid Sites, Version 1, September 2006. Section 3.12 Soil Analysis: Elemental Sulphur.	Soil: 0.75mg/kg Waters: 90ug/l	Soil: UKAS MCERTS(Soils) Water: UKAS
DETSC 3072	Aliphatic / Aromatic TPH by GC-FID	Aliphatic and aromatic petroleum hydrocarbons (C ₁₀ -C ₃₅) are extracted from soil and water using n-Hexane. The fractions are separated by solid phase extraction using silica columns, whereby the aliphatic fraction is eluted first with n-Hexane and the aromatic portion is eluted second with dichloromethane. The total, aliphatic, and aromatic concentrations are determined by gas chromatography flame ionisation detection (GC-FID) using a capillary column and hydrogen as the carrier gas. The chromatographic data is further characterized by subdivision into approximate boiling point/carbon number ranges with respect to n-alkane retention time markers.	National Grid Property Holdings Limited, Methods for the Collection and Analysis of Samples from National Grid Sites, Version 1, September 2006. Section 3.12 Soil Analysis: Draft TNRCC Method 1006	Soil mg/kg: AL10-12 =1.5 AL12-16 =1.2 AL16-21 =1.5 AL21-35 =3.4 AR10-12 =0.9 AR12-16 =0.5 AR16-21 =0.6 AR21-35 =1.4 Water: 1ug/l	Soil: UKAS MCERTS(Soils) (C10-C35 only) Water: Not Accredited
DETSC 3301	PAH in Soil by GC-FID	Soils and associated materials are extracted in dichloromethane (DCM) using sonication. The PAH concentration is recorded both as "Total PAH" and as "Speciated PAH", specified in terms of the 16 US EPA "Priority Pollutant" Polycyclic Aromatic Hydrocarbons. Concentrations are determined by gas chromatography using a BPX 50 (30m; 0.25µm ID; 0.25µm film) capillary column (or equivalent).	In-house method based on US EPA Method 8100, Polynuclear Aromatic Hydrocarbons	0.5 mg/kg each 1.6 mg/kg Total PAH	UKAS (16 PAH's only)
DETSC 3302	Hexane / Acetone Extracted PAH in Soil by GC-FID	Soils are extracted into hexane: acetone by shaking. The PAH concentration is recorded both as "Total PAH" and as "Speciated PAH", specified in terms of the 16 US EPA "Priority Pollutant" Polycyclic Aromatic Hydrocarbons. Concentrations are determined by gas chromatography using a BPX 50 (30m; 0.25µm ID; 0.25µm film) capillary column (or equivalent).	In-house method based on US EPA Method 8100, Polynuclear Aromatic Hydrocarbons	0.1 mg/kg each 1.6 mg/kg Total PAH	Not Accredited

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 3303	Polyaromatic Hydrocarbons in Soils by GC-MS	The PAHs in the soil sample are extracted into hexane: acetone by shaking. The PAHs in the extract are separated by gas chromatography and identified by the mass selective detector. The concentration of each PAH is determined by referencing individual mass peak areas to the appropriate internal standard mass peak area. Quantification is carried out within the instrument software.	In-house method based on EPA Method 8270- US EPA Method 8270, Revision C, Semivolatile Organic Compounds by Gas Chromatography – Mass Spectrometry (GC/MS)	0.03 mg/kg each 0.10 mg/kg Total PAH	UKAS (All 16 PAH's) MCERTS (not Fluorene, Anthracene, Chrysene or Total)
DETSC 3304	Polyaromatic Hydrocarbons in Waters by GC-MS	The PAHs in the water sample are extracted into dichloromethane by shaking. The PAHs in the extract are separated by gas chromatography and identified by the mass selective detector. The concentration of each PAH is determined by referencing individual mass peak areas to the appropriate internal standard mass peak area. Quantification is carried out within the Instrument software.	In-house method based on EPA Method 8270- US EPA Method 8270, Revision 3, Semivolatile Organic Compounds by Gas Chromatography – Mass Spectrometry (GC/MS) In-house method based on EPA Method 3510C- EPA Method 3510C, Revision 3, Separatory Funnel Liquid-Liquid Extraction	10 ng/l each	UKAS (16 PAH's only)
DETSC 3311	Extractable Petroleum Hydrocarbons (EPH) in Soil, Ballast and Water	This method is designed to determine total concentrations of extractable petroleum hydrocarbons (EPH) in solid and aqueous matrices. This method uses a dichloromethane (DCM) extraction followed by quantification using gas chromatography/ flame ionisation detection (GC-FID) analysis using a 1:1 mixture of diesel and mineral oil as calibration standards and n-alkane markers to establish the boiling point ranges. This method is used for the quantitative analysis of “Total EPH” (C10-C40) and as “Speciated EPH”, specified in terms of the “diesel range” (C10-C24), and “mineral oil range” (C24-C40).	USEPA Method 3550C – Ultrasonic Extraction USEPA Method 8015B – Non-Halogenated Organics Using GC/FID	Soil: 10 mg/kg Ballast: 10mg/kg Water: 10µg/l	Soil: UKAS MCERTS(Soils) Water: UKAS

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 3312	Hexane Extractable Petroleum Hydrocarbons (HPH)	This method is designed to determine total concentrations of extractable petroleum hydrocarbons (EPH) in solid matrices. This method uses a hexane: acetone (9.4) extraction followed by quantification using gas chromatography/flame ionisation detection (GC-FID) analysis using a 1:1 mixture of diesel and mineral oil as calibration standards and n-alkane markers to establish the boiling point ranges. This method is used for the quantitative analysis of “Total EPH” (C10-C40) and as “Speciated EPH”, specified in terms of the “diesel range” (C10- C24) and “mineral oil range” (C24-C40).	USEPA Method 8015B – Non-Halogenated Organics Using GC/FID	Soil: 5 mg/kg	Not Accredited
DETSC 3321	BTEX, MTBE & PRO in Soils by Headspace GC-FID	BTEX, MTBE and PRO in soils are determined via Headspace GC-FID. Individual aromatic compounds are quantified by external calibration against known standards. PRO range is banded using alkane markers to define retention time windows.	EPA Methods 5021 and 8015D	0.01 mg/kg	UKAS MCERTS(Soils) Not accredited for PRO range (C5-10)
DETSC 3322	BTEX, MTBE & PRO in Waters & Leachates by Headspace GC-FID	BTEX, MTBE and PRO in soils are determined via Headspace GC-FID. Individual aromatic compounds are quantified by external calibration against known standards. PRO range is banded using alkane markers to define retention time windows.	EPA Methods 5021 and 8015D	1 µg/l	UKAS
DETSC 3401	PCBs in Soils by GC-MS	An as-received soil sample is extracted in Hexane:Acetone (1:2) using sonication methodology. The sample is separated by gas chromatography and identified by mass selective detector. Quantification is carried out within the instrument software.	EPA Method 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography.	µg/kg PCB 28=1.25 PCB 52=1.12 PCB 101=1.32 PCB 118=1.43 PCB 153=2.08 PCB 138=1.35 PCB 180=1.42	UKAS MCERTS(Soils)

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 3402	Polychlorinated Biphenols in Waters by GC/MS	The water sample is extracted in DCM on a reciprocal shaker. The sample is separated by gas chromatography and identified by mass selective detector. Quantification is carried out within the GC-MS software using an internal standard.	EPA Method 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography.	ng/l PCB 28=208 PCB 52=161 PCB 101=211 PCB 118+123=513 PCB 153=163 PCB 138=107 PCB 180=132 PCB 105=133 PCB 114=253 PCB 126=399 PCB 156=253 PCB 157=119 PCB 167=248 PCB 169=181 PCB 189=271 PCB 77=202 PCB 81=186	UKAS
DETSC 3432	Volatile Organic Compounds in Waters by Headspace GC-MS	The method covers the range of volatile organic compounds with boiling points up to 220°C. Water samples are heated and agitated in a crimp cap vial. This drives the volatile components in to the headspace. An aliquot of the headspace is taken and injected in to a gas chromatograph with mass selective detection (GC-MS). The detector operates in full scan mode and is calibrated with standards containing known concentrations of the compounds of interest.	USEPA Method 8260B Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS), Revision 2, December 1996	1 ug/l except: DCM (27), 2,2-Dichloropropane (2), Bromochloromethane (4), Bromodichloromethane (4), m+p-Xylene (2), 1,3-Dichlorobenzene (2)	UKAS except: Trichlorofluoromethane, Methylene Chloride, 1,1,1-Trichloroethane,

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 3433	Semi-Volatile Organic Compounds in Soils by GCMS	The SVOCs in the soil sample are extracted into DCM: Acetone by shaking. The SVOCs in the extract are separated by gas chromatography and identified by the mass selective detector. The concentration of each SVOC is determined by referencing individual mass peak areas to the appropriate internal standard mass peak area. Quantification is carried out within the instrument software.	In-house method based on EPA Method 8270- US EPA Method 8270, Revision 3, Semi volatile Organic Compounds by Gas Chromatography – Mass Spectrometry (GC/MS)	Individual SVOCs 0.1 mg/kg	UKAS
DETSC 5001	Ash Content of Coal	The ash content of the sample is determined gravimetrically. A known weight of the sample is placed in a prepared ash crucible and placed in a furnace. The furnace is heated to 750°C ±10°C where the temperature is maintained. Following combustion the crucible and sample are removed, cooled and reweighed.	ASTM D3174-11 BS 1016-104.4 1998 ISO 1171: 2010	0.1%	UKAS
DETSC 5002	Ash & LOI Content of Solid Biomass & Solid Recovered Fuels	The ash and LOI content of the sample is determined gravimetrically. A known weight of the sample is placed in a prepared ash crucible and placed in a furnace. The furnace is heated to 550°C ±10°C where the temperature is maintained. Following combustion the crucible and sample are removed, cooled and reweighed.	BS EN 14775:2009 BS EN 15403:2011	0.1%	UKAS
DETSC 5003	Volatile Matter Content of Solid Biomass, Solid Recovered Fuels and Coal	A known weight of the sample produced for volatile matter determination is placed in a suitable crucible fitted with a lid. The crucible and sample is weighed and heated in a furnace with a limited air through put at a temperature of 900°C ±10°C for 7 minutes. The sample and crucible are re-weighed and the volatile matter content determined by difference.	BSEN15148:2009 – Solid Biofuels Determination of the Content of Volatile Matter BS EN 15402:2011 - Solid Recovered Fuels - Determination of the Content of Volatile Matter	0.1%	UKAS

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 5004	Total Moisture / Dry Solids Content of Solid Biomass & Solid Recovered Fuels & Coal	The sample produced for general analysis is placed into a suitable prepared and weighed tray and reweighed. The sample is dried at 105°C to constant weight and the total moisture / dry solids content is calculated from the reduction in weight.	BSEN 14774 Parts 1 & 2 2009 DD CEN/TS 15414 Parts 1 & 2: 2010	0.1%	UKAS
DETSC 5005	Analysis Moisture Content of Solid Biomass, Solid Recovered Fuels & Coal	The sample produced for total moisture determination in accordance with DETSC 5009 or DETSC 5010 is placed in a suitable pre-weighed tray and reweighed. The sample is then dried at 105°C ±2°C to constant weight and then weighed again. The analysis moisture content is calculated from the reduction in weight.	BS EN 14774-3 2009 BS EN 15414-3 2011 BS 1016-104.1 -1999 ISO 11722 – 1999	n/a	UKAS
DETSC 5007	Calorific Value of Solid Biomass, Solid Recovered Fuels & Coal	Calorific value of a material is determined in an Isoperbol calorimeter by burning it in pure oxygen in a combustion bomb. A known amount of sample is placed in a combustion bomb which is then pressurised to 30bar with oxygen. A calorimeter bucket is filled with a known amount of deionised water which is placed in the calorimeter and the bomb placed in the bucket. The system is allowed to equilibrate and the bomb fired by electrical connection. The difference in temperature of the water in the calorimeter bucket caused by the ignition of the material in the bomb is measured and the calorific value calculated	BS EN 14918: Solid biofuels – Determination of calorific value BS EN 15400: Solid recovered fuels - Determination of calorific value	1MJ/kg	UKAS
DETSC 5008	Calorific Value of Soil	A known amount of sample material is burnt in a combustion bomb that is immersed in water in a calorimeter and the difference in the water temperature before and after ignition measured. The calorific value of the sample material is calculated making any necessary corrections for heat generation not associated with the combusting sample. A gelatine capsule will be required to assist combustion which is also corrected for in the final calculations.	BS 1016-105 1992 ISO 19208 ASTM 5865	1MJ/kg	UKAS

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 5009	Sample Preparation of Solid Biomass & Solid Recovered Fuels	If analysis is required on the original material (i.e. Bulk Density) a sub-sample will be taken after initial mixing after which the sample is then reduced by cutting/chopping oversized pieces of material. The material is then mixed and subdivided by manual means during which process representative samples are taken for analysis i.e. total moisture. The remainder of the sample is dried and then reduced to <1mm and again mixed and subdivided to produce the sample for laboratory analysis.	BS EN 14780:2011 BS EN 15413:2011	n/a	Not Accredited
DETSC 5010	Sample Preparation of Coal	If required the sample received is first mixed and a sample taken for bulk density or bulk density is carried out on the whole initial sample. The remaining sample or the whole sample used for bulk density is then reduced to <10mm preferably by jaw crushing. The material is then mixed and subdivided by mechanical or manual means during which process representative samples are taken for any analysis required at this stage i.e. total moisture, The remainder of the sample is again mixed and subdivided to produce the sample for laboratory analysis which may require drying prior to crushing to <212 microns. If there is excessive water content a pre- drying stage of the whole sample may have to be carried out before sample blending and subdivision commences.	BS ISO 13909-4: 2001	n/a	Not Accredited
DETSC 5011	Calculation of Fixed Carbon Content of Coal, SRF and Solid Biomass Fuels	The total moisture, analysis moisture, ash and volatile matter content are determined by approved methods. The values obtained are deducted from 100 and this gives the fixed carbon value of the fuel.	DD CENT/S 15296:2006 BS 1016.100:1994 BS ISO 17246:2005	0.1%	Not Accredited

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 5012	Determination of Biomass Content of SRF	Approximately 5g of the sample is dissolved in 150ml of 78% Sulphuric Acid for 16 hours \pm 2 hours after which 35ml of 30% Hydrogen Peroxide is added and the sample left for an additional 5 hours \pm 1 hour. At the end of this period 300ml of deionised water is added to the sample and the residue remaining filtered off using a glass fibre filter paper, washing the residue with an additional 300ml of deionised water. The filter paper and residue are placed in a pre-weighed crucible and dried at 1500C until completely dry. The filter paper is reweighed after drying and the non biomass residue determined. Corrections for carbonates content is made by determining the ash content of the original sample and the non biomass residue remaining. The result can also be expressed by percentage calorific value by performing a calorific valve on the solid captured on the filter paper.	BS EN 15440 Solid recovered fuels - Methods for the determination of biomass content	n/a	UKAS
DETSC 5013	Determination Of Carbon, Hydrogen, Nitrogen & Oxygen In Solid Biomass, Solid Recovered Fuels & Coal	A known mass of fuel is weighed into tin capsules which are dropped sequentially into the combustion reactor prior to the arrival of oxygen. The sample and tin capsule react with oxygen and combust at temperatures of 1700-1800 °C and the sample is broken down into its elemental components N ₂ , CO ₂ , and H ₂ O. High performance copper wires absorb the excess oxygen not used for sample combustion. The gases flow through the gas chromatographic (GC) separation column which is kept at a constant temperature. As they pass through the GC column, the gases are separated and are detected sequentially by the thermal conductivity detector (TCD). The TCD generates a signal, which is proportional to the amount of element in the sample. The instrument software compares the elemental peak to a known standard material (after calibration) and generates a report for each element on a weight basis. The oxygen is calculated by deducting these quantities from 100 along with the moisture, ash, sulphur & chlorine contents determined by other methods.	BS EN 15104:2011 Solid biofuels - Determination of total content of carbon, hydrogen and nitrogen - Instrumental methods BS EN 15407:2011 Solid recovered fuels - Methods for the determination of carbon (C), hydrogen (H) and nitrogen(N) content BS EN 15296:2011 Solid biofuels - Conversion of analytical results from one basis to another	Carbon 0.10% Nitrogen 0.30% Hydrogen 0.30% Oxygen 3.55%	UKAS

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 5014	Metals in Coal, SRF and Biomass by ICP	Metals in coal, solid recovered fuel (SRF) and biomass samples are extracted by microwave using Hydrogen Peroxide (to oxidise and break down organic matter) and Aqua Regia (to dissolve the matrix and hold the metals in solution). Their concentrations are determined by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).	<p>BS EN 15410 - Solid recovered fuels - Methods for the determination of the content of major elements (Al, Ca, Fe, K, Mg, Na, P, Si, Ti)</p> <p>BS EN 15411 - Solid recovered fuels - Methods for the determination of the content of trace elements (As, Ba, Be, Cd, Co, Cr, Cu, Hg, Mo, Mn, Ni, Pb, Sb, Se, Tl, V and Zn)</p> <p>BS EN 15290 - Solid biofuels - Determination of major elements - Al, Ca, Fe, Mg, P, K, Si, Na and Ti</p> <p>BS EN 15297 - Solid biofuels - Determination of minor elements - As, Cd, Co, Cr, Cu, Hg, Mn, Mo, Ni, Pb, Sb, V and Zn</p>	<p>0.1 mg/kg: As, Be, Cd, Co, Mn, Ni, P, Pb, Sb, Se, Sn, Ti, V, Zn</p> <p>0.2mg/kg: Cr, Cu, Tl</p> <p>0.5mg/kg: Mo</p> <p>1mg/kg: Al, Fe, K, Mg</p> <p>5mg/kg: Ca</p> <p>10mg/kg: Ag, Ba, Rh, Sr, Te</p>	<p>UKAS: Al, As (SRF only), Ca, Cd, Co, Cr, Cu, K, Mg, Mn, Na (SRF only), Ni, P, Pb, Se, Sn, Tl, V, Zn</p> <p>All other metals not accredited</p>
DETSC 5015	Mercury in Coal, SRF and Biomass by Atomic Fluorescence Spectroscopy	The mercury is extracted from coal, SRF and biomass in aqua regia with gentle refluxing. The extract is filtered to remove particulates and diluted to volume. Treatment of the resulting solution with tin (II) chloride reduces mercury (II) to mercury (0) vapour which is then quantitatively detected using atomic fluorescence spectrometry.	PSA Method – Millennium Merlin Method for Mercury in Sludge, Soils and Sediments.	0.055mg/kg	UKAS

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 5016	Total Sulphur Content Of Coal, SRF And Biomass	<p>Sulphur compounds in SRF and biomass are extracted using aqua regia / hydrogen peroxide and the insoluble residue is removed by filtration. The concentration of sulphur in the filtrate is determined by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES). Loss of sulphur as H₂S is prevented by oxidation of the sulphur compounds to sulphate by the aqua regia. The use of hydrogen peroxide enhances the oxidation properties of nitric acid especially in the digestion of organics.</p> <p>Sulphur compounds in coal are determined by ICP-OES from the aqueous washings of the combustion products after firing in a bomb calorimeter.</p>	TRL Report TRL447 (Updated) - Sulphate specification for structural backfills 2005	0.001mg/kg	UKAS
DETSC 5017	Sulphur, Chlorine, Fluorine & Bromine Content of Solid Biomass, Solid Recovered Fuels and Coal by IC	A known weight of fuel is burnt in a pressurised bomb in pure oxygen. After firing of the bomb, it is stood for a minimum of five minutes to allow the combustion products to settle then the oxygen is slowly released over a period of at least three minutes. The bomb is then taken apart and the bomb electrodes rinsed with deionised water into the inside of the bomb. These washings are then decanted into a 50ml volumetric flask. The inside of the bomb is rinsed with deionised water and the washings added to those in the volumetric flask. The contents of the volumetric flask are made up to volume with deionised water and stored for the analysis of sulphur, chloride, fluoride and bromide by ion chromatography.	<p>Operating Instruction Manual No. 442M 6200 Parr Oxygen Bomb Calorimeter</p> <p>Operating Instruction Manual No. 205M 1108 Oxygen Combustion Bomb</p> <p>Operating Instruction Manual No. 454M 6510 Water Handling System</p>	<p>0.01% Chlorine</p> <p>0.01% Fluorine</p> <p>0.01% Bromine</p> <p>0.04% Sulphur (Coal only)</p>	UKAS

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 5018	XRF Analysis of Coal, Biomass, SRF and Cement	<p>When X-rays are targeted at a material they will cause electrons to be ejected from the component atoms (Ionisation). The ejection of electrons will cause the electronic structure of the component atoms to become unstable resulting in electrons from the higher energy outer orbitals “falling” into the inner orbitals to compensate. This causes a release of energy in the form of a photon equal to the energy difference between the two orbitals involved. Thus the material emits radiation which has energy characteristics of the atoms present.</p> <p>In energy dispersive X-ray fluorescence the fluorescent X-rays emitted are directed to a detector from which the data is processed by a multichannel analyser, producing a digital spectrum which is processed to obtain analytical data.</p> <p>The instrument analytical parameters are set up for the matrix type. A sample cell is prepared by placing a piece of prolene film over the outer cell and then inserting the inner cell. This gives a complete cell with a clear prolene base. A portion of the sample is placed into the cell and then analysed.</p>	Rigaku NEX CG EDXRF instruction manual	<p>Cement: 0.01% BaO, Cr₂O₃, CuO, PbO, Rb₂O, SrO, ZnO 0.02% Cl, V₂O₅ 0.05% TiO₂ 0.1% Mn₂O₃, P₂O₅, SO₃ 0.5% K₂O 1% Al₂O₃, CaO, CdO, Co₂O₃, Fe₂O₃, MgO, Na₂O, NiO, SiO₂, Y₂O₃</p> <p>Fuel: 0.01% Co, Cr, Cu, I, Li, Mn, Ni, P, Pb, Sn, Ti, V, Zn 0.02% Al, Ba, S, Si 0.1% Mg 0.2% Ca 0.5% As, Cd, Hg, Mo, Na, Sb, Se, Th, Tl 1% Ag</p>	<p>UKAS Al, As, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, P, Sb, Si, Sn, Tl, Ti, V, Zn Al₂O₃, BaO, CaO, Cl, Cr₂O₃, CuO, Fe₂O₃, K₂O, MgO, Mn₂O₃, Na₂O, P₂O₅, PbO, Rb₂O, SiO₂, SO₃, SrO, TiO₂, V₂O₅, ZnO</p> <p>All other testing not accredited</p>
DETSC 5019	Determination of Biodegradable Municipal Waste Content (Compositional Analysis)	The method is based on handpicking the BMW fraction from the municipal waste sample, and then weighing the amount of BMW sorted and expressing this as a percentage on a wet weight basis of the weight of the whole municipal waste sample.	ENVIRONMENT AGENCY: Guidance on monitoring of MBT and other treatment processes for the landfill allowances schemes (LATS and LAS) for England and Wales	n/a	Not Accredited
DETSC 5020	Determination of Bulk Density in Solid Biomass and Solid Recovered Fuels	The test portion is filled into a standard container of a given size and shape and weighed afterwards. Bulk density is calculated from the net weight per standard volume and reported for the moisture content.	BS EN 15103:2009 Solid Biofuels- Determination of bulk density BS EN 15401:2010 Solid Recovered Fuels- Determination of bulk density	0.5kg/m ³	Not Accredited

DETS INFO 001 – ANALYTICAL METHOD SUMMARY

Method Number	Title	Description	Reference	LOD	Accreditation Status
DETSC 5021	Auto Ignition Temperature	A quantity of the sample is placed into a metal tray or crucible and placed into an oven or furnace. The temperature of the oven / furnace is increased in predefined increments and the temperature in which the sample ignites is noted.	None	25°C	Not Accredited

**Slag Testing Testing
(Tested Externally)**

This testing is outstanding and will be forwarded through separately when available.



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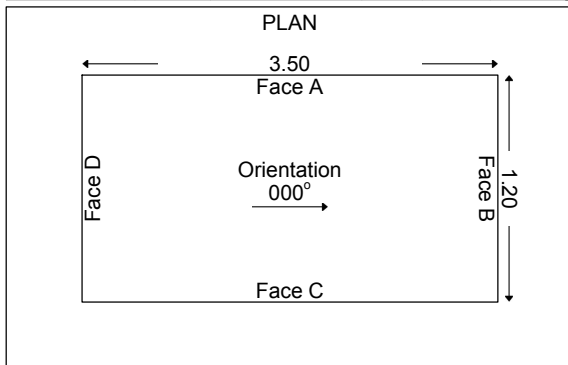
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TRIAL PIT RECORD

Status:-
PRELIM1

Project: Eston Road Intrusive Works			Exploratory Hole No. ATK_TP_009	
Client: Tees Valley Combined Authority		Location: Clay Lane Commercial Park E: N:		
Method (Equipment): Machine Excavated (JCB 3CX)		Ground Level (m):	Start Date: 17/06/2020	Sheet: 1 of 1

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.20	J1					0.20	MADE GROUND (Compacted grey sandy gravel. Sand is fine to coarse and includes mainly powdered concrete and ash. Gravel is fine to coarse subangular and includes concrete, slag and clinker. Slag content is 25-50%. Slag is grey vesicular).
0.40	B2					(0.40)	
0.50	ES3					0.60	
1.10	J4					(0.40)	MADE GROUND (Red, brown black sandy gravel with cobbles and boulders. Sand is fine to coarse and includes mainly ash. Gravel is fine to coarse subangular and includes slag, red and yellow brick, ash and concrete. Slag content is 0-25%. Slag is grey vesicular. Cobbles are angular and include slag, concrete, wood and metal. Slag content is 0-25%. Slag is grey vesicular. Boulders are angular and include concrete and metal railway track lines).
1.30	B5					1.00	
1.50	ES6						
2.10	J7					(2.50)	Soft to firm brown grey mottled black slightly sandy CLAY with 9" square wooden piles (assumed to be piles). (Reworked clay. Sand is fine to medium. Slight hydrocarbon odour noted from wooden piles).
2.30	B8						Firm and friable becoming stiff grey red sandy slightly gravelly CLAY with occasional silty laminae. Sand is fine to medium. Gravel is fine to medium subangular and includes sandstone and mudstone.
3.10	J9						
3.30	B10					3.50	Complete at 3.50m BGL.



GROUNDWATER
 Saturated strata at 0.60m 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
 (1) HSV unsuitable on excavated blocks due to friable nature.

All dimensions in metres Scale 1:50	For explanation of symbols and abbreviations see Key Sheets	Checked by:	Logged by: D. Portsmouth	Contract No. 4287
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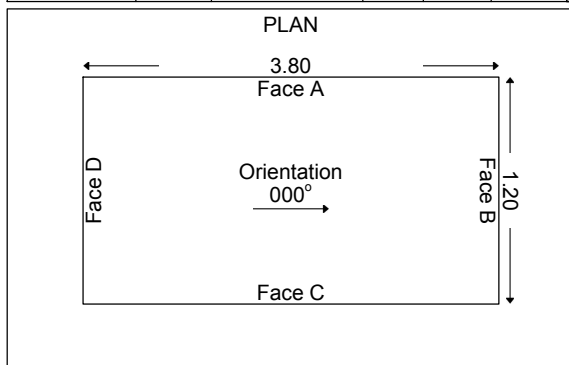
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TRIAL PIT RECORD

Status:-
PRELIM1

Project: Eston Road Intrusive Works			Exploratory Hole No. ATK_TP_010	
Client: Tees Valley Combined Authority		Location: Clay Lane Commercial Park		E: N:
Method (Equipment): Machine Excavated (JCB 3CX)		Ground Level (m):	Start Date: 17/06/2020	

SAMPLES & TESTS			Water	STRATA		
Depth	Type No	Test Result		Reduced Level	Legend	Description
0.30 0.40 0.50 0.70 0.90	J1 B2 J3 B4 ES5				(0.50) 0.50 (0.50) 1.00	MADE GROUND (Grey gravel. Gravel is fine to coarse subangular to subrounded and includes slag. Slag content 100%. Slag is grey vesicular). MADE GROUND (Grey black sandy gravel. Sand is fine to coarse and includes mainly ash. Gravel is fine to coarse subangular and includes concrete, ash, clinker, red brick and slag. Slag content is 0-25%. Slag is grey vesicular).
1.30 1.50 1.60	J6 B7 ES8				(1.20) 2.20	MADE GROUND (Soft to firm brown grey mottled black silty slightly sandy clay with black silty sand and silt lenses. Sand is fine to medium). (Reworked material).
2.30 2.50	J9 B10				(0.60) 2.80	MADE GROUND (Black clayey gravelly sand with frequent metal pipes, girders and rebar 20mm. Gravel is coarse angular and includes clinker and red brick).
3.00 3.20	J11 B12				(0.70) 3.50	Firm friable and stiff red brown slightly sandy slightly gravelly CLAY with silty sand bands. Sand is fine to medium. Gravel is fine to medium subangular and includes mudstone and siltstone.
Complete at 3.50m BGL.						



GROUNDWATER
Saturated strata at 2.50m 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
(1) HSV unsuitable on excavated blocks due to friable nature.

All dimensions in metres Scale 1:50	For explanation of symbols and abbreviations see Key Sheets	Checked by:	Logged by: D. Portsmouth	Contract No. 4287
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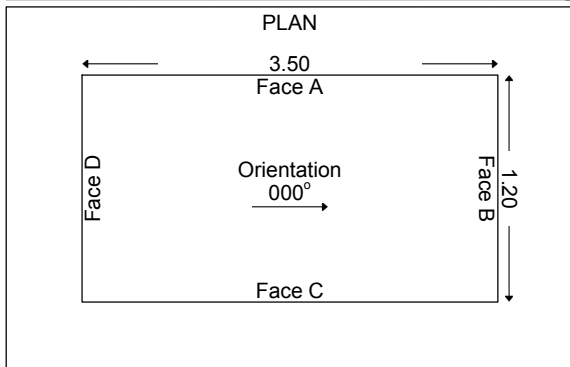
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TRIAL PIT RECORD

Status:-
PRELIM1

Project: Eston Road Intrusive Works		Exploratory Hole No. ATK_TP_011	
Client: Tees Valley Combined Authority		Location: Clay Lane Commercial Park E: N:	
Method (Equipment): Machine Excavated (JCB 3CX)		Ground Level (m):	Start Date: 17/06/2020
		Sheet: 1 of 1	

SAMPLES & TESTS			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
0.60	J1				(0.50)	MADE GROUND (Grey gravel. Gravel is fine to coarse subangular to subrounded and includes slag. Slag content 100%. Slag is grey vesicular).
0.80	B2				0.50	
0.90	ES3				(1.00)	MADE GROUND (Yellow brown clayey sandy gravel and cobbles. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded and includes slag, concrete, clinker and red brick. Slag content is 50-75%. Slag is red/brown. Cobbles are angular and includes slag. Slag content is 100%. Slag is grey/red/brown iron rich).
					1.50	
1.70	J4				(2.00)	Soft to firm brown grey mottled black slightly sandy CLAY grading to firm and friable becoming stiff grey red brown sandy CLAY with occasional silty laminae. Sand is fine to medium. Wooden piles driven into upper section of clay (soft zone to approximately 2.20m BGL).
1.80	B5					
					3.50	Complete at 3.50m BGL.
2.70	J6					
2.80	B7					



GROUNDWATER
 Saturated strata at 0.90m 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. 4287
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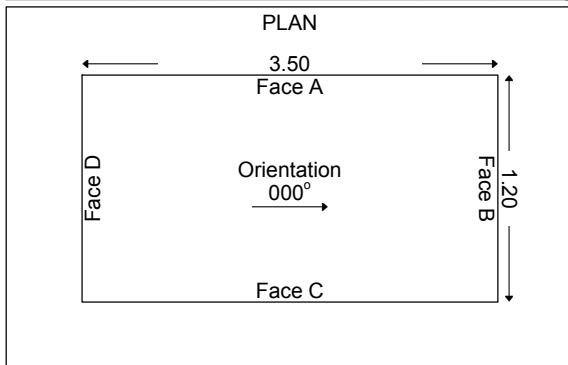
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TRIAL PIT RECORD

Status:-
PRELIM1

Project: Eston Road Intrusive Works		Exploratory Hole No. ATK_TP_012	
Client: Tees Valley Combined Authority		Location: Clay Lane Commercial Park E: N:	
Method (Equipment): Machine Excavated (JCB 3CX)		Ground Level (m):	Start Date: 17/06/2020
		Sheet: 1 of 1	

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description	
0.40	J1	105 (44)kPa				MADE GROUND (Grey gravel. Gravel is fine to coarse subangular to subrounded and includes slag. Slag content is 100%. Slag is grey vesicular).	
0.50	B2					(0.40)	MADE GROUND (Grey black sandy gravel. Sand is fine to coarse and includes mainly ash. Gravel is fine to coarse subangular and includes concrete, ash, clinker, red brick and slag. Slag content is 0-25%. Slag is grey vesicular).
0.90	J3					0.70	Soft to firm brown grey mottled black slightly sandy CLAY. Sand is fine to medium. (Possibly reworked).
1.20	B4					1.10	
1.40	ES5					1.80	Firm and friable becoming stiff grey red brown sandy CLAY with occasional silty laminae. Sand is fine to medium.
2.00	J6					(1.00)	
2.30	B7					2.80	Stiff red brown slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is fine to medium subangular and includes mudstone and siltstone.
2.80	HSV					(0.70)	
2.90	J8					3.50	Complete at 3.50m BGL.
3.20	B9						



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) HSV unsuitable on excavated blocks due to friable nature (0.00-2.80m 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. 4287
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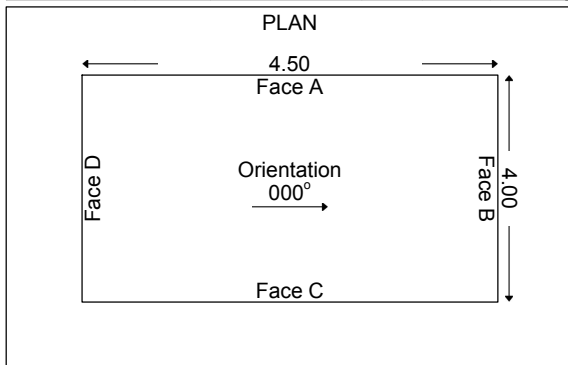
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TRIAL PIT RECORD

Status:-
PRELIM1

Project: Eston Road Intrusive Works			Exploratory Hole No. ATK_TP_001	
Client: Tees Valley Combined Authority		Location: Clay Lane Commercial Park E: N:		
Method (Equipment): Machine Excavated (JCB 3CX)		Ground Level (m):	Start Date: 19/06/2020	Sheet: 1 of 1

SAMPLES & TESTS			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
0.20	J1				0.15	MADE GROUND (Compacted grey sandy gravel. Sand is fine to coarse and includes mainly concrete and ash. Gravel is fine to coarse subangular and includes slag and concrete. Slag content is 50-75%. Slag is grey vesicular).
0.40	B2			1.55		MADE GROUND (Grey brown sandy gravel with cobbles. Sand is fine to coarse and includes mainly ash. Gravel is fine to coarse subangular and includes slag, concrete, brick, ash, metal and clinker. Slag content is 25-50%. Slag is grey vesicular. Cobbles are angular slag, red brick and concrete. Slag content is 0-25%. Slag is of grey vesicular).
0.60	ES3			1.70		MADE GROUND (Grey brown clayey sandy gravel with cobbles and reworked grey brown soft silty CLAY bands. Sand is fine to coarse and includes mainly ash. Gravel is fine to coarse subangular and includes slag, concrete, brick, ash, metal and clinker. Slag content is 25-50%. Slag is grey vesicular. Cobbles are angular and include slag, red brick and concrete. Slag content is 0-25%. Slag is grey vesicular).
1.20	J4			2.60		at c.2.60m BGL ... concrete slab/base. Terminated at 2.60m BGL - concrete slab.
1.40	B5					
2.20	J6					
2.60	B7					



GROUNDWATER
 Groundwater seepage at 2.10m 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. 4287
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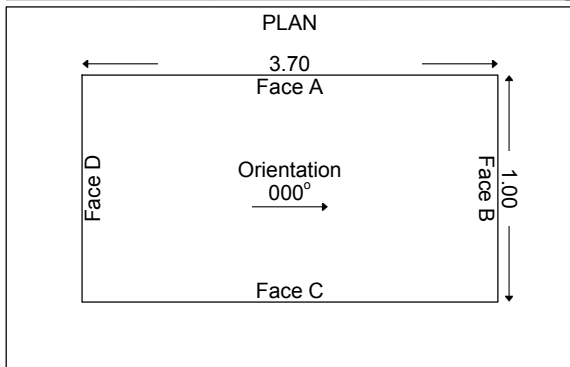
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 Tel: 01772 735 300 Fax: 01772 735 999

TRIAL PIT RECORD

Status:-
PRELIM1

Project: Eston Road Intrusive Works			Exploratory Hole No. ATK_TP_002	
Client: Tees Valley Combined Authority		Location: Clay Lane Commercial Park		Sheet: 1 of 1
Method (Equipment): Machine Excavated (JCB 3CX)		Ground Level (m):	Start Date: 18/06/2020	

SAMPLES & TESTS			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
0.30 0.40	J1 B2				(0.50)	MADE GROUND (Compacted grey brown black sandy gravel. Sand is fine to coarse and includes mainly ash. Gravel is fine to coarse subangular and includes slag, red brick, ash, concrete. Slag content 25-50%. Slag is grey vesicular).
0.80	J3				(1.10)	MADE GROUND (Grey brown black sandy gravel with cobbles. Sand is fine to coarse and includes mainly ash. Gravel is fine to coarse subangular and includes slag, red brick, ash and concrete. Slag content is 0-25%. Slag is grey vesicular. Cobbles are angular and include slag, concrete, metal and wooden railway sleepers. Slag content is 25-50%. Slag is grey vesicular). at c.0.80m BGL ... 3.50m of railway track line removed.
1.30 1.40	B4 ES5				1.60	
1.80 2.00	J6 B7				(1.20) 2.80	Soft and friable grey mottled black silty CLAY gradually becoming a firm brown grey silty slightly sandy CLAY with root fibres and sand lenses. Sand is fine to medium. Slight organic odour noted.
2.90 3.00 3.20	J8 ES9 B10				(0.70) 3.50	Firm and friable grey brown laminated CLAY with silty lenses.
<i>Complete at 3.50m BGL.</i>						



GROUNDWATER
 No groundwater inflow observed.

STABILITY
 Pit sides and base stable throughout excavation.

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

GENERAL REMARKS
 (1) HSV unsuitable on excavated blocks due to friable nature.

All dimensions in metres Scale 1:50	For explanation of symbols and abbreviations see Key Sheets	Checked by:	Logged by: D. Portsmouth	Contract No. 4287
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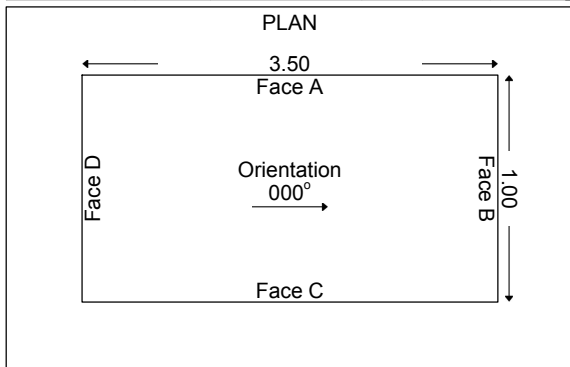
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 Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL Tel: 01772 735 300 Fax: 01772 735 999

TRIAL PIT RECORD

Status:-
PRELIM1

Project: Eston Road Intrusive Works			Exploratory Hole No. ATK_TP_003	
Client: Tees Valley Combined Authority		Location: Clay Lane Commercial Park		Sheet: 1 of 1
Method (Equipment): Machine Excavated (JCB 3CX)		Ground Level (m):	Start Date: 18/06/2020	

SAMPLES & TESTS			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
0.60	J1				(0.50)	MADE GROUND (Compacted grey brown black sandy gravel. Sand is fine to coarse and includes mainly ash. Gravel is fine to coarse subangular and includes slag, red brick, ash and concrete. Slag content is 0-25%. Slag is grey vesicular).
0.80	B2				(0.60)	MADE GROUND (Grey brown black sandy gravel with cobbles. Sand is fine to coarse and includes mainly ash. Gravel is fine to coarse subangular and includes slag, red brick, ash and concrete. Slag content is 0-25%. Slag is grey vesicular. Cobbles are angular and include slag, concrete and metal. Slag content is 0-25%. Slag is grey vesicular). at c.0.90m BGL ... 3" cable 1.00m from western edge of pit running North-South.
1.00	ES3				1.10	
1.40	J4				(1.10)	Soft and friable grey mottled black silty CLAY. Slight organic odour noted.
1.60	B5				2.20	
2.30	J6				(0.80)	Firm brown grey silty slightly sandy CLAY with root fibres. Sand is fine to medium.
2.60	B7				3.00	Firm and friable grey brown laminated CLAY with silty lenses.
2.80	ES8				(0.50)	
3.10	J9				3.50	<i>Complete at 3.50m BGL.</i>
3.30	B10					



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

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

GENERAL REMARKS
(1) HSV unsuitable on excavated blocks due to friable nature.

All dimensions in metres Scale 1:50	For explanation of symbols and abbreviations see Key Sheets	Checked by:	Logged by: D. Portsmouth	Contract No. 4287
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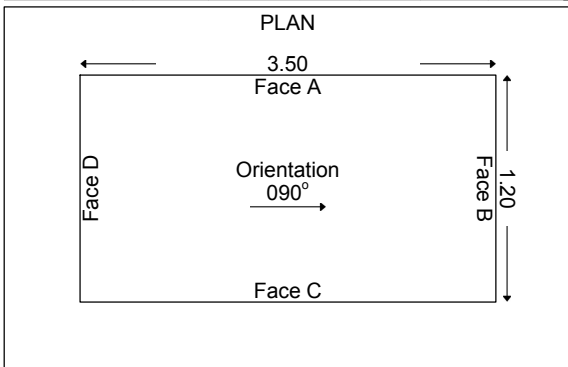
Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG Tel: 0191 387 4700 Fax: 0191 387 4710
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TRIAL PIT RECORD

Status:-
PRELIM1

Project: Eston Road Intrusive Works			Exploratory Hole No. ATK_TP_004	
Client: Tees Valley Combined Authority		Location: Clay Lane Commercial Park		Sheet: 1 of 1
Method (Equipment): Machine Excavated (JCB 3CX)		Ground Level (m):	Start Date: 18/06/2020	

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description	
0.30					[Cross-hatched pattern]	MADE GROUND (Grey brown red sandy gravel. Sand is fine to coarse. Gravel is fine to coarse subangular and includes red brick, concrete and slag. Slag content is 25-50%. Slag is grey vesicular).	
0.50						MADE GROUND (Concrete with 10mm rebar).	
0.80	J1				[Cross-hatched pattern]	MADE GROUND (Grey green blue gravel and cobbles. Gravel is fine to coarse subangular and includes slag. Slag content is 100%. Slag is of vesicular. Cobbles are subangular and include slag. Slag content is 100%. Slag is of vesicular).	
1.00	B2					(1.10)	
1.40	ES3						
1.80	J4				[X pattern]	Soft and friable grey mottled black silty CLAY. Slight organic odour noted.	
2.10	B5						
2.40	J6				[X pattern]	Firm brown grey silty slightly sandy CLAY with root fibres. Sand is fine to medium.	
2.60	B9						
2.80	ES10						(1.30)
3.50	J11					Complete at 3.50m BGL.	



GROUNDWATER
Saturated strata at 1.60m BGL (Heavy inflow).

STABILITY
Pit sides and base stable throughout excavation.

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

GENERAL REMARKS
(1) HSV unsuitable on excavated blocks due to friable nature.

All dimensions in metres Scale 1:50	For explanation of symbols and abbreviations see Key Sheets	Checked by:	Logged by: D. Portsmouth	Contract No. 4287
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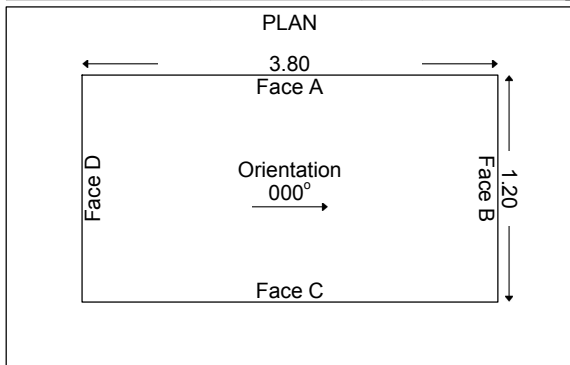
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TRIAL PIT RECORD

Status:-
PRELIM1

Project: Eston Road Intrusive Works		Exploratory Hole No. ATK_TP_005	
Client: Tees Valley Combined Authority	Location: Clay Lane Commercial Park E: N:		
Method (Equipment): Machine Excavated (JCB 3CX)	Ground Level (m):	Start Date: 18/06/2020	Sheet: 1 of 1

SAMPLES & TESTS			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
0.50	J1					MADE GROUND (Brown slightly clayey slightly gravelly sand with many rootlets. Sand is fine to coarse. Gravel is fine to medium subangular and includes brick and glass).
0.80	B2					MADE GROUND (Red brown black sandy gravel with cobbles. Sand is fine to coarse and includes mainly ash. Gravel is fine to coarse subangular and includes slag, red brick, ash and concrete. Slag content is 0-25%. Slag is grey vesicular. Cobbles are angular and include slag, concrete, wood and metal. Slag content is 0-25%. Slag is grey vesicular). at c.0.40m BGL ... 6" cast iron pipe at southern end of pit running East-West (intact). at c.0.90m BGL ... 3" broken cable at northern end of pit running East-West.
1.00	ES3					
1.60	J4					Soft becoming firm brown grey slightly sandy CLAY. Sand is fine to medium. between c.1.20-2.00m BGL ... slight organic odour noted.
1.80	B5					
2.20	J6					Complete at 3.50m BGL.
2.80	B7					
2.90	ES8					
3.20	J9					



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

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

GENERAL REMARKS
(1) HSV unsuitable on excavated blocks due to friable nature.

All dimensions in metres Scale 1:50	For explanation of symbols and abbreviations see Key Sheets	Checked by:	Logged by: D. Portsmouth	Contract No. 4287
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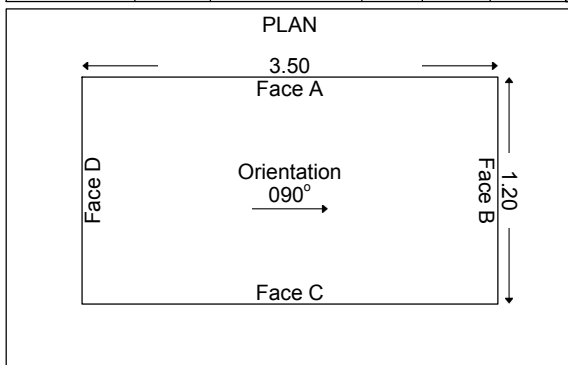
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TRIAL PIT RECORD

Status:-
PRELIM1

Project: Eston Road Intrusive Works		Exploratory Hole No. ATK_TP_006	
Client: Tees Valley Combined Authority	Location: Clay Lane Commercial Park E: N:		
Method (Equipment): Machine Excavated (JCB 3CX)	Ground Level (m):	Start Date: 18/06/2020	Sheet: 1 of 1

SAMPLES & TESTS			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
0.20	J1					MADE GROUND (Grey gravel. Gravel is fine to coarse subangular and includes slag, Slag content is 100%. Slag is vesicular slag).
0.30	B2					
0.60	J3					MADE GROUND (Grey brown black sandy gravel with cobbles. Sand is fine to coarse and includes mainly ash. Gravel is fine to coarse subangular slag, red brick, ash and concrete. Slag content is 0-25%. Slag is vesicular slag. Cobbles are angular and include slag, concrete and metal. Slag content is 0-25%. Slag is vesicular slag).
0.80	B4					
0.90	ES5					MADE GROUND (Red orange brown sandy gravel. Sand is fine to coarse and includes mainly ash. Gravel is fine to coarse subangular of clinker, concrete, red brick and slag. Slag content is 0-25%. Slag is vesicular slag).
1.20	J6					
1.40	B7					Soft and friable grey mottled black silty CLAY. Slight organic odour noted.
2.10	J8					
2.30	B9					Firm brown grey silty slightly sandy CLAY with root fibres. Sand is fine to medium.
2.50	ES10					
2.90	J11					Firm and friable grey brown laminated CLAY with silty lenses.
3.00	B12					
						Complete at 3.50m BGL.



GROUNDWATER
Saturated strata at 1.20m BGL (Slight inflow).

STABILITY
Pit sides and base stable throughout excavation.

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

GENERAL REMARKS
(1) HSV unsuitable on excavated blocks due to friable nature.

All dimensions in metres Scale 1:50	For explanation of symbols and abbreviations see Key Sheets	Checked by:	Logged by: D. Portsmouth	Contract No. 4287
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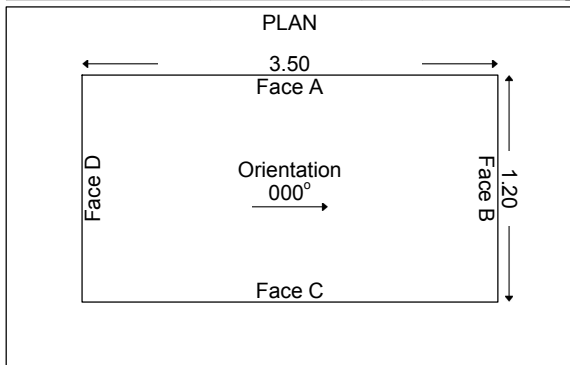
Tel: 0191 387 4700 Fax: 0191 387 4710
 Tel: 01772 735 300 Fax: 01772 735 999

TRIAL PIT RECORD

Status:-
PRELIM1

Project: Eston Road Intrusive Works		Exploratory Hole No. ATK_TP_007	
Client: Tees Valley Combined Authority		Location: Clay Lane Commercial Park E: N:	
Method (Equipment): Machine Excavated (JCB 3CX)		Ground Level (m):	Start Date: 16/06/2020
		Sheet: 1 of 1	

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.20	J1				[Cross-hatch pattern]	0.30	MADE GROUND (Compacted grey sandy gravel. Sand is fine to coarse and includes mainly concrete and ash. Gravel is fine to coarse subangular and includes slag and concrete. Slag content is 50-75%. Slag is grey vesicular).
0.40	J2				[Cross-hatch pattern]	0.55	
0.50	B3				[Cross-hatch pattern]	(0.45)	
0.60	J4				[Cross-hatch pattern]	1.00	
0.70	B5				[Cross-hatch pattern]		
0.90	ES6				[Cross-hatch pattern]		
1.30	J7				[X pattern]	1.10	MADE GROUND (Grey brown sandy gravel with medium cobble content. Sand is fine to coarse and includes mainly ash. Gravel is fine to coarse subangular and includes slag, concrete, brick, ash, dolomite and clinker. Slag content is 25-50%. Slag is grey vesicular. Cobbles are angular and includes slag and concrete. Slag content is 0-25%. Slag is grey vesicular).
1.50	B8				[X pattern]	2.10	
2.30	J9				[Horizontal line pattern]	2.10	MADE GROUND (Brown black sandy gravel with low to medium cobble content. Sand is fine to coarse and includes mainly ash. Gravel is fine to coarse subangular and includes ash, clinker, coke and slag. Slag content is 25-50%. Slag is grey vesicular. Cobbles are angular and include metal, wood and concrete). at c.0.80m BGL ... 1No. 1" electric cable (broken) running from SE corner to NW corner of pit inside a 6" clay pipe conduit, 2No. 3" electric cables (broken) running side by side N-S centred in pit and 1No. 3" electric cable (broken) running E-W at southern end of pit.
2.50	B10				[Horizontal line pattern]	3.20	
2.80	ES11				[Horizontal line pattern]	3.50	
3.30	J12				[Horizontal line pattern]	3.50	Soft brown interlaminated SILT and CLAY with silt lenses.
3.50	B13				[Horizontal line pattern]		Firm and friable brown grey slightly sandy CLAY. Sand is fine to medium.
							Firm and friable grey brown laminated CLAY. (Recovered in slab like layers). <i>Complete at 3.50m BGL.</i>



GROUNDWATER
 Water ingress from 6" cable conduit. (Slight ingress).

STABILITY
 Pit sides and base stable throughout excavation.

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

GENERAL REMARKS
 (1) Clay unsuitable for HSV.

All dimensions in metres Scale 1:50	For explanation of symbols and abbreviations see Key Sheets	Checked by:	Logged by: D. Portsmouth	Contract No. 4287
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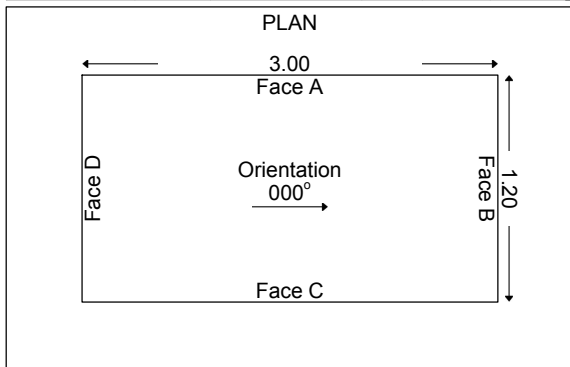
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TRIAL PIT RECORD

Status:-
PRELIM1

Project: Eston Road Intrusive Works			Exploratory Hole No. ATK_TP_008	
Client: Tees Valley Combined Authority		Location: Clay Lane Commercial Park E: N:		
Method (Equipment): Machine Excavated (JCB 3CX)		Ground Level (m):	Start Date: 16/06/2020	Sheet: 1 of 1

SAMPLES & TESTS			STRATA			
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description
0.40	J1					MADE GROUND (Black brown sandy gravel with medium cobble content. Sand is fine to coarse and includes mainly ash. Gravel is fine to coarse subangular and includes slag, concrete, brick, ash, dolomite and clinker. Slag content is 25-50%. Slag is grey vesicular. Cobbles are angular and include slag, concrete and red brick. Slag content is 0-25%. Slag is grey vesicular).
0.80	B2			0.90		
1.00	ES2A					MADE GROUND (Yellow, red, brown sandy gravel with high cobble content and medium boulder content. Sand is fine to coarse and includes mainly ash. Gravel is fine to coarse subangular and includes slag, red and yellow brick, ash and concrete. Slag content is 0-25%. Slag is grey vesicular. Cobbles are angular and include slag, concrete, wood and metal. Slag content is 0-25%. Slag is grey vesicular. Boulders are angular and include concrete and metal (girders)). <i>Terminated at 1.30m BGL - concrete slab.</i>
1.20	J3			1.30		
1.30	B4					



GROUNDWATER
 Saturated strata at 0.90m BGL (Heavy inflow).

STABILITY
 Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION		
Sketch Diagram:	No Sketch Taken	
Photographs:	No	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. 4287
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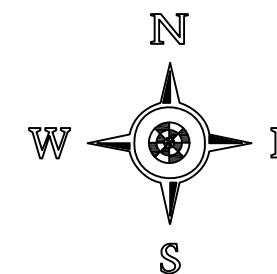
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Unit 25 Stella Gill Industrial Estate
Pelton Fell
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(Fax): 0191 387 4710
(Email): enquiries@aeg.uk.net

KEY:



TRIAL PIT



Base Plan Supplied by Consulting Engineer

Drawing Title:
ENC 01 : Exploratory Hole Location Plan

Drawing No.:
AEG/4287/01

Contract Title:
Eston Road Intrusive Works

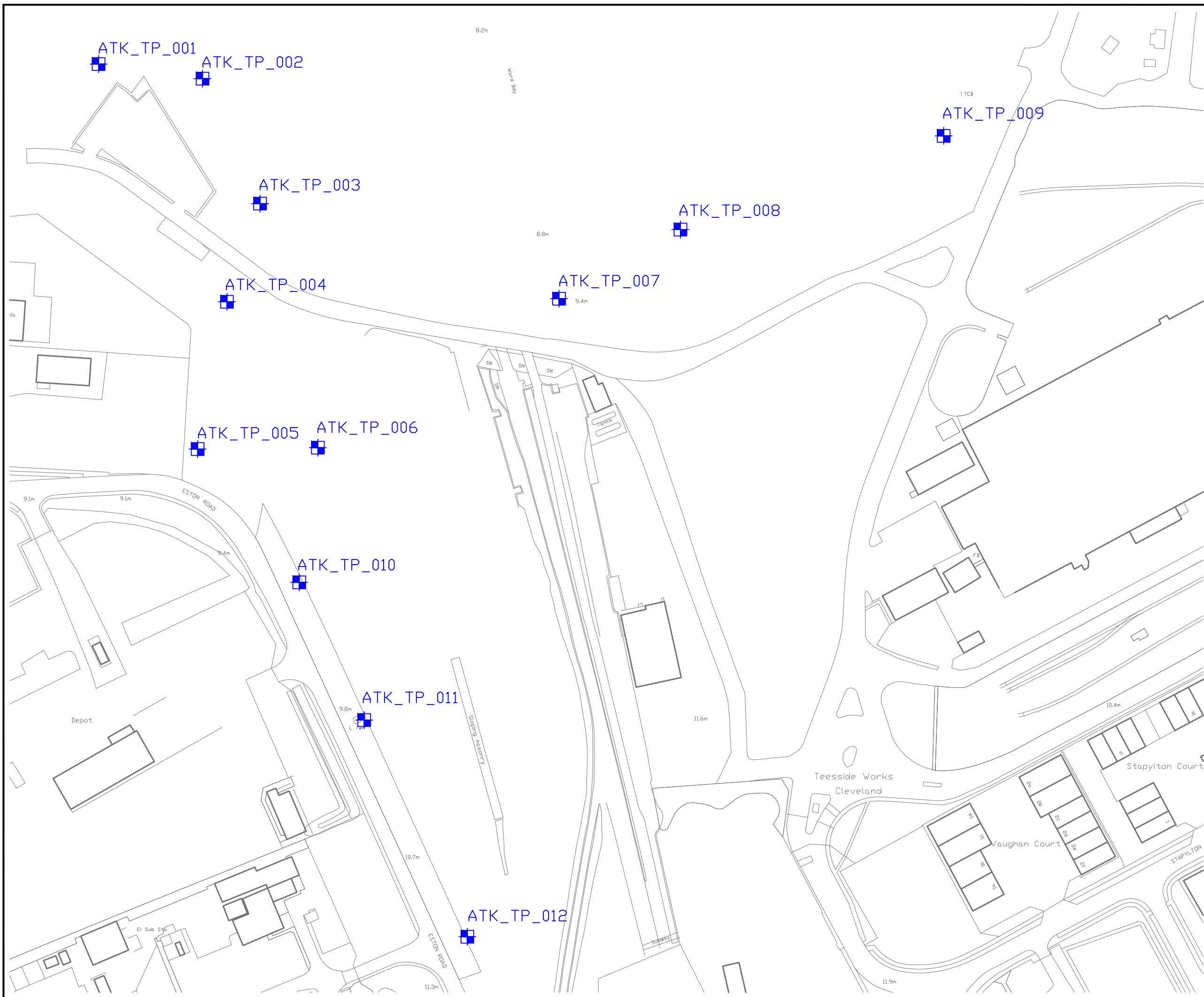
Client:
Tees Valley Combined Authority

Consultant:
Arcadis
1 Whitehall Riverside
Leeds, LS1 4BN

Contract No.:
4287

Scale:
NOT TO SCALE

Date:
10/08/2020



TRS REPORT

Report Ref: BG0E-F/AEG/PSR/TRS/07/20/RP2
Date Issued: 31 July 2020
TRS Sample Refs: BG0E01-04/BG0F01-02
Order No: LA2343

**EXAMINATION OF SIX SAMPLES
FROM
4251 PRAIRIE SITE GROUND INVESTIGATION
WORKS, REDCAR
FOR
ALLIED EXPLORATION & GEOTECHNICS LTD**



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North Lincolnshire, DN19 7PZ, United Kingdom

A Limited Company registered in England. Company Registration No: 2518421

**EXAMINATION OF SIX SAMPLES
FROM
4251 PRAIRIE SITE GROUND INVESTIGATION
WORKS, REDCAR
FOR
ALLIED EXPLORATION & GEOTECHNICS LTD**

1. BACKGROUND

Four bulk samples were received from the above site on 11th May 2020, with a further two samples arriving on 16th June 2020. Each sample was weighed and allocated a unique TRS reference number, the details of which are recorded below:-

TRS Ref	Site Ref	Depth/m	Mass/kg
BG0E01	TP109 B2	1.0	11.8
BG0E02	TP116 B2	1.0	12.3
BG0E03	TP117 B2	1.0	16.3
BG0E04	TP121 B5	1.8	12.1
BG0F01	TP131 B4	1.5	10.0
BG0F02	TP132 B3	1.0	9.8

There was a delay in processing these samples due to the Coronavirus lockdown.

The purpose of the exercise was to identify the range and relative concentrations of any iron and steelmaking slags present in the samples, and whether there was any potential for volumetric instability from the materials.

2. SAMPLE PREPARATION & PROGRAMME OF ANALYSIS

The samples were primary crushed to reduce particle size down to <50mm, portions then being selected and dried at low temperature to constant weight. The dried material was subjected to a regime of stage crushing and quartering to further reduce particle size down to <5mm. Portions of this <5mm material were made up into resin bound blocks, one face of which was ground flat and polished using diamond pastes. Further portions of the <5mm material were milled to a fine powder. Fractions of material were extracted throughout the preparation procedure to provide the materials necessary for the further tests and analyses required in the programme.

A petrological examination was made of the polished blocks using reflected light microscopy, the complete findings of which are recorded in appendix A. The results of this examination were discussed in our report of 10th July 2020. On the basis of that report, the following tests and analyses were carried out on the samples:-

Samples BG0E01-02 were subjected to the following tests & analyses to assess the potential for expansion of the blast furnace slag.

- Water soluble sulphate (table 1)
- Acid soluble sulphate (table 1)
- Total sulphur (table 1)
- Thermal analysis (table 3)
- TRS accelerated expansion test (table 4)

Samples BG0E04 & BG0F01-02 were subjected to the following tests & analyses to assess the potential for expansion of the basic steel slag.

- Free CaO (table 2)
- Free MgO (table 2)
- Thermal analysis (table 3)
- TRS accelerated expansion test (table 4)

Sample BG0E03 were subjected to the following tests & analyses to assess the potential for expansion of the mixed slag.

- Water soluble sulphate (table 1)
- Acid soluble sulphate (table 1)
- Total sulphur (table 1)
- Free CaO (table 2)
- Free MgO (table 2)
- Thermal analysis (table 3)
- TRS accelerated expansion test (table 4)

3. DISCUSSION OF RESULTS

3.1 Petrology

A petrological examination was made of the six samples using reflected light microscopy. The complete findings of this examination are recorded in appendices A and B.

Blast furnace slag was present in all six samples, with substantial quantities present in samples BG0E01-03 and small amounts in samples BG0E04 & BG0F01-02. The blast furnace slag was predominantly crystalline with only minor amounts of glassy material seen. Secondary alteration due to weathering was moderate, consisting mainly of pore infill and surface rinds. Products of alteration included calcite, with other products being difficult to identify specifically under the microscope. Old weathered blast furnace slag may occasionally contain pockets of potentially expansive material (see appendix C). This potential can only be assessed by direct expansion testing (see sections 3.2-3.5). The unaltered slag consisted predominantly of melilite, along with more minor amounts of larnite, bredigite, spinel, metallic iron and sulphides.

Basic steel slag was present in all six samples. Samples BG0E01-02 contained minor amounts (small/very small), sample BG0E03 contained a medium amount, but samples BG0E04 & BG0F01-02 comprised predominantly of basic steel slag. The slag was extensively altered due to weathering, the secondary phases being difficult to identify specifically under the microscope. The unaltered basic steel slag consisted largely of dicalcium silicate, along with more minor amounts of RO

& R_3O_4 phase, CaF phase, tricalcium silicate, lime phase and periclase. The mineralogy of the basic steel slag would suggest that it may have significant potential for expansion (see appendix C). This potential can only be assessed by direct expansion testing (see sections 3.2-3.5).

Minor amounts (small / very small) of basic refractory material were seen in four of the samples. This material, even in minor amounts, can have significant potential for expansion (see appendix C).

Other constituents seen in the samples in minor concentrations included alumino-silicate brick, quartz, limestone, iron ore, iron ore sinter, cinder, metal, coal, coke and fume. A cementitious material often bound the smaller particles together. This material appeared similar to the slag alteration products.

3.2 Sulphur Species

The following range of analyses were performed on samples BG0E01-03 (These samples contained significant amounts of blast furnace slag). The results are recorded in table 1:-

- Water soluble sulphate
- Acid soluble sulphate
- Total sulphur

Total sulphur values were in the range 0.62 to 1.07 percent. Acid soluble sulphates were in the range 0.30 to 0.87 percent, with corresponding water soluble sulphates of 0.17 to 0.35 g/l. These sulphate and sulphur values were fairly typical for blast furnace slag. However, care should be taken when specifying concrete that may come into contact with the slag. Calculations show that between 19 and 33 percent of the available sulphur is present as sulphate.

3.3 Thermal Analysis

Simultaneous differential thermal analysis (DTA) and thermo-gravimetric analysis (TGA) were performed on all six samples. The results are recorded in table three.

Ettringite was seen in three of the samples examined, at trace levels only. Gypsum was seen in all but one of the samples, at between trace and 3.7 percent. On comparing the gypsum values with the acid soluble sulphates, some of the gypsum values were overstated. This is common in old weathered blast furnace slag, and is usually an indicator of the presence of thaumasite. The presence of ettringite and possibly thaumasite would suggest some past expansion has occurred in the blast furnace slag.

Calcium hydroxide was recorded in four of the samples, at between 0.5 and 2.5 percent. Magnesium hydroxide was measured in three of the samples, at between 0.5 and 1.0 percent. These values were used to correct the free CaO and free MgO analyses recorded in table 2.

Calcite was present in all of the samples examined at between 2.4 and 5.6 percent. This product is an indicator as to the weathered state of the slag.

3.4 Free CaO & Free MgO

Free CaO & free MgO analyses were carried out on samples BG0E03-04 & BG0F01-02 (These samples contained medium or more mounts of basic steel slag). The results are recorded in table 2. Both original and corrected values are recorded. The original values include both the oxide (CaO and MgO) and the hydroxide ((Ca(OH)₂ and Mg(OH)₂) contents. The corrected values report only the oxide content (CaO and MgO) after correction using the hydroxide values

from the thermal analyses. These corrected values are the more significant, as it is only the oxides that are still free to hydrate, i.e. expand.

Free lime was recorded in the samples at between 1.5 and 5.2 percent. Free magnesia was recorded at between 0.3 and 3.3 percent. These corrected free lime and free magnesia levels record oxides that are potentially still free to hydrate (i.e. expand).

3.5 TRS Accelerated Expansion Test

The TRS accelerated expansion test was performed on all six samples. The results are recorded in table four. Note that the test measures potential for future expansion, and is not a measure of expansion that may have taken place in the past.

Samples consisting predominantly of blast furnace slag, with only minor amounts of basic steel slag recorded expansion results of between 0.22 and 0.25 percent. The sample containing mixed blast furnace slag and basic steel slag recorded an expansion result of between 0.50 percent. Samples consisting predominantly of basic steel slag recorded expansion results of between 2.56 and 3.11 percent.

4. CONCLUSIONS & RECOMMENDATIONS

The following conclusions can be drawn:-

- Blast furnace slag was a dominant constituent in three of the samples (BG0E01-03) and a minor constituent in the remaining three. The slag was mainly crystalline although minor amounts of glassy material were seen. The slag showed some alteration due to weathering. Old weathered blast furnace slag may occasionally contain pockets of potentially expansive material. Potential for expansion can only be assessed with direct expansion testing.
- Further testing of samples consisting predominantly of blast furnace slag (with up to medium amounts of basic steel slag) recorded expansion results of between 0.22 and 0.50 percent. Thermal analysis indicated some evidence of past expansion of the blast furnace slag (presence of ettringite and possibly thaumasite). The sulphate values should be taken into consideration when specifying concrete that may come into contact with the slag.
- Basic steel slag was the dominant constituent in samples BG0E4 and BG0F01-02. It was also present in more minor amounts (vs to m) in the remaining three samples. This material is likely to present a significant risk of expansion. Potential for expansion can only be assessed with direct expansion testing.
- Expansion testing of the samples consisting mainly of basic steel slag (BG0E04 & BG0F01-02) recorded expansion results of between 2.56 and 3.11 percent.
- Minor amounts of basic refractory material were seen in four of the six samples examined. This product can be a significant source of expansion, even when present in relatively small amounts.

- Other products were seen in the samples in minor amounts including alumino-silicate brick, quartz, limestone, iron ore, iron ore sinter, cinder, metal, coal, coke and fume.

Note

These conclusions apply only to the samples tested and may not represent the bulk of the material on the site from which they were taken.

Ian D. Thomas

Ian D Thomas BSc(Hons)

31 July 2020

TABLE 1 **SULPHUR SPECIES ANALYSES**

TRS Ref	Site Ref	Water Sol.	Acid Sol.	Total S
		SO ₃ (g/l)	SO ₃ (%)	(%)
BG0E01	TP109	0.19	0.87	1.07
BG0E02	TP116	0.17	0.43	0.86
BG0E03	TP117	0.35	0.3	0.62
BG0E04	TP121	-	-	-
BG0F01	TP131	-	-	-
BG0F02	TP131	-	-	-

TABLE 2 **ANALYSIS FOR FREE CaO AND FREE MgO**

TRS Ref	Site Ref	Free CaO	Free CaO	Free MgO	Free MgO
		Original (%)	Corrected (%)	Original (%)	Corrected (%)
BG0E01	TP109	-	-	-	-
BG0E02	TP116	-	-	-	-
BG0E03	TP117	2	1.5	1.7	1.7
BG0E04	TP121	7.1	5.2	1.1	0.8
BG0F01	TP131	4.9	4.3	3.7	3.3
BG0F02	TP131	5.6	4.6	1.0	0.3

TABLE 3 **RESULTS FROM THERMAL ANALYSIS**

TRS Ref	Site Ref	Mass % by Thermal Analysis						
		L.O.I.	Ettringite	Gypsum	Calcite	Ca(OH) ₂	Mg(OH) ₂	Others
BG0E01	TP109	6.29	trace	3.7	2.4	0.0	0.0	-
BG0E02	TP116	5.35	trace	1.2	4.4	0.0	0.0	clay?
BG0E03	TP117	5.60	0.0	trace	5.4	0.5	0.0	quartz
BG0E04	TP121	7.08	trace	trace	2.6	2.5	0.5	-
BG0F01	TP131	6.86	0.0	trace	5.6	0.8	0.6	quartz
BG0F02	TP131	3.67	0.0	0.0	3.4	1.3	1.0	-

TABLE 4 **TRS ACCELERATED EXPANSION TEST**

TRS Ref	Site Ref	7 day	14 day	21 day	28 day
		(%)	(%)	(%)	(%)
BG0E01	TP109	0.15	0.22	-	-
BG0E02	TP116	0.20	0.25	-	-
BG0E03	TP117	0.36	0.45	0.48	0.50
BG0E04	TP121	0.91	1.59	2.11	2.56
BG0F01	TP131	1.87	2.76	3.05	3.11
BG0F02	TP131	1.23	1.99	2.90	2.93

APPENDIX A

PETROLOGICAL REPORT ON SAMPLES BGOE 01-04

A petrological examination has been carried out of four samples BGOE 01 to 04.

Polished blocks were prepared using particulate material crushed to a nominal size of -5mm . Representative material was made up into resin-bonded blocks. One face of each of these was ground flat and polished using diamond pastes. In addition, the surfaces were selectively etched with water and 0.1%N HCl in order to help with the phase identification.

The detailed results are given in the accompanying Table.

Samples 01, 02 and 03 consist largely of blast furnace slag and its alteration products.

Sample 04 is mainly basic steel slag whilst samples 01, 02 and 03 have very small, small and medium amounts respectively. Very little basic refractory material was seen.

Blast furnace slag

The unaltered blast furnace slag consists mainly of melilite (Ca,Mg,Al silicate). It is crystalline with crystals varying up to about 1mm in size. The matrix, the space between the melilite crystals, is partly occupied by silicate glass and partly with other silicates such as larnite ($\beta\text{-Ca}_2\text{SiO}_4$) and bredigite (Ca_2SiO_4 with some Mg in solid solution). Also, some spinel (MgAl_2O_4) occurs as a primary phase. The slag contains minor amounts of iron metal occurring as tiny globules and prills and, also, dendritic crystals of Ca,Mn sulphide. Secondary alteration is moderate. It is mainly restricted to pore infill and the formation of thin rinds and to the replacement of the matrix phases, especially the larnite. The secondary products are mostly finely granular and are difficult to identify specifically under the microscope. Some calcite (CaCO_3) its present but no well-crystallised gypsum ($\text{CaSO}_4.2\text{H}_2\text{O}$) was seen.

Basic steel slag

The unaltered basic steel slag consists mainly of dicalcium silicate, tricalcium silicate, RO and R_3O_4 phases (FeO and Fe_3O_4 with some Al, Mn, Mg and Ca in solid solution) and CaF phases (complex Ca alumino-ferrites). Individual particles vary considerably in composition. Lime phase (CaO with some Fe, Mn and Mg in solid solution) is present in substantial amounts. It occurs mainly as granular particles up to about 0.1 mm in size that are often packed together as macro-inclusions. Periclase (MgO with some Fe in solid solution) is uncommon. Some

metal is present as prills. The slag is extensively altered to secondary products that are difficult to identify specifically and are, probably, mainly hydrated silicates but also include some calcite (CaCO_3) and, probably, portlandite (Ca(OH)_2).

Other constituents

These include rare acid (silicic) slag, quartz, limestone, iron ore, iron ore sinter, metal and associated red (goethitic) rust, coke and fume. The particles are bonded together by cementitious material that is similar to the slag alteration products but probably also includes some clay. It consists mostly of complex hydrates difficult to identify under the optical microscope.

TRS SAMPLES BG0E 01-04

	1	2	3	4
BLAST FURNACE SLAG				
Amount	L	L	I	s
Phases present:-				
Melilite	L	L	I	I
Larnite & bredigite	vs	vs	vs	-
Matrix & other silicates	s	s	s	-
Ca & Fe sulphides	vs	vs	vs	-
Metallic iron	vs	vs	s	-
Spinel	s	s	s	-
Glassy slag	-	vs	s	-
Alteration products	m	m	I	m
Calcite	s	s	-	-
BASIC STEEL SLAG				
Amount	vs	s	m	L
Phases present:-				
Dicalcium silicate	-	m	m	m
Tricalcium silicate	-	-	s	-
RO phase	vs	m	m	m
CaF phase	-	s	s	s
R3O4 phase	-	s	s	s
Metal & rust	-	s	s	vs
Lime phase	-	s	s	m
Periclase	vs	s	s	s
Alteration products	L	I	I	L
BASIC REFRACTORIES				
Amount	vs	vs	-	-
OTHER CONSTITUENTS				
Quartz, etc.	s	vs	s	s
Acid (silicic) slag	vs	-	-	-
Metal, rust, scale, etc.	s	s	s	s
Limestone & dolomite	-	vs	s	-
Iron ore, ironstone, etc.	vs	vs	-	-
Coke	vs	vs	vs	vs
Cementitious alteration products	s	s	s	s

L = very large, I = large, m = medium, s = small and vs = very small amounts

GENERAL EXPLANATION

L = very large, l = large, m = medium, s = small and vs = very small amounts.

Blast furnace slag. When present this consists mainly of melilite (Ca,Mg,Al silicate ranging in composition between $\text{Ca}_2\text{Al}_2\text{SiO}_7$ and $\text{Ca}_2\text{MgSi}_2\text{O}_7$). Other common phases are merwinite ($\text{Ca}_3\text{MgSi}_2\text{O}_8$), The matrix often consists of some of the above phases, especially melilite, but may also contain other phases such as wollastonite (CaSiO_3), anorthite ($\text{CaAl}_2\text{Si}_2\text{O}_8$) and pyroxene ($(\text{CaMg})\text{SiO}_3$). Spinel (MgAl_2O_4) may be present. Sulphides and metal usually occur and are mostly finely dispersed, but the metal sometimes occurs as prills and may contain some graphite and Ti carbo-nitride (TiCN). Material reported as ceramic in appearance is very finely crystalline. The alteration products often include calcite and gypsum but are mostly silicate and/or sulpho-aluminate hydrates that are difficult to identify specifically under the microscope.

Basic steel slag. When present this consists mainly of dicalcium silicate, mostly the β -form (larnite) but sometimes the alpha form. Phosphoric slags may contain nagelschmidtite (Ca_2SiO_4 with $\text{Ca}_3\text{P}_2\text{O}_8$ in solid solution). Other silicate often present in small amounts, unetched by dilute HCl, is probably melilite. RO, R_3O_4 and RF phases are typically present and are mainly FeO and Fe_3O_4 with some Mg, Mn, Ca, etc. in solid solution and complex Ca alumino-ferrites. There may also be some Fe_2O_3 and spinel ($(\text{Mg,Fe})\text{Al}_2\text{O}_4$). The slag typically carries minor amounts of periclase (MgO with some Fe in solid solution) and lime phase (CaO with some Fe, Mn & Mg in solid solution). Other possible minor constituents include fluorite (CaF_2) and apatite (Ca fluoro-phosphate), the last present in phosphoric slags. The alteration products are, again, difficult to identify specifically but are probably, mainly, hydrated silicates. Portlandite ($\text{Ca}(\text{OH})_2$) may be present.

Basic refractory material. When present, this is mainly magnesian and consists of granular periclase (MgO) with interstitial silicates. Sometimes samples contain chrome-magnesia material with chromite present in addition to the other phases. Hot face material (from close to the furnace) may also occur. The periclase and interstitial silicates show secondary alteration similar to that of the basic steel slag. Brucite ($\text{Mg}(\text{OH})_2$) is likely.

Acid steel slag. When present this consists mainly of fayalite ($(\text{Fe,Mn})_2\text{SiO}_4$), Fe,Mn oxides and cristobalite (high temperature SiO_2).

Other slags. The 'intermediate slag' (probably primary flush slags from steel furnaces) has a variable phase assemblage, being mainly formed of silicates, particularly dicalcium silicate, melilite, merwinite and a complex olivine phase together with spinel and wustite (FeO). Sometimes it contains significant amounts of periclase, well embedded in the slag. The 'ferrous slag' (probably from foundry operations) has similar silicates but much more substantial content of iron oxides, usually wustite. It is often associated with scale (iron oxides formed on the surface of steel during reheating/cooling). When present, the 'cindery slag' consists of various silicates and silicate glass with Fe oxides, hercynite (FeAl_2O_4) and, sometimes, corundum (Al_2O_3). It is usually derived from heating furnaces and is often associated with burnt shale. When present, the 'siliceous clinker' is similar but devoid of iron oxides.

Other constituents The alumino-silicate brick includes a range of refractory firebrick, common brick and alumina-rich refractories. The 'quartz, sandstone, etc.' may include used silica refractory material consisting of quartz and its high temperature forms. Sometimes there is a distinct granular texture and it is derived from silcrete, a kind of chert. Cementitious material may bond the finer particles together. It is similar to the other alteration products consisting mostly of complex hydrates difficult to identify under the microscope. Sometimes some is used Portland cement recognised by the relict textures of the clinker and the embedded quartz sand.

APPENDIX B

PETROLOGICAL REPORT ON SAMPLES BG0F 01 & 02

A petrological examination has been carried out of two samples BG0F 01 and 02.

Polished blocks were prepared using particulate material crushed to a nominal size of –5mm. Representative material was made up into resin-bonded blocks. One face of each of these was ground flat and polished using diamond pastes. In addition, the surfaces were selectively etched with water and 0.1%N HCl in order to help with the phase identification.

The detailed results are given in the accompanying Table.

Both samples consist mainly of basic steel slag with small but significant amounts of basic refractory material.

There are small amounts of blast furnace slag and its alteration products.

Blast furnace slag

The unaltered blast furnace slag consists mainly of melilite (Ca,Mg,Al silicate). It is crystalline with crystals varying up to about 1mm in size. The matrix, the space between the melilite crystals, is partly occupied by silicate glass and partly with other silicates. Also, some spinel ($MgAl_2O_4$) occurs as a primary phase. The slag contains minor amounts of iron metal. Secondary alteration is moderate. It is mainly restricted to pore infill and the formation of thin rinds. The secondary products are mostly finely granular and are difficult to identify specifically under the microscope. Some calcite ($CaCO_3$) is present but no well-crystallised gypsum ($CaSO_4 \cdot 2H_2O$) was seen.

Basic steel slag

Although the individual particles vary considerably in composition the two samples are broadly similar to one another.

The unaltered basic steel slag consists mainly of dicalcium silicate, tricalcium silicate, RO, R_3O_4 and R_2O_3 phases (FeO, Fe_3O_4 and Fe_2O_3 with some Al, Mn, Mg and Ca in solid solution), and CaF phases (complex Ca alumino-ferrites). Lime phase (CaO with some Fe, Mn and Mg in solid solution) is present in substantial amounts and is widespread. It occurs mainly as granular particles up to about 0.1 mm in size that tends to be packed together as macro-inclusions. Periclase (MgO with some Fe in solid solution) is present in small amounts and like lime phase is widespread. It tends to be present in the grain cores protected by marginal RO phase that is more iron rich. Some metal is present as small prills partly rusted. The slag is extensively altered to secondary products that are

difficult to identify specifically and are, probably, mainly hydrated silicates but also include some calcite (CaCO_3).

Basic refractory material

This is mainly magnesian and consists of two types: (a) coarsely crystalline granular periclase (MgO) with bonding by magnesian silicates and (b) finely crystalline material probably seawater magnesia.

Other constituents

These include quartz, alumino-silicate brick, cinder, metal with associated red (goethitic) rust, coke, coal and fume. The particles are bonded together by cementitious material that is similar to the slag alteration products but probably also includes some clay. It consists mostly of complex hydrates difficult to identify under the optical microscope.

TRS SAMPLES BG0F 01 & 02

	1	2
BLAST FURNACE SLAG		
Amount	s	s
Phases present:-		
Melilite	l	l
Matrix & other silicates	s	m
Metallic iron	-	vs
Spinel	-	s
Glassy slag	s	s
Alteration products	m	m
Calcite	-	s
BASIC STEEL SLAG		
Amount	L	L
Phases present:-		
Dicalcium silicate	l	m
Tricalcium silicate	-	s
Unetched silicate	-	s
RO phase	m	m
CaF phase	s	s
R3O4 & R2O3 phases	s	s
Metal & rust	s	s
Lime phase	s	s
Periclase	s	s
Alteration products	m	m
BASIC REFRACTORIES		
Amount	s	s
OTHER CONSTITUENTS		
Alumino-silicate brick	s	vs
Quartz, etc.	s	s
Cindery slag	vs	-
Fume	vs	vs
Metal, rust, scale, etc.	s	s
Coke	s	vs
Coal & char	s	-
Cementitious alteration products	s	s

L = very large, l = large, m = medium, s = small and vs = very small amounts

GENERAL EXPLANATION

L = very large, l = large, m = medium, s = small and vs = very small amounts.

Blast furnace slag. When present this consists mainly of melilite (Ca,Mg,Al silicate ranging in composition between $\text{Ca}_2\text{Al}_2\text{SiO}_7$ and $\text{Ca}_2\text{MgSi}_2\text{O}_7$). Other common phases are merwinite ($\text{Ca}_3\text{MgSi}_2\text{O}_8$), The matrix often consists of some of the above phases, especially melilite, but may also contain other phases such as wollastonite (CaSiO_3), anorthite ($\text{CaAl}_2\text{Si}_2\text{O}_8$) and pyroxene ($(\text{CaMg})\text{SiO}_3$). Spinel (MgAl_2O_4) may be present. Sulphides and metal usually occur and are mostly finely dispersed, but the metal sometimes occurs as prills and may contain some graphite and Ti carbo-nitride (TiCN). Material reported as ceramic in appearance is very finely crystalline. The alteration products often include calcite and gypsum but are mostly silicate and/or sulpho-aluminate hydrates that are difficult to identify specifically under the microscope.

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Basic refractory material. When present, this is mainly magnesian and consists of granular periclase (MgO) with interstitial silicates. Sometimes samples contain chrome-magnesia material with chromite present in addition to the other phases. Hot face material (from close to the furnace) may also occur. The periclase and interstitial silicates show secondary alteration similar to that of the basic steel slag. Brucite ($\text{Mg}(\text{OH})_2$) is likely.

Acid steel slag. When present this consists mainly of fayalite ($(\text{Fe,Mn})_2\text{SiO}_4$), Fe,Mn oxides and cristobalite (high temperature SiO_2).

Other slags. The 'intermediate slag' (probably primary flush slags from steel furnaces) has a variable phase assemblage, being mainly formed of silicates, particularly dicalcium silicate, melilite, merwinite and a complex olivine phase together with spinel and wustite (FeO). Sometimes it contains significant amounts of periclase, well embedded in the slag. The 'ferrous slag' (probably from foundry operations) has similar silicates but much more substantial content of iron oxides, usually wustite. It is often associated with scale (iron oxides formed on the surface of steel during reheating/cooling). When present, the 'cindery slag' consists of various silicates and silicate glass with Fe oxides, hercynite (FeAl_2O_4) and, sometimes, corundum (Al_2O_3). It is usually derived from heating furnaces and is often associated with burnt shale. When present, the 'siliceous clinker' is similar but devoid of iron oxides.

Other constituents The alumino-silicate brick includes a range of refractory firebrick, common brick and alumina-rich refractories. The 'quartz, sandstone, etc.' may include used silica refractory material consisting of quartz and its high temperature forms. Sometimes there is a distinct granular texture and it is derived from silcrete, a kind of chert. Cementitious material may bond the finer particles together. It is similar to the other alteration products consisting mostly of complex hydrates difficult to identify under the microscope. Sometimes some is used Portland cement recognised by the relict textures of the clinker and the embedded quartz sand.

APPENDIX C

MECHANISMS OF VOLUMETRIC INSTABILITY IN IRON AND STEEL INDUSTRY SLAGS

Volumetric change with time can occur in some types of iron and steel industry slags. These mechanisms are briefly described in this section.

Blast Furnace Slags

Fresh-make air-cooled, i.e. crystalline, blast furnace slags are almost always volumetrically stable after cooling. The two mechanisms for volumetric instability listed in BS1047:1983 – “Air Cooled Blast furnace Slag for use in Construction” are:-

- a) Beta to gamma inversion of dicalcium silicate.**
- b) Iron unsoundness.**

a) Research by G H Thomas on this phase transformation has shown the transformation to be athermal rather than isothermal. In practical terms this means that inversion, and the expansion associated with it, can only occur during the cooling cycle. In fully cooled material there would appear to be no further risk of instability from this mechanism.

b) Iron unsoundness is a very rare form of instability frequently associated with operating problems in the blast furnace. TRS know of only one instance in over 40 years. The mechanism, which is a hydrolysis reaction, is immediately triggered off by the presence of water. Once water has initiated the reaction, the mechanism proceeds to completion. It is impossible to arrest the process once started; at least by methods operating in normal ambient conditions.

It follows that the risk of late expansion from either of these mechanisms in blast furnace slag is remote.

c) Sulphoaluminate Type Activity

Some years ago, G. H. Thomas discovered a third mechanism that may give rise to volumetric instability. The process is possible only in some old blast furnace slag altered by weathering. When the sulphide sulphur in the blast furnace slags is oxidised during

weathering to sulphate, under some circumstances reactions can take place within the slag to produce an 'ettringite' type product. The process is somewhat analogous to sulphatic attack on concrete and has a similar result - expansion of the mass and associated disruption.

For the mechanism to have any significance, the slag needs to have residual potential for this reaction. Evidence of past activity does not necessarily indicate further reaction is possible.

The TRS accelerated expansion test is, we believe, uniquely capable of identifying such slags, as well as instability attributable to free CaO and free MgO in steel slag & etc.

Basic Steel Slags

Basic steel slags commonly contain significant quantities of free CaO and free MgO. These free oxides are well known for the massive expansion associated with their hydration. In practical terms, it is impossible to forecast when hydration will take place, but it can be up to decades after the material was cooled – or placed. The reasons are complex, but include the varying density of the oxides, due to the variation in temperatures at which the products have been held in the furnace. Other factors influencing rate of hydration include:-

- the protection of slags by a reaction product at the oxide interface with the slag.
- the presence of the oxides as lime or magnesia rich solid solutions instead of the pure oxide.

The result is potential future volumetric instability but at an unforeseeable date. Periclase, i.e. free MgO, is relatively much slower than free CaO to hydrate.

Scrap High Magnesia Refractories

These are particularly undesirable components in fill as they commonly result in high concentrations of free MgO. The problems associated with these concentrations are similar to those where periclase is found in basic steel slag.

APPENDIX D

Tidal Monitoring and Aquifer Permeability Testing

Appendix D Permeability Tests

The aim of the slug test is to determine an estimate for the hydraulic conductivity within the screened interval of a monitoring well.

Methodology

Slug testing at the site was conducted by AEG and the methodology is reported in **AEG 2020a**.

The slug tests were undertaken on monitoring wells BH101D (screening Glacial till), BH103 (screening Glaciolacustrine Deposits), BH108D and BH110 (both screening Mercia Mudstone) on 3rd July 2020. An additional test had been undertaken on BH103 on June 24th however AEG noted that the permeability was high based on the cohesive geology screened and these tests were disregarded by AEG.

Data Interpretation – Bouwer-Rice

To determine the hydraulic conductivity of an unconfined aquifer from a permeability test, Bouwer and Rice (1976) presented a method that is based on Thiem's equation. Using this methodology the data collected from the field is plotted on a graph showing natural logarithm of head versus time. The best-fit line of this graph defines the head change at time zero (h_0) and the head at an arbitrary time t (h_t). From this data and the specific monitoring well parameters hydraulic conductivity is calculated.

Permeability Test Results

Slug tests were performed on monitoring wells BH101D, BH103, BH108D and BH110, to provide an estimate of the hydraulic conductivity of the aquifer unit beneath the Site. The technique used by AEG was to extract or insert a solid mass of known volume to each well and monitor water level recovery electronically using a pressure transducer.

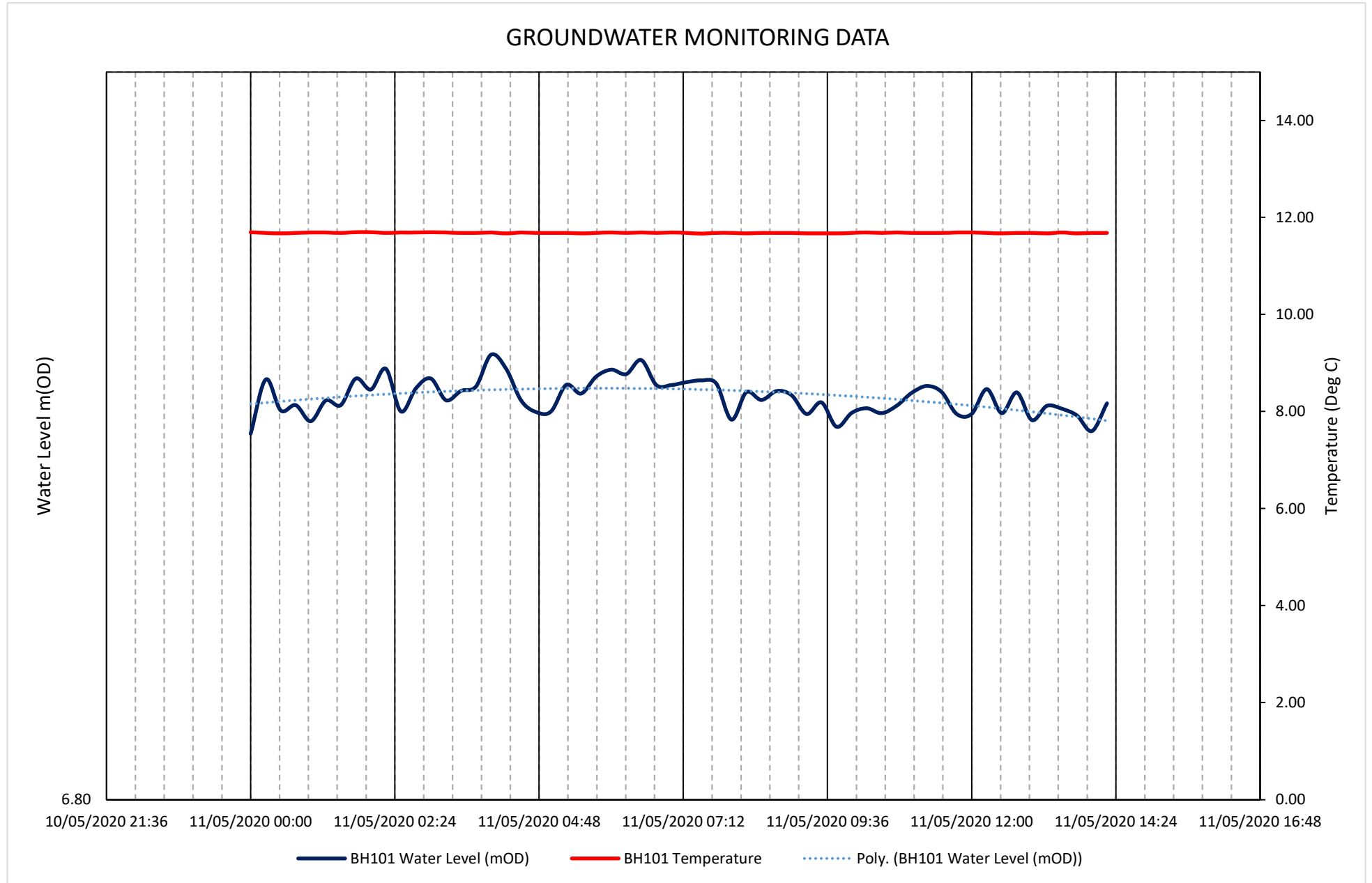
From this data the depths to water were calculated and combined with data on the physical properties of the well, calculations for the derivation of the value for hydraulic conductivities were calculated using Bouwer and Rice's method for a partially penetrating well in an unconfined aquifer for BH101D, BH108D and BH110. The recharge in BH103 during the test was noted to be rapid and not considered to be representative of the cohesive geology the well screens. Given the discrepancy between the geology and test, the data for BH103 was not used in permeability calculations. It is possible that the test was reflective of the permeability of the filter pack and not the surrounding geology.

The hydraulic conductivity estimated from the tests conducted in BH101D screening the Glacial Till indicated a range in conductivity from 0.0007 to 0.025 m/day. These values are broadly in line with literature values for a clay such as the US EPA 1988 who suggest 0.014m/day, Morris and Johnson 1967, who suggest 0.0002m/day and ConSim 2000, where a range in hydraulic conductivity of 8.6×10^{-7} to 0.00041 m/day is presented for a clay. As such the permeabilities are considered to be representative of the screened geology.

The hydraulic conductivity estimated from the tests conducted in BH108D and BH110 which screen the Mercia Mudstone were higher, between 0.3 and 0.61 m/day. In comparison to literature values for a mudstone, these permeabilities are more rapid than expected. For example, ConSim 2000 suggests between 8.64×10^{-9} to 0.00017 m/day for a shale, with similar values reported by Tindal 1998. The literature values presented are at least 3 orders of magnitude below the calculated permeabilities. The higher than expected permeabilities may be the result of drilling induced fracturing of the mudstone in the close proximity of the well, where mudstone is described in some sections of the well screen as extremely weak and moderately weak.

GROUNDWATER MONITORING DATA

GROUNDWATER MONITORING DATA

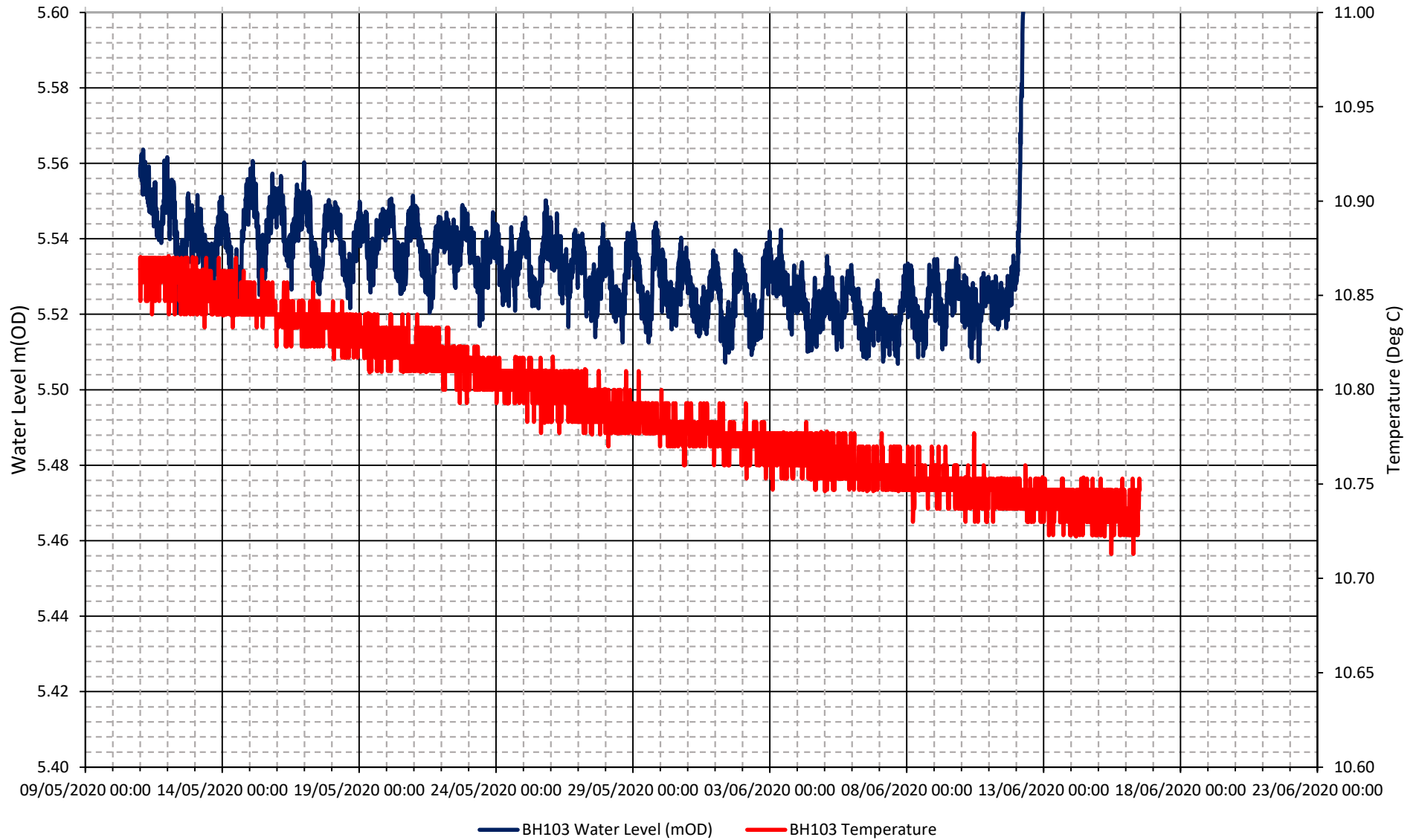


Title: Prairie Site Ground Investigation
Contract No: 4251
Client: Tees Valley Combined Authority
Printed: 10/08/2020

GROUNDWATER MONITORING DATA

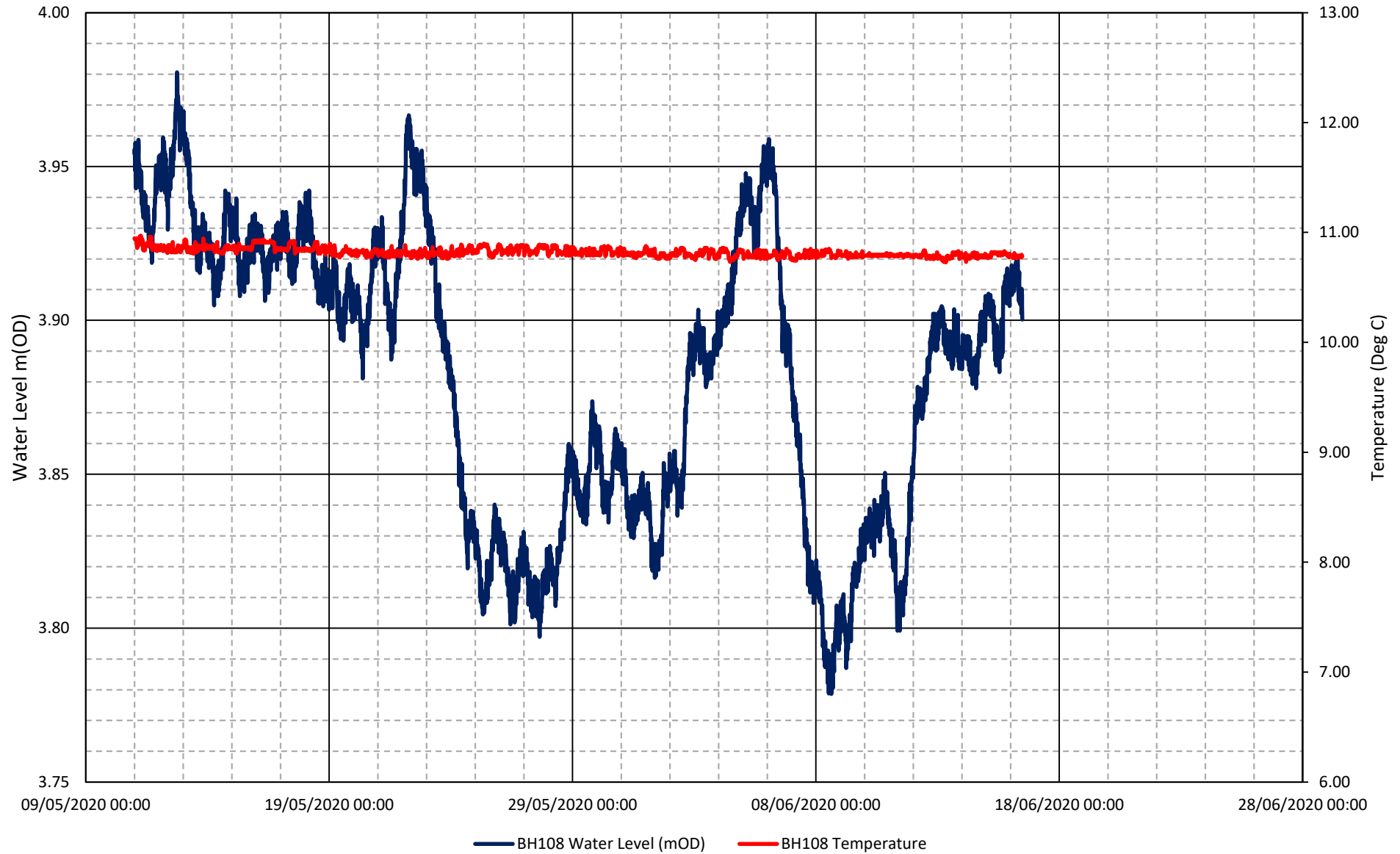
GROUNDWATER MONITORING DATA

09/05/2020 00:00 14/05/2020 00:00 19/05/2020 00:00 24/05/2020 00:00 29/05/2020 00:00 03/06/2020 00:00 08/06/2020 00:00 13/06/2020 00:00 18/06/2020 00:00 23/06/2020 00:00



GROUNDWATER MONITORING DATA

GROUNDWATER MONITORING DATA



Title: Prairie Site Ground Investigation
Contract No: 4251
Client: Tees Valley Combined Authority
Printed: 10/08/2020

Rising Head Test Calculations																
NB - set to 2 decimal places as a default																
Calculations using Bouwer & Rice assuming a PARTIALLY penetrating well.																
Well ID	BH110 - T1	BH110 - T2	BH110 - T3	BH110 - T4	BH110 - T5	BH110 - T6	BH108D- T1	BH108D- T2	BH108D- T3	BH108D- T4	BH108D- T5	BH108D- T6	BH101D - T1	BH101D - T2	BH101D - T3	BH101D - T4
Value from equation when t=0	-1.5081	-0.9685	-1.394	-1.0624	-1.4858	-1.2167	-0.5744	-0.4491	-0.3802	-0.4598	-0.4182	-0.5509	-0.6783	-6.1706	-0.9921	-1.5993
h_0	0.221330106	0.379652089	0.248080993	0.345625313	0.226321211	0.296206036	0.563042593	0.638202275	0.683724651	0.631409915	0.658230569	0.576430789	0.507478974	0.002089982	0.370797199	0.202037895
Value from equation at selected t	-1.5223	-0.9906	-1.4112	-1.0893	-1.5028	-1.2418	-0.6023	-0.4775	-0.4091	-0.4886	-0.4491	-0.5777	-0.6785	-6.1713	-0.9924	-1.5998
h_1	0.218209428	0.371353812	0.243850487	0.336451928	0.22250627	0.288863795	0.54755082	0.620332286	0.664247804	0.613484672	0.638202275	0.561187615	0.507377488	0.002088519	0.370685976	0.201936901
Selected t	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$1/t \ln h_0/h_1$	0.0142	0.0221	0.0172	0.0269	0.017	0.0251	0.0279	0.0284	0.0289	0.0288	0.0309	0.0268	0.0002	0.0007	0.0003	0.0005
d	4	4	4	4	4	4	4	4	4	4	4	4	2	2	2	2
r_w	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
d/r_w	40	40	40	40	40	40	40	40	40	40	40	40	20	20	20	20
A	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.24	2.24	2.24	2.24
B	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.37	0.37	0.37	0.37
D	18.634	18.656	18.568	18.656	18.634	18.656	10.153	10.131	10.153	10.153	10.153	10.153	16.203	15.829	16.401	15.829
b	16.94	16.96	16.88	16.96	16.94	16.96	9.23	9.21	9.23	9.23	9.23	9.23	14.73	14.39	14.91	14.39
$1.1/(\ln(b/r_w))$	0.214330413	0.214281148	0.214478693	0.214281148	0.214330413	0.214281148	0.243091551	0.243208139	0.243091551	0.243091551	0.243091551	0.243091551	0.220331761	0.221367225	0.21979703	0.221367225
$A+B/(\ln((D-b)/r_w))$	4.237068847	4.237635853	4.235363804	4.237635853	4.237068847	4.237635853	3.945277535	3.944235154	3.945277535	3.945277535	3.945277535	3.945277535	3.222843001	3.214281047	3.227296129	3.214281047
$\ln R_e/r_w$	3.122490943	3.122833102	3.12146116	3.122833102	3.122490943	3.122833102	2.926342585	2.92556755	2.926342585	2.926342585	2.926342585	2.926342585	2.621411243	2.617244179	2.623557516	2.617244179
r_c	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
r_c	0.000625	0.000625	0.000625	0.000625	0.000625	0.000625	0.000625	0.000625	0.000625	0.000625	0.000625	0.000625	0.000625	0.000625	0.000625	0.000625
K (m/sec)	3.5E-06	5.4E-06	4.2E-06	6.6E-06	4.1E-06	6.1E-06	6.4E-06	6.5E-06	6.6E-06	6.6E-06	7.1E-06	6.1E-06	8.2E-08	2.9E-07	1.2E-07	2.0E-07
K (m/day)	0.30	0.47	0.36	0.57	0.36	0.53	0.55	0.56	0.57	0.57	0.61	0.53	0.007	0.025	0.011	0.018
h_0	Head in the well at time $t = t_0$ (m)															
d	Length of the well screen or open section of the well (m)															
t	Time (seconds)															
r_w	Horizontal distance from well centre to undisturbed aquifer (metres)- ie radius of the HOLE (M)															
A	Dimensionless parameter (function of d/r_w) - from curves graph															
B	Dimensionless parameter (function of d/r_w) - from curves graph															
D	Saturated aquifer thickness (m)															
b	Water column in well before test commences (metres)															
R_e	Radial distance over which the difference in head, h_0 , is dissipated in the aquifer															
r_c	Radius of the well (metres)															
K	Hydraulic Conductivity															



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