

Hydrogeological Risk Assessment
Engineered Platform to Facilitate Employment Use
Land off Napier Road
Rockingham Enterprise Area
Corby

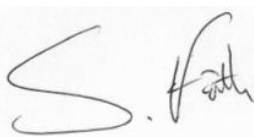
Final Report

on behalf of
Storefield Group Limited

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EXECUTIVE SUMMARY

Firth Consultants Ltd has been commissioned by Storefield Group Limited to conduct a Hydrogeological Risk Assessment (HRA) for the installation of an engineered development platform at land off Napier Road, Rockingham Enterprise Area, Corby, NN17 5DP (hereafter referred to as “the site” – see Figure 1 for location). The development platform is to facilitate development of an employment park which will bring the site back into beneficial use. The construction of the platform is estimated to require import of 686,000 m³ of material and it is proposed that suitable inert waste material is used including construction and demolition waste and incinerator bottom ash (IBA). The import and placement of inert waste material will require an environmental permit and this HRA is intended to support the permit application process. The objectives of the HRA are to (a) assess the risk to Controlled Waters receptors from the proposed use of inert waste material and (b) to determine whether the proposed restoration will result in overall betterment of groundwater quality.

The site is located in a commercial and industrial area immediately north of the Northern Stream of Willow Brook. The site and surrounding area were used for the extraction of ironstone between the approximately 1900 to the 1950s. The quarry void was then infilled with a variety of materials including reworked natural overburden material and landfilled waste (including industrial, special, liquid sludge, commercial, household and inert). There had been a liquid waste treatment facility (“C18”) in the north of the site comprising 7 No. sludge pits. These have subsequently been decommissioned and the waste permit surrendered. There were 2 No. sludge lagoons in the south of the site which were then converted to a landfill (“C17” landfill) for disposal of inert, putrescible and difficult waste. The landfill is understood to be unlined.

Intrusive investigation at the site has shown that it is underlain by up to 16m (but typically 10 to 12m) thickness made ground overlying 0.6 m to 2.9 m thickness of the Northampton Sand Formation (NSF) overlying the Whitby Mudstone Formation. The made ground comprises predominantly reworked natural deposits in the north of the site and 6 to 10m thickness of landfilled waste overlying 5m thickness reworked natural deposits in the south of the site.

The NSF is classified as a Secondary A Aquifer and the Whitby Mudstone Formation is classified as unproductive strata. There are no licensed surface water or groundwater abstractions or Source Protection Zones (SPZs) within 2km of the site.

Groundwater is present in the base of the made ground and in the NSF. Depth to groundwater is generally recorded between 9 and 13 m below ground level (mbgl) and at an elevation of 93 to 100 m above Ordnance Datum (mAOD). Groundwater in the made ground and NSF appears to be in hydraulic continuity and flows to the north with an average hydraulic gradient of 0.02. Average hydraulic conductivity based on slug tests conducted in on-site monitoring wells is estimated to be 0.085 m.d⁻¹ for the made ground and 0.22 m.d⁻¹ for the NSF. Based on comparison of on-site

groundwater levels with ground elevations in the vicinity of the site, the nearest plausible discharge points for groundwater beneath the site are springs 2.5km north of the site which flow into the River Welland or the Northern Stream of Willow Brook 1.3km or more to the north east of the site.

Soil sampling and analysis of the made ground at the site shows that it contains heavy metals, cyanide (predominantly complex) and PAHs and has leachable concentrations of sulphate, cyanide, mercury and fluoranthene that exceed water quality standards. Groundwater sampling has shown that groundwater quality in the NSF beneath the site has likely been impacted by the historic quarrying and landfilling on and in the vicinity of the site.

A conceptual site model (CSM) of risk was developed for Controlled Waters receptors. The existing made ground and proposed imported inert waste material to form the development platform were considered as sources. Leaching and migration of contaminants in groundwater were considered the key pathways and surface water, either the springs 2.5km north of the site or the Northern Stream 1.3km north east of the site, were considered plausible receptors. The NSF Secondary A aquifer is not considered a viable water supply resource in the vicinity of the site as a result of quarrying and landfilling activities which have reduced its thickness and resulted in poor groundwater quality. As such the NSF has been considered as a pathway rather than a receptor.

Based on the distance to the nearest plausible surface water receptor (1.3km) and estimated groundwater travel time to that receptor (162 years) the risks to Controlled Waters receptors from both the proposed imported inert waste is assessed to be low. In addition, the proposed development as an employment park will likely be largely hard covered resulting in a reduction in leaching from the existing waste deposits leading to an overall betterment in groundwater quality and risk to Controlled Waters receptors.

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1 INTRODUCTION

Firth Consultants Ltd has been commissioned by Storefield Group Limited to conduct a Hydrogeological Risk Assessment (HRA) for the construction of an engineered development platform (to facilitate development of an employment park) at land off Napier Road, Rockingham Enterprise Area, Corby, NN17 5DP (hereafter referred to as “the site”). The site location is shown in Figure 1.

1.1 Background and Objectives

The site is a former ironstone quarry and closed landfill site. In order to bring the site back into beneficial use and facilitate development of an employment park it is proposed to construct an engineered development platform. This will comprise cut and fill operations (predominantly fill) to establish a level platform and will require the import of an estimated 686,000 m³ of suitable material to create the platform. An ecological wildlife corridor is proposed to be retained along the southern boundary of the site adjacent to Willow Brook where no infilling is proposed.

It is proposed to use suitable inert waste material (derived predominantly from off-site) to construct the development platform. The northern area of the site will require the greatest fill depth of between approximately 7m to 10m, whereas in the southwest of the site a cut depth of between approximately 1m to 3m will be required (Wardell Armstrong, 2021).

The use of inert waste material for site restoration would require an environmental permit. An HRA would be required to support the permit application to demonstrate that the use of inert waste does not create an unacceptable risk to Controlled Waters receptors. Given the long industrial history of the site and wider area and the environmental setting a qualitative risk assessment is considered appropriate and has been conducted for the site.

The objectives of the HRA are to:

- Assess the risk to Controlled Waters receptors (groundwater and related receptors) from the proposed use of inert waste material to install a development platform; and
- Determine whether the proposed restoration will result in overall betterment of groundwater quality.

1.2 Scope of Work

In order to meet the objectives outlined above the following work was undertaken as part of this HRA:

1. Desk study review of relevant data including the development proposals, topographic, geological and hydrogeological maps and available reports and available leachate and groundwater monitoring data for the site.
2. Development of a hydrogeological conceptual site model (CSM) of risk for the installation of the development platform with inert waste. This identifies potential sources, pathways and Controlled Waters receptors and makes a qualitative assessment of plausible source-pathway-receptor combinations. This considers groundwater and any associated abstractions and surface waters as potential receptors and existing landfill waste and associated leachate and the imported inert waste material as potential sources.
3. Qualitative Risk Assessment (DQRA). A qualitative assessment of the risk to Controlled Waters receptors from importing inert waste to construct the proposed development was undertaken.
4. Preparation of a report that describes the work conducted.

1.3 Available Information

The following reports relating to the site have been used to prepare this HRA:

- Soiltechnics, 2020. Ground Investigation Report. Engineered Platform to Facilitate Employment Use, Land off Napier Road, Rockingham Enterprise Area, Corby. Report No.: STP3996D- G01. September 2020.
- Storefield, 2021. Preliminary Construction Management Plan for Phoenix Parkway Enabling Works. January 2021.
- Wardell Armstrong, 2021. Phoenix Parkway, Waste Recovery Plan, December 2021. GM11841. Draft.
- Tata Steel, 2012. Four Yearly Review of Hydrological Risk Assessment letter report dated 22 October 2012.
- Corus, 2006. Closure Report for Corby Tubeworks Landfill Site--- Waste Management Licence No. C/17 (EAWML 70559). January 2006.

In addition, the following site data relating to the site not contained within these reports were obtained and reviewed:

- Groundwater analytical data from 2003 to 2020 from Tata Steel;

- Borehole logs for additional wells, groundwater level data and groundwater analytical data and hydraulic conductivity tests from 2022 and 2023 from Soiltechnics; and
- Waste acceptance criteria (WAC) tests for the IBA material that is proposed to be imported.

1.4 Guidance

The HRA has been conducted in accordance with relevant Environment Agency (EA) guidance, in particular the following:

- EA, 2021. Land contamination risk management (LCRM)— How to assess and manage the risks from land contamination. Available at: <https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm>
- EA, 2018. Groundwater risk assessment for your environmental permit. Available at <https://www.gov.uk/guidance/groundwater-risk-assessment-for-your-environmental-permit> Last updated 3 April 2018
- EA, 2017a. Protect groundwater and prevent groundwater pollution. Available at <https://www.gov.uk/government/publications/protect-groundwater-and-prevent-groundwater-pollution/protect-groundwater-and-prevent-groundwater-pollution> Last updated 14 March 2017
- EA, 2017b. Groundwater protection technical guidance. Available at <https://www.gov.uk/government/publications/groundwater-protection-technical-guidance/groundwater-protection-technical-guidance> Last updated 14 March 2017
- EA, 2016. Managing and reducing land contamination: guiding principles (GPLC). Available at <https://www.gov.uk/government/publications/managing-and-reducing-land-contamination> Last updated 13 April 2016.

1.5 Report Format

This report provides a HRA based on the proposed use of inert waste to install a development platform at the site. Section 2 describes the site setting and ground conditions, including geography, hydrology, geology, hydrogeology and soil and groundwater quality. Section 3 presents the conceptual site model (CSM) of risk and qualitative risk assessment and Section 4 provides conclusions.

2 SITE SETTING AND GROUND CONDITIONS

2.1 Geography

The site is located off Napier Road (off Phoenix Parkway, A6116), Rockingham Enterprise Area, Corby, NN17 5DP and is centred on National Grid Reference (NGR) 490190, 290850 as shown on Figure 1. The site is an irregular shaped plot of rough grassland which occupies an area of approximately 20 hectares.

The site is located in an industrial/commercial area approximately 2.3 km to the northeast of Corby town centre. The site is bounded by Earlstree Industrial Estate to the west, the northern stream of Willow Brook with Willowbrook East Industrial Estate beyond to the south, Weldon North Industrial Estate to the east, Mitchell Road with Corby power station to the north (and Gretton Brook Road beyond) and Rockingham Speedway and associated car park to the northeast.

The site was originally a former ironstone quarry (most likely Brookfield Quarry) which was one of many in the area supplying the Corby Steelworks located approximately 1 km to the south. The site together with surrounding land was subsequently used as a landfill site and formed part of North Brook Landfill Site. This has resulted in an undulating topography with ground levels ranging from approximately 104 to 109 mAOD over the majority of the site. There are a 7No. depressions approximately 2.5m deep in the northwest of the site which are the remnants of dewatering lagoons associated with the former landfill (see Section 2.2). Mitchell Road to the north of the site is at an elevation of 115 to 116 mAOD, approximately 8m to 10m higher than adjacent levels on site. In the south of the site ground elevation slopes steeply downwards to Northern Stream (Willow Brook) at an elevation of approximately 97 to 100 mAOD.

2.2 Site History

A detailed site history together with historical maps is included in Soiltechnics (2020) and is summarised below.

The site was part of a deciduous woodland until 1900 when a large ironstone quarry encroached onto the site from the south-west. Between 1938 and 1952 the remainder of the site and the surrounding land had become part of the quarry with associated railways and infrastructure. By 1964 two large lagoons are evident in the south of site (used as dewatering lagoons for blast furnace slurry from the nearby Iron and Steel Works), while the eastern area remains as woodland and railway and infrastructure (cranes/buildings storage areas) and small slurry lagoons are recorded in the north. By 1982-87 the lagoons in the south are labelled sludge beds (part of landfill site) and the railway in the north is no longer

present. An additional sludge bed is located offsite immediately to the south and two drainage ponds are located offsite to the east (adjacent to the southern area).

By 1987-92 three new square sludge beds (liquid management and transfer site) have been built in the north-west of the site which increase in number to seven by 1999. At this time the sludge beds in the south of the site and offsite to the south have been infilled. By 2006 drainage features are located in the south-east of the site and the offsite ponds to the east have been infilled. The seven square sludge beds (liquid management and transfer site) have been removed by 2017 and no structures remain on site (although, as discussed in Section 2.1, topographic depressions remain).

The whole area was extensively quarried for ironstone which supplied Corby Iron and Steel Works to the south of the site and many were subsequently infilled and / or used as landfill sites. The main historic landfills in the vicinity of the site shown in the Envirocheck report (included in Soiltechnics, 2020), the Environment Agency historical landfill map (EA, 2023a) and the historic landfill sites map (Catchment Based Approach, 2023) are shown in Figure 2 and listed in Table A below.

It is understood that following the closure of the Iron and Steel Works the slurry was removed from the lagoons in the south of the site which were then divided into cells using inert rubble to form landfill cells. This landfill area (known as the Corby Tube Works landfill or C17 site) was issued with a waste management licence in 1984 (EAWML 70559) and licensed for Category A (solid inert), B (solid, semi inert), C (solid putrescible) and D (difficult) wastes, but excluded asbestos and other special waste. The landfill operated until 2004 and was classified as “Definitively Closed” by the Environment Agency on 19 December 2008. The remaining uncapped areas were in-filled with inert wastes, as agreed with the Environment Agency. The landfill does not incorporate any engineering features, i.e. no liner, impermeable capping or gas / leachate management systems (Soiltechnics, 2020). The landfill permit has yet to be surrendered.

The Former liquid waste treatment facility in the north west of the site (known as C18) which comprised the 7No. sludge beds and operated under licence number EAWML 70560 ceased operation in June 2007. Remediation work was carried out to empty the lagoons and remove and dispose of the liners. The EA agreed the surrender of the WML in October 2010, i.e. this part of the site is considered to be closed, surrendered and remediated.

Table A: Summary of historic landfills on and in the vicinity of the site

Site Name	Distance and direction from site	Dates waste received	Waste Type
On-site landfills			
British Steel, North Brook lagoons (C18)	7 lagoons in north-west of site	1970— 1984	Industrial, Special and liquid sludge
Candy Filter Sludge Ponds	2 ponds in south of site	1970— 1984	Special waste and liquid sludge (western most pond includes inert)
Tata Steel / Corus, North Brook Landfill Site (C17)	South of site	1984— 2009	Industrial Waste Landfills (in closure, permit not surrendered)
British Steel, Gretton Brook Road Deene.	On site and extends offsite to the north / north-west and east	1950— 1986	Inert and Industrial
Corby Borough Council, Deene Quarry	On site and extends offsite to the north / north-west and east	1987 - ?	Household, Commercial and Industrial Waste
Off-site landfills			
Candy Filter Sludge Ponds	2 ponds: 2m and 130m east	1970— 1984	Special waste and liquid sludge
Candy Filter Sludge Ponds, Corby	50m south	1970 to 1984	Special waste and liquid sludge
Candy Filter Sludge Ponds, Off Gretton Brook Road	7 ponds ~300m north-west & 2 ponds ~235m north-east	1970 to 1984	Special waste and liquid sludge
British Steel Corby Works— Dry Tip (Rail Haulage) & Refractory Tip, Gretton Road	350m north-east	1980— 1986	Inert and industrial
Deene Quarry, Gretton Brook Road,	460m / 675m north-east	1987-1996	Household, Commercial and Industrial Waste Landfills (in closure, permit not surrendered)
Refractory Tip, Gretton Road West	730m north-west	1980— 1986	Inert, industrial and liquid sludge
Works Dry Tip, Gretton Road Gulley, Off Gretton Road	990m north-east	1980— 1985	Inert, commercial, household and liquid sludge

2.3 Hydrology

The nearest main watercourse in the vicinity of the site is Northern Stream (of Willow Brook) which runs along the southern site boundary. The site is shown to be in the catchment of this watercourse and in 2019 it was classified as Moderate for ecological and Fail for chemical quality due to mercury and polybrominated diphenyl ethers (PBDE) (EA, 2022a).

Gretton Brook which is culverted along the majority of its length is located approximately 300m to the north of the site and is classified as part of Willow Brook (Nene) – see below.

Southern Stream (of Willow Brook) is located approximately 2km south of the site and in 2019 was also classified as Moderate for ecological and Fail for chemical quality. This watercourse failed due to the presence of mercury, perfluorooctane sulphonate (PFOS) and PBDE (EA, 2022b).

The Northern Stream and Southern Stream both flow to the east / north-east and join together forming Willow Brook (Nene) approximately 2 km north-east of the site. Willow Brook becomes the River Nene further downstream to the north-east. Land immediately to the north of the site is in the catchment of Gretton Brook / Willow Brook (Nene). In 2019 this was classified as Moderate for ecological and Fail for chemical quality due to presence of mercury, PFOS and PBDE (EA, 2022c).

Further north beyond Brookfield Plantation are the catchments of Fineshade Brook and the River Welland (from the confluence of Langton Brook to confluence of the River Gwash) which are classified as Good and Moderate for ecological respectively and Fail for chemical quality due to presence of mercury and PBDE (EA 2023b).

It is noted that mercury, PFOS and PBDE were not monitored in UK rivers prior to 2019 and PFOS and PBDE are a common cause of chemical failures in UK rivers due to their recent inclusion in the EA's analytical suite.

Based on EA Light Detection and Radar (LiDAR) data, the elevation of Northern Stream is approximately 100 mAOD close to the south west corner of the site and approximately 97 mAOD close to the south east corner of the site.

There are ten active discharge consents within 1km of the site. One relates to the discharge of final/treated sewage effluent to land, three relate to either trade or final/treated sewage effluent discharging to Gretton Brook, two relate to either trade or final/treated sewage effluent discharging to the Northern Stream of Willow Brook and four relate to the discharge of other matter to the Southern Stream of Willow Brook (Envirocheck report included in Soiltechnics, 2020). The locations of these licensed discharges are shown on Figure 1.

There are no active licensed surface water abstractions within 2km of the site.

Data from the nearest weather station (Wittering, located approximately 2km north-east of the site) indicates that the average annual rainfall for the area for the period 1981 to 2010 was 613.6 mm (Met Office, 2022).

2.4 Geology

The British Geological Survey (BGS) online geology viewer (BGS, 2022) and the BGS 1:50,000 solid and drift sheet 171 for Kettering (BGS, 2002) indicate that the site is underlain by Infilled Ground (opencast ironstone workings and major limestone or sand and gravel quarries which maybe partly of completely backfilled) overlying the Northampton Sand Formation (NSF). The NSF is described as a sandy ironstone which is greenish grey where fresh, weathering to brown limonitic sandstone. This lies on the Whitby Mudstone Formation (a medium to dark grey fossiliferous mudstone and siltstone with rare fine-grained calcareous sandstone beds and limestone nodules) (BGS, 2022).

The site and surrounding area have been extensively quarried. Based on nearby BGS logs (SP89SE222, SP89SE143, SP89SE227 and SP89SE228 – see Figure 1 for locations and Appendix 1 for logs) the original geology would likely have comprised approximately 2 to 3.5 m thickness of Oadby Member Glacial Till (diamicton— clay with chalk and flint fragments) underlain by up to 1.5m thickness of Lower Lincolnshire Limestone (LLL) Member, 4 to 6 m thickness Grantham Formation (formerly known as the Lower Estuarine Series, described as mudstones, sandy mudstones and argillaceous siltstone-sandstone) and 4 to 5 m thickness of the NSF. Investigations on site indicate that all of the Oadby Member, LLL, Grantham Formation and the majority of the NSF have been removed as a result of quarrying and the resultant void has been infilled with up to 16m (and typically 10 to 12m) thickness of made ground. The made ground generally comprises reworked natural deposits (glacial till, Grantham Formation [sandstone, siltstone and mudstone] and NSF) other than in the south of the site where waste associated with the C17 landfill is located.

A summary of the geology beneath the site (based on the available information including the Soiltechnics 2020 intrusive investigation) is presented in Table B below.

Table B: Geological Summary

Geological Unit (from surface downwards)	Approx. thickness at site (m) ¹		Description
	North	South	
Made Ground: Former Iron and Steel Works waste	0 to 0.8	Generally absent	Flue dusts, coke fines, slag and refractory rubble and occasional areas of blast furnace materials (dark grey fine to medium sand) in the east
Made Ground: Landfilled waste	Absent	6 to 10 Base at ~99.5 mAOD	Paper, metal cans, plastic, glass, wood, cloth and some brick and concrete fragments in a matrix of sandy clay with some fine to coarse flint gravel
Made Ground: Largely reworked natural deposits	11 to >16	~ 5	Grey gravelly clay (glacial derived soils), cream brown clayey, gravelly sand or gravelly clay (Grantham Formation derived) or orange brown gravelly sands (Northampton Sand derived), with frequent cobbles and boulders of sandstone. Gravels comprised of limestone and sandstone
Northampton Sand Formation (NSF)	0.6 to 2.9		Orange brown clayey gravelly sand, with gravels comprising ferruginous sandstone.
Whitby Mudstone Formation	49 to 58 ²		Stiff, grey clay encountered at depths between 12.8m and 15.1m below ground level

Notes: 1. From Soiltechnics, 2020 unless stated otherwise
 2. BGS, 2002

Schematic cross-sections of the geology at the site are shown in Figures 4 to 6. The location of the cross-sections along with site investigation locations are shown in Figure 3.

2.5 Hydrogeology

2.5.1 Aquifer classifications

The NSF is classified as a Secondary A aquifer (Defra, 2022). These are permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. The underlying Whitby Mudstone Formation is classified as unproductive strata (largely unable to provide usable water supplies and are unlikely to have surface water and wetland ecosystems dependent on them).

Although the NSF is classified as a Secondary A aquifer, extensive quarrying activities in the vicinity of the site and wider Corby area have removed significant quantities of the NSF

leaving limited thicknesses of these deposits. Therefore the usefulness of the remaining aquifer is considerably reduced in the vicinity of the site.

The Lower Lincolnshire Limestone (LLL) and the Grantham Formation which overlie the NSF (where quarrying activities have not been undertaken) are classified as Principal and Secondary (undifferentiated) aquifers, respectively. Principal aquifers are layers or rock or deposits that have high intergranular and/or fracture permeability meaning they usually provide a high level of water storage and may support water supply and/or river base flow on a strategic scale, whereas Secondary (undifferentiated) aquifers which are aquifers where it is not possible to apply either a Secondary A or B definition because of the variable characteristics of the rock type and have only a minor value (EA, 2017a). It is noted that these aquifers are limited in extent and thickness and are unlikely to provide a viable water supply in the vicinity of the site. The superficial Oadby Member Glacial Till which generally overlies the bedrock where the Ironstone has not been quarried is classified as a Secondary (undifferentiated) aquifer.

2.5.2 Source protection zones and licensed abstractions

There are no Source Protection Zones (SPZs) or licensed groundwater abstractions within 2km of the site (Envirocheck report included in Soiltechnics, 2020).

2.5.3 Groundwater levels

Eleven gas and groundwater monitoring wells (LG01 to LG03, LL04 to LL06, LG07 to LG11) were installed in and around the C17 landfill in the south of the site in 2001. These were reported to have been drilled through the made ground and terminated on the Whitby Mudstone Formation between 10 to 14 mbgl. Groundwater levels were measured roughly quarterly from January 2003 until March 2021 and more recent levels were measured between January and March 2022 and in March 2023. The locations of these wells are shown on Figure 3 and a hydrograph presenting the groundwater level data is shown in Figure A below. Note that several wells (LG1, LG2, LG3 and LL4) were often dry and datum levels were not available for LL5 and LG10 therefore these well have not been included in the hydrograph.

The wells are thought to be screened in the made ground and given that the landfill was not lined it is assumed that these data represent the natural groundwater level as they are likely to be in hydraulic continuity with the remaining NSF.

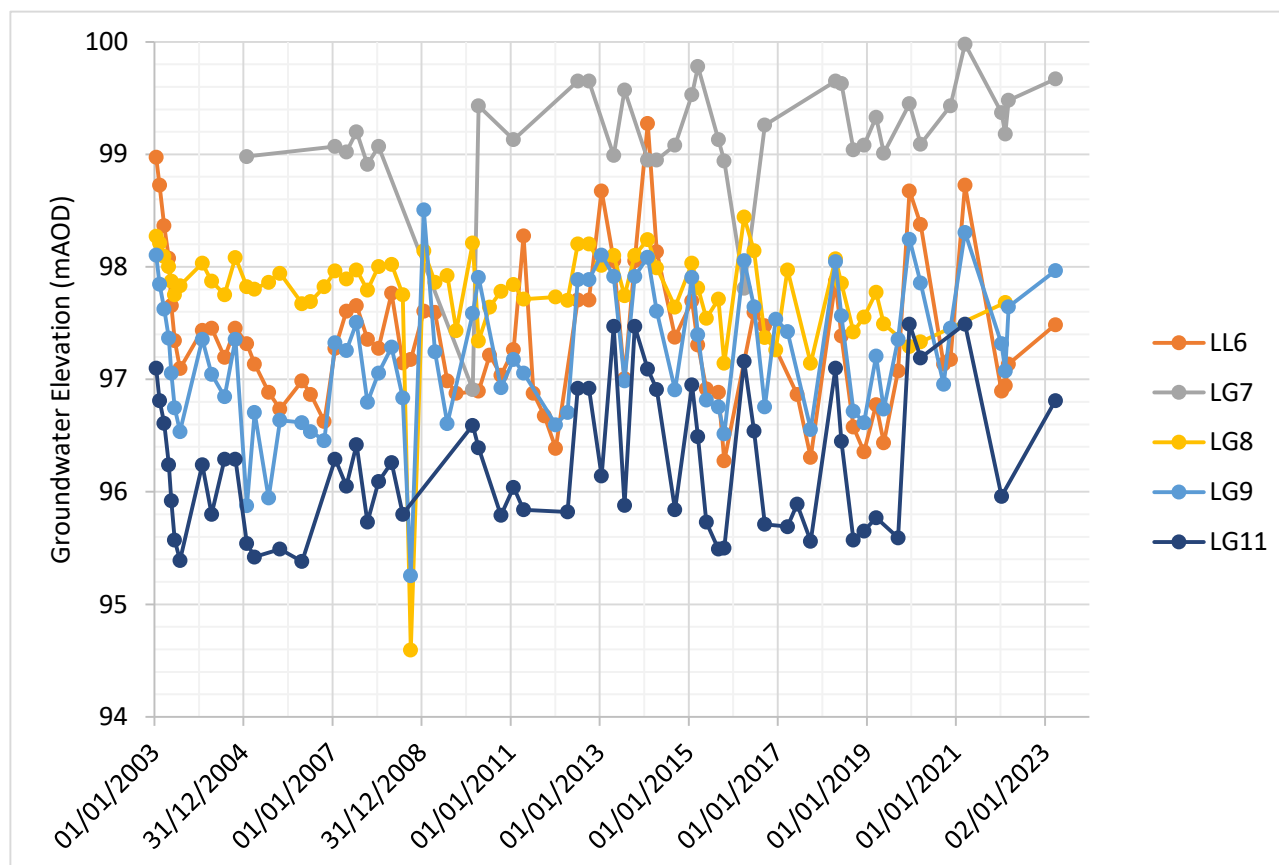


Figure A: Hydrograph of groundwater levels in south of site since 2003

This hydrograph shows that groundwater levels in the south of the site range from between approximately 95.5 mAOD and 100 mAOD with an annual fluctuation of between approximately 1.5 m to 2 m. The highest groundwater levels generally occur between January and April and the lowest occurring in September and October.

Seven additional wells (BH01, BH02, BH04, BH05, BH06, BH08 and BH09) were installed at the site by Soiltechnics in 2020 (Soiltechnics, 2020). Two of these (BH01 and BH02) located in the north of the site encountered obstructions in the made ground and were therefore not installed deep enough to encounter the groundwater and another well (BH08) has subsequently been lost. These three wells were replaced with BH01B, BH02B and BH08B in May 2022 the logs for which are included in Appendix 2. See Figure 3 for well locations.

It is noted that although the replacement wells were drilled and installed to the base of the NSF, BH01B and BH02B were dry on the two subsequent monitoring rounds in June 2022 and March 2023 and BH08B was dry in March 2023. This is likely to be due to the higher elevation of the NSF layer in the north of the site (See Figures 4 and 5) resulting in the aquifer being dry in this part of the site.

The Soiltechnics groundwater level monitoring data is presented as a hydrograph in Figure B below. This shows that groundwater levels have been relatively stable over the monitored period. The interpreted piezometry based on the measured groundwater levels from 30th March 2023 is shown in Figure 7. This indicates that the groundwater flow direction is to the north with an average hydraulic gradient of approximately 0.02.

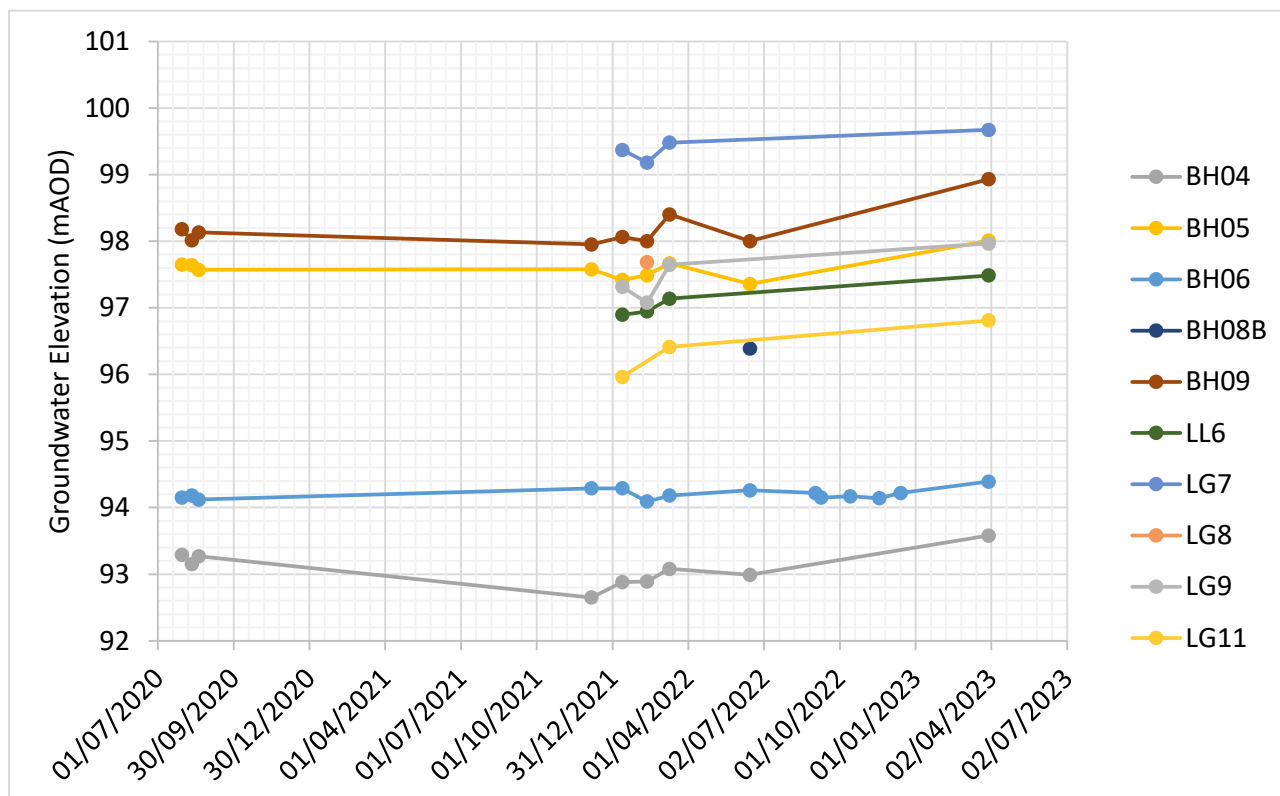


Figure B: Hydrograph of groundwater levels on site since July 2020

As discussed in Section 2.3 the elevation of Northern Stream (of Willow Brook) to the south of the site ranges from approximately 100 mAOD (near the south west corner of the site) to 97 mAOD (near the south east corner). The surface water level of the stream is higher than the groundwater elevation beneath the site indicating that groundwater at the site will not discharge to the stream. It is possible that leakage through the stream bed provides recharge to groundwater.

Likewise, Gretton Brook, located approximately 300 m north of the site has an elevation (based on LiDAR data) ranging from approximately 113 mAOD (north of the site) to 103 mAOD (north-east of the site), i.e. also higher than groundwater at the site and therefore not a potential point of discharge.

It is possible that groundwater flows north from the site and then turns east to discharge to Northern Stream or Gretton Brook at some point further downstream where surface water elevations are lower. Based on LiDAR data the nearest plausible point of discharge would be the Northern Stream beyond Gretton Road approximately 1.3km north east of the site.

Alternatively, groundwater from the site could be discharging to springs on the escarpment slope at Gretton, approximately 2.5km north of the site. These springs mark the boundary between the NSF and the underlying Whitby Mudstone and form surface streams which flow north-west to join the River Welland.

2.5.4 Aquifer Properties

Falling and rising head tests ("slug" tests) were conducted in five on-site monitoring wells (BH04, BH05, BH06, BH08 and BH09) in June 2022. The tests were conducted by quickly lowering or raising a 'slug' into each well. The recovery of water levels was then monitored with time using a pressure transducer data logger set to record every second.

Firth Consultants analysed the data using the Bouwer and Rice analysis method (Appendix 3). The results of this analysis are presented in Table C below.

Table C: Hydraulic Conductivity Estimates from Falling Head Tests

Well	Screened Interval (mbgl)	Predominant Screened Lithology (Saturated)	Test	Hydraulic Conductivity	
				m.s ⁻¹	m.d ⁻¹
BH04	11 to 11.68	Made Ground	1 – slug in	8.30×10^{-07}	0.072
BH05	9 to 10.76	Made Ground	1 – slug in	1.13×10^{-06}	0.098
BH06	12 to 15	NSF	1 – slug in	3.13×10^{-06}	0.27
			2— slug in	3.00×10^{-06}	0.26
			2— slug out	1.55×10^{-06}	0.13
BH08	11.5 to 12.6	NSF	1 – slug in	2.63×10^{-08}	0.002
BH09	11 to 13.47	NSF?	1 – slug in	2.41×10^{-07}	0.021
			2— slug in	2.65×10^{-06}	0.23

The estimated hydraulic conductivity of the Made Ground / landfilled material ranges from 0.072 to 0.098 m.d⁻¹ and has an average of 0.085 m.d⁻¹ whereas the estimated hydraulic conductivity of the Northampton Sand Formation is generally higher ranging from 0.002 to 0.27 m.d⁻¹ with an average of 0.15 m.d⁻¹. The majority of the values are consistent with the lithological descriptions of the screened sections. The exception to this is test 1 for BH08 and BH09 where unexpectedly low hydraulic conductivities were calculated for the NSF. The values obtained for BH06 and BH09 test 2 are more consistent with the lithological descriptions. And therefore the average of these of 0.22 m.d⁻¹ is considered to be a more representative value to the NSF.

2.6 Gas, Soil and Groundwater Quality

A detailed review of available historical data is provided in Soiltechnics report (2020). The main points of note are:

- Regular gas monitoring between 2004 and 2014 indicated that generally methane concentrations ranged from 0 to 2.5%, carbon dioxide was generally less than 5% and oxygen was around 20%.
- Groundwater monitoring undertaken between 2003 and 2014 indicated elevated levels of zinc and iron across the site with the highest concentrations recorded between July 2003 and April 2007.
- An offsite investigation to the west recorded elevated levels of zinc contamination which was attributed to the widespread presence of flue dusts from the former blast furnaces during quarrying activities.
- Surface water monitoring of North Stream (Willow Brook) between 2003 and 2014 recorded concentrations of copper above EQS in both up- and down-stream samples. Therefore, it was considered that the concentrations were reflective of the wider area and could not be attributed to the site.
- An investigation undertaken by FWS Consultants Limited for Corus UK Limited on a neighbouring site to the west concluded that no significant contamination was identified in the natural quarry backfill. However five areas were identified for remediation due to substantial ammonia, phenol and tar associated with iron and steel work waste and high lead and zinc associated with blast furnace slurry.

Intrusive investigation was undertaken at the site by Soiltechnics in 2020. This involved the excavation of 27 trial pits up to a depth of 4 mbgl and the drilling of nine boreholes up to a depth of 16.5 mbgl with seven installed as monitoring wells, along with associated soil, surface water and groundwater sampling. Soiltechnics drilled and installed a further three monitoring wells (BH01B, BH02B and BH08B) up to a depth of 14 mbgl in May 2022 and conducted additional rounds of water sampling in 2022 and 2023. The investigation locations are shown in Figure 3 and the results of the soil and groundwater sampling undertaken by Soiltechnics are discussed below.

2.6.1 Soil

Eighteen soil samples of the made ground from depths ranging from 0.1mbgl to 12 mbgl were taken for chemical analysis (Soiltechnics, 2020) and analysed for pH, metals, sulphides, total and free cyanide, phenol, water soluble sulphate, polycyclic aromatic hydrocarbons (PAH), total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene

and xylenes (BTEX), volatile organic compounds (VOCs) and semi-VOCs (sVOCs). These data are presented in Table 1.

All BTEX, VOCs and sVOCs were recorded below method detection limits. TPH was recorded either less than the method detection limit or at low concentrations (less than 500 mg.kg⁻¹ total TPH) with the exception of one sample taken from TP23 at 0.7 mbgl location in the south-west corner of the site In the C17 landfill area) which recorded a total TPH concentration of 3234 mg.kg⁻¹ (the majority being aliphatic and aromatic in the C12 to C21 range).

A summary of other chemical concentrations is provided in Table D below. The highest concentrations have generally been detected within the waste deposits in the C17 landfill.

Table D: Summary of soil analysis from 2020

Determinand	Units	Range in concentrations ²	Average conc.
pH	pH units	7.4 – 8.3	7.85
Total Cyanide	mg.kg ⁻¹	<2 – 148	16
Complex Cyanide	mg.kg ⁻¹	<2 – 148	15
Free Cyanide	mg.kg ⁻¹	<2 – 7	<2
Water soluble sulphate as SO ₄ (2:1)	mg.L ⁻¹	29 – 1710	538
Sulphide	mg.kg ⁻¹	<5 – 69	18
Water soluble nitrate as NO ₃ (2:1)	mg.kg ⁻¹	<3 – 79	32
Arsenic		6– 96	38
Boron	mg.kg ⁻¹	<1 – 4.2	1.6
Cadmium	mg.kg ⁻¹	<0.2 – 9.2	1.0
Chromium, total	mg.kg ⁻¹	12– 338	80
Copper	mg.kg ⁻¹	5– 150	41
Lead	mg.kg ⁻¹	12– 5010	415
Mercury	mg.kg ⁻¹	<1 – 1.7	<1
Nickel	mg.kg ⁻¹	10– 67	31
Vanadium	mg.kg ⁻¹	25– 924	151
Zinc	mg.kg ⁻¹	42– 24000	2807
Total Phenol	mg.kg ⁻¹	<2 – 3	<2
Naphthalene	mg.kg ⁻¹	<0.1 – 0.18	0.11
Benzo(a)pyrene	mg.kg ⁻¹	<0.1 – 5.18	1.05
Total PAHs	mg.kg ⁻¹	<1.6 – 66.6	12.67

Six soil samples of the made ground were taken for leachate analysis at depths of up to 2.5 mbgl. The analytical suite include metals, cyanides, sulphate, sulphide, nitrate, phenols and PAHs. The analytical results are presented in Table 2 and a summary of the detected

concentrations is provided in Table E below. This table also provides UK drinking water standards (DWSs) and freshwater environmental quality standards (EQSs) for comparison.

Soil leachate concentrations were below DWS with the exception of sulphate and below EQS with the exception of cyanide, mercury and fluoranthene. Phenols, sulphide, nitrate, the majority of metals and the heavier end PAHs were recorded below their respective method detection limits.

Table E: Summary of soil leachate analysis from 2020

Determinand	Units	Range in concentrations ²	Average conc.	UK DWS ¹	EQS ²
pH	pH units	8.0 – 8.5	8.17	6.5 to 9.5	-
Total Cyanide	µg.L ⁻¹	<5 – 36	11.8	50	1
Sulphate as SO ₄	µg.L ⁻¹	6 – <u>315</u>	90.3	250	400
Boron	µg.L ⁻¹	8 – 392	129	1000	-
Mercury	µg.L ⁻¹	0.06 – 0.64	<0.0001	1	0.07
Zinc	µg.L ⁻¹	<2 – 5	<2	-	27.74 ³
Naphthalene	µg.L ⁻¹	<0.01 – 0.02	<0.01	-	2
Acenaphthene	µg.L ⁻¹	<0.01 – 0.09	0.043	-	-
Fluorene	µg.L ⁻¹	<0.01 – 0.07	0.028	-	-
Phenanthrene	µg.L ⁻¹	<0.01 – 0.13	0.08	-	-
Anthracene	µg.L ⁻¹	<0.01 – 0.04	0.028	-	0.1
Fluoranthene	µg.L ⁻¹	<0.01 – 0.06	0.032	-	0.0063
Pyrene	µg.L ⁻¹	<0.01 – 0.04	0.022	-	-

1) UK Drinking Water Standard (DWS). Statutory Instruments 2016 No. 614. Water, England and Wales. The Water Supply (Water Quality) Regulations 2016 unless otherwise stated.

2) UK Environmental Quality Standard (EQS) for freshwater (average annual or long-term) unless stated otherwise. UK EQS from <https://www.gov.uk/guidance/surface-water-pollution-risk-assessment-for-your-environmental-permit>.

3) EQS for zinc is calculated using m-BAT tool based on a pH of 8.00, DOC of 4.47 mg/l and calcium of 135.61 mg/l (average of Environment Agency monitored values in Willow Brook North Deene Park Foot Bridge [EA, 2022d]).

Underlined denotes an exceedance of DWS.

BOLD denotes an exceedance of EQS.

2.6.2 Groundwater

Various rounds of groundwater sampling have been conducted by Soiltechnics at the site as detailed below:

- July 2020. Groundwater samples obtained from 4 No. wells (BH04, BH06, BH08 and BH09)

- January to March 2022. 3 No. monthly rounds of groundwater sampling from 7No. wells (BH04, BH05, BH06, BH09, LG9, LG11, and LL6)
- September to December 2022. 4 No. monthly rounds of groundwater sampling from BH06 (note this was specifically conducted to assess impacts from a trial embankment surcharging study)
- March 2023. Groundwater samples obtained from 4 No. wells (BH04, BH05, BH06 and BH09)

Note that monitoring wells BH01, BH01B, BH02, BH02B and BH08B are dry and so groundwater samples have not been obtained from these wells.

Groundwater samples were analysed for ammoniacal nitrogen, sulphate, chloride, cyanide, phenols, metals, PAHs, speciated TPH, BTEX, VOCs and SVOCs. These data are presented in Table 3 and detections are summarised in Table F below. UK DWS and EQS are also shown in this table for comparison. The laboratory certificates are presented in Soiltechnics (2020) and in Appendix 4.

Table F: Summary of groundwater quality data on site from July 2020 to March 2023

Determinand	Units	Range in detected concentrations	Average conc.	DWS ¹	EQS ⁵
pH	pH units	6.8 – 8.7	7.3	6.5 to 9.5	6 to 9
Total/Complex Cyanide	µg.L ⁻¹	<5 – <u>211</u>	<u>74</u>	50	1
Sulphate as SO4	mg.L ⁻¹	<u>538</u> – <u>5570</u>	<u>1667</u>	250	-
Ammoniacal Nitrogen as NH4	µg.L ⁻¹	157 – <u>190000</u>	<u>19505</u>	500	389 ⁶
Chloride	mg.L ⁻¹	8 – <u>394</u>	97	250	-
Nitrate	mg.L ⁻¹	<0.5 – <u>267</u>	15	50	-
Nitrite	mg.L ⁻¹	<0.5 – <u>4.5</u>	<0.5	0.5	-
Arsenic	µg.L ⁻¹	<5 – <u>46</u>	8.8	10	50
Antimony	µg.L ⁻¹	<5	<5	5	-
Boron	µg.L ⁻¹	251 – <u>8530</u>	<u>2296</u>	1000	-
Cadmium	µg.L ⁻¹	<0.4 – <u>3.6</u>	<u>0.6</u>	5	0.25 ⁷
Chromium	µg.L ⁻¹	<5 – <u>31</u>	<u>7.2</u>	50	4.7
Copper	µg.L ⁻¹	<5 – <u>51</u>	<u>14.9</u>	2000	13.53 ⁸
Lead	µg.L ⁻¹	<5 – <u>598</u>	<u>49</u>	10	5.36 ⁸
Manganese	µg.L ⁻¹	35 – <u>10000</u>	<u>3979</u>	50	219.55 ⁸
Mercury	µg.L ⁻¹	<0.05	<0.05	1	0.07
Nickel	µg.L ⁻¹	<5 – <u>90</u>	<u>19.5</u>	20	10.05 ⁸
Selenium	µg.L ⁻¹	<5 – <u>48</u>	<5	10	-
Zinc	µg.L ⁻¹	20 – <u>5010</u>	<u>421</u>	-	27.74 ⁸
Phenol	µg.L ⁻¹	<10 – <u>23</u>	<10	-	7.7

Determinand	Units	Range in detected concentrations	Average conc.	DWS ¹	EQS ⁵
Naphthalene	µg.L ⁻¹	<0.01 – 0.3	<0.01	-	2
Acenaphthene	µg.L ⁻¹	<0.01 – 0.03	<0.01		-
Fluorene	µg.L ⁻¹	<0.01 – 0.02	<0.01		-
Phenanthrene	µg.L ⁻¹	<0.01 – 0.07	<0.01		-
Anthracene	µg.L ⁻¹	<0.01 – 0.03	<0.01		0.1
Fluoranthene	µg.L ⁻¹	<0.01 – 0.04	<0.01	-	0.0063
Pyrene	µg.L ⁻¹	<0.01 – 0.04	<0.01	-	-
TPH Aliphatic >C6– C8	µg.L ⁻¹	<10 – 11	<10	15000 ²	-
TPH Aliphatic >C12 – C16	µg.L ⁻¹	<10 – 16	<10	300 ²	-
TPH Aliphatic >C16 – C21	µg.L ⁻¹	<10 – 47	<10	300 ²	-
TPH Aliphatic >C31 – C34	µg.L ⁻¹	<10 – 14	<10	300 ²	-
TPH Aromatic >C12 – C16	µg.L ⁻¹	<10 – 18	<10	90 ²	-
TPH Aromatic >C16 – C21	µg.L ⁻¹	<10 – 47	<10	90 ²	-
cis-1,2-Dichloroethene	µg.L ⁻¹	<5– 11	<5	50 ³	
Diethyl phthalate	µg.L ⁻¹	<0.1 – 0.1	<0.1	15000 ⁴	-
Dibutyl phthalate	µg.L ⁻¹	<0.1 – 20.3	1.2	900 ⁴	-
Bis(2-ethylhexyl)phthalate	µg.L ⁻¹	<0.1 – 0.2	<0.1	5.6 ⁴	1.3

- 1) UK Drinking Water Standard (DWS). Statutory Instruments 2016 No. 614. Water, England and Wales. The Water Supply (Water Quality) Regulations 2016 unless otherwise stated.
- 2) TPH DWS World Health Organization (WHO) guideline values for TPH fractions in drinking water (cited in CL:AIRE, 2017).
- 3) WHO Guidelines for Drinking Water Quality. 4th Edition. 2017.
- 4) USEPA Regional Screening Level (RSL) for Tap Water. RSL Summary Table (TR=1E-06, HQ=1) November 2022.
- 5) UK Environmental Quality Standard (EQS) for freshwater (average annual or long-term) unless stated otherwise. UK EQS from <https://www.gov.uk/guidance/surface-water-pollution-risk-assessment-for-your-environmental-permit>.
- 6) EQS for ammonia based on a Type 7 river i.e. alkalinity over 200 mg/l CaCO₃ (average of Environment Agency monitored values in Willow Book North Deene Park Foot Bridge is 206 mg.L⁻¹ CaCO₃ [EA, 2022d]).
- 7) EQS for cadmium depends on hardness of water. Based on Class 5 water body i.e. the hardness is >200 mg CaCO₃/l (average of Environment Agency monitored values in Willow Book North Deene Park Foot Bridge is 206 mg.L⁻¹ CaCO₃ [EA, 2022d]).
- 8) EQS for copper, lead, nickel and zinc are calculated using m-BAT tool based on a pH of 8.00, DOC of 4.47 mg/l and calcium of 135.61 mg/l (average of Environment Agency monitored values in Willow Book North Deene Park Foot Bridge [EA, 2022d]).

Underlined denotes an exceedance of DWS

BOLD denotes an exceedance of EQS.

It is noted that all BTEX are recorded below their respective method detection limits in all groundwater samples. The majority of PAHs, TPH fractions and all VOCs with the exception of cis-1,2-dichloroethene in one sample (11 µg.L⁻¹ in BH08) are also below method detection limits. All SVOCs are below method detection limits with the exceptions of diethyl phthalate, dibutyl phthalate and bis(2-ethylhexyl)phthalate.

The majority of substances were recorded at concentrations below their respective DWS or EQS. Concentrations in groundwater consistently above DWS or EQS are discussed below:

- Cyanide: Total cyanide and complex cyanide were detected in all wells. The analytical detection limit of $5 \mu\text{g.L}^{-1}$ exceeds the EQS of $1 \mu\text{g.L}^{-1}$. The DWS of $50 \mu\text{g.L}^{-1}$ was exceeded in samples from BH09, LG7, LG9 and LG11, all of which are located within, or adjacent to, the C17 landfill. The highest concentrations were generally detected in BH09 which is up-hydraulic gradient of the site and indicates that background groundwater quality is impacted with cyanide.
- Sulphate: Concentrations of sulphate are above the DWS of 250 mg.L^{-1} at all locations during all monitoring rounds. The highest concentrations are generally recorded at BH04 in the east of the site.
- Ammoniacal nitrogen (as NH_4) exceeded the DWS of $500 \mu\text{g.L}^{-1}$ and the EQS of $389 \mu\text{g.L}^{-1}$ at all locations sampled and in all but three samples (two from BH06 and one from LG11) taken since July 2020. The highest concentrations were generally recorded at BH08 and BH09 in the west of the site. Based on the interpreted groundwater piezometry (Figure 7), BH09 is up-hydraulic gradient of the site and indicates that background groundwater quality is impacted with ammoniacal nitrogen.
- Nitrate: Nitrate was consistently recorded above the DWS of 50 mg.L^{-1} at LG11. Nitrite was also recorded above the DWS at this location.
- Boron: Concentrations of boron above the DWS of $1000 \mu\text{g.L}^{-1}$ were consistently recorded at BH06, BH09, LL6, LG9 and LG11.
- Copper: Sporadic exceedances of the EQS for copper of $13.53 \mu\text{g.L}^{-1}$ were recorded across the site.
- Lead: The concentrations of lead exceed DWS and EQS in the majority of groundwater samples. The highest concentrations (up to $598 \mu\text{g.L}^{-1}$) have been detected in BH06 screened within the NSF below the C17 landfill.
- Manganese has been consistently recorded above the DWS and EQS in the majority of wells.
- Nickel exceeded the calculated EQS of $10.05 \mu\text{g.L}^{-1}$ at all locations with the exception of BH09, LG7, LG9 and LG11. Concentrations were also consistently above the DWS of $20 \mu\text{g.L}^{-1}$ at BH04 and BH06 which are within or down-hydraulic gradient of the C17 landfill.
- Zinc. Concentrations of zinc were consistently recorded above the calculated EQS of $27.74 \mu\text{g.L}^{-1}$ at all groundwater sample locations. The majority of the concentrations were less than $100 \mu\text{g.L}^{-1}$ except at BH06 where concentrations were higher up to $5010 \mu\text{g.L}^{-1}$.

2.6.3 Surface water

Soiltechnics have obtained surface water samples from North Stream of Willow Brook on several occasions:

- July 2020. One sample was obtained from location SP02 downstream of the site.
- January to March 2022. 3No. rounds of monthly samples from 3No. locations: SW1 (upstream), SW2 (downstream) and SW3 (midstream). Location SW2 is from the same location at SP02.

The sample locations are shown on Figure 3. Sample were analysed for ammoniacal nitrogen, sulphate, chloride, cyanide, phenols, metals, PAHs, speciated TPH, BTEX, VOC and SVOC. These data are presented in Table 4 and a summary of detected concentrations is provided in Table G below together with EQS for comparison. The laboratory certificates are presented in Soiltechnics (2020) and in Appendix 4.

Table G: Summary of surface water quality data on site from July 2020 to March 2022

Determinand	Units	Range in detected concentrations	Average conc.	EQS ¹
pH	pH units	8.0 – 8.3	8.2	6 to 9
Total/Complex Cyanide	µg.L ⁻¹	<5 – 21	9.6	1
Sulphate as SO ₄	mg.L ⁻¹	60 – 107	91.8	400
Ammoniacal Nitrogen as NH ₄	µg.L ⁻¹	178 – 324	244	389 ²
Chloride	mg.L ⁻¹	55 – 89	73	-
Nitrate	mg.L ⁻¹	2.9 – 19.4	12.3	-
Nitrite	mg.L ⁻¹	<0.5 – 0.9	<0.5	-
Arsenic	µg.L ⁻¹	<5	<5	50
Antimony	µg.L ⁻¹	<5	<5	-
Boron	µg.L ⁻¹	68 – 788	560	-
Cadmium	µg.L ⁻¹	<0.4	<0.4	0.25 ³
Chromium	µg.L ⁻¹	<5	<5	4.7
Copper	µg.L ⁻¹	6 – 22	9.5	13.53 ⁴
Lead	µg.L ⁻¹	<5 – 7	<5	5.36 ⁴
Manganese	µg.L ⁻¹	9 – 305	63	219.55 ⁴
Mercury	µg.L ⁻¹	<0.05 – 0.15	<0.05	0.07
Nickel	µg.L ⁻¹	<5	<5	10.05 ⁴
Selenium	µg.L ⁻¹	<5	<5	-
Zinc	µg.L ⁻¹	22 – 120	68.2	27.74 ⁴
Acenaphthene	µg.L ⁻¹	<0.01 – 0.28	<0.01	-
Fluorene	µg.L ⁻¹	<0.01 – 0.56	<0.01	-
Phenanthrene	µg.L ⁻¹	<0.01 – 0.89	<0.01	-
Anthracene	µg.L ⁻¹	<0.01 – 0.28	<0.01	0.1

Determinand	Units	Range in detected concentrations	Average conc.	EQS ¹
Fluoranthene	µg.L ⁻¹	<0.01-- 0.47	<0.01	0.0063
Pyrene	µg.L ⁻¹	<0.01-- 0.3	<0.01	-
Benzo(a)anthracene	µg.L ⁻¹	<0.01-- 0.04	<0.01	-
Chrysene	µg.L ⁻¹	<0.01-- 0.03	<0.01	-

- 1) UK Environmental Quality Standard (EQS) for freshwater (average annual or long-term) unless stated otherwise. UK EQS from <https://www.gov.uk/guidance/surface-water-pollution-risk-assessment-for-your-environmental-permit>.
- 2) EQS for ammonia based on a Type 7 river i.e. alkalinity over 200 mg/l CaCO₃ (average of Environment Agency monitored values in Willow Book North Deene Park Foot Bridge is 206 mg.L⁻¹ CaCO₃ [EA, 2022d]).
- 3) EQS for cadmium depends on hardness of water. Based on Class 5 water body i.e. the hardness is >200 mg CaCO₃/l (average of Environment Agency monitored values in Willow Book North Deene Park Foot Bridge is 206 mg.L⁻¹ CaCO₃ [EA, 2022d]).
- 4) EQS for copper, lead, nickel and zinc are calculated using m-BAT tool based on a pH of 8.00, DOC of 4.47 mg/l and calcium of 135.61 mg/l (average of Environment Agency monitored values in Willow Book North Deene Park Foot Bridge [EA, 2022d]).

BOLD denotes an exceedance of EQS.

Total phenols, all TPH fractions, BTEX, VOCs and SVOCs (with the exception of one detection of dibenzofuran at the detection limit) are below their respective method detection limits. The metals antimony, arsenic, cadmium, chromium, nickel and selenium are also recorded below their method detection limits.

Lead, mercury and PAHs had concentrations recorded above their respective EQS on one occasion with subsequent monitoring recording concentrations below method detection limits. Concentrations of manganese were all recorded less than the EQS with the exception of one sample from SW1 (upstream) in March 2022.

Concentrations in surface water consistently above the EQS are discussed below:

- Copper: Concentrations of copper at SW3 (midstream sample) were recorded above the EQS in January and February 2022 monitoring rounds. Concentrations in March 2022 were significantly lower and less than the EQS. Concentrations at SW1 (upstream) and SW2 (downstream) were all recorded below the EQS.
- Cyanide: Concentrations of total and complex cyanide were recorded above the method detection limit and EQS in March 2022 at SW1 and for all sampling rounds at SW2 and SW3.
- Zinc: Zinc concentrations were recorded above EQS in February and March 2022 monitoring rounds at SW1 and for all sampling rounds at SW2 and SW3.

3 RISK ASSESSMENT

3.1 Conceptual Site Model

A conceptual site model (CSM) of risk has been developed for the proposal to form a development platform using imported inert waste material to aid future commercial development at the site. This identifies potential sources, pathways and controlled waters receptors and determines which combination of these are plausible linkages. Plausible contaminant linkages are then qualitatively assessed to determine whether the proposed restoration using inert waste material could pose an unacceptable risk to water resources.

3.1.1 Sources

Potential sources of contamination at the site are described below:

Existing Made Ground

The northern part of the site was infilled between 1950 to 1986 (licensed from 1980) with inert and industrial waste. Site investigation data indicates that the majority of infill is reworked natural deposits up to approximately 16 mbgl with occasional thin (0.8m thick) areas of former Iron and Steel Works waste. The southern part of the site (former sludge beds) were used as a landfill from 1984 which was licensed to accept inert, special and liquid sludge waste. This part of the site has approximately 5m of reworked natural deposits overlain by 6 to 10m thickness landfilled waste.

Soil sampling and analysis of the made ground at the site shows that it contains heavy metals, cyanide (predominantly complex) and PAHs and has leachable concentrations of sulphate, cyanide, mercury and fluoranthene that exceed water quality standards.

Groundwater is present beneath the site within the NSF and base of the made ground which are likely to be in hydraulic continuity. Groundwater sampling shows that groundwater beneath the site has elevated concentrations (with respect to water quality standards) of complex cyanide, ammoniacal nitrogen, sulphate, manganese and zinc and more sporadic exceedances of boron, copper, lead and nickel. Whilst the waste deposits on-site (and in particular the C17 landfill) are likely to be a contributor to this groundwater contamination, there is evidence that background concentrations of some substances (in particular ammoniacal nitrogen and cyanide) are also elevated which may be the result of the legacy of landfilling in the wider area.

Imported Inert Material to Cap the Site

It is proposed to raise the level of the site to create a level development platform using approximately 686,000 m³ of suitable imported inert waste materials. The acceptance protocol and compliance testing regime for the imported waste material are detailed in the Preliminary Construction Management Plan (Storefield, 2021) and are designed to ensure that no unsuitable material is deposited at the site.

The imported inert waste material will be predominantly comprised of construction and demolition waste. Inert waste has low leachability and therefore presents a low hazard to groundwater. Nevertheless, the inert waste is considered as a plausible source (along with the existing made ground).

There is also a proposal to import incinerator bottom ash (IBA). Waste Acceptance Criteria (WAC) tests of representative samples of IBA (included as Appendix 5) show that this material meets the criteria for inert waste landfills with the exception of slight exceedances of antimony, chloride, sulphate and total dissolved solids. Given that groundwater quality beneath the site is currently impacted by the site historical uses (including relatively high concentrations of sulphate and chloride) these exceedances are not considered significant in terms of risk to groundwater and related receptors.

3.2 Pathways

Possible migration pathways of contamination from the identified sources are:

- **Leaching of contaminants to groundwater.** Potential contamination in both the historical waste infill and in the proposed future inert waste could partition to the dissolved phase in pore water in the unsaturated zone. Leached contaminants could then migrate downwards with infiltrating rainwater through the made ground to groundwater in the NSF. Attenuation within the unsaturated zone (retardation, dispersion and biodegradation) will reduce the concentrations and flux of contaminants to groundwater. Dilution with the receiving groundwater will further reduce concentrations.
- **Dissolved phase migration in groundwater.** The available information indicates that groundwater in the made ground and NSF at the site is in hydraulic continuity and flows to the north. The point of discharge for groundwater from the site is not known but could be springs on the escarpment slope at Gretton 2.5 km north of the site or the Northern Stream beyond 1.3 km north east of the site. Groundwater could therefore provide a migration pathway to these surface water bodies.

Attenuation within the saturated zone (retardation, dispersion and biodegradation) will reduce the concentrations of contaminants along the groundwater flow pathway.

The length of time for groundwater to reach the possible surface water discharge points can be estimated using the following equation based on Darcy's Law:

$$t = \frac{L \cdot n_e}{K \cdot i}$$

Where

t = groundwater transit time (d)

L = distance to receptor (m)

n_e = effective porosity

K = hydraulic conductivity (m.d⁻¹)

i = hydraulic gradient (m.m⁻¹)

Using the average estimated hydraulic conductivity of the NSF (0.22 m.d⁻¹) and estimated hydraulic gradient of 0.02 (see Sections 2.5.3 and 2.5.4) and assuming an effective porosity of 0.2 (reasonable for the NSF), groundwater is estimated to take at least 162 years to travel 1.3 km to the nearest plausible surface water receptor. As such, significant attenuation of contamination is likely to occur along the groundwater flow pathway.

- **Discharge to surface water.** Any contamination that does reach surface water via groundwater flow from the site will be diluted by surface water flow, reducing risk further.
- **Induced leachate migration as a result of surcharging with imported material.** Up to 10m thickness of imported material will be emplaced on top of the existing made ground at the site. This is anticipated to compress the existing made ground materials and could result in displacement of leachate within that material. However, the intrusive investigation and subsequent groundwater monitoring conducted by Soiltechnics has shown that, other than the basal 1 or 2m, the made ground is largely dry and as such, displacement of leachate is likely to be minimal and so this pathway is not considered further.

3.3 Receptors

Potential receptors considered for this assessment are water resources and users of those resources. These are discussed below:

- **Groundwater.** The NSF that underlies the site is classified as a Secondary A aquifer. However extensive quarrying activities in the vicinity of the site and wider Corby area have removed significant quantities of the NSF leaving limited thicknesses of these deposits. Furthermore, the presence of historic landfills both on and off the site have impacted background groundwater quality in the NSF. As a result, the NSF in the vicinity of the site is unlikely to be a plausible water supply resource and as such is considered as a pathway rather than a receptor.
- **Groundwater Abstractions / users of Abstractions.** The site is not within a SPZ and there are no licensed groundwater abstractions or SPZs within 2km of the site. Therefore groundwater abstractions are not considered further in this assessment.
- **Surface Water.** Based on groundwater and ground elevations, the nearest plausible surface water receptors are Northern Stream (Willow Brook) approximately 1.3km east of the site or springs 2.5km north of the site which lead to the River Welland. It is noted that both water bodies were classified in 2019 as Moderate for ecological and Fail for chemical quality under the WFD requirements.
- **Surface Water Abstractions / users of Abstractions.** There are no surface water abstractions within 2km of the site and so surface water abstractions are therefore not considered further.

3.4 Plausible Contaminant Linkages

Table H lists the possible source-pathway-receptor combinations and makes a qualitative assessment of the risk from each. Contaminant linkages rated with a risk of “low” are considered highly unlikely to create an unacceptable risk and do not require further consideration. Contaminant linkages rated with a risk of “medium” or “high” require further consideration.

Table H: Assessment of contaminant linkages

Source	Pathway	Receptor	Risk	Justification
Existing made ground (including landfill waste material)	Leaching and dissolved-phase migration and discharge to surface water	Springs / River Welland / Northern Stream (Willow Brook)	Low to Med	Groundwater at the site flows to the north and likely discharges either to springs 2.5km north of the site that flow into the River Welland or to the Northern Stream (Willow Brook) beyond 1.3km north east of the site. Based on site data, groundwater is estimated to take at least 162 years to flow to the nearest surface water discharge point and as such significant attenuation of contamination is likely to occur along the groundwater flow pathway. Dilution in the receiving surface water body will further reduce risk.
Future inert waste (including IBA) imported to form development platform	Leaching and dissolved-phase migration and discharge to surface water	Springs / River Welland / Northern Stream (Willow Brook)	Low	The inert waste has a low hazard potential and is unlikely to cause a significant impact to groundwater quality relative to the impact from the existing historic waste. As discussed above, natural attenuation along the groundwater flow path and dilution in surface water will further reduce the risk.

As shown in Table H, the risk to Controlled Waters receptors from the proposed imported inert waste is qualitatively assessed to be low. The risk from the existing made ground (including the C17 landfill) is assessed to be low to medium.

The proposed development of the site for employment use will likely result in much of the site being hard covered thereby reducing infiltration through the existing made ground. This will reduce leaching of contaminants from the waste material and will likely result in an overall betterment of groundwater quality and long-term reduction in risks to Controlled Waters receptors.

4 CONCLUSIONS

As described in Section 1.1 this HRA has been conducted to:

- Assess the risk to Controlled Waters receptors (groundwater and related receptors) from the proposed use of inert waste material (including IBA) to install a development platform; and
- Determine whether the proposed restoration will result in overall betterment of groundwater quality.

The following conclusions are made from the HRA work conducted:

- The site and surrounding area has been extensively quarried for ironstone and subsequently infilled with a variety of materials including reworked natural material and industrial wastes;
- At the site itself the made ground comprises predominantly reworked natural material in the north and landfilled waste overlying reworked natural material in the south. The made ground is underlain by 0.6 to 2.9m thickness of remnant NSF which overlies the Whitby Mudstone Formation;
- Groundwater is present within the base of the made ground and underlying NSF and flows to the north. Based on groundwater and ground elevations, groundwater from the site is likely to discharge to Northern Stream (of Willow Brook) beyond 1.3km north east of the site or springs on the escarpment slope 2.5 km north of the site.
- Soil sampling and analysis of the made ground at the site shows that it contains heavy metals, cyanide (predominantly complex) and PAHs and has leachable concentrations of sulphate, cyanide, mercury and fluoranthene that exceed water quality standards. Groundwater sampling has shown that groundwater quality in the NSF beneath the site has likely been impacted by the historic quarrying and landfilling on and in the vicinity of the site;
- A conceptual site model (CSM) of risk was developed for Controlled Waters receptors. This identified the following plausible source-pathway-receptor combinations:
 - Risk to surface water (Northern Stream / springs) from the existing made ground deposits via leaching and dissolved phase migration in groundwater; and

- Risk to surface water (Northern Stream / springs) from the proposed imported inert waste (including IBA) via leaching and dissolved phase migration in groundwater.

Note that the NSF was considered as a pathway rather than a receptor on the basis of its reduced thickness (as a result of quarrying) and poor background groundwater quality.

- The risk from these linkages was qualitatively assessed to be low to medium for the existing made ground and low for the imported waste. The proposed development is likely to result in a large proportion of the site being hard covered and this will reduce infiltration and leaching from the existing made ground resulting in betterment of groundwater quality and a reduction in risks to Controlled Waters receptors.

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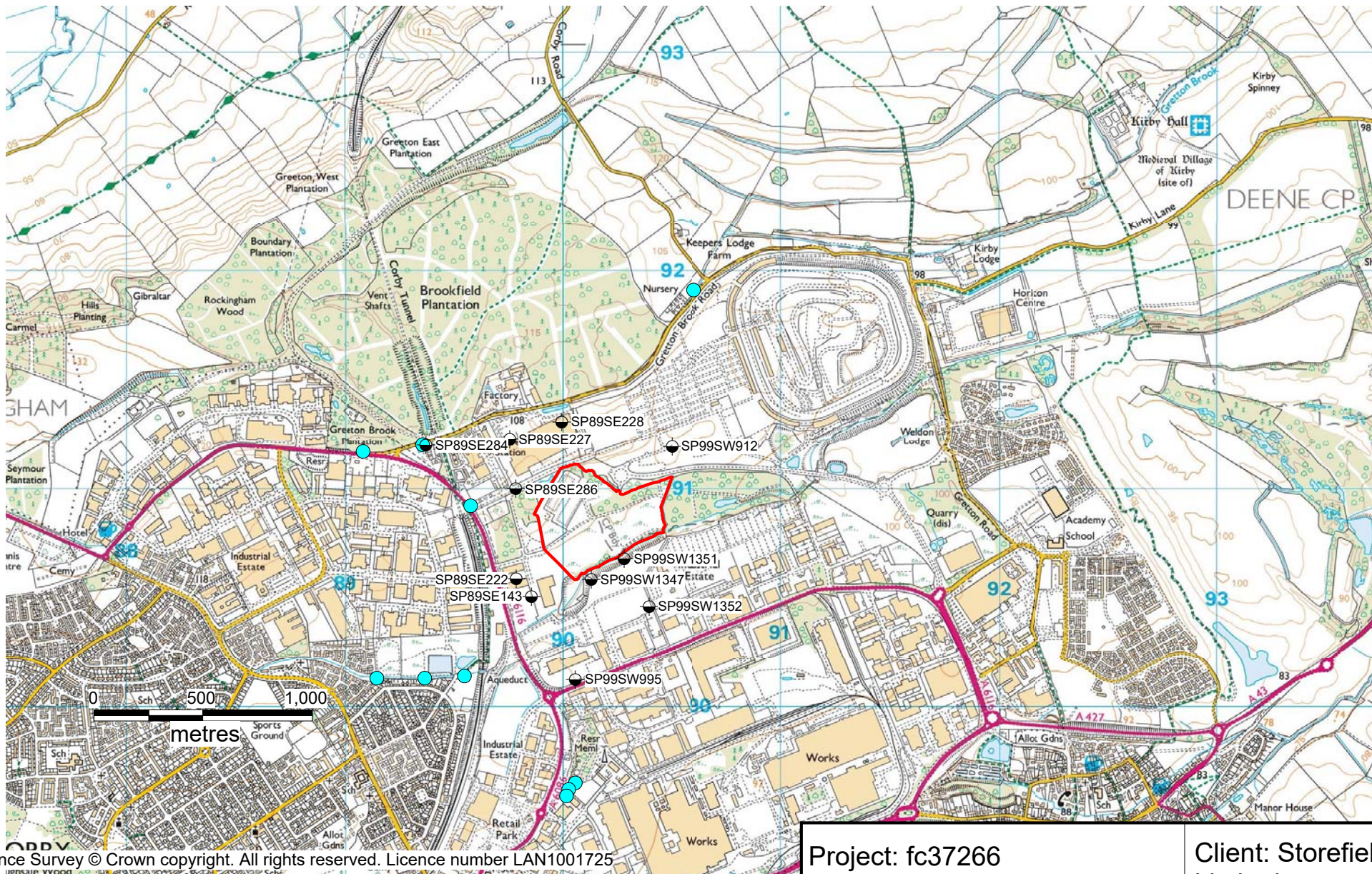
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FIGURES



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- Site
- Licensed discharge consent
- Borehole on BGS database

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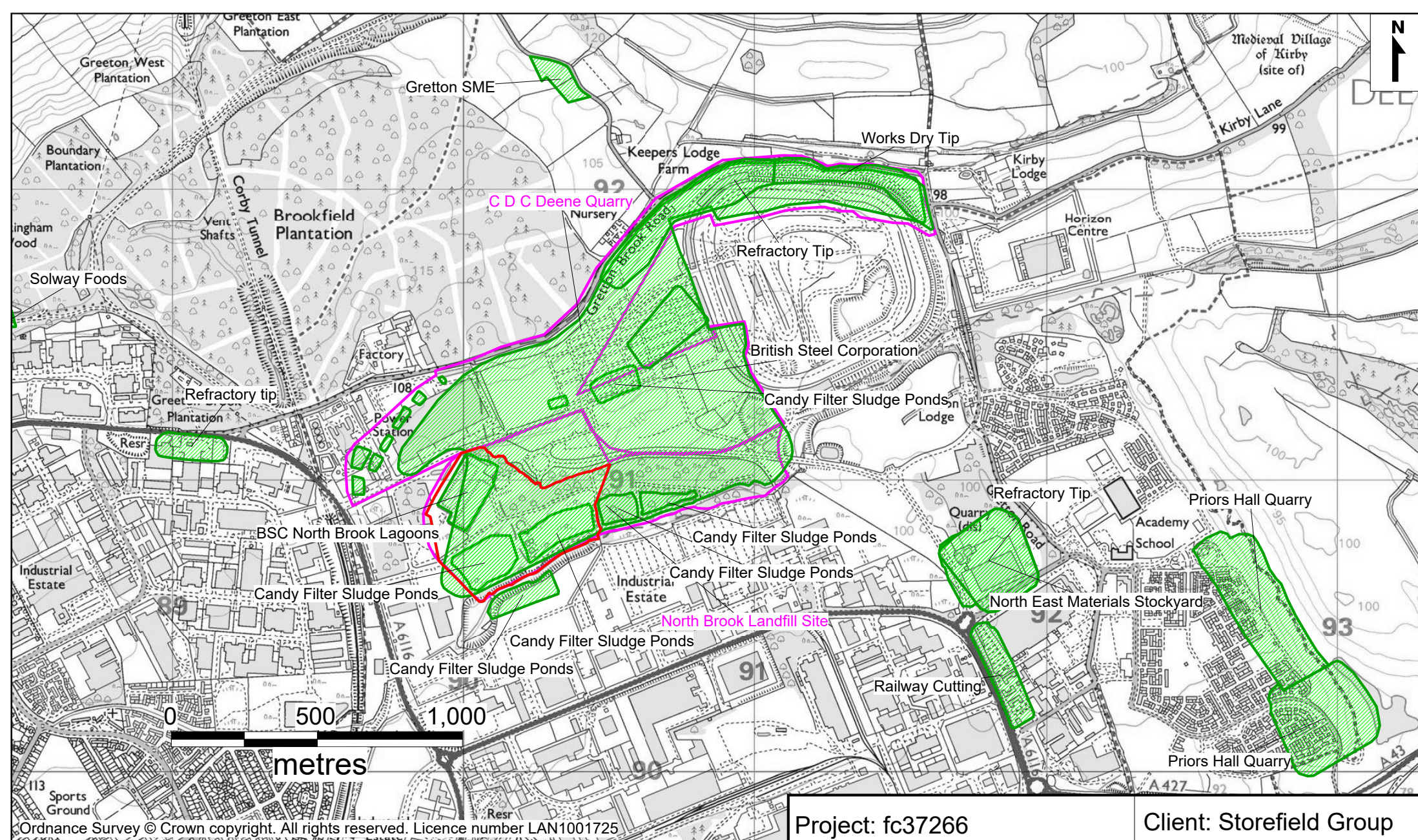
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Figure 1

Scale: as shown

Date: 08/06/23

Site location



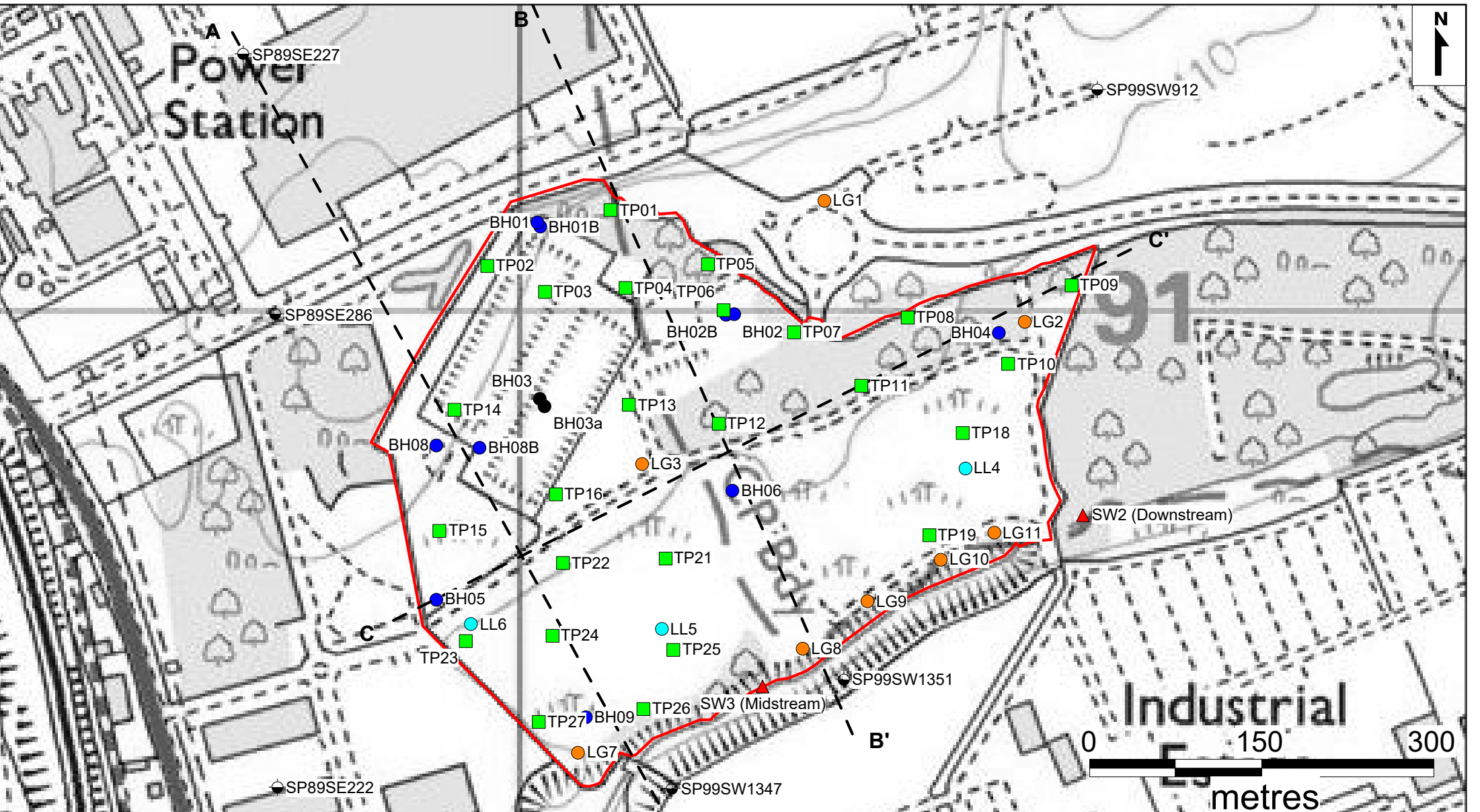
- Site
- Historic landfill
- Currently permitted (but closed) landfill site

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Figure 2	Historic landfills in vicinity of site	
Scale: as shown		
Date: 08/06/23		



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- Borehole on BGS database
- Historic gas monitoring well
- Historic leachate monitoring well
- Soiltechnics trial pit
- Soiltechnics borehole
- Soiltechnics monitoring well
- Site
- Location of cross-section
- Surface water monitoring location

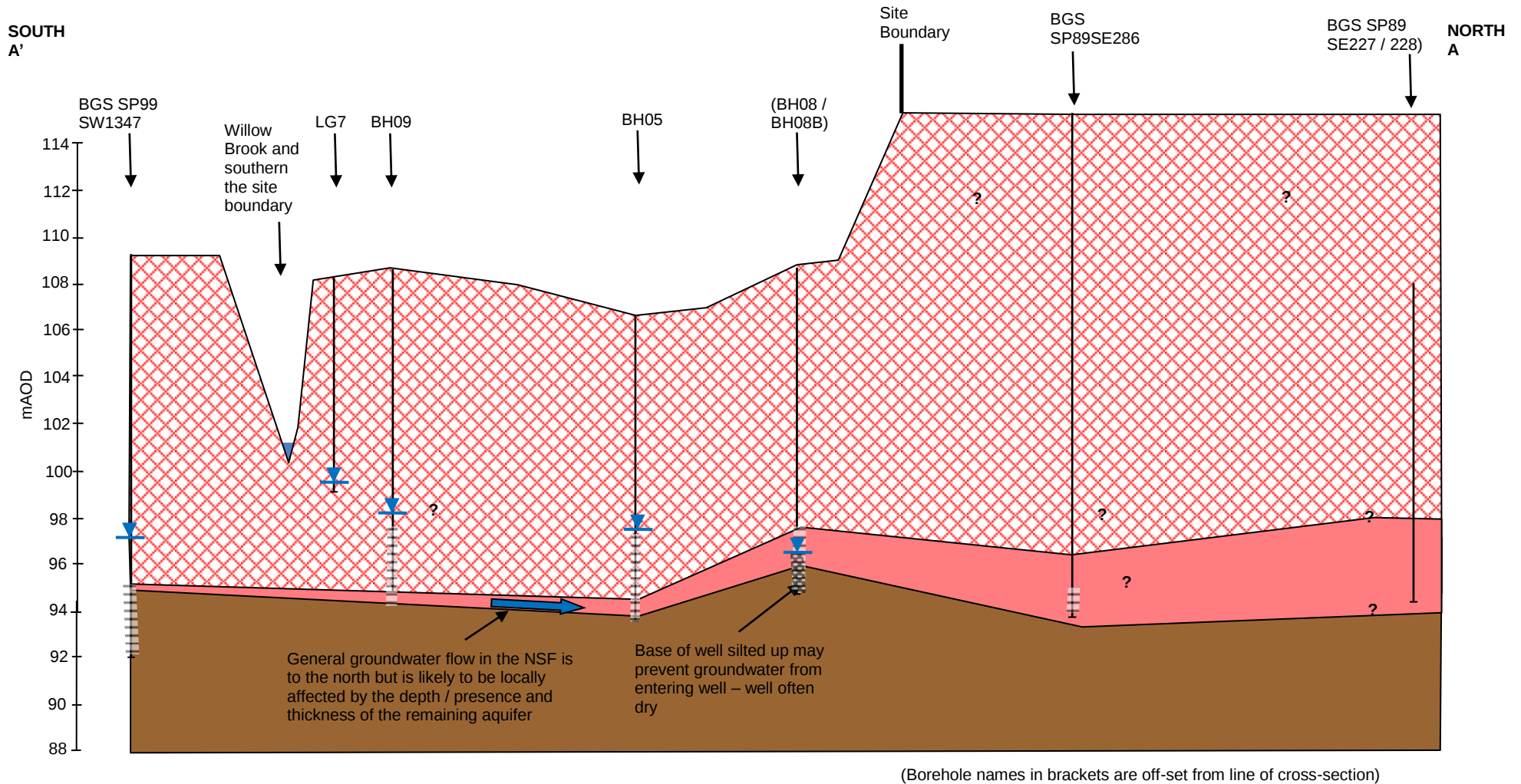
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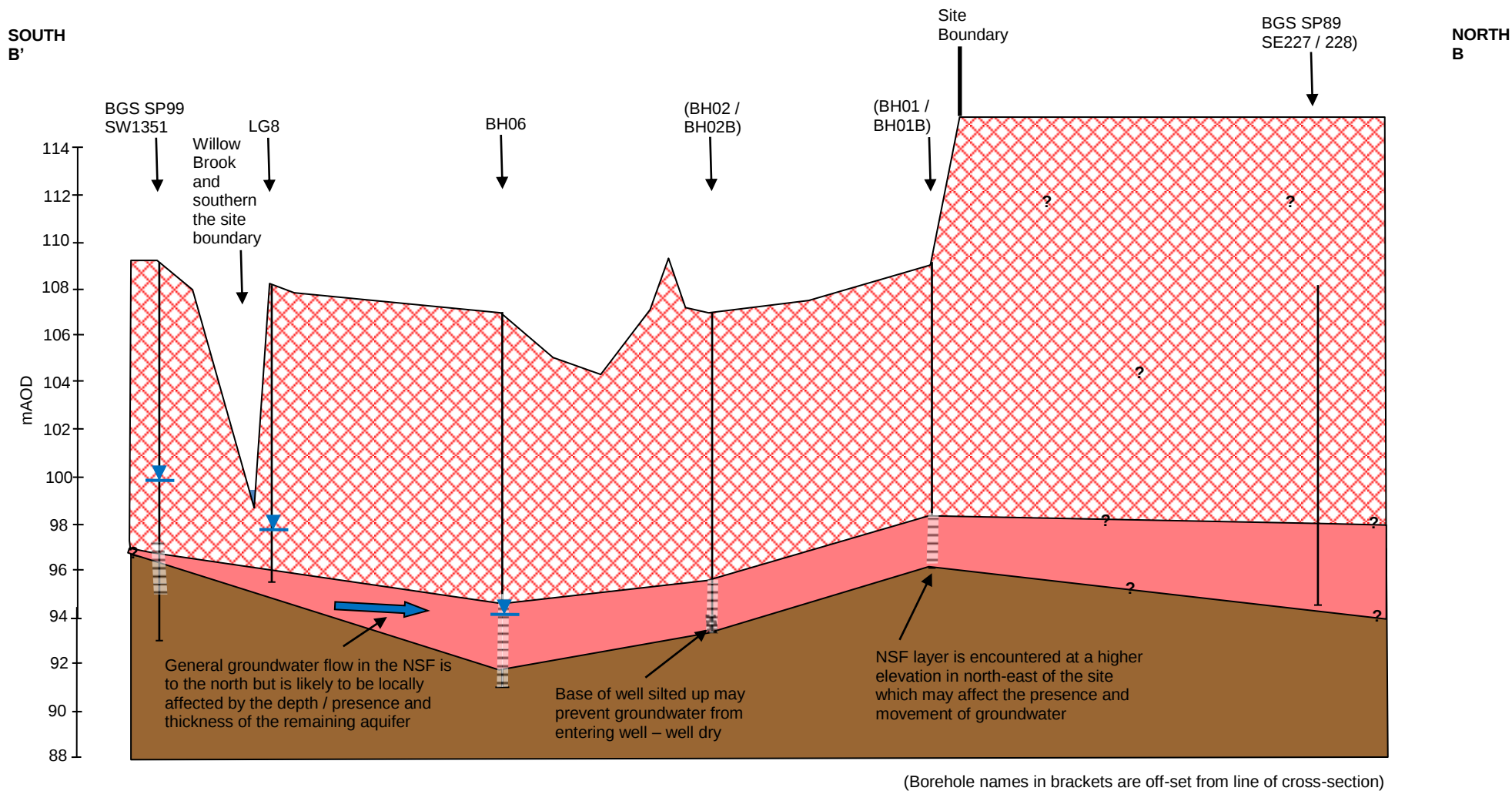
Project: fc37266 Rockingham Enterprise Area		Site investigation locations
Figure 3	Scale: as shown	
Date: 08/06/23		

Client: Storefield Group Limited



Legend

-  Made Ground / Infilled Waste
-  Northampton Sand Formation (NSF)
-  Whitby Mudstone Formation
-  Groundwater Level



Legend

- Made Ground / Infilled Waste
- Northampton Sand Formation (NSF)
- Whitby Mudstone Formation
- Groundwater Level

100m

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Figure 5

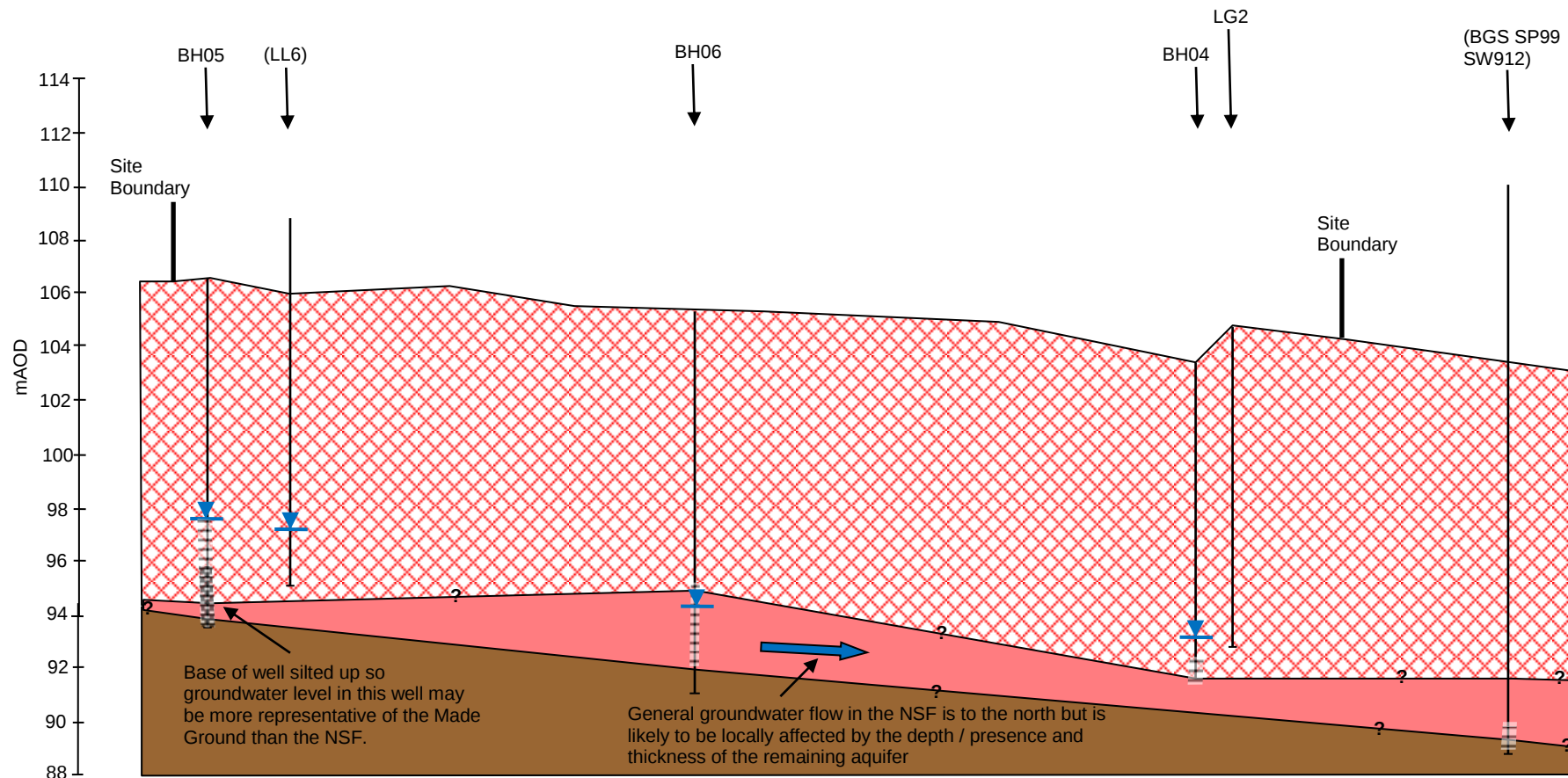
Scale: see key

Date: 08/06/23

South-North (east) Schematic
Geological Cross Section (B- B')

WEST
C

EAST
C'



(Borehole names in brackets are off-set from line of cross-section)

Legend

-  Made Ground / Infilled Waste
-  Northampton Sand Formation (NSF)
-  Whitby Mudstone Formation
-  Groundwater Level

100m

Project: fc37266
Corby

Client: Storefield Group
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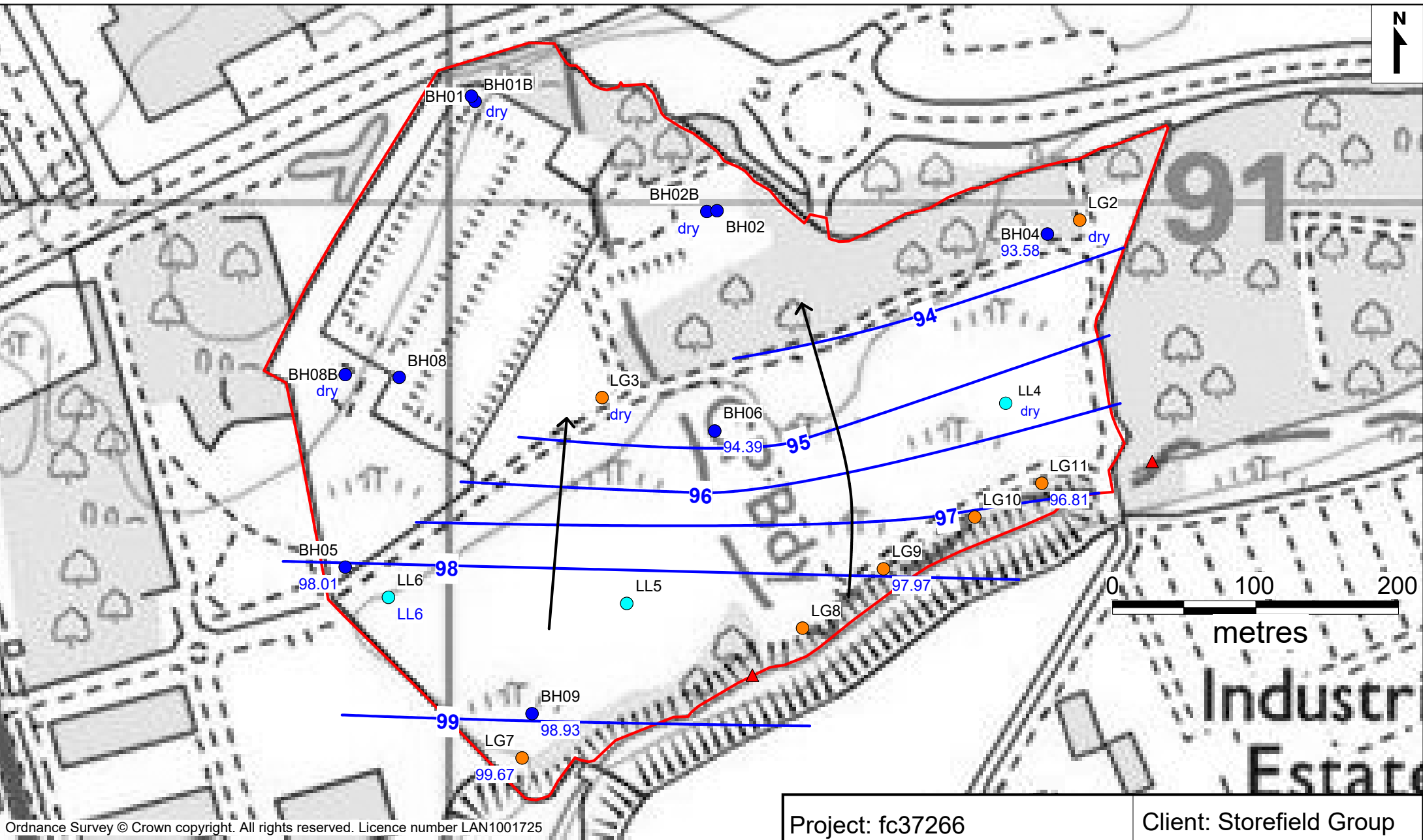
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Figure 6

Scale: see key

Date: 20/04/23

West - East Schematic Geological
Cross Section (C - C')



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- Site
 - Historic gas monitoring well
 - Historic leachate monitoring well
 - Soiltechnics monitoring well
 - Piezometric contour
 - Surface water monitoring location
 - Direction of groundwater flow
- 98.93 Groundwater level on 30/3/23 (mAOD)

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Figure 7	Groundwater piezometry	
Scale: as shown		
Date: 08/06/23		

TABLES

Table 1: Soil Analytical Results



Sample location			BH05	BH06	BH09	TP03	TP03	TP05	TP09	TP10	TP18	TP19	TP21	TP23	TP23	BH01	BH05	BH09	TP09	TP19	TP20
Depth (m)			11	12	7	1	2	1	3	2	2	1	1	0.7	3.5	0.1	0.1	0.1	0.1	0.1	0.1
Sample date			13/07/20	13/07/20	13/07/20	13/07/20	13/07/20	13/07/20	13/07/20	13/07/20	13/07/20	13/07/20	13/07/20	13/07/20	13/07/20	30/07/20	30/07/20	30/07/20	30/07/20	30/07/20	30/07/20
Determinand	Unit																				
pH	pH units		7.4	7.8	7.6	7.7	8	8	8.1	8	7.7	7.8	7.4	8	8.3	8.2	7.7	7.7	8.1	7.9	7.7
Total Cyanide	mg/kg		<2	<2	148	<2	<2	<2	<2	<2	<2	<2	<2	<2	5	<2	9	14	79	14	<2
Complex Cyanide	mg/kg		<2	<2	148	<2	<2	<2	<2	<2	<2	<2	<2	<2	5	<2	9	14	79	7	<2
Free Cyanide	mg/kg		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	7	<2
W/S Sulphate as SO4 (2:1)	mg/l				567	1710				357				948			60			93	29
W/S Sulphate as SO4 (2:1)	g/l				0.57	1.71				0.36				0.95			0.06			0.09	0.03
Sulphide	mg/kg				<5	<5				<5				69			18			16	<5
Organic Matter	%		1.6	1.5	2.9	1.1	1	0.7	0.6	1.8	2	1.2	1.2	1.7	1.7	4.7	9.4	3.3	3.8	7.9	4.7
Loss on ignition at 450oC	%		3.2	2.2			2	2.2	1.4		2.9	2.4	2.3	4.6		7.4		8.7	9.2		
Water soluble Nitrate (2:1) as NO3	mg/kg				<3	<3				5				<3			76			79	55
Water soluble Nitrate (2:1) as NO3	mg/l				<1.5	<1.5				2.3				<1.5			38.1			39.4	27.4
Arsenic	mg/kg		60	63	66	28	21	17	34	40	7	16	6	22	72	19	22	96	79	28	22
Beryllium	mg/kg		<0.5	0.8	3.8	<0.5	<0.5	<0.5	<0.5	1.4	0.8	<0.5	0.7	<0.5	1.1	2	2.4	3.4	3.8	2.3	1.5
W/S Boron	mg/kg		<1	<1	2.7	<1	<1	<1	1.5	4.2	3.3	<1	1.4	1	1.7	<1	<1	3.8	1.6	<1	<1
Cadmium	mg/kg		0.3	0.3	5.8	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	9.2	0.7	<0.2
Chromium	mg/kg		22	28	136	23	20	18	12	90	97	32	92	29	117	338	76	153	120	72	36
Chromium (hexavalent)	mg/kg		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Copper	mg/kg		11	14	38	18	16	15	5	29	66	19	51	13	10	150	61	60	43	97	70
Lead	mg/kg		20	21	1010	15	13	12	25	101	86	28	211	16	106	63	138	491	5010	420	95
Mercury	mg/kg		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.7	<1	<1	<1	<1	<1	<1
Nickel	mg/kg		26	33	33	28	21	20	10	67	64	19	48	18	43	17	17	51	34	20	19
Selenium	mg/kg		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Vanadium	mg/kg		47	53	253	30	34	32	25	163	47	49	40	44	234	924	118	320	273	126	63
Zinc	mg/kg		68	86	5030	59	51	42	113	676	976	148	5360	72	609	463	6280	4820	24000	4050	427
Total phenols (monohydric)	mg/kg		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	3	<2	<2	2.8	<2
Naphthalene	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.18	<0.1	<0.1	<0.1	<0.1	0.11	<0.1	<0.1	0.13	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg		<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	0.19	<0.1	<0.1	0.24	<0.1
Acenaphthene	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.29	<0.1	<0.1	0.14	<0.1	<0.1	0.19	<0.1
Fluorene	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.31	<0.1	0.22	<0.1	0.86	<0.1	<0.1	<0.1	0.12	<0.1	0.16	<0.1
Phenanthrene	mg/kg		<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	1.62	1.24	3.25	<0.1	0.55	0.82	0.1	5.22	0.72	0.43	1.95	0.5
Anthracene	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.58	0.26	1.66	<0.1	0.53	0.23	<0.1	1.01	0.11	<0.1	0.56	0.15
Fluoranthene	mg/kg		<0.1	<0.1	0.24	<0.1	<0.1	<0.1	<0.1	1.78	3.08	5.68	0.9	2.6	2.06	0.24	12.6	0.62	0.43	7.58	2.24
Pyrene	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.37	2.73	4.83	0.82	2.93	2	0.24	11.7	0.53	0.3	7.63	2.23
Benzo(a)anthracene	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.58	1.32	2.2	0.37	0.84	1.35	0.17	7.09	0.12	<0.1	5.68	1.43
Chrysene	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.57	1.43	2.44	0.35	0.74	1.27	0.23	4.81	0.17	<0.1	4.29	1.32
Benzo(b)fluoranthene	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.49	2.05	2.37	0.5	1	2.33	0.37	8.16	0.11	<0.1	9.15	2.81
Benzo(k)fluoranthene	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.15	0.63	0.72	<0.1	0.32	0.71	0.11	2.28	<0.1	<0.1	2.28	0.77
Benzo(a)pyrene	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.31	1.5	2.05	0.35	0.82	1.85	0.22	4.88	<0.1	<0.1	5.18	1.94
Indeno(1,2,3-cd)pyrene	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.19	1.35	1.16	0.24	0.45	1.3	0.2	4.77	<0.1	<0.1	5.87	1.45
Dibenz(a,h)anthracene	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.21	0.22	<0.1	<0.1	0.23	<0.1	0.53	<0.1	<0.1	0.67	0.15
Benzo(ghi)perylene	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.16	1.57	1.09	0.26	0.43	1.22	0.17	3.21	<0.1	<0.1	4.04	1.02
Total PAHs	EPA-16		<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	8.3	17.4	27.9	3.8	12.4	15.5	2	66.6	2.6	<1.6	55.5	16

Table 2: Soil Leachate Analytical Results

Sample Location			TP02	TP03	TP10	TP14	TP23	TP25
Depth (m)			1	1	2	2	0.7	2.5
Sample Date			13/07/2020	13/07/2020	13/07/2020	13/07/2020	13/07/2020	13/07/2020
Determinand	Unit							
pH	pH units		8.3	8	8	8.5	8.2	8
Total Cyanide	ug/l		<5	<5	15	<5	<5	36
Complex Cyanide	ug/l		<5	<5	15	<5	<5	36
Free Cyanide	ug/l		<5	<5	<5	<5	<5	<5
Sulphate as SO4	ug/l		6	102	26	9	84	315
Sulphide	ug/l		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate as NO3	ug/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic	ug/l		<5	<5	<5	<5	<5	<5
Beryllium	ug/l		<3	<3	<3	<3	<3	<3
Boron	ug/l		27	14	277	8	56	392
Cadmium	ug/l		<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	ug/l		<5	<5	<5	<5	<5	<5
Chromium (hexavalent)	ug/l			<20	<20		<20	
Copper	ug/l		<5	<5	<5	<5	<5	<5
Lead	ug/l		<5	<5	<5	<5	<5	<5
Mercury	ug/l		0.64	0.28	0.18	0.07	0.06	0.06
Nickel	ug/l		<5	<5	<5	<5	<5	<5
Selenium	ug/l		<5	<5	<5	<5	<5	<5
Vanadium	ug/l		<5	<5	<5	<5	<5	<5
Zinc	ug/l		<2	<2	<2	<2	<2	5
Total phenols (monohydric)	ug/l		<10	<10	<10	<10	<10	<10
Naphthalene	ug/l		<0.01	0.02	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	ug/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	ug/l		<0.01	0.03	0.09	0.05	0.07	<0.01
Fluorene	ug/l		<0.01	0.02	0.07	<0.01	0.05	<0.01
Phenanthrene	ug/l		0.08	0.07	0.13	0.09	0.05	0.06
Anthracene	ug/l		0.03	0.03	0.04	0.03	0.02	0.02
Fluoranthene	ug/l		<0.01	0.03	0.06	<0.01	0.02	0.06
Pyrene	ug/l		<0.01	0.02	0.03	<0.01	0.02	0.04
Benzo(a)anthracene	ug/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	ug/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	ug/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	ug/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	ug/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(1,2,3-cd)pyrene	ug/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenz(a,h)anthracene	ug/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	ug/l		<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Total PAHs	EPA-16		0.11	0.22	0.42	0.17	0.23	0.18

Table 3: Groundwater Analytical Results (2020 to 2023)

		Sample Location		BH04	BH04	BH04	BH04	BH04		BH05	BH05	BH05	BH05		BH06	BH06
		Depth (m)		10.1	10.87	10.74	10.33	9.87		9.18	9.11	8.93	8.99		12.94	13.28
		Sample Date		30/07/20	12/01/22	10/02/22	10/03/22	30/03/23		12/01/22	10/02/22	10/03/22	30/03/23		30/07/20	12/01/22
		Geological Unit		MG & NSF	MG & NSF	MG & NSF	MG & NSF	MG & NSF		MG & NSF	MG & NSF	MG & NSF	MG & NSF		NSF	NSF
		DWS	EQS													
Determinand	Unit															
pH	pH Units	6.5 to 9.5	6 to 9	7.6	6.8	7.1	7.1	7		7	7.2	7.1	7.7		7.4	7.1
Total Cyanide	ug/l	50	1	11	22	22	34	< 5		< 5	< 5	< 5	25		30	34
Complex Cyanide	ug/l	50	1	11	22	22	34	< 5		< 5	< 5	< 5	25		30	34
Free Cyanide	ug/l			< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5
Sulphate as SO4	mg/l	250	400	2560	2940	3470	5570	1160		1230	1170	1210	3800		1210	1050
Ammoniacal Nitrogen as NH4	ug/l	500	389	4990	9060	10300	12000	450		480	509	529	9710		3340	6810
Ammonia as NH4	ug/l	500	389	4990	9060	10300	12000	450		480	509	529	9710		3340	6810
Chloride	mg/l	250		56	66	75	102	8		11	10	11	57		332	135
Nitrate as NO3	mg/l	50		< 0.5	0.8	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5
Nitrite as NO2	mg/l	0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5
Phosphate as PO4	mg/l			< 1	< 1.0	< 1.0	1.2	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		< 1	< 1.0
Fluoride	mg/l	1.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	1.1
Total Organic Carbon (TOC)	mg/l			10.7	46.1	48.9	19	13.8		30.9	27.4	12.4	21.8		10	27.8
Chemical Oxygen Demand	mg/l			20	33	35	36	14		17	16	16	22		18	28
Biological Oxygen Demand	mg/l			32	14	< 5	< 5	11		< 5	< 5	< 5	< 5		< 5	< 5
Total Suspended Solids	mg/l			3150	1450	616	41800	381		348	628	8040	225		6670	962
Carbonate (Alkalinity as CaCO3)	mg/l			< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10
Antimony (dissolved)	ug/l	5			< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5			< 5
Arsenic (dissolved)	ug/l	10	50	< 5	6	7	7	11		10	8	7	32		< 5	46
Boron (dissolved)	ug/l	1000	-	251	799	695	788	748		843	534	730	951		952	3420
Cadmium (dissolved)	ug/l	5	0.25	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4		< 0.4	< 0.4	< 0.4	1		< 0.4	3.6
Chromium (dissolved)	ug/l	50	4.7	< 5	< 5	9	10	< 5		< 5	< 5	< 5	21		< 5	31
Chromium (hexavalent)	ug/l	-	3.4	< 20	< 20	< 20	< 20	< 20		< 20	< 20	< 20	< 20		< 20	< 20
Chromium III	ug/l	50	4.7		< 20	< 20	< 20	< 20		< 20	< 20	< 20	< 20			31
Copper (dissolved)	ug/l	2000	13.53	17	15	< 5	< 5	15		6	8	< 5	24		11	38
Lead (dissolved)	ug/l	10	5.36	8	< 5	10	7	18		< 5	7	< 5	99		< 5	598
Manganese (dissolved)	ug/l	50	219.55		4740	4010	6300	3850		3980	2960	3540	9760			5130
Mercury (dissolved)	ug/l	1	0.07	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05
Nickel (dissolved)	ug/l	20	10.05	10	21	24	27	42		90	49	40	41		13	45
Selenium (dissolved)	ug/l	10	-	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	23		< 5	20
Zinc (dissolved)	ug/l	-	27.74	63	39	60	64	88		50	32	20	318		75	5010
Magnesium (dissolved)	mg/l				93.7	196	142	59.8		54.9	107	67.8	90.7			65.4
Chromium (total)	ug/l				31	< 5	< 5	33		< 5	< 5	6	506			21
Total Phenols (monohydric)	ug/l		7.7	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10
Naphthalene	ug/l	-	2	< 0.01	< 0.01	< 0.01	< 0.01	0.18		< 0.01	< 0.01	< 0.01	0.3		< 0.01	0.01
Acenaphthylene	ug/l	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01
Acenaphthene	ug/l	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01
Fluorene	ug/l	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01
Phenanthrene	ug/l	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01
Anthracene	ug/l	-	0.1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01
Fluoranthene	ug/l	-	0.0063	< 0.01	< 0.01	< 0.01	0.02	< 0.01		0.01	< 0.01	< 0.01	< 0.01		0.01	< 0.01
Pyrene	ug/l	-	-	< 0.01	< 0.01	< 0.01	0.02	< 0.01		0.02	< 0.01	0.04	< 0.01		0.01	< 0.01
Benzo(a)anthracene	ug/l	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01
Chrysene	ug/l	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01
Benzo(b)fluoranthene	ug/l	0.1	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01
Benzo(k)fluoranthene	ug/l	0.1	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01
Benzo(a)pyrene	ug/l	0.01	0.00017	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	ug/l	0.1	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01
Dibenz(a,h)anthracene	ug/l	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01
Benzo(ghi)perylene	ug/l	0.1	-	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008		< 0.008	< 0.008	< 0.008	< 0.008		< 0.008	< 0.008
Total EPA-16 PAHs	ug/l			< 0.01	< 0.16	< 0.16	< 0.16	0.18		< 0.16	< 0.16	< 0.16	0.3		0.02	< 0.16
Aliphatic >C5 - C6	ug/l	15000		< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10
Aliphatic >C6 - C8	ug/l	15000		< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10
Aliphatic >C8 - C10	ug/l	300		< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10
Aliphatic >C10 - C12	ug/l	300		< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10
Aliphatic >C12 - C16	ug/l	300		< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10
Aliphatic >C16 - C21	ug/l	300		< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10
Aliphatic >C21 - C34	ug/l	300		< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10
Aliphatic (C5 - C34)	ug/l			< 70	< 70	< 70	< 70	< 70		< 70	< 70	< 70	< 70		< 70	< 70
Aromatic >C5 - C7	ug/l	1	10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10
Aromatic >C7 - C8	ug/l	700	74	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10
Aromatic >C8 - C10	ug/l	300		< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10
Aromatic >C10 - C12	ug/l	90		< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10
Aromatic >C12 - C16	ug/l	90		< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10
Aromatic >C16 - C21	ug/l	90		< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10
Aromatic >C21 - C35	ug/l	90		< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10
Aromatic (C5 - C35)	ug/l			< 70	< 70	< 70	< 70	< 70		< 70	< 70	< 70	< 70		< 70	< 70
Total >C5 - C35	ug/l			< 140	< 140	< 140	< 140	< 140		< 140	< 140	< 140	< 140		< 140	< 140
Benzene	ug/l	1	10	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1		< 1	< 1
Toluene	ug/l	700	74	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5
Ethylbenzene	ug/l	300		< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5
p & m-xylene	ug/l	500		< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10
o-xylene	ug/l	500		< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5
MTBE	ug/l	15		< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10
Dichlorodifluoromethane	ug/l			< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5
Vinyl Chloride	ug/l			< 5	< 5	< 5										

Notes:
MG = Made Ground
NSF = Northampton Sand Formation
Underlined denotes an exceedance of DWS
BOLD denotes an exceedance of EQS

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Table 3: Groundwater Analytical Results (2020 to 2023)

		Sample Location	BH06	BH06	BH06	BH06	BH06	BH06	BH06	BH08	BH09	BH09	BH09
		Depth (m)	12.98	13.24	12.96	13	13.12	12.74	12.94	14.41	10.44	10.58	10.57
		Sample Date	10/02/22	10/03/22	09/09/22	14/10/22	18/11/22	14/12/22	30/03/23	30/07/20	30/07/20	12/01/22	10/02/22
		Geological Unit	NSF	NSF	NSF	NSF	NSF	NSF	NSF	MG	MG & NSF	MG & NSF	MG & NSF
		DWS	EQS										
Benzene	ug/l			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Trichloroethene	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Dibromomethane	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
TAME	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Toluene	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	ug/l			< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,3-Dichloropropane	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Dibromochloromethane	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromoethane	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1,1,2-Tetrachloroethane	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Ethyl Benzene	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
m,p-Xylene	ug/l			< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
o-Xylene	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	ug/l			< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Isopropylbenzene	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	ug/l			< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2,3-Trichloropropane	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
n-Propylbenzene	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromobenzene	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Chlorotoluene	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,3,5-Trimethylbenzene	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-Chlorotoluene	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
tert-Butylbenzene	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2,4-Trimethylbenzene	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
sec-Butylbenzene	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
p-Isopropyltoluene	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
n-Butylbenzene	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	ug/l			< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hexachlorobutadiene	ug/l			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Phenol	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitrophenol	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrobenzene	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
0-Cresol	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethoxy)methane	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethyl)ether	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chlorophenol	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,3-Dichlorobenzene	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-Dichlorobenzene	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dimethylphenol	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Isophorone	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachloroethane	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
p-Cresol	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitroaniline	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorocyclopentadiene	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethyl phthalate	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloroaniline	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitrophenol	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chlorophenyl phenyl ether	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
3-Nitroaniline	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitroaniline	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Bromophenyl phenyl ether	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diethyl phthalate	ug/l	15000		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzofuran	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Azobenzene	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibutyl phthalate	ug/l	900		< 0.1	0.1	< 0.1	< 0.1	< 0.1	20.3	< 0.1	< 0.1	< 0.1	< 0.1
Carbazole	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-ethylhexyl)phthalate	ug/l	5.6	1.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzyl butyl phthalate	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Di-n-octyl phthalate	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TICs													
Benzene, 2,4-dimethyl-1-(phenylmethyl)-	ug/l												
Benzene, 1-methyl-2-[(3-methylphenyl)methyl]-	ug/l												
7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene-2,8-dione	ug/l												
Cyclic Octatomic sulfur	ug/l							0.8					
6-Tradecanesulfonic acid, butyl ester	ug/l							2.6					

Notes:

MG = Made Ground

NSF = Northampton Sand Formation

Underlined denotes an exceedance of DWS

BOLD denotes an exceedance of EQS

fc37266 5 of 6 gw analytical data FC 230427.xlsx

Table 3: Groundwater Analytical Results (2020 to 2023)

		Sample Location			BH09	BH09	LG7	LG9	LG9	LG9	LG11	LG11	LL6	LL6	LL6
			Depth (m)		10.19	9.72	8.75	10.24	10.48	9.91	10.8	10.18	12.26	11.93	11.74
			Sample Date		10/03/22	30/03/23	10/03/22	12/01/22	10/02/22	10/03/22	12/01/22	10/03/22	12/01/22	10/02/22	10/03/22
			Geological Unit		MG & NSF	MG & NSF	MG	MG	MG	MG	MG	MG	MG	MG	MG
		DWS	EQS												
Benzene	ug/l				< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Trichloroethene	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Dibromomethane	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
TAME	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Toluene	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	ug/l				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,3-Dichloropropane	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Dibromochloromethane	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromoethane	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1,1,2-Tetrachloroethane	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Ethyl Benzene	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
m,p-Xylene	ug/l				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
o-Xylene	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	ug/l				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Isopropylbenzene	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	ug/l				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2,3-Trichloropropane	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
n-Propylbenzene	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromobenzene	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Chlorotoluene	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,3,5-Trimethylbenzene	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-Chlorotoluene	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
tert-Butylbenzene	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2,4-Trimethylbenzene	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
sec-Butylbenzene	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
p-Isopropyltoluene	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
n-Butylbenzene	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	ug/l				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hexachlorobutadiene	ug/l				< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Phenol	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitrophenol	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrobenzene	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
0-Cresol	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethoxy)methane	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethyl)ether	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chlorophenol	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,3-Dichlorobenzene	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-Dichlorobenzene	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dimethylphenol	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Isophorone	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachloroethane	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
p-Cresol	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitroaniline	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorocyclopentadiene	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethyl phthalate	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloroaniline	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitrophenol	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chlorophenyl phenyl ether	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
3-Nitroaniline	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitroaniline	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Bromophenyl phenyl ether	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diethyl phthalate	ug/l	15000			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzofuran	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Azobenzene	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibutyl phthalate	ug/l	900			0.3	7.5	0.3	< 0.1	< 0.1	0.3	0.2	< 0.1	< 0.1	< 0.1	0.2
Carbazole	ug/l				< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-ethylhexyl)phthalate	ug/l	5.6	1.3		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1				

Table 4: Surface Water Analytical Results



		Sample Location	SW1	SW1	SW1		SP02	SW2	SW2	SW2		SW3	SW3	SW3
		Sample Date	12/01/22	10/02/22	10/03/22		30/07/20	12/01/22	10/02/22	10/03/22		12/01/22	10/02/22	10/03/22
		EQS												
Determinand	Unit													
pH	pH Units	6 to 9	8	8.2	8		8.3	8.2	8.3	8.2		8.2	8.3	8.1
Total Cyanide	ug/l	1	< 5	< 5	7		14	21	8	7		12	8	9
Complex Cyanide	ug/l	1	< 5	< 5	7		14	21	8	7		12	8	9
Free Cyanide	ug/l		< 5	< 5	< 5		<5	< 5	< 5	< 5		< 5	< 5	< 5
Sulphate as SO4	mg/l	400	69	102	102		60	91	105	102		76	107	104
Ammoniacal Nitrogen as NH4	ug/l	389	307	288	263		324	220	178	210		224	199	231
Ammonia as NH4	ug/l	389	307	288	263		324	220	178	210		224	199	231
Chloride	mg/l		66	72	75		55	74	89	77		62	78	80
Nitrate as NO3	mg/l		18.6	19.4	2.9		4.9	16.2	17.3	5		16	17.9	5.1
Nitrite as NO2	mg/l		< 0.5	< 0.5	0.9		<0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5
Phosphate as PO4	mg/l		< 1.0	< 1.0	< 1.0		<1	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0
Fluoride	mg/l		< 0.5	< 0.5	< 0.5		<0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5
Total Organic Carbon (TOC)	mg/l		16.5	16.9	9.1		13.3	15.5	15.8	9		15.3	16	9.1
Chemical Oxygen Demand	mg/l		40	17	24		6	17	14	22		16	15	24
Biological Oxygen Demand	mg/l		< 5	13	< 5		<5	< 5	< 5	< 5		< 5	70	< 5
Total Suspended Solids	mg/l		201	< 5	8		25	9	6	6		13	< 5	8
Carbonate (Alkalinity as CaCO3)	mg/l		< 10	< 10	< 10		<10	< 10	< 10	< 10		< 10	< 10	< 10
Antimony (dissolved)	ug/l		< 5	< 5	< 5			< 5	< 5	< 5		< 5	< 5	< 5
Arsenic (dissolved)	ug/l	50	< 5	< 5	< 5		<5	< 5	< 5	< 5		< 5	< 5	< 5
Boron (dissolved)	ug/l	-	487	788	443		68	660	781	729		549	726	371
Cadmium (dissolved)	ug/l	0.25	< 0.4	< 0.4	< 0.4		<0.4	< 0.4	< 0.4	< 0.4		< 0.4	< 0.4	< 0.4
Chromium (dissolved)	ug/l	4.7	< 5	< 5	< 5		<5	< 5	< 5	< 5		< 5	< 5	< 5
Chromium (hexavalent)	ug/l	3.4	< 20	< 20	< 20		<20	< 20	< 20	< 20		< 20	< 20	< 20
Chromium III	ug/l	4.7	< 20	< 20	< 20			< 20	< 20	< 20		< 20	< 20	< 20
Copper (dissolved)	ug/l	13.53	6	< 5	< 5		11	9	6	5		22	18	8
Lead (dissolved)	ug/l	5.36	< 5	< 5	< 5		<5	< 5	< 5	< 5		< 5	7	< 5
Manganese (dissolved)	ug/l	219.55	28	59	305			10	9	38		13	24	81
Mercury (dissolved)	ug/l	0.07	< 0.05	< 0.05	< 0.05		<0.05	< 0.05	0.15	< 0.05		< 0.05	< 0.05	< 0.05
Nickel (dissolved)	ug/l	10.05	< 5	< 5	< 5		<5	< 5	< 5	< 5		< 5	< 5	< 5
Selenium (dissolved)	ug/l	-	< 5	< 5	< 5		<5	< 5	< 5	< 5		< 5	< 5	< 5
Zinc (dissolved)	ug/l	27.74	22	62	44		60	28	100	107		30	120	109
Magnesium (dissolved)	mg/l		8.8	21	11.7			9.1	20.6	10.5		8.3	20.5	11
Chromium (total)	ug/l		33	< 5	< 5			10	9	< 5		10	8	< 5
Total Phenols (monohydric)	ug/l	7.7	< 10	< 10	< 10		<10	< 10	< 10	< 10		< 10	< 10	< 10
Naphthalene	ug/l	2	< 0.01	< 0.01	< 0.01		<0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01
Acenaphthylene	ug/l	-	< 0.01	< 0.01	< 0.01		<0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01
Acenaphthene	ug/l	-	< 0.01	0.28	< 0.01		<0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01
Fluorene	ug/l	-	< 0.01	0.56	< 0.01		<0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01
Phenanthrene	ug/l	-	< 0.01	0.89	< 0.01		<0.01	< 0.01	< 0.01	< 0.01		< 0.01	0.01	< 0.01
Anthracene	ug/l	0.1	< 0.01	0.28	< 0.01		<0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01
Fluoranthene	ug/l	0.0063	< 0.01	0.47	< 0.01		<0.01	< 0.01	< 0.01	< 0.01		< 0.01	0.01	< 0.01
Pyrene	ug/l	-	< 0.01	0.3	< 0.01		<0.01	< 0.01	< 0.01	0.01		< 0.01	0.01	< 0.01
Benzo(a)anthracene	ug/l	-	< 0.01	0.04	< 0.01		<0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01
Chrysene	ug/l	-	< 0.01	0.03	< 0.01		<0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	ug/l	-	< 0.01	< 0.01	< 0.01		<0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	ug/l	-	< 0.01	< 0.01	< 0.01		<0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	ug/l	0.00017	< 0.01	< 0.01	< 0.01		<0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	ug/l	-	< 0.01	< 0.01	< 0.01		<0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	ug/l	-	< 0.01	< 0.01	< 0.01		<0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	ug/l	-	< 0.008	< 0.008	< 0.008		<0.008	< 0.008	< 0.008	< 0.008		< 0.008	< 0.008	< 0.008
Total EPA-16 PAHs	ug/l		< 0.16	2.85	< 0.16		<0.01	< 0.16	< 0.16	< 0.16		< 0.16	< 0.16	< 0.16
Aliphatic >C5 - C6	ug/l		< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10	< 10
Aliphatic >C6 - C8	ug/l		< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10	< 10
Aliphatic >C8 - C10	ug/l		< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10	< 10
Aliphatic >C10 - C12	ug/l		< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10	< 10
Aliphatic >C12 - C16	ug/l		< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10	< 10
Aliphatic >C16 - C21	ug/l		< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10	< 10
Aliphatic >C21 - C34	ug/l		< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10	< 10
Aliphatic (C5 - C34)	ug/l		< 70	< 70	< 70		< 70	< 70	< 70	< 70		< 70	< 70	< 70
Aromatic >C5 - C7	ug/l	10	< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10	< 10
Aromatic >C7 - C8	ug/l	74	< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10	< 10
Aromatic >C8 - C10	ug/l		< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10	< 10
Aromatic >C10 - C12	ug/l		< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10	< 10
Aromatic >C12 - C16	ug/l		< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10	< 10
Aromatic >C16 - C21	ug/l		< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10	< 10
Aromatic >C21 - C35	ug/l		< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10	< 10
Aromatic (C5 - C35)	ug/l		< 70	< 70	< 70		< 70	< 70	< 70	< 70		< 70	< 70	< 70
Total >C5 - C35	ug/l		< 140	< 140	< 140		< 140	< 140	< 140	< 140		< 140	< 140	< 140
Benzene	ug/l	10	< 1	< 1	< 1		< 1	< 1	< 1	< 1		< 1	< 1	< 1
Toluene	ug/l	74	< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
Ethylbenzene	ug/l		< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
p & m-xylene	ug/l		< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10	< 10
o-xylene	ug/l		< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
MTBE	ug/l		< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10	< 10
Dichlorodifluoromethane	ug/l		< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
Vinyl Chloride	ug/l		< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
Chloromethane	ug/l		< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
Chloroethane	ug/l		< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
Bromomethane	ug/l		< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
Trichlorofluoromethane	ug/l		< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
1,1-Dichloroethene	ug/l		< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
MTBE	ug/l		< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10	< 10
trans-1,2-Dichloroethene	ug/l		< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
1,1-Dichloroethane	ug/l		< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
cis-1,2-Dichloroethene	ug/l		< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
2,2-Dichloropropane	ug/l		< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
Chloroform	ug/l		< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
Bromochloromethane	ug/l		< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10	<

Table 4: Surface Water Analytical Results



		Sample Location		SW1	SW1	SW1		SP02	SW2	SW2	SW2		SW3	SW3	SW3
		Sample Date		12/01/22	10/02/22	10/03/22		30/07/20	12/01/22	10/02/22	10/03/22		12/01/22	10/02/22	10/03/22
		EQS													
Determinand	Unit														
1,2-Dichloropropane	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
Trichloroethene	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
Bromodichloromethane	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
Dibromomethane	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
TAME	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
cis-1,3-Dichloropropene	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
Toluene	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
trans-1,3-Dichloropropene	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
1,1,2-Trichloroethane	ug/l			< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10	< 10
1,3-Dichloropropane	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
Tetrachloroethene	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
Dibromochloromethane	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
1,2-Dibromoethane	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
Chlorobenzene	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
1,1,1,2-Tetrachloroethane	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
Ethyl Benzene	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
m,p-Xylene	ug/l			< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10	< 10
o-Xylene	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
Styrene	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
Bromoform	ug/l			< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10	< 10
Isopropylbenzene	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	ug/l			< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10	< 10
1,2,3-Trichloropropane	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
n-Propylbenzene	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
Bromobenzene	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
2-Chlorotoluene	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
1,3,5-Trimethylbenzene	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
4-Chlorotoluene	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
tert-Butylbenzene	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
1,2,4-Trimethylbenzene	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
sec-Butylbenzene	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
p-Isopropyltoluene	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
1,3-Dichlorobenzene	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
1,4-Dichlorobenzene	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
n-Butylbenzene	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
1,2-Dichlorobenzene	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	ug/l			< 10	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10	< 10
Hexachlorobutadiene	ug/l			< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5
Phenol	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
2-Nitrophenol	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
Nitrobenzene	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
0-Cresol	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
bis(2-chloroethoxy)methane	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
bis(2-chloroethyl)ether	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
2-Chlorophenol	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
1,3-Dichlorobenzene	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
1,2-Dichlorobenzene	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
2,4-Dimethylphenol	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
Isophorone	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
Hexachloroethane	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
p-Cresol	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
2-Nitroaniline	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
Hexachlorocyclopentadiene	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
Dimethyl phthalate	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
4-Chloroaniline	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
4-Nitrophenol	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
4-Chlorophenyl phenyl ether	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
3-Nitroaniline	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
4-Nitroaniline	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
4-Bromophenyl phenyl ether	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
Hexachlorobenzene	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
Diethyl phthalate	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
Dibenzofuran	ug/l			< 0.1	0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
Azobenzene	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
Dibutyl phthalate	ug/l			< 0.1	< 0.1	0.3		< 0.1	< 0.1	< 0.1	0.3		< 0.1	< 0.1	0.2
Carbazole	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
bis(2-ethylhexyl)phthalate	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	0.1
Benzyl butyl phthalate	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
Di-n-octyl phthalate	ug/l			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
TICs															
2-Propanol, 1-chloro-, phosphate (3:1)	ug/l			0.1					< 0.1				0.2		
Propanoic acid, 2-methyl-, 3-hydroxy-	ug/l												< 0.1		
Naphthalene, 2,3,6-trimethyl-	ug/l				0.8										
Dibenzothiophene, 3-methyl-	ug/l				0.4										

APPENDIX 1

BGS Logs



BGS ID: 359671 : BGS Reference: SP89SE143
EPSG: 27700 : 489860,290500

GEOLOGICAL SURVEY OF GREAT BRITAIN

RECORD OF SHAFT OR BORE FOR MINERALS

Name of Shaft or Bore given by Geological Survey:

Name and Number given by owner:

For whom made

Town or Village..... County

Exact site

Attach a tracing from a map, or a sketch-map, if possible.

Purpose for which made.

Ground Level at shaft
base relative to O.D. 37.66 If not ground level give O.D. of beginning of shaft
base

Made by

Date of sinking.....1944

Information from

Date received.....1956

Examined by.

SPECIMEN NUMBERS AND ADDITIONAL NOTES

Water at 28'
RLW 24'

2nd Water at 34'
RLW 24'

C.B.H. 27185 - Wt. 53825 - Dd. 0609-2000 - 2/56



(*11932) Wt.30370/0370 10,000 9/39 A.&E.W.Ltd. Gp.685

222

RECORD OF SHAFT OR BORE FOR MINERALS

Name and Number of Shaft or Bore given by Geological Survey :

SP 89/52
222

Name and Number given by owner (if different from above) :

LIII 21 EE

Town or Village Eastham area. Date of sinking March 1935

Exact site q.v. 8979 9058

County Northants.

6" Quarter Sheet 115E(W)

1" N.S. Geol. Map 171

1" O.S. Geol. Map 64

Whether Confidential

Yes.

DECLASSIFIED

A sketch-map or tracing from a large-scale map is desirable.

Purpose for which made Ironstone.

Level at which bore commenced relative to O.D. 381' If not down bore, state if horizontal or up

Made by Messrs. Stewarts & Lloyd for Messrs. S. & L.

Information from --- Date received Oct '40

Specimens --- Dip of strata ---

GEOLOGICAL CLASSIFICATION	DESCRIPTION	THICKNESS		DEPTH			
			ft.		ft.		
B.C. {	Soil.	(0.30)	1	(0.30)	1		
	Boulder clay.	(3.85)	10	(3.35)	11		
? Gloc. Sand dunes Rd.	Brown sand.	(0.30)	1	(3.66)	12		
	Limestone.	(1.22)	4	(4.88)	16		
Lr. Est {	Brown sand.	(1.22)	4	(6.10)	20		
	Black ..	(1.83)	6	(7.92)	26		
	Gray ..	(0.61)	2	(8.53)	28		
	sandy clay.	(2.44)	8	(10.97)	36		
Front. {	Top bed.	(0.91)	3	(11.89)	39		
	Ironstone.	(3.66)	12	(15.54)	51		
Analysis of dried Ironstone.							
	Fe.	SiO ₂ .	Al ₂ O ₃	CaO	Loss on Calcng	S.	
6' whole	Top 2 ft. Top	30.8	4.7	5.35	4.8	24.9	897
	2nd 1 ft. bed.	30.8	8.9	7.5	7.8	25.7	54
	1st 2 ft.	32.9	7	6.65	7.8	24.9	382
	2nd ...	28.5	6.2	5.65	14.3	26.9	254
	3rd ...	22.2	9.2	7.77	19.8	26.8	185
	4th ...	21.6	12.6	7.85	17.8	26.5	242
	5 ...	15.6	14.7	7.77	24	27.7	417
			10.6				410



(*11032) Wt.30370/0370 10,000 9/89 A.&E.W.Ltd. Gp.685

RECORD OF SHAFT OR BORE FOR MINERALS

Name and Number of Shaft or Bore given by Geological Survey :

SP 89/32

271 227

Name and Number given by owner (if different from above):

Deane Pit A111 2022

Town or Village

Date of sinking

1940

Exact site

q.r. 8976 9122

DECLASSIFIED

A sketch-map or tracing from a large-scale map is desirable.

Purpose for which made

Ironstone

Level at which bore commenced relative to O.D.

If not down bore, state if horizontal or up

Made by

Messrs. Stewarts & Lloyds

for Messrs.

ditto

Information from

ditto

Date received

1941

Specimens

Dip of strata

Specimens.									
GEOLOGICAL CLASSIFICATION	DESCRIPTION	THICKNESS			DEPTH				
A.C.I.	Soil	(0.30)	1	-	(0.30)	1	-		
	Sandy clay	(0.83)	6	-	(2.13)	7	-		
	Limestone layers & sand	(1.52)	5	-	(3.66)	12	-		
L.S. F.S.P.	Yellow sand	(2.13)	7	-	(5.79)	19	-		
	Black clay	(1.52)	5	-	(7.32)	24	-		
	Dark sandy clay	(1.22)	4	-	(8.53)	28	-		
Ironst.	Light gray sand	(1.52)	5	-	(10.06)	33	-		
	Ironstone	(3.66)	12	-	(13.72)	45	-		
<u>Analysis of direct ironstone.</u>									
	<u>Iron</u>	<u>Silica</u>	<u>Alumina</u>	<u>Lime</u>	<u>Loss on calcining</u>	<u>Sulphur</u>			
1st ft.	32.8	12.6	5.27	4.8	22.0	1.443			
2nd "	33.2	10.4	4.18	6.0	22.1	1.306			
3rd 4"	35.0	12.8	4.94	5.6	22.6	.356			
5"-6"	28.2	24.6	5.60	5.0	19.3	.288			
7"-8"	26.2	25.8	4.35	6.8	18.9	.302			
9"-10"	21.8	18.8	6.11	14.2	22.7	.713			
11"-12"	19.0	19.2	4.85	17.4	24.6	.425			
		18.8				.576			
2' workable.									

GEOLOGICAL SURVEY AND MUSEUM,
SOUTH KENSINGTON,
LONDON, S.W.7.

G.S.M. Office
File No.

Site marked
on 6" Map by

Site marked
on 1" Map by



(*11932) Wt.80370/0370 10,000 9/39 A.& E.W.Ltd. Gp.685

RECORD OF SHAFT OR BORE FOR MINERALS

Name and Number of Shaft or Bore given by Geological Survey :

SP 89/SE.

272 228

Name and Number given by owner (if different from above):

Deane Rd AX1 28 B 50

Town or Village.

Date of sinking

Jan 1940.

Exact site

q.v. 9000 9130

County

Northants.

6" Quarter Sheet 110E(W)

1" N.S. Geol. Map 171.

1" O.S. Geol. Map 645W

Whether Confidential

DECLASSIFIED

A sketch-map or tracing from a large-scale map is desirable.

Purpose for which made

Frontline

Level at which bore commenced relative to O.D.

354'

If not down bore, state if horizontal or up.

Made by

Stewart & Lloyd

for Messrs.

ditto

Information from

ditto

Date received

Nov 1941

Specimens

Dip of strata

GEOLOGICAL CLASSIFICATION	DESCRIPTION	THICKNESS			DEPTH		
BC1	Soil	(0.30)	1	-	(0.30)	1	-
	Boulder Clay	(2.90)	9	6	(3.20)	10	6
	Yellow sand	(3.20)	10	6	(6.40)	21	-
AE	Dark grey sand	(0.61)	2	-	(7.01)	23	-
	Light grey sdy clay	(2.59)	8	6	(9.60)	31	6
	Light grey sd.	(0.46)	1	6	(10.06)	33	-
NS	Frontline	(3.66)	12	-	(13.72)	45	-
	Water standing at 30'.						
	Analyses of dried frontline.						
		Iron.	Silica	Alumina	Line	Loss on calcining	Sulphur.
10' ft.		30.6	16.8	3.35	5.2	23.3	973
20' "		34.4	10.2	6.02	6.8	21.0	2520
30' "		34.4	13.6	5.60	5.6	19.7	822
50' "		31.4	19.6	5.02	6.8	19.5	775
70' "		32.4	17.0	5.60	6.0	19.5	399
90' "		31.2	12.6	6.35	7.6	22.0	509
110' "		22.2	14.8	5.02	15.2	24.0	564
			15.2				719

GEOLOGICAL SURVEY AND MUSEUM,
SOUTH KENSINGTON,
LONDON, S.W.7.

G.S.M. Office
File No.

Site marked
on 6" Map by

Site marked
on 1" Map by



DRILLHOLE RECORD

SP89SE284

Project DENE QUARRY RECLAMATION

Client CORBY DISTRICT COUNCIL

Drillhole 11

Location CORBY

Contractor

Sheet 1 of 2

Project No. 86-5455

Drilling		Core					Strata					
Depth Cored	Depth Cased	Samples	Recovery %	R O D %	Fracture Index	Fracture Spacing	Tests	Description	Piezo	Legend	Depth	Level
								Hardcore, bricks and cobbles. MADE GROUND.			111.27	
								Firm dark green grey sandy clayey SILT and some fine gravel of limestone. GLACIAL TILL.			110.77	
								Firm dark brown grey silty CLAY with some fine to medium gravel. GLACIAL TILL.			109.97	
								Stiff light brown mottled yellow brown silty clay/clayey silt with some limestone gravel. GLACIAL TILL.			109.47	
								Stiff light purple grey laminated silty CLAY. (L.E.S).			108.87	
								Light purple grey and dark grey black variably slightly clayey silty fine SAND. (L.E.S).			107.47	
								Light grey green fine to medium grained thin to medium bedded slightly weathered becoming fresh silty SANDSTONE, moderately strong. Bedding horizontal, occasional discontinuous vertical joints. To 6.80m much iron staining with thick lamiations of ironstone present. From 6.80m becoming darker in colour. From 8.50m medium spaced joints present dip 45°.			106.57	
								(N.S.I).				
6.0	6.0		94(90)	82	5	100-300mm	-					
8.0	6.0		88(88)	88	45	110-200mm	-					
10.00	6.0											

Ground Water

Ground Water							Remarks	Boring	
Depth Struck	Depth of Casing	Depth after 20 mins	Depth Sealed	Date	am pm	Depth of Hole	Depth to Water	Plant	Crew
9.0	6.0	-	NS	22.10.86		Piezo	7.45	Plant	HANDS ENGLAND
				23.10.86		Piezo	7.50	Crew	JS/PS
							Flushing medium : Air. Water added from 6.0m to assist coring. Casagrande type standpipe piezometer inserted to 10.0m in sand cell from 10.50-9.30m, volume 0.010m ³ , Cement Bentonite plug placed from 11.3 to 10.50m, 9.30 to 7.80, 1.50 to 1.0m.	Type and Diameter	Depth
								100mm rock roller	6.0m
								76mm 10 HWF	11.30m
								99mm OD	
								Start Date	17.10.86
								Finish Date	17.10.86

Symbols and abbreviations are explained on the accompanying key.
All measurements are in metres.

geotechnics



DRILLHOLE RECORD

SP89SE284

Project DENE QUARRY RECLAMATION

Client CORBY DISTRICT COUNCIL

Drillhole 11

Location CORBY

Contractor

Sheet 2 of 2

Project No. 86-5455

Drilling			Core					Strata				
Depth Cored	Depth Cased	Samples	Re- covery %	R Q D %	Fracture Index	Fracture Spacing	Tests	Description	Piezo	Legend	Depth	Level
10.0	6.0							SANDSTONE. (for description see sheet 1 of 2)			10.25	101.02
11.3	6.0		81(81)	N/A	N/A	N/A	-	Hard dark grey thickly laminated to very thinly bedded slightly micaceous silty CLAY. Fine silt partings present. (UPPER LIAS).			11.30	99.97
								End of Drillhole				

Remarks:

Access to piezometer via stopcock cover set in concrete.
Borehole backfilled with imported gravelly sand.

geotechnics



DRILLHOLE RECORD

SP 89 SE 286

Project DENE QUARRY RECLAMATION

Client CORBY DISTRICT COUNCIL

Drillhole 13

Location CORBY

Contractor

Sheet 1 of 2

Project No. 86-5455

Drilling		Core						Strata				
Depth Cored	Depth Cased	Samples	Re- covery %	R O D %	Fracture Index	Fracture Spacing	Tests	Description	Piezo	Legend	Depth	Level
0.H								Dark brown sandy silty clay and gravel cobbles and boulders of sandstone and concrete. MADE GROUND.			0.6	115.21
								Dark brown fine to coarse sand. MADE GROUND.			1.20	114.61
								Light yellow brown gravelly sandy silty clay with occasional cobbles MADE GROUND.			3.60	114.01
0.H								Firm dark grey brown silty clay/ clayey silt with some gravel, cobble and boulder sized fragments of predominantly sandstone. Occasional lenses of yellow silty sand. MADE GROUND.				111.61
0.H												
0.H	9.0										10.0	

Ground Water

Remarks							Boring	
Depth Struck	Depth of Casing	Depth after 20 mins	Depth Sealed	Date	am pm	Depth of Hole	Depth to Water	Plant Crew
19.20	9.0	-	NS	13.10.86		Piezo 16.20	16.20	HANDS ENGLAND JS/PS
				14.10.86		Piezo 16.20	16.20	Type and Diameter
				15.10.86		Piezo 16.30	16.30	Depth
				16.10.86		Piezo 16.40	16.40	100mm rock roller
				17.10.86		Piezo 16.30	16.30	76mm ID
				22.10.86		Piezo 16.10	16.10	99mm OD
				23.10.86		Piezo 16.20	16.20	19.20m
From 9.0m water added to assist air flush. Piezometer installed at 21.0m in sand cell from 21.5m to 20.40m volume 0.007m. Cement bentonite plug inserted from 20.50-19.50m, and 16.50 to 15.40m. Access to piezometer by stopcock cover set in concrete.								21.40m
								Start Date 10.10.86 Finish Date 10.10.86

Symbols and abbreviations are explained on the accompanying key.
All linear dimensions are in metres.

geotechnics



DRILLHOLE RECORD

SP 89 SE 286

Project DENE QUARRY RECLAMATION

Client CORBY DISTRICT COUNCIL

Drillhole 13

Location CORBY

Contractor

Sheet 2 of 2

Project No. 86-5455

Drilling		Core						Strata				
Depth Cored	Depth Cased	Samples	Re- covery %	R O D %	Fracture Index	Fracture Spacing	Tests	Description	Piezo	Legend	Depth	Level
0.0								MADE GROUND. (for description see sheet 1 of 2)			10.0	
0.0								Light orange brown and grey silty sand with occasional chalk, grey silty clay laminations. MADE GROUND.			13.9	101.31
											14.3	100.91
											14.8	100.41
0.0								Firm dark blue grey silty clay. MADE GROUND.				
								Firm dark grey brown sandy silty clay/clayey silt with occasional sandstone gravel. MADE GROUND.				
19.20	9.0							Dark blue grey fine to medium grained medium to thickly bedded fresh silty SANDSTONE, moderately strong. (N.S.I) Some iron mineralization along bedding plane at 19.50m. Becoming very clayey and micaceous from 20.90m.			18.8	96.41
	9.0											
21.40	9.0										21.4	93.81
								End of Borehole				

Remarks:

Borehole backfilled with imported gravelly sand.

geotechnics



Contest Melbourne Weeks Ltd				Borehole log				Bh no. E6 Sheet 2 of 2	
Method : Cable Percussion Boring Hole Dimensions : 150mm Casing Dimensions : 150mm to 15.50m				Location : Willowbrook Slurry Ponds, Corby Job No : DS121				Ground Level 109.21 m O.D.	
				Co-ordinates E - 490134 N - 290579				Date 30/10/92- 2/11/92	
Date	Casing Depth (m)	Water Depth (m)	Samples / Insitu Tests		Change of Strata		Description		Piezo / S'pipe
			Depth (m)	Type No. Test Result	Legend	Depth & (thickness) (m)	Reduced Level		
2/11/92			10.00	S N=10		(5.50)		8.50m to 14.00m - Soft and firm, orange brown mottled dark grey and light blue grey, silty, very sandy CLAY, with some gravel size fragments of sandstone. Roots. ... with pockets of dark grey sandy silt to 10.75m. (Fill)	
		11.50 11.50- 11.95 12.00	U=80						
		13.00	S N=22						
		14.00	W S N=47	14.00 14.20			95.21 95.01		
			16.00	S N=60		(2.80)		Orange brown and blue light grey, friable in places, medium grained SANDSTONE, very weak. (Northampton Sand Ironstone)	
		17.00							
	15.50	13.00				17.00	92.21	Very stiff, faintly laminated, silty, sandy CLAY. (Upper Lias Clay)	
								End of Borehole	

Remarks 4. A standpipe was installed as follows - 50mm diameter HDPE geotextile wrapped slotted casing 16.50m to 14.50m; 50mm diameter HDPE plain casing 14.50m to 0.40m above G.L.; sand filter 16.70m to 14.20m; bentonite seal from 14.20m to 0.50m. A lockable cover was concreted over the standpipe installation.						Scale 1:50	
Logged JH Checked MW Approved						Fig A3	

For explanation of symbols and abbreviations see Key Sheet



Contest Melbourne Weeks Ltd				Borehole log				Bh no. J5		
								Sheet 1 of 2		
Method : Cable Percussion Boring Hole Dimensions : 150mm Casing Dimensions : 150mm to 13.50m				Location : Willowbrook Slurry Ponds, Corby Job No : DS121						
				Ground Level 109.26 m O.D.		Co-ordinates E - 490284 N - 290674		Date 3-4/11/92		
Date	Casing Depth (m)	Water Depth (m)	Samples / Insitu Tests			Change of Strata			Description	Piezo / S'pipe
			Depth (m)	Type No.	Test Result	Legend	Depth & (thickness) (m)	Reduced Level		
3/11/92									Dark red brown, very sandy SILT, with many fragments of very weak siltstone. Roots.occasional blue grey pockets. (Fill)	
									Dark red brown, very silty, fine to medium SAND, with abundant gravel size fragments of very weak siltstone. (Fill)	
									Very loose to loose, dark red brown, sandy SILT with occasional blue grey pockets.moist.with some fragments of siltstone.dry between 2.50m and 3.50m, and between 4.50m and 5.25m.abundant fragments of siltstone and light grey sandstone between 5.25m and 6.00m. (Fill)	
									Orange brown and light grey mottled, silty, very clayey, medium SAND, with few gravel size fragments of sandstone. (Fill)	
									9.25m to 12.45m - see next sheet. (Fill) continued.....	

Remarks

1. Groundwater was encountered at 11.00m, rising to 9.50m in 20 minutes.
2. The borehole was backfilled up to 14.00m with bentonite granules.

continued.....

Scale 1:50

Fig A7

Logged

JH

Checked

MW

Approved

For explanation of symbols and abbreviations see Key Sheet



Contest Melbourne Weeks Ltd						Borehole log			Bh no. J5 Sheet 2 of 2	
Method : Cable Percussion Boring Hole Dimensions : 150mm Casing Dimensions : 150mm to 13.50m						Location : Willowbrook Slurry Ponds, Corby Job No : DS121				
						Ground Level 109.26 m O.D.		Co-ordinates E - 490284 N - 290674		Date 3-4/11/92
Date	Casing Depth (m)	Water Depth (m)	Samples / Insitu Tests			Change of Strata		Description	Piezo / S'pipe	
			Depth (m)	Type No.	Test Result	Legend	Depth & (thickness) (m)			Reduced Level
3/11/92										
4/11/92	10.50	9.00 7.00	11.00	W	S N=12		(3.20)	9.25m to 12.45m - Soft, orange brown and light grey mottled, silty, very sandy CLAY, with frequent gravel size fragments of sandstone.becoming soft to firm, purple light grey mottled orange brown, sandy clay between 9.75m and 10.50m. (Fill)		
			12.50	C	N=20		12.45 (0.05) 12.50	96.56 96.51	Orange brown and blue grey, partly friable, medium grained SANDSTONE, weak to very weak. (Northampton Sand Ironstone)	
			13.00	S	N=22					
			14.50	S	N=39		(3.50)		Stiff to very stiff, dark grey, faintly laminated, fissured, slightly sandy, silty CLAY. (Upper Lias Clay)	
	13.50	12.50	16.00				16.00	93.01	End of Borehole	
Remarks 3. A standpipe was installed as follows - 50mm diameter HDPE geotextile wrapped slotted casing 14.00m to 12.00m; 50mm diameter HDPE plain casing 12.00m to 0.40m above G.L.; sand filter 14.00m to 11.80m; bentonite seal 11.80m to 0.50m. A lockable cover was concreted over the standpipe installation.										Scale 1:50
Logged JH Checked MW Approved										Fig A7

For explanation of symbols and abbreviations see Key Sheet



Contest Melbourne Weeks Ltd				Borehole log			Bh no. K1 Sheet 1 of 2		
Method : Cable Percussion Boring Hole Dimensions : 150mm Casing Dimensions : 150mm to 10.50m				Location : Willowbrook Slurry Ponds, Corby Job No : DS121					
				Ground Level 106.61 m O.D.		Co-ordinates E - 490399 N - 290454		Date 14/10/92	
Date	Casing Depth (m)	Water Depth (m)	Samples / Insitu Tests			Change of Strata		Description	Piezo / S'pipe
			Depth (m)	Type No.	Test Result	Legend	Depth & (thickness) (m)		
14/10/92			G.L.-1.00	↑↓					TOPSOIL, over dark grey brown, silty, very sandy CLAY, with occasional sub-angular gravel size fragments of ironstone.with occasional laminations of light grey clay(driller recorded fragments of brick and concrete to 1.80m) Dampness below 1.80m. (Fill)
			1.00	↓	S N=12		(2.70)		
			1.45-2.00	↑↓					Soft, blue dark grey, orange brown and blue light grey mottled, silty, sandy CLAY, with occasional gravel size fragments of sandstone, ironstone, chalk and brick. Soft to firm, between 6.00m and 8.50m. becoming soft to firm at 9.50m.
			2.00	↓	S N=4				
			2.45-3.00	↑↓			2.70	103.91	
			3.00	↓	S N=6				
			3.45-4.00	↑↓					
			4.20	↓	S N=2				
			4.20-5.10	↑↓					
			5.10	↓	S N=5				
			5.55-6.00	↑↓					
			6.00	↓	S N=8		(10.00)		
			6.45-7.00	↑↓					
			7.00	↓	S N=8				
			7.70	•					
			8.00	↓	S N=7				
			8.70	•					
			9.00	↓	S N=11				
			9.45-10.00	↑↓					

continued.....

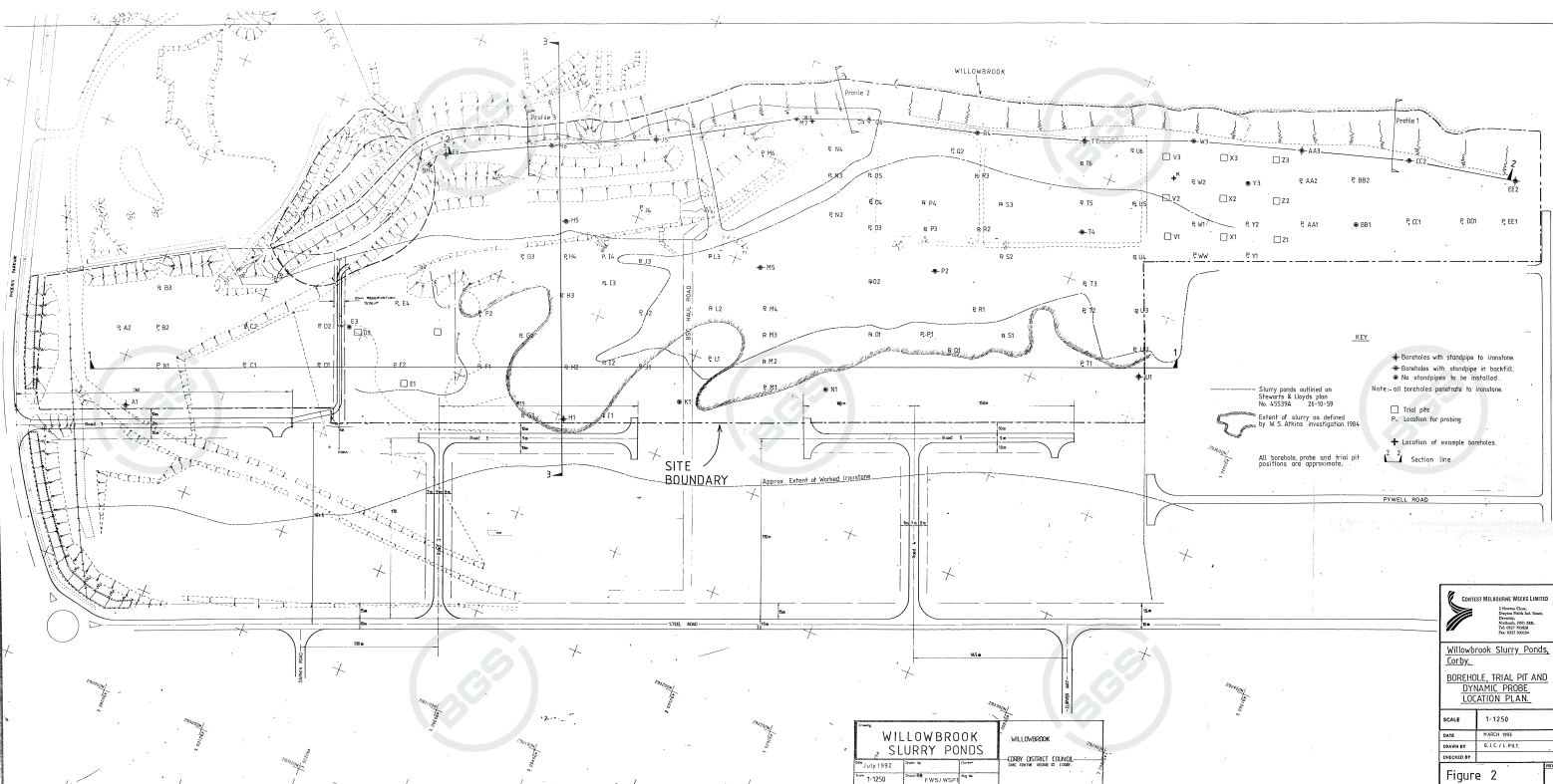
Remarks						Scale 1:50	
1. Groundwater was encountered at 12.70m, rising to 12.00m in 20 minutes. 2. On completion, the borehole was backfilled with bentonite granules.							
Logged	JH		Checked	MW		Approved	Fig A8

For explanation of symbols and abbreviations see Key Sheet



Contest Melbourne Weeks Ltd				Borehole log				Bh no. K1 Sheet 2 of 2	
Method : Cable Percussion Boring Hole Dimensions : 150mm Casing Dimensions : 150mm to 10.50m				Location : Willowbrook Slurry Ponds, Corby Job No : DS121				Ground Level 106.61 m O.D.	
				Co-ordinates E - 490399 N - 290454				Date 14/10/92	
Date	Casing Depth (m)	Water Depth (m)	Samples / Insitu Tests			Change of Strata		Description	Piezo / Spice
			Depth (m)	Type No.	Test Result	Legend	Depth & (thickness) (m)		
14/10/92			10.00		S N=8				2.70m to 12.70m - see previous sheet (Fill)
			10.45- 11.10						
			11.10		S N=11		(10.00)		
			11.55- 12.00						
			12.00		S N=17				
			12.00- 12.70						
			12.70		S N=(52) 150		12.70 (0.85) (0.15) (3.00)	93.91 93.76 93.61	Orange brown IRONSTONE - drillers description (Northampton Sand Ironstone)
	10.50	▽ DRY							Very dense, orange brown and grey SAND/ SANDSTONE, very weak - drillers description. (Northampton Sand Ironstone)
									End of Borehole
Remarks									Scale 1:50
Logged JH									Fig A8
Checked MW									
Approved									

For explanation of symbols and abbreviations see Key Sheet





DRILLHOLE RECORD

SP 99 SW 912

Project DENE QUARRY RECLAMATION

Client COREY DISTRICT COUNCIL

Drillhole 19

Location CORBY

Contractor

Sheet 1 of 2

Project No. 86-5455

Drilling		Core						Strata				
Depth Cored	Depth Cased	Samples	Recovery %	R Q D %	Fracture Index	Fracture Spacing	Tests	Description	Piezo	Loged	Depth	Level
								Gravel, cobbles and boulder sized fragments of sandstone, concrete, wood with some dark grey silty clay. MADE GROUND.				110.26
								'Loose' MADE GROUND.**			2.4	107.86
								Gravel, cobbles and boulders of concrete and sandstone. MADE GROUND.			2.9	107.36
								Variably soft to firm dark grey and brown grey silty clay/clayey silt, sandy in parts with some gravel and occasional cobbles and boulders of sandstone and limestone. MADE GROUND. Occasional lenses of light grey and orange brown silty sand.			4.7	105.56
											10.0	

Ground Water							Remarks	Boring	
Depth Struck	Depth of Casing	Depth after 20 mins	Depth Sealed	Date	am pm	Depth of Hole	Depth to Water	Plant	HANDS ENGLAND
*4.60	NIL	-	4.70	16.10.86		Piezo	15.75	Crew	JS/PS
18.60	18.0	-	NS	17.10.86		Piezo	15.65	Type and Diameter	Depth
				22.10.86		Piezo	15.60	100mm rock	19.0m
				23.10.86		Piezo	15.65	roller	
								76mm ID	21.5m
								99mm OD	
								Start Date	15.10.86
								Finish Date	15.10.86

Symbols and abbreviations are used on the accompanying key.
- = observations are in metres.

geotechnics

DRILLHOLE RECORD

SP 99 SW 9/2

[illegible]

Remarks:

Access to piezometer by stopcock cover set in concrete.
Borehole backfilled with imported gravelly sand.

geotechnics



Norwest Holst Soil Engineering Ltd.

Borehole No.

2-2

Contract No. E5283
Location Corby Steelworks
Client Corby District Council
Method of Boring Percussion
Diameter of Borehole 150mm

BOREHOLE LOG

Sheet 1 of 2

Chainage

Ground Level 111.680 m.A.O.D.

Date 28-29/7/82

Description of Strata	Legend	Depth Below G.L. (m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/R.Q.D. %	Daily Progress
MADE GROUND: Ash, cinders.		0.50	111.2		0.50		28/7
MADE GROUND: Soft orange-brown/blue-grey mottled sandy silty clay with scattered pale gravel.		1.00	110.7		1.50		
Stiff grey-orange brown sandy silty CLAY with scattered fine to medium pale sub-rounded gravel and pockets of silty sand.		3.50	108.2		2.50		
Stiff grey sandy silty CLAY with scattered fine to medium pale sub-rounded gravel, and pockets of silty sand, (BOULDER CLAY).		7.20	104.5		3.50		28/7
Very dense grey, fine to medium slightly clayey SAND with layers of very stiff silty clay.					4.50		29/7
					6.00		
					7.50	74	
					8.50	88	
					9.10		

Type of Sample	Remarks (Observations of Ground Water etc.)
S.P.T. Undisturbed C.P.T. Vane Jar Water Bulk Piezometer	28/7/82 Groundwater not encountered during boring. 29/7/82 Slight seepage of groundwater at 7.50m. Chiselling from 11.00m to 13.50m (3hrs). +Possible made ground.



Norwest Holst Soil Engineering Ltd.						Borehole No. 2-2	
BOREHOLE LOG				Sheet 2 of 2			
Contract No. F5283 Location Corby Steelworks Client Corby District Council Method of Boring Percussion Diameter of Borehole 150mm				Chainage Ground Level 111.680 m.A.O.D. Date 28/29/7/82			
SP 99 SW / 99T							
Description of Strata	Legend	Depth Below G.L. (m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/R.O.D.%	Daily Progress
Very dense grey fine to medium slightly clayey SAND.		10.50	101.2		10.00	69	
Stiff grey fissured silty CLAY.		11.00	100.7		11.00		
Dense grey silty SAND.		11.50	100.2			44	
Stiff grey fissured silty CLAY.		12.20	99.5		12.20		
Dense to very dense orange-brown SAND,						28	
...becoming blue-grey/orange-brown and weakly cemented to 13.60m.		13.80	97.9	150mm	13.00	82 /150*	
Friable grey MUDSTONE, with fragments of red-brown ironstone.		14.00	97.7	to 13.80m	13.80	67 /150*	
							29/7
Type of Sample S.P.T. Undisturbed C.P.T. Vane Jar Water Bulk Piezometer		Remarks (Observations of Ground Water etc.) * Seating drive only.					

APPENDIX 2

Logs for Recent On-site Boreholes

INSTALL	STRATA				WATER STRIKES	CORING					SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		DEPTH (m)	TCR (%)	SCR (%)	RQD (%)	FI	TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	OPEN HOLE.																		

Notes	Title Borehole record		Date(s) 11/05/2022
	Method Rotary core	Logged by NI	Sheet number Sheet 1 of 2
Groundwater observations No groundwater encountered.	Level (m OD) 109.00	Compiled by SA	Revision 0
	Co-ordinates 490019mE, 291070mN	Checked by AW	BH01B

INSTALL	STRATA				WATER STRIKES	CORING					SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		DEPTH (m)	TCR (%)	SCR (%)	RQD (%)	FI	TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Soft slightly sandy slightly gravelly CLAY. Gravel is fine to coarse angular to subangular brick and concrete. (MADE GROUND)	10.00	99.00																
	[Loose] yellowish orange fine SAND. (NORTHAMPTON SAND FORMATION)	10.50	98.50			10.00 - 11.50	100	0	0										
	Stiff grey CLAY. (SUSPECTED WEATHERED WHITBY MUDSTONE)	12.80	96.20			11.50 - 13.81	92	0	0										
	BOREHOLE TERMINATED AT 12.81m	12.81	96.19																

Notes	Title Borehole record	Date(s) 11/05/2022
	Method Rotary core	Logged by NI
Groundwater observations No groundwater encountered.	Level (m OD) 109.00	Compiled by SA
	Co-ordinates 490019mE, 291070mN	Checked by AW
		Revision 0
		BH01B

INSTALL	STRATA				WATER STRIKES	CORING					SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		DEPTH (m)	TCR (%)	SCR (%)	RQD (%)	FI	TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	OPEN HOLE.																		

Notes	Title Borehole record		Date(s) 11/05/2022
	Method Rotary core	Logged by NI	Sheet number Sheet 1 of 2
Groundwater observations No groundwater encountered.	Level (m OD) 106.98	Compiled by SA	Revision 0
	Co-ordinates 490181mE, 290993mN	Checked by AW	BH02B

INSTALL	STRATA				WATER STRIKES	CORING					SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		DEPTH (m)	TCR (%)	SCR (%)	RQD (%)	FI	TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Soft slightly sandy slightly gravelly CLAY. Gravel is fine to coarse angular to subangular brick and concrete. (MADE GROUND)	10.00	96.98			10.00 - 11.50	67	0	0										
	[Loose] yellowish orange fine SAND. (NORTHAMPTON SAND FORMATION)	11.40	95.58			11.50 - 13.00	73	0	0										
						13.00 - 13.50	100	0	0										
	Stiff grey CLAY. (SUSPECTED WEATHERED WHITBY MUDSTONE) BOREHOLE TERMINATED AT 13.51m	13.50 13.51	93.48 93.47																

Notes	Title Borehole record		Date(s) 11/05/2022
	Method Rotary core	Logged by NI	Sheet number Sheet 2 of 2
	Level (m OD) 106.98	Compiled by SA	Revision 0
	Co-ordinates 490181mE, 290993mN	Checked by AW	BH02B

Groundwater observations
No groundwater encountered.

INSTALL	STRATA				WATER STRIKES	CORING					SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		DEPTH (m)	TCR (%)	SCR (%)	RQD (%)	FI	TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	OPEN HOLE.																		

Notes	Title		Date(s)
	Borehole record		11/05/2022
	Method	Logged by	Sheet number
	Rotary core	NI	Sheet 1 of 2
Groundwater observations No groundwater encountered.	Level (m OD)	Compiled by	Revision
	108.90	SA	0
	Co-ordinates	Checked by	BH08B
	489966mE, 290877mN	AW	

INSTALL	STRATA				WATER STRIKES	CORING					SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		DEPTH (m)	TCR (%)	SCR (%)	RQD (%)	FI	TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Soft slightly sandy slightly gravelly CLAY. Gravel is fine to coarse angular to subangular brick and concrete. (MADE GROUND)	10.00	98.90			10.00 - 11.50	67	0	0										
	[Loose] yellowish orange fine SAND. (NORTHAMPTON SAND FORMATION)	11.40	97.50			11.50 - 13.00	67	0	0										
	Stiff grey CLAY. (WEATHERED WHITBY MUDSTONE)	12.90	96.00			13.00 - 14.00	50	0	0										
	BOREHOLE TERMINATED AT 14.00m																		

Notes	Title Borehole record	Date(s) 11/05/2022
	Method Rotary core	Logged by NI
Groundwater observations No groundwater encountered.	Level (m OD) 108.90	Compiled by SA
	Co-ordinates 489966mE, 290877mN	Checked by AW
		Sheet number Sheet 2 of 2
		Revision 0
		BH08B

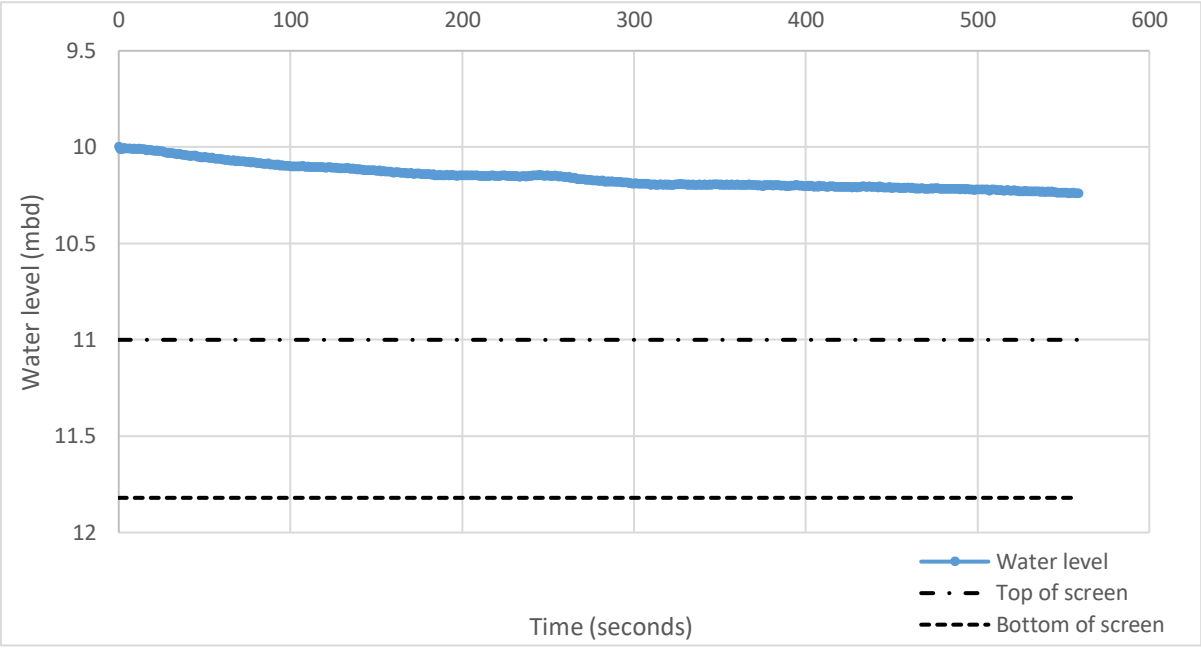
APPENDIX 3

Hydraulic Conductivity Analysis

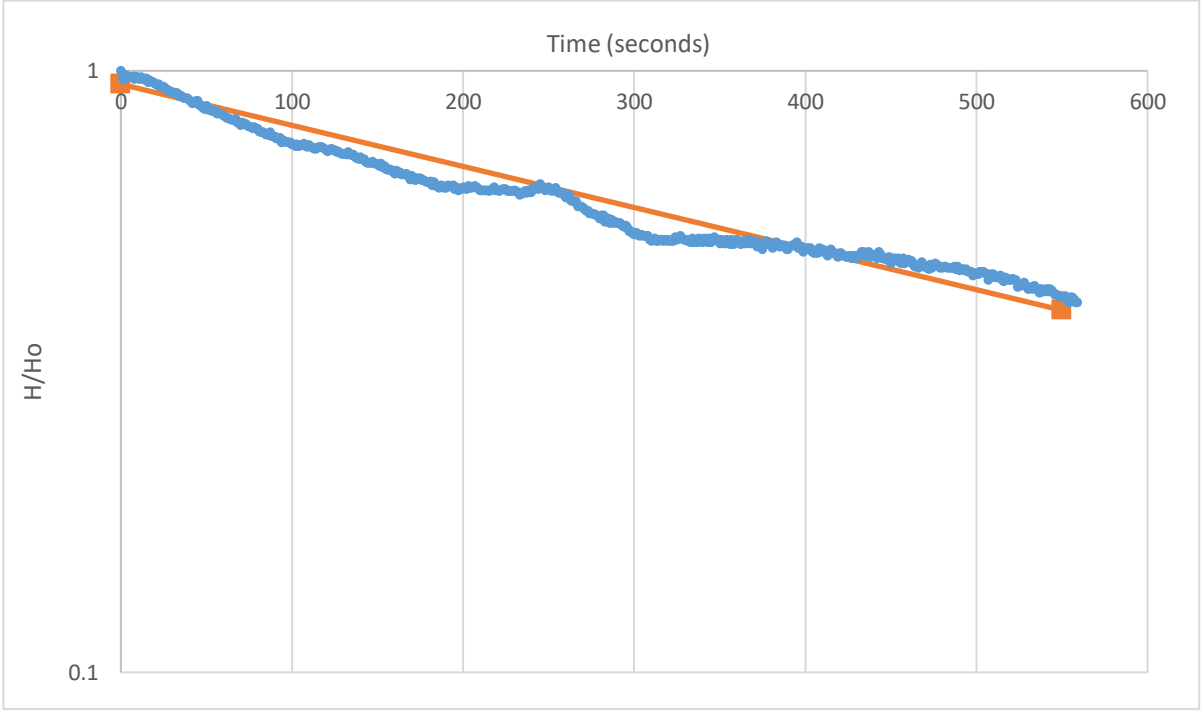
Site name:	Corby
Well name:	BH04
Test date:	15/06/2022
Test number:	test 1 slug in
Analyst:	LK
Datum point:	Ground level
Rest water level:	10.41 m below datum (mbd)
Top of screen:	11 m below datum (mbd)
Bottom of screen:	11.82 m below datum (mbd)

Time (seconds)	Water level (mbd)	H (m)	H/Ho
0	9.998	0.412	1
1	10.011	0.399	0.968447
2	10.012	0.398	0.966019
3	10.005	0.405	0.98301
4	10.007	0.403	0.978155
5	10.008	0.402	0.975728
6	10.008	0.402	0.975728
7	10.007	0.403	0.978155
8	10.011	0.399	0.968447
9	10.007	0.403	0.978155
10	10.01	0.4	0.970874
11	10.011	0.399	0.968447
12	10.008	0.402	0.975728
13	10.011	0.399	0.968447
14	10.012	0.398	0.966019
15	10.01	0.4	0.970874
16	10.016	0.394	0.956311
17	10.013	0.397	0.963592
18	10.015	0.395	0.958738
19	10.016	0.394	0.956311
20	10.017	0.393	0.953883
21	10.019	0.391	0.949029
22	10.018	0.392	0.951456
23	10.022	0.388	0.941748
24	10.022	0.388	0.941748
25	10.022	0.388	0.941748
26	10.025	0.385	0.934466
27	10.026	0.384	0.932039
28	10.029	0.381	0.924757
29	10.029	0.381	0.924757
30	10.031	0.379	0.919903
31	10.031	0.379	0.919903
32	10.032	0.378	0.917476
33	10.032	0.378	0.917476
34	10.036	0.374	0.907767
35	10.035	0.375	0.910194
36	10.037	0.373	0.90534
37	10.039	0.371	0.900485
38	10.039	0.371	0.900485
39	10.039	0.371	0.900485
40	10.042	0.368	0.893204
41	10.044	0.366	0.88835
42	10.046	0.364	0.883495
43	10.045	0.365	0.885922
44	10.043	0.367	0.890777
45	10.043	0.367	0.890777
46	10.049	0.361	0.876214
47	10.05	0.36	0.873786
48	10.052	0.358	0.868932
49	10.054	0.356	0.864078
50	10.05	0.36	0.873786
51	10.055	0.355	0.86165
52	10.055	0.355	0.86165
53	10.057	0.353	0.856796
54	10.055	0.355	0.86165
55	10.056	0.354	0.859223
56	10.06	0.35	0.849515
57	10.059	0.351	0.851942
58	10.06	0.35	0.849515
59	10.061	0.349	0.847087
60	10.063	0.347	0.842233
61	10.064	0.346	0.839806
62	10.066	0.344	0.834951
63	10.066	0.344	0.834951
64	10.068	0.342	0.830097
65	10.069	0.341	0.82767
66	10.069	0.341	0.82767
67	10.067	0.343	0.832524
68	10.072	0.338	0.820388
69	10.071	0.339	0.822816
70	10.075	0.335	0.813107
71	10.072	0.338	0.820388
72	10.074	0.336	0.815534
73	10.074	0.336	0.815534
74	10.076	0.334	0.81068
75	10.077	0.333	0.808252
76	10.078	0.332	0.805825
77	10.079	0.331	0.803398
78	10.078	0.332	0.805825
79	10.079	0.331	0.803398
80	10.08	0.33	0.800971
81	10.083	0.327	0.793689
82	10.084	0.326	0.791262
83	10.084	0.326	0.791262
84	10.086	0.324	0.786408
85	10.087	0.323	0.783981
86	10.087	0.323	0.783981
87	10.084	0.326	0.791262
88	10.089	0.321	0.779126
89	10.09	0.32	0.776699
90	10.09	0.32	0.776699
91	10.092	0.318	0.771845

User to change cells in blue



Bouwer-Rice Analysis

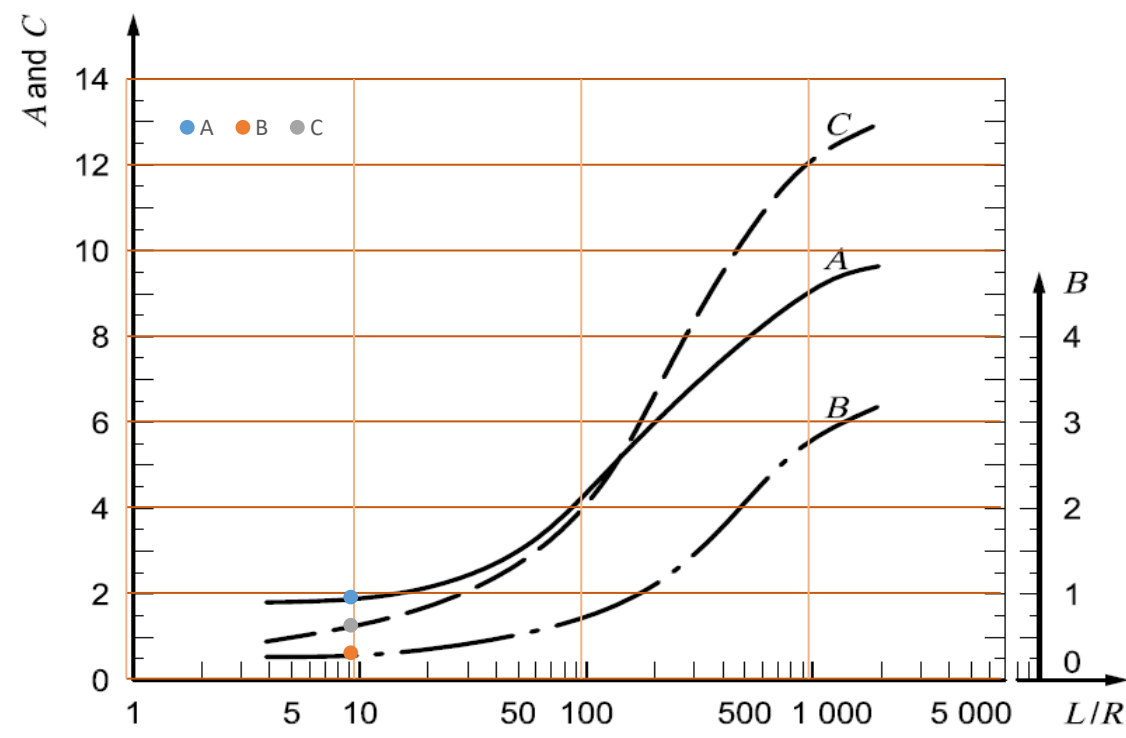


Input parameters

	Symbol	Units	Value
Radius of well pipe	r_c	m	0.025
Borehole radius in screened section	R	m	0.085
Length of saturated screen (Le on diagram)	L	m	0.82
Length of saturated screen + solid casing	L_w	m	1.41
Saturated thickness of aquifer	h	m	7.59
Use effective radius of well pipe? (when water level in screened section)			No
Porosity of gravel pack	n		0.25

Line fitting parameters (adjust to best fit line)

x-axis time 1	t1	s	0
x-axis time 2	t2	s	550
y-axis H/Ho 1	H1/Ho		0.95
y-axis H/Ho 2	H2/Ho		0.4



A	A	1.9
B	B	0.3
C	C	1.25
2B	2B	0.6

Calculated parameters

H1 (from line fitting)	H1	m	0.3914
H2 (from line fitting)	H2	m	0.1648
Effective radius of well pipe	r_e	m	0.025
L/R	L/R		9.647059
Effective radial distance over which induced head dissipated	R_e	m	0.339646

Re fully penetrating

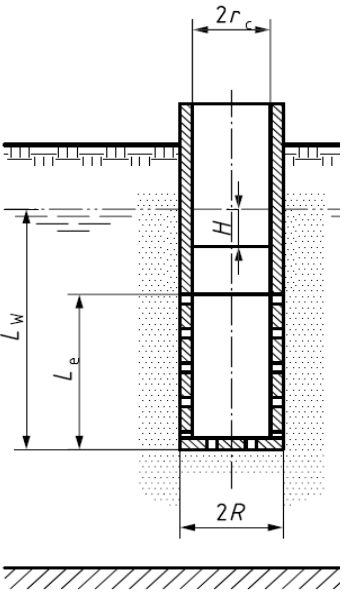
Assume fully penetrating?		No
ln (Re/R) (partially penetrating)	ln (Re/R)	1.385253
ln (Re/R) (fully penetrating)	ln (Re/R)	1.918597
ln (Re/R) (used)	ln (Re/R)	1.385253

Hydraulic conductivity	K	m/s	8.30E-07
		m/d	7.17E-02

Equations used

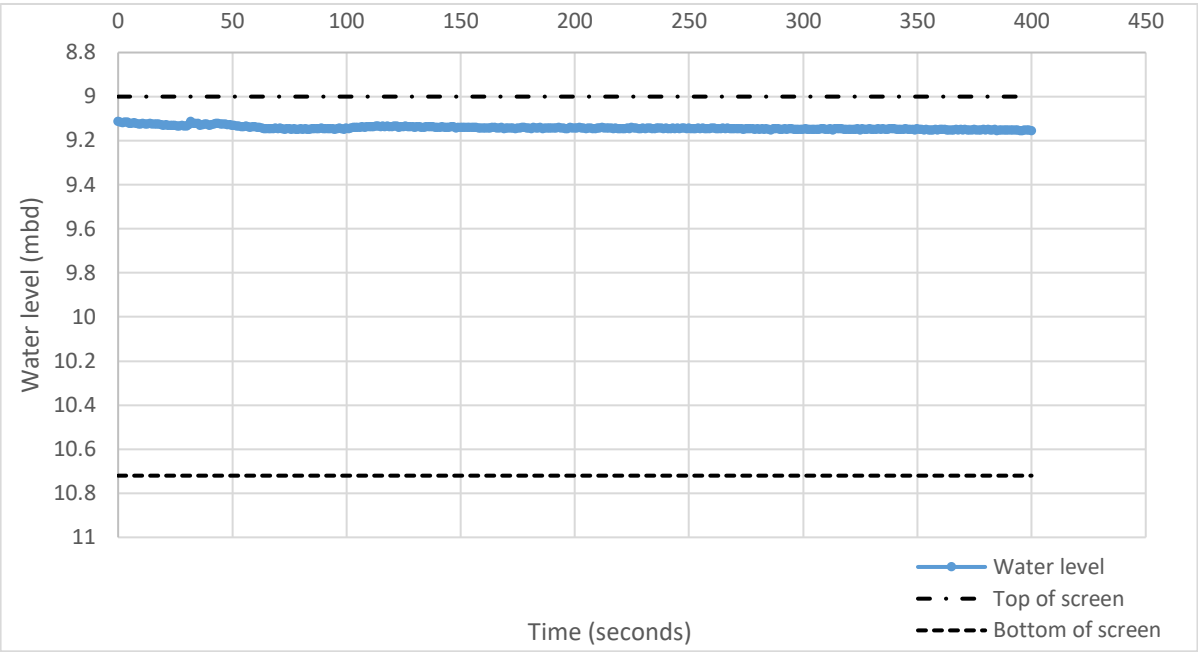
$$K = \frac{r_e^2 \cdot \ln(R_e/R)}{2 \cdot L} \cdot \frac{1}{(t_2 - t_1)} \cdot \ln\left(\frac{H_1}{H_2}\right) \quad r_e = \sqrt{(1 - n)r_c^2 + nR^2}$$

If L_w is less than h , the saturated thickness of the aquifer, then

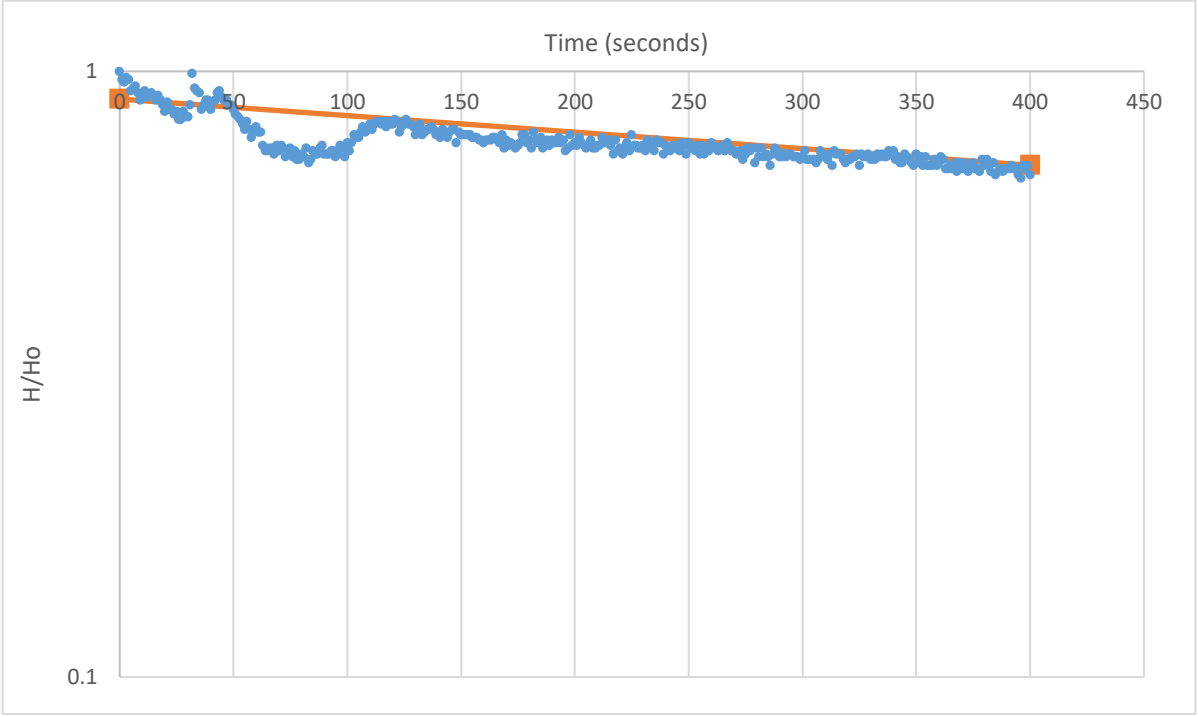


Well name:	BH05
Test date:	20/06/2022
Test number:	test 1 slug in
Analyst:	LK
Datum point:	Ground level
Rest water level:	9.24 m below datum (mbd)
Top of screen:	9 m below datum (mbd)
Bottom of screen:	10.72 m below datum (mbd)

Time (seconds)	Water level (mbd)	H (m)	H/Ho
0	9.114	0.126	1
1	9.118	0.122	0.968254
2	9.119	0.121	0.960317
3	9.117	0.123	0.97619
4	9.118	0.122	0.968254
5	9.123	0.117	0.928571
6	9.122	0.118	0.936508
7	9.121	0.119	0.944444
8	9.124	0.116	0.920635
9	9.127	0.113	0.896825
10	9.126	0.114	0.904762
11	9.123	0.117	0.928571
12	9.126	0.114	0.904762
13	9.125	0.115	0.912698
14	9.124	0.116	0.920635
15	9.125	0.115	0.912698
16	9.127	0.113	0.896825
17	9.125	0.115	0.912698
18	9.127	0.113	0.896825
19	9.129	0.111	0.880952
20	9.132	0.108	0.857143
21	9.128	0.112	0.888889
22	9.131	0.109	0.865079
23	9.131	0.109	0.865079
24	9.133	0.107	0.849206
25	9.132	0.108	0.857143
26	9.135	0.105	0.833333
27	9.135	0.105	0.833333
28	9.132	0.108	0.857143
29	9.134	0.106	0.84127
30	9.134	0.106	0.84127
31	9.129	0.111	0.880952
32	9.115	0.125	0.992063
33	9.122	0.118	0.936508
34	9.123	0.117	0.928571
35	9.124	0.116	0.920635
36	9.131	0.109	0.865079
37	9.129	0.111	0.880952
38	9.127	0.113	0.896825
39	9.127	0.113	0.896825
40	9.131	0.109	0.865079
41	9.128	0.112	0.888889
42	9.127	0.113	0.896825
43	9.124	0.116	0.920635
44	9.123	0.117	0.928571
45	9.126	0.114	0.904762
46	9.127	0.113	0.896825
47	9.127	0.113	0.896825
48	9.129	0.111	0.880952
49	9.129	0.111	0.880952
50	9.131	0.109	0.865079
51	9.133	0.107	0.849206
52	9.134	0.106	0.84127
53	9.135	0.105	0.833333
54	9.137	0.103	0.81746
55	9.139	0.101	0.801587
56	9.136	0.104	0.825397
57	9.139	0.101	0.801587
58	9.142	0.098	0.777778
59	9.139	0.101	0.801587
60	9.138	0.102	0.809524
61	9.14	0.1	0.793651
62	9.14	0.1	0.793651
63	9.145	0.095	0.753968
64	9.147	0.093	0.738095
65	9.147	0.093	0.738095
66	9.146	0.094	0.746032
67	9.146	0.094	0.746032
68	9.148	0.092	0.730159
69	9.145	0.095	0.753968
70	9.147	0.093	0.738095
71	9.145	0.095	0.753968
72	9.146	0.094	0.746032
73	9.149	0.091	0.722222
74	9.147	0.093	0.738095
75	9.146	0.094	0.746032
76	9.149	0.091	0.722222
77	9.147	0.093	0.738095
78	9.15	0.09	0.714286
79	9.15	0.09	0.714286
80	9.148	0.092	0.730159
81	9.149	0.091	0.722222
82	9.146	0.094	0.746032
83	9.151	0.089	0.706349
84	9.15	0.09	0.714286
85	9.147	0.093	0.738095
86	9.148	0.092	0.730159
87	9.148	0.092	0.730159
88	9.146	0.094	0.746032
89	9.145	0.095	0.753968
90	9.148	0.092	0.730159
91	9.148	0.092	0.730159
92	9.148	0.092	0.730159

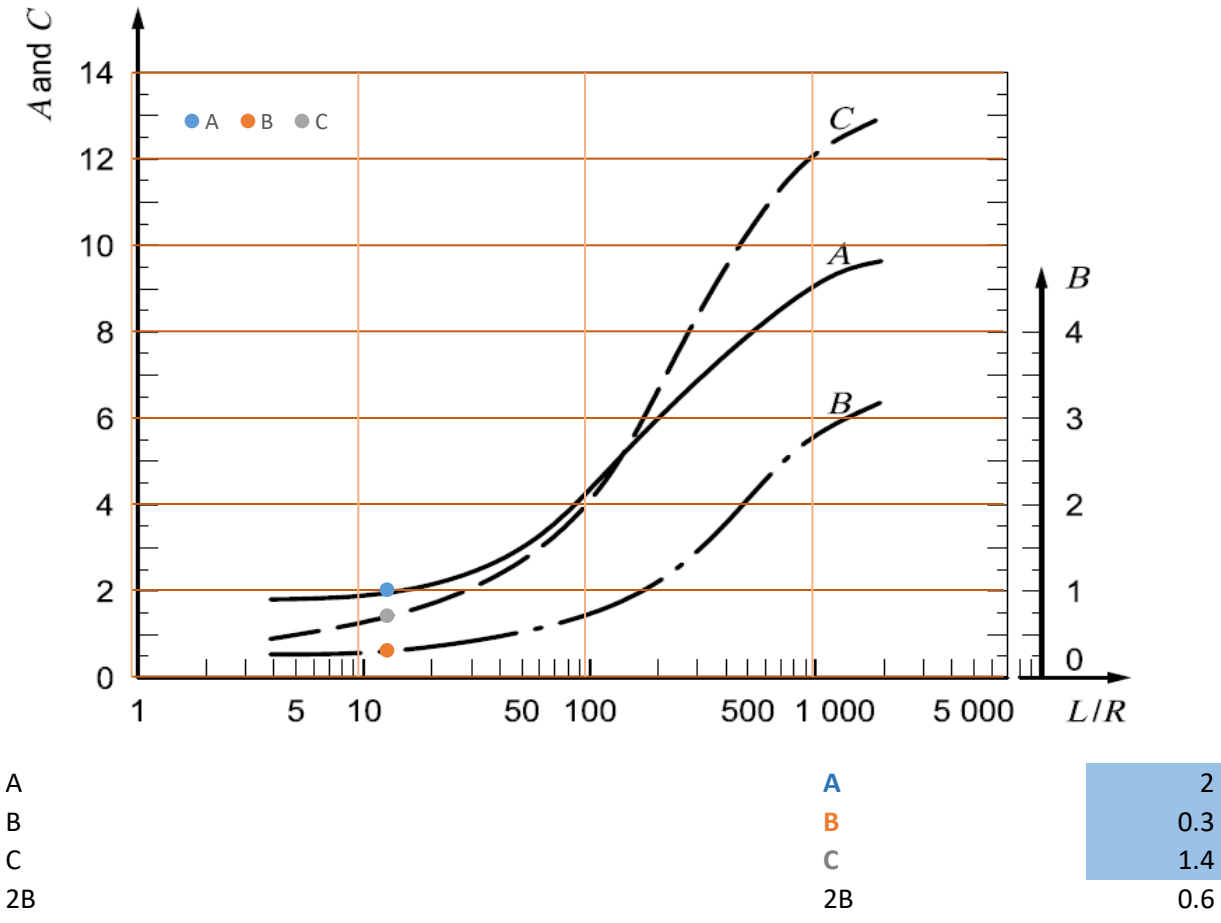
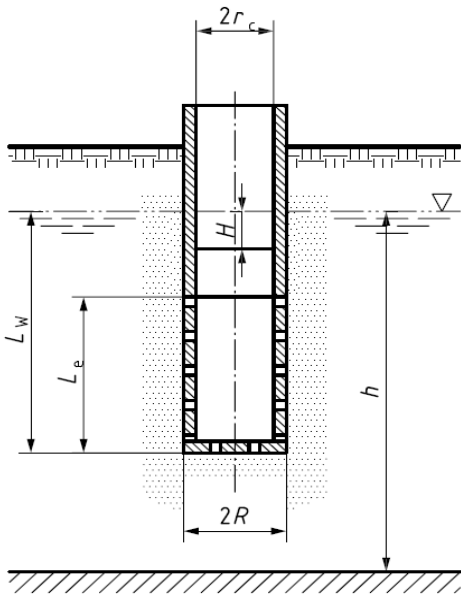


Bouwer-Rice Analysis



Input parameters	Symbol	Units	Value
Radius of well pipe	r_c	m	0.025
Borehole radius in screened section	R	m	0.11
Length of saturated screen (Le on diagram)	L	m	1.48
Length of saturated screen + solid casing	L_w	m	1.48
Saturated thickness of aquifer	h	m	6.36
Use effective radius of well pipe? (when water level in screened section)			Yes
Porosity of gravel pack	n		0.25

Line fitting parameters (adjust to best fit line)			
x-axis time 1	t_1	s	0
x-axis time 2	t_2	s	400
y-axis H/Ho 1	H_1/H_o		0.9
y-axis H/Ho 2	H_2/H_o		0.7



Calculated parameters			
H1 (from line fitting)	H_1	m	0.1134
H2 (from line fitting)	H_2	m	0.0882
Effective radius of well pipe	r_e	m	0.059108
L/R	L/R		13.45455
Effective radial distance over which induced head dissipated	Re	m	0.504692

Re fully penetrating		
Assume fully penetrating?		No
ln (Re/R) (partially penetrating)	ln (Re/R)	1.523467
ln (Re/R) (fully penetrating)	ln (Re/R)	1.896662
ln (Re/R) (used)	ln (Re/R)	1.523467

Hydraulic conductivity	K	m/s	1.13E-06
		m/d	9.76E-02

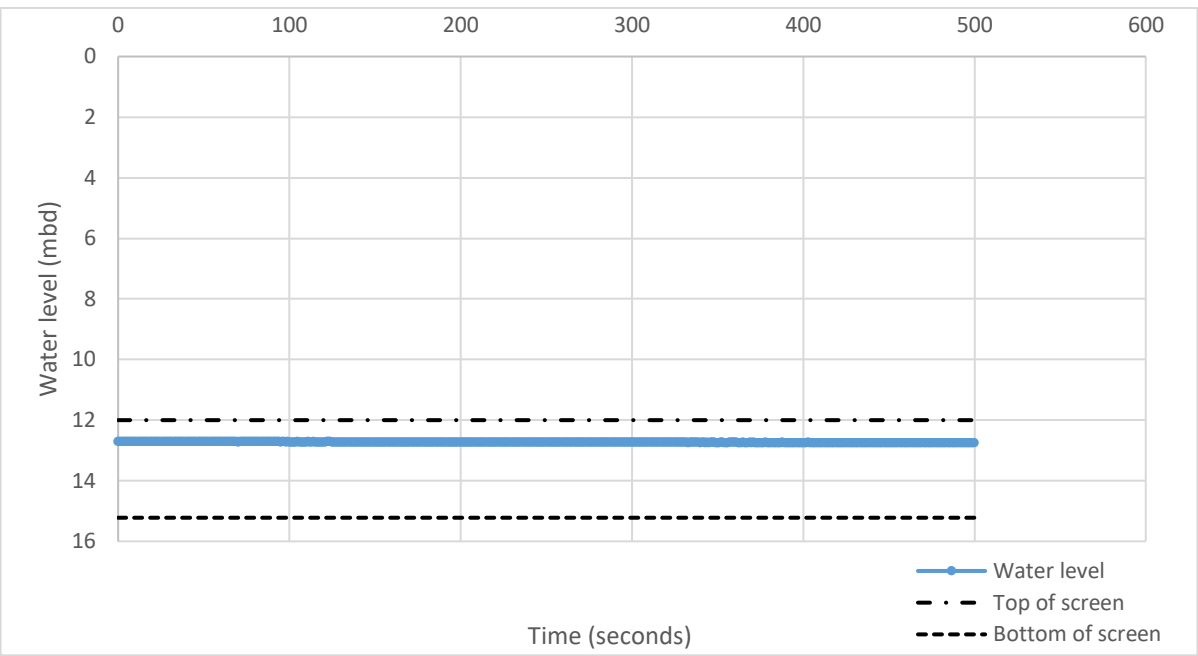
Equations used

$$K = \frac{r_e^2 \cdot \ln\left(\frac{R_e}{R}\right)}{2 \cdot L} \cdot \frac{1}{(t_2 - t_1)} \cdot \ln\left(\frac{H_1}{H_2}\right) \quad r_e = \sqrt{(1 - n)r_c^2 + nR^2}$$

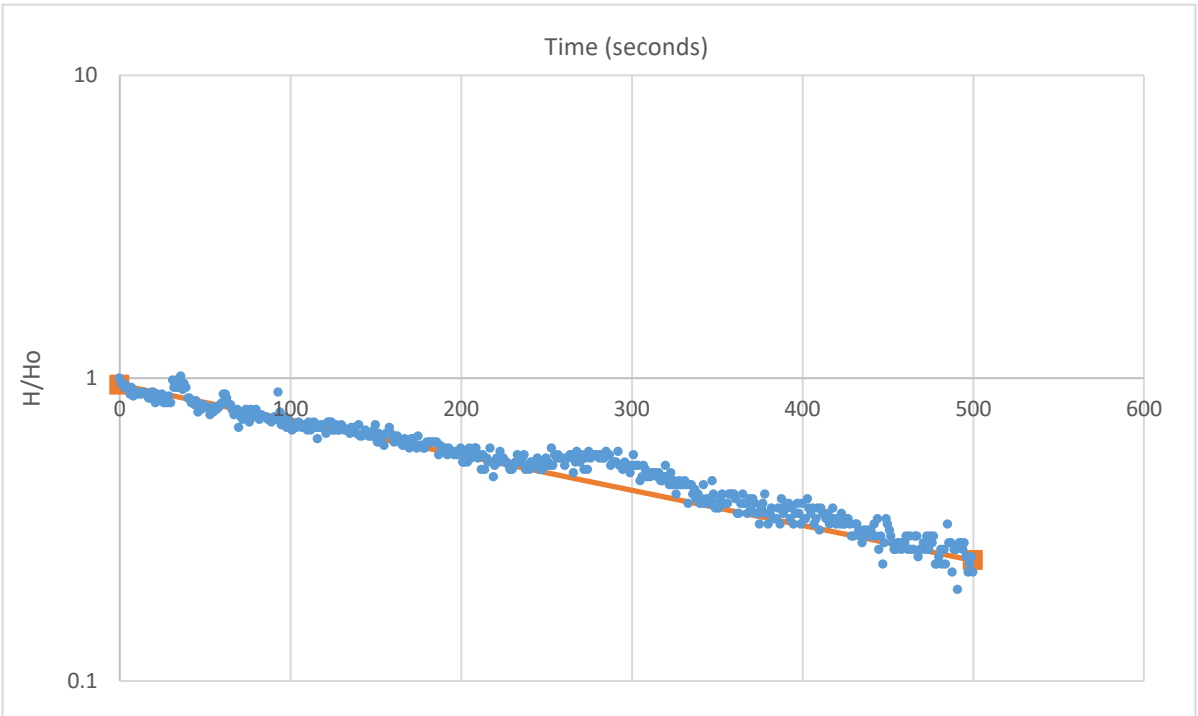
If L_w is less than h , the saturated thickness of the aquifer, then

Well name:	BH06
Test date:	15/06/2022
Test number:	test 1 slug in
Analyst:	LK
Datum point:	Ground level
Rest water level:	12.77 m below datum (mbd)
Top of screen:	12 m below datum (mbd)
Bottom of screen:	15.22 m below datum (mbd)

Time (seconds)	Water level (mbd)	H (m)	H/Ho
0	12.7	0.07	1
1	12.703	0.067	0.957143
2	12.703	0.067	0.957143
3	12.705	0.065	0.928571
4	12.704	0.066	0.942857
5	12.706	0.064	0.914286
6	12.708	0.062	0.885714
7	12.705	0.065	0.928571
8	12.709	0.061	0.871429
9	12.708	0.062	0.885714
10	12.708	0.062	0.885714
11	12.707	0.063	0.9
12	12.708	0.062	0.885714
13	12.708	0.062	0.885714
14	12.707	0.063	0.9
15	12.708	0.062	0.885714
16	12.708	0.062	0.885714
17	12.71	0.06	0.857143
18	12.71	0.06	0.857143
19	12.707	0.063	0.9
20	12.707	0.063	0.9
21	12.712	0.058	0.828571
22	12.708	0.062	0.885714
23	12.711	0.059	0.842857
24	12.711	0.059	0.842857
25	12.708	0.062	0.885714
26	12.712	0.058	0.828571
27	12.711	0.059	0.842857
28	12.712	0.058	0.828571
29	12.709	0.061	0.871429
30	12.712	0.058	0.828571
31	12.701	0.069	0.985714
32	12.705	0.065	0.928571
33	12.704	0.066	0.942857
34	12.705	0.065	0.928571
35	12.7	0.07	1
36	12.699	0.071	1.014286
37	12.706	0.064	0.914286
38	12.703	0.067	0.957143
39	12.705	0.065	0.928571
40	12.71	0.06	0.857143
41	12.71	0.06	0.857143
42	12.712	0.058	0.828571
43	12.711	0.059	0.842857
44	12.713	0.057	0.814286
45	12.711	0.059	0.842857
46	12.716	0.054	0.771429
47	12.713	0.057	0.814286
48	12.715	0.055	0.785714
49	12.713	0.057	0.814286
50	12.714	0.056	0.8
51	12.714	0.056	0.8
52	12.714	0.056	0.8
53	12.717	0.053	0.757143
54	12.714	0.056	0.8
55	12.716	0.054	0.771429
56	12.714	0.056	0.8
57	12.715	0.055	0.785714
58	12.714	0.056	0.8
59	12.713	0.057	0.814286
60	12.712	0.058	0.828571
61	12.708	0.062	0.885714
62	12.708	0.062	0.885714
63	12.71	0.06	0.857143
64	12.713	0.057	0.814286
65	12.713	0.057	0.814286
66	12.715	0.055	0.785714
67	12.717	0.053	0.757143
68	12.716	0.054	0.771429
69	12.715	0.055	0.785714
70	12.722	0.048	0.685714
71	12.718	0.052	0.742857
72	12.719	0.051	0.728571
73	12.717	0.053	0.757143
74	12.715	0.055	0.785714
75	12.718	0.052	0.742857
76	12.72	0.05	0.714286
77	12.715	0.055	0.785714
78	12.717	0.053	0.757143
79	12.718	0.052	0.742857
80	12.715	0.055	0.785714
81	12.718	0.052	0.742857
82	12.719	0.051	0.728571
83	12.717	0.053	0.757143
84	12.718	0.052	0.742857
85	12.718	0.052	0.742857
86	12.718	0.052	0.742857
87	12.719	0.051	0.728571
88	12.719	0.051	0.728571
89	12.72	0.05	0.714286
90	12.719	0.051	0.728571
91	12.718	0.052	0.742857
92	12.719	0.051	0.728571

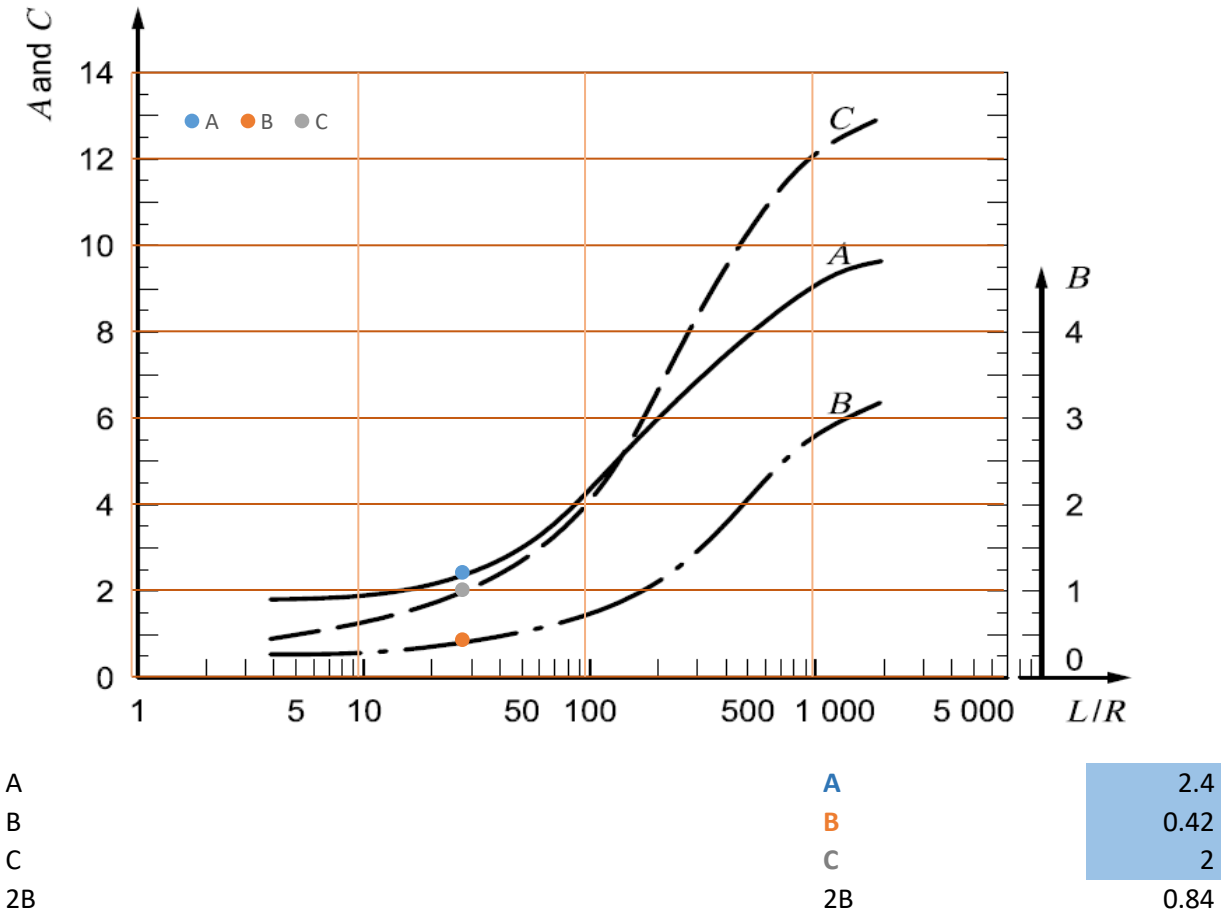
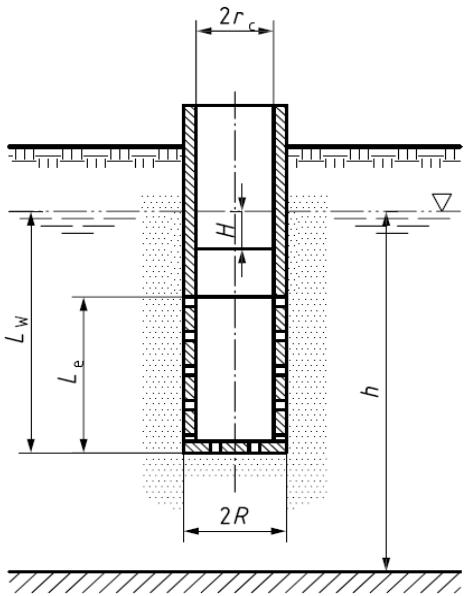


Bouwer-Rice Analysis



Input parameters	Symbol	Units	Value
Radius of well pipe	r_c	m	0.025
Borehole radius in screened section	R	m	0.085
Length of saturated screen (Le on diagram)	L	m	2.45
Length of saturated screen + solid casing	L_w	m	2.45
Saturated thickness of aquifer	h	m	2.33
Use effective radius of well pipe? (when water level in screened section)			Yes
Porosity of gravel pack	n		0.25

Line fitting parameters (adjust to best fit line)			Value
x-axis time 1	t_1	s	0
x-axis time 2	t_2	s	500
y-axis H/Ho 1	H_1/H_o		0.95
y-axis H/Ho 2	H_2/H_o		0.25



Calculated parameters			
H1 (from line fitting)	H_1	m	0.0665
H2 (from line fitting)	H_2	m	0.0175
Effective radius of well pipe	r_e	m	0.047697
L/R	L/R		28.82353
Effective radial distance over which induced head dissipated	Re	m	1.057591

Re fully penetrating		
Assume fully penetrating?		Yes
ln (Re/R) (partially penetrating)	ln (Re/R)	#NUM!
ln (Re/R) (fully penetrating)	ln (Re/R)	2.521098
ln (Re/R) (used)	ln (Re/R)	2.521098

Hydraulic conductivity	K	m/s	3.13E-06
		m/d	2.70E-01

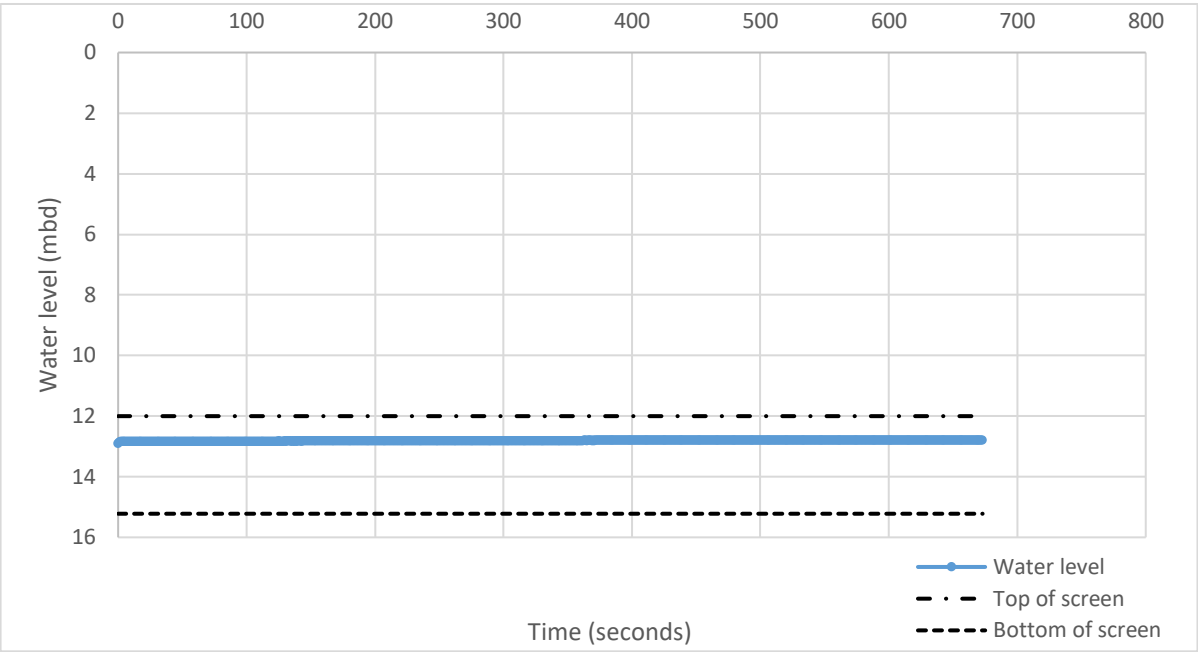
Equations used

$$K = \frac{r_e^2 \cdot \ln\left(\frac{R_e}{R}\right)}{2 \cdot L} \cdot \frac{1}{(t_2 - t_1)} \cdot \ln\left(\frac{H_1}{H_2}\right) \quad r_e = \sqrt{(1 - n)r_c^2 + nR^2}$$

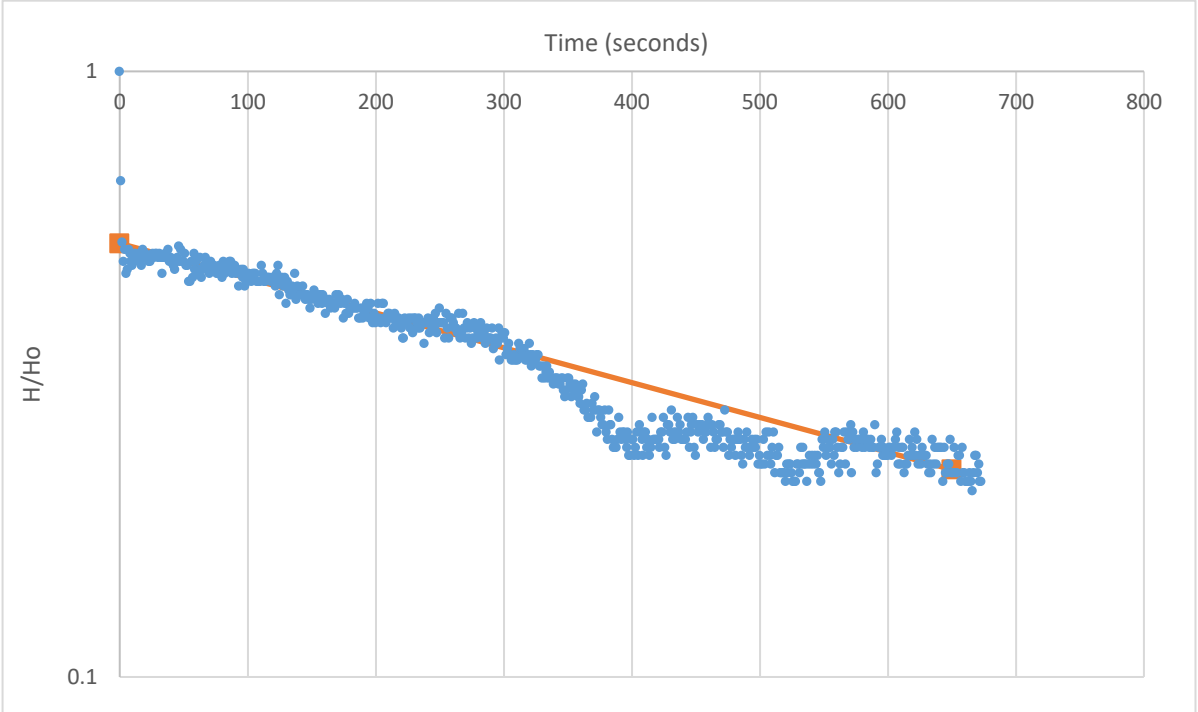
If L_w is less than h , the saturated thickness of the aquifer, then

Well name:	BH06
Test date:	15/06/2022
Test number:	test 2 slug in
Analyst:	LK
Datum point:	Ground level
Rest water level:	12.77 m below datum (mbd)
Top of screen:	12 m below datum (mbd)
Bottom of screen:	15.22 m below datum (mbd)

Time (seconds)	Water level (mbd)	H (m)	H/Ho
0	12.908	-0.138	1
1	12.861	-0.091	0.65942
2	12.842	-0.072	0.521739
3	12.837	-0.067	0.485507
4	12.84	-0.07	0.507246
5	12.834	-0.064	0.463768
6	12.835	-0.065	0.471014
7	12.84	-0.07	0.507246
8	12.839	-0.069	0.5
9	12.837	-0.067	0.485507
10	12.836	-0.066	0.478261
11	12.838	-0.068	0.492754
12	12.839	-0.069	0.5
13	12.839	-0.069	0.5
14	12.838	-0.068	0.492754
15	12.837	-0.067	0.485507
16	12.839	-0.069	0.5
17	12.836	-0.066	0.478261
18	12.84	-0.07	0.507246
19	12.838	-0.068	0.492754
20	12.839	-0.069	0.5
21	12.838	-0.068	0.492754
22	12.838	-0.068	0.492754
23	12.837	-0.067	0.485507
24	12.837	-0.067	0.485507
25	12.838	-0.068	0.492754
26	12.839	-0.069	0.5
27	12.838	-0.068	0.492754
28	12.839	-0.069	0.5
29	12.839	-0.069	0.5
30	12.838	-0.068	0.492754
31	12.839	-0.069	0.5
32	12.838	-0.068	0.492754
33	12.834	-0.064	0.463768
34	12.838	-0.068	0.492754
35	12.838	-0.068	0.492754
36	12.839	-0.069	0.5
37	12.839	-0.069	0.5
38	12.84	-0.07	0.507246
39	12.837	-0.067	0.485507
40	12.838	-0.068	0.492754
41	12.837	-0.067	0.485507
42	12.836	-0.066	0.478261
43	12.835	-0.065	0.471014
44	12.837	-0.067	0.485507
45	12.838	-0.068	0.492754
46	12.841	-0.071	0.514493
47	12.837	-0.067	0.485507
48	12.84	-0.07	0.507246
49	12.837	-0.067	0.485507
50	12.837	-0.067	0.485507
51	12.839	-0.069	0.5
52	12.836	-0.066	0.478261
53	12.836	-0.066	0.478261
54	12.832	-0.062	0.449275
55	12.832	-0.062	0.449275
56	12.837	-0.067	0.485507
57	12.833	-0.063	0.456522
58	12.839	-0.069	0.5
59	12.835	-0.065	0.471014
60	12.837	-0.067	0.485507
61	12.834	-0.064	0.463768
62	12.835	-0.065	0.471014
63	12.838	-0.068	0.492754
64	12.833	-0.063	0.456522
65	12.835	-0.065	0.471014
66	12.836	-0.066	0.478261
67	12.838	-0.068	0.492754
68	12.835	-0.065	0.471014
69	12.836	-0.066	0.478261
70	12.834	-0.064	0.463768
71	12.837	-0.067	0.485507
72	12.836	-0.066	0.478261
73	12.836	-0.066	0.478261
74	12.836	-0.066	0.478261
75	12.835	-0.065	0.471014
76	12.834	-0.064	0.463768
77	12.834	-0.064	0.463768
78	12.836	-0.066	0.478261
79	12.834	-0.064	0.463768
80	12.833	-0.063	0.456522
81	12.837	-0.067	0.485507
82	12.834	-0.064	0.463768
83	12.835	-0.065	0.471014
84	12.835	-0.065	0.471014
85	12.836	-0.066	0.478261
86	12.837	-0.067	0.485507
87	12.837	-0.067	0.485507
88	12.834	-0.064	0.463768
89	12.835	-0.065	0.471014
90	12.836	-0.066	0.478261
91	12.834	-0.064	0.463768
92	12.835	-0.065	0.471014

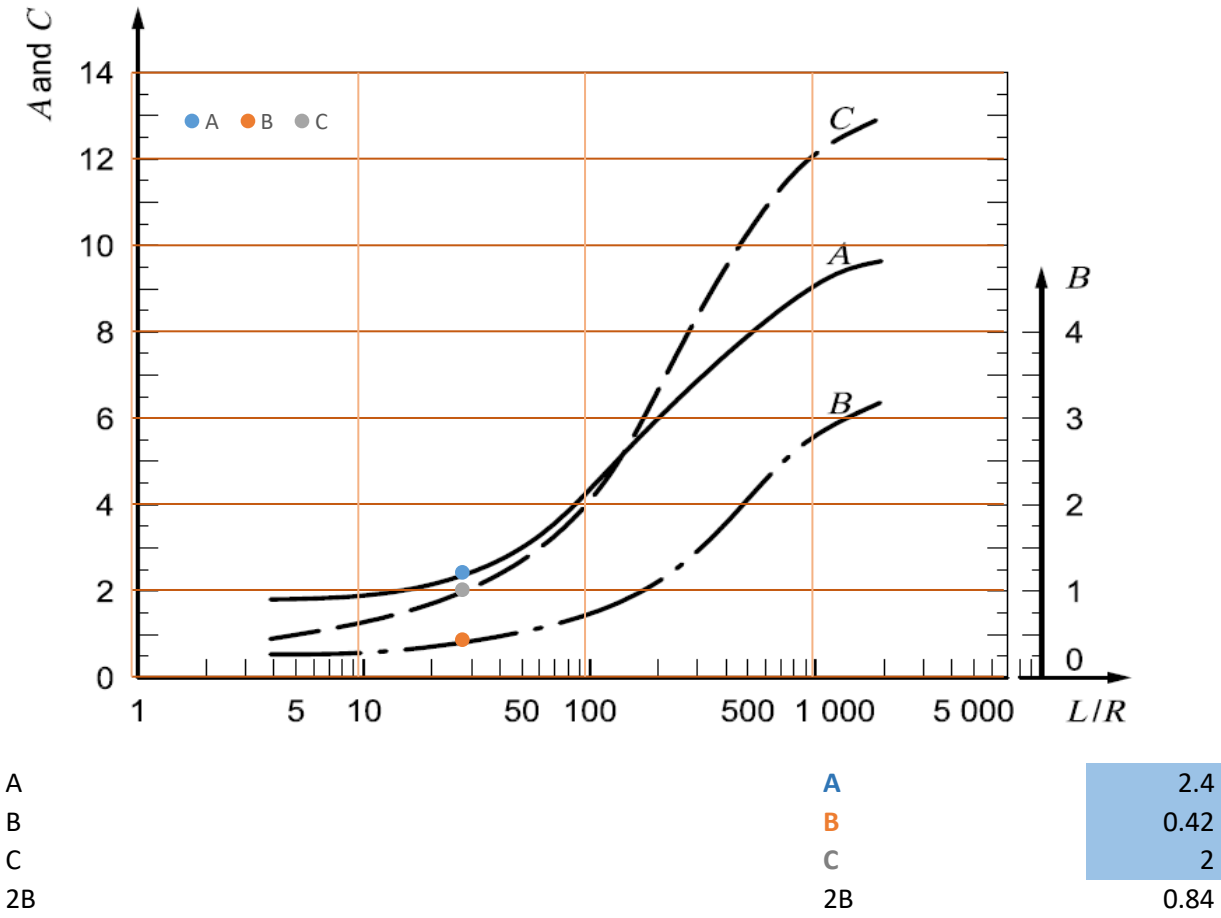
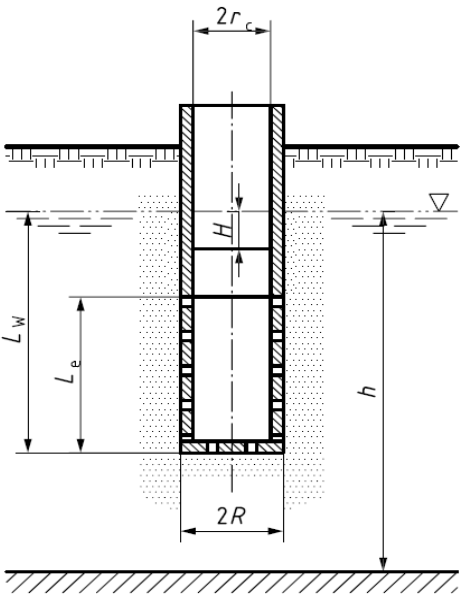


Bouwer-Rice Analysis



Input parameters	Symbol	Units	Value
Radius of well pipe	r_c	m	0.025
Borehole radius in screened section	R	m	0.085
Length of saturated screen (Le on diagram)	L	m	2.45
Length of saturated screen + solid casing	L_w	m	2.45
Saturated thickness of aquifer	h	m	2.33
Use effective radius of well pipe? (when water level in screened section)			Yes
Porosity of gravel pack	n		0.25

Line fitting parameters (adjust to best fit line)			Value
x-axis time 1	t_1	s	0
x-axis time 2	t_2	s	650
y-axis H/Ho 1	H_1/H_o		0.52
y-axis H/Ho 2	H_2/H_o		0.22



Calculated parameters			
H1 (from line fitting)	H1	m	-0.07176
H2 (from line fitting)	H2	m	-0.03036
Effective radius of well pipe	r_e	m	0.047697
L/R	L/R		28.82353
Effective radial distance over which induced head dissipated	R_e	m	1.057591

Re fully penetrating		
Assume fully penetrating?		Yes
ln (Re/R) (partially penetrating)	ln (Re/R)	#NUM!
ln (Re/R) (fully penetrating)	ln (Re/R)	2.521098
ln (Re/R) (used)	ln (Re/R)	2.521098

Hydraulic conductivity	K	m/s	1.55E-06
		m/d	1.34E-01

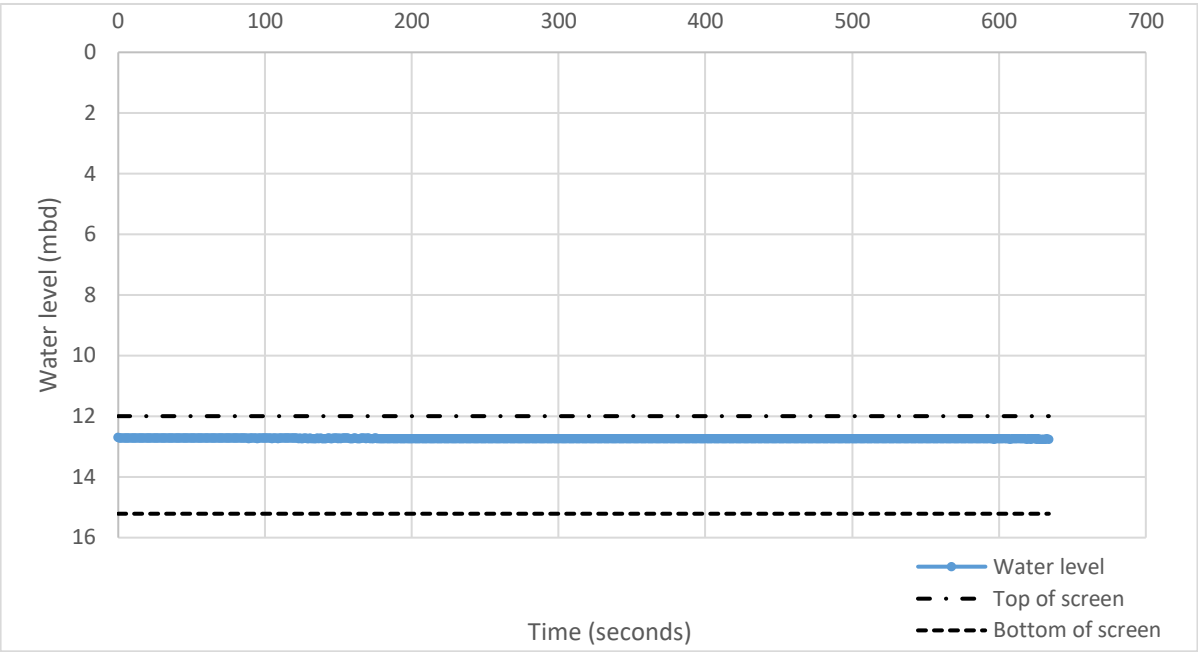
Equations used

$$K = \frac{r_e^2 \cdot \ln(R_e/r)}{2 \cdot L} \cdot \frac{1}{(t_2 - t_1)} \cdot \ln\left(\frac{H_1}{H_2}\right) \quad r_e = \sqrt{(1 - n)r_c^2 + nR^2}$$

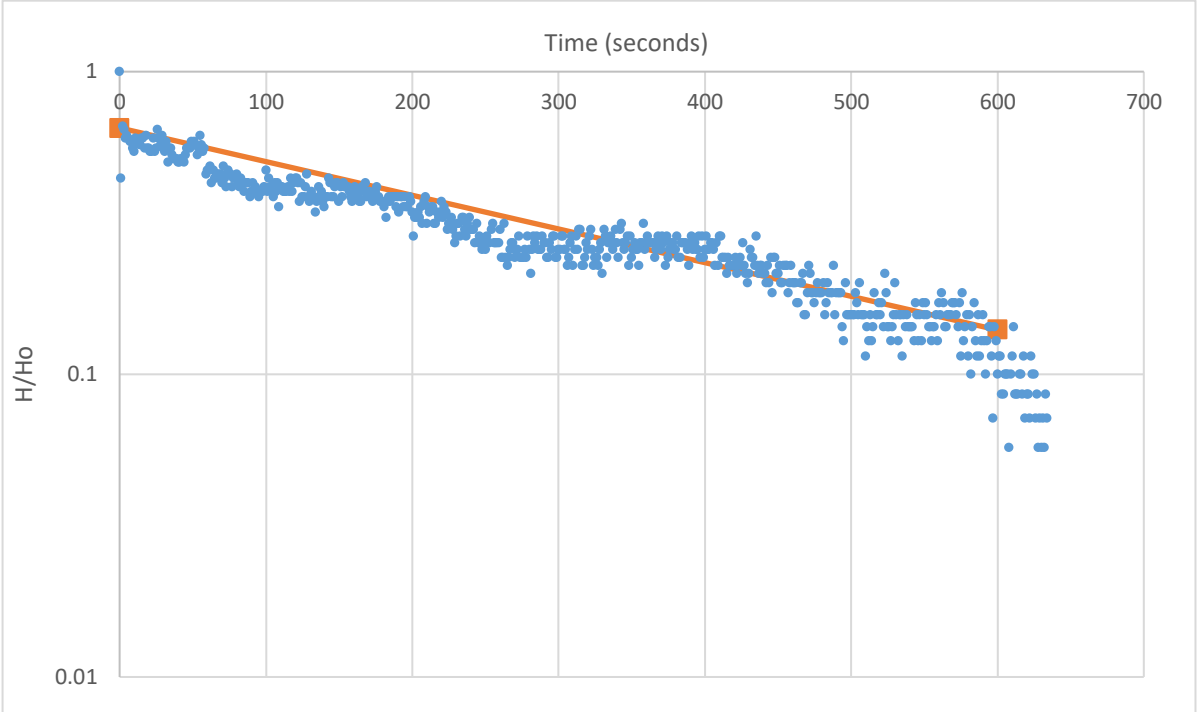
If L_w is less than h , the saturated thickness of the aquifer, then

Well name:	BH06
Test date:	15/06/2022
Test number:	test 2 slug in
Analyst:	LK
Datum point:	Ground level
Rest water level:	12.77 m below datum (mbd)
Top of screen:	12 m below datum (mbd)
Bottom of screen:	15.22 m below datum (mbd)

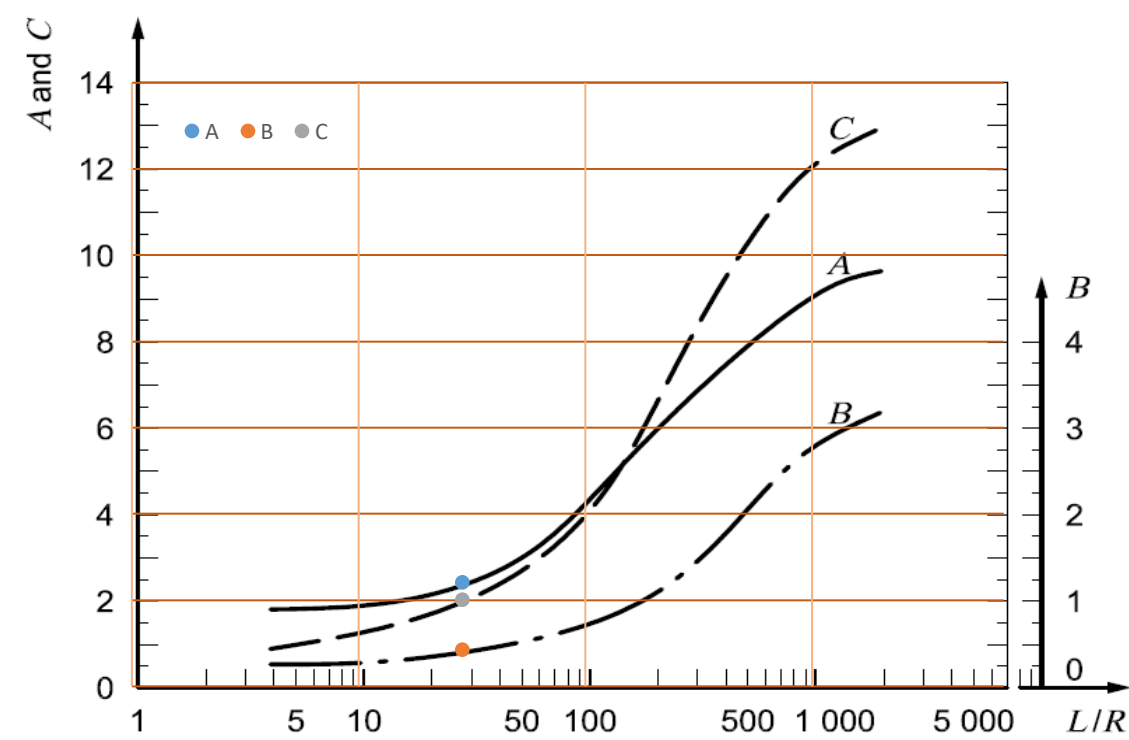
Time (seconds)	Water level (mbd)	H (m)	H/Ho
0	12.7	0.07	1
1	12.739	0.031	0.442857
2	12.724	0.046	0.657143
3	12.725	0.045	0.642857
4	12.728	0.042	0.6
5	12.727	0.043	0.614286
6	12.728	0.042	0.6
7	12.729	0.041	0.585714
8	12.729	0.041	0.585714
9	12.731	0.039	0.557143
10	12.732	0.038	0.542857
11	12.728	0.042	0.6
12	12.729	0.041	0.585714
13	12.729	0.041	0.585714
14	12.73	0.04	0.571429
15	12.728	0.042	0.6
16	12.728	0.042	0.6
17	12.731	0.039	0.557143
18	12.727	0.043	0.614286
19	12.731	0.039	0.557143
20	12.731	0.039	0.557143
21	12.732	0.038	0.542857
22	12.732	0.038	0.542857
23	12.728	0.042	0.6
24	12.732	0.038	0.542857
25	12.731	0.039	0.557143
26	12.725	0.045	0.642857
27	12.728	0.042	0.6
28	12.73	0.04	0.571429
29	12.727	0.043	0.614286
30	12.731	0.039	0.557143
31	12.732	0.038	0.542857
32	12.729	0.041	0.585714
33	12.735	0.035	0.5
34	12.731	0.039	0.557143
35	12.731	0.039	0.557143
36	12.733	0.037	0.528571
37	12.734	0.036	0.514286
38	12.734	0.036	0.514286
39	12.734	0.036	0.514286
40	12.735	0.035	0.5
41	12.735	0.035	0.5
42	12.734	0.036	0.514286
43	12.734	0.036	0.514286
44	12.735	0.035	0.5
45	12.733	0.037	0.528571
46	12.731	0.039	0.557143
47	12.731	0.039	0.557143
48	12.731	0.039	0.557143
49	12.729	0.041	0.585714
50	12.73	0.04	0.571429
51	12.729	0.041	0.585714
52	12.73	0.04	0.571429
53	12.733	0.037	0.528571
54	12.731	0.039	0.557143
55	12.727	0.043	0.614286
56	12.73	0.04	0.571429
57	12.732	0.038	0.542857
58	12.731	0.039	0.557143
59	12.738	0.032	0.457143
60	12.737	0.033	0.471429
61	12.737	0.033	0.471429
62	12.736	0.034	0.485714
63	12.74	0.03	0.428571
64	12.737	0.033	0.471429
65	12.739	0.031	0.442857
66	12.739	0.031	0.442857
67	12.738	0.032	0.457143
68	12.738	0.032	0.457143
69	12.738	0.032	0.457143
70	12.74	0.03	0.428571
71	12.736	0.034	0.485714
72	12.739	0.031	0.442857
73	12.741	0.029	0.414286
74	12.737	0.033	0.471429
75	12.738	0.032	0.457143
76	12.738	0.032	0.457143
77	12.741	0.029	0.414286
78	12.739	0.031	0.442857
79	12.739	0.031	0.442857
80	12.738	0.032	0.457143
81	12.74	0.03	0.428571
82	12.741	0.029	0.414286
83	12.739	0.031	0.442857
84	12.74	0.03	0.428571
85	12.742	0.028	0.4
86	12.74	0.03	0.428571
87	12.74	0.03	0.428571
88	12.74	0.03	0.428571
89	12.743	0.027	0.385714
90	12.742	0.028	0.4
91	12.74	0.03	0.428571
92	12.742	0.028	0.4



Bouwer-Rice Analysis



Input parameters	Symbol	Units	Value
Radius of well pipe	r_c	m	0.025
Borehole radius in screened section	R	m	0.085
Length of saturated screen (Le on diagram)	L	m	2.45
Length of saturated screen + solid casing	L_w	m	2.45
Saturated thickness of aquifer	h	m	2.33
Use effective radius of well pipe? (when water level in screened section)			Yes
Porosity of gravel pack	n		0.25
Line fitting parameters (adjust to best fit line)			
x-axis time 1	t_1	s	0
x-axis time 2	t_2	s	600
y-axis H/Ho 1	H_1/H_o		0.65
y-axis H/Ho 2	H_2/H_o		0.14



A	A	2.4
B	B	0.42
C	C	2
2B	2B	0.84

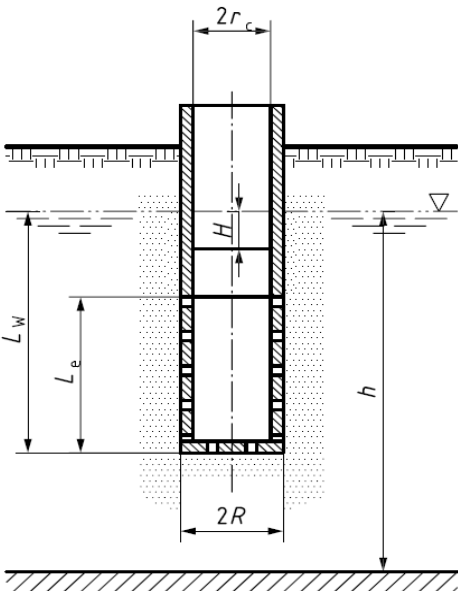
Calculated parameters			
H1 (from line fitting)	H1	m	0.0455
H2 (from line fitting)	H2	m	0.0098
Effective radius of well pipe	r_e	m	0.047697
L/R	L/R		28.82353
Effective radial distance over which induced head dissipated	Re	m	1.057591
Re fully penetrating			
Assume fully penetrating?			Yes
ln (Re/R) (partially penetrating)	ln (Re/R)		#NUM!
ln (Re/R) (fully penetrating)	ln (Re/R)		2.521098
ln (Re/R) (used)	ln (Re/R)		2.521098

Hydraulic conductivity		K	m/s	3.00E-06
			m/d	2.59E-01

Equations used

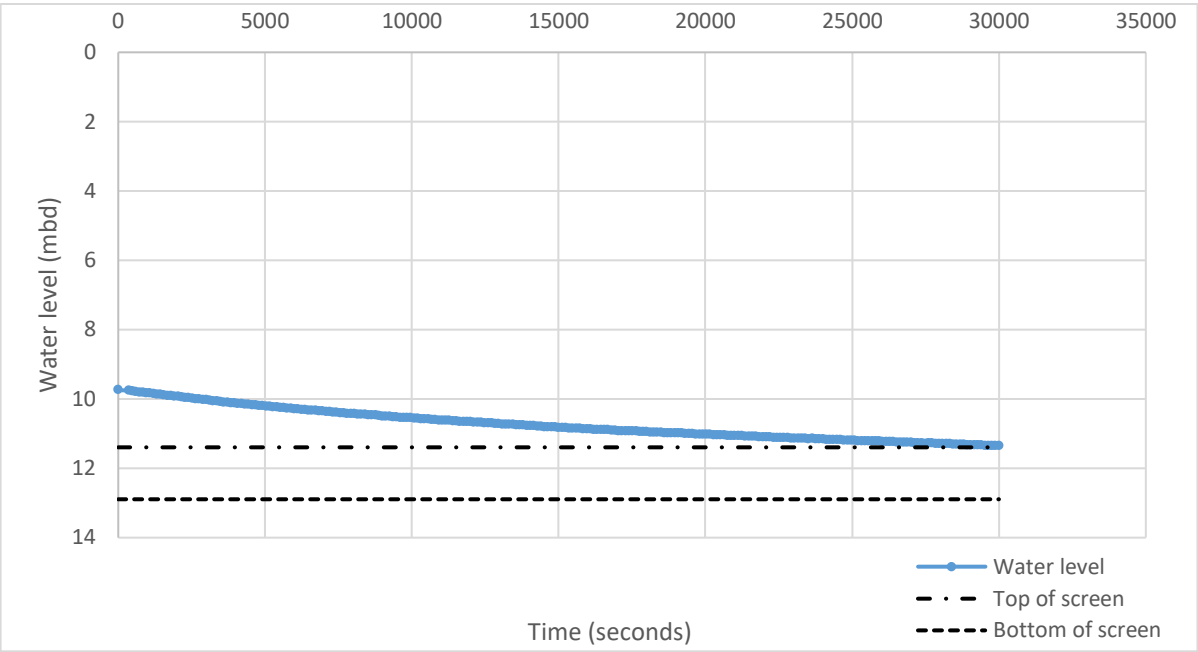
$$K = \frac{r_e^2 \cdot \ln\left(\frac{R_e}{R}\right)}{2 \cdot L} \cdot \frac{1}{(t_2 - t_1)} \cdot \ln\left(\frac{H_1}{H_2}\right) \quad r_e = \sqrt{(1 - n)r_c^2 + nR^2}$$

If L_w is less than h , the saturated thickness of the aquifer, then

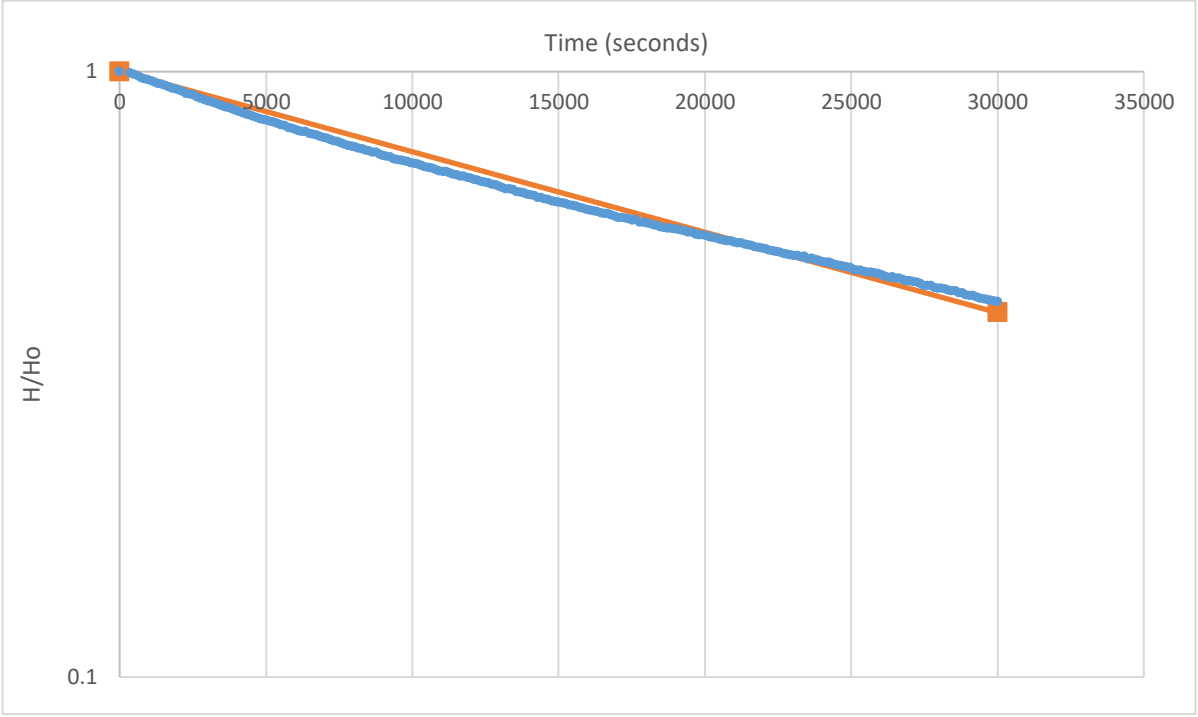


Well name:	BH08
Test date:	20/06/2022
Test number:	test 1 slug in
Analyst:	LK
Datum point:	Ground level
Rest water level:	12.51 m below datum (mbd)
Top of screen:	11.4 m below datum (mbd)
Bottom of screen:	12.9 m below datum (mbd)

Time (seconds)	Water level (mbd)	H (m)	H/Ho
0	9.74	2.77	1
360	9.757	2.753	0.993863
480	9.769	2.741	0.989531
600	9.786	2.724	0.983394
720	9.803	2.707	0.977256
840	9.817	2.693	0.972202
960	9.826	2.684	0.968953
1080	9.84	2.67	0.963899
1200	9.85	2.66	0.960289
1320	9.866	2.644	0.954513
1440	9.876	2.634	0.950903
1560	9.884	2.626	0.948014
1680	9.899	2.611	0.942599
1800	9.913	2.597	0.937545
1920	9.921	2.589	0.934657
2040	9.935	2.575	0.929603
2160	9.945	2.565	0.925993
2280	9.963	2.547	0.919495
2400	9.971	2.539	0.916606
2520	9.981	2.529	0.912996
2640	9.996	2.514	0.907581
2760	10.008	2.502	0.903249
2880	10.022	2.488	0.898195
3000	10.032	2.478	0.894585
3120	10.042	2.468	0.890975
3240	10.056	2.454	0.885921
3360	10.066	2.444	0.88231
3480	10.077	2.433	0.878339
3600	10.092	2.418	0.872924
3720	10.099	2.411	0.870397
3840	10.111	2.399	0.866065
3960	10.122	2.388	0.862094
4080	10.133	2.377	0.858123
4200	10.145	2.365	0.853791
4320	10.156	2.354	0.849819
4440	10.162	2.348	0.847653
4560	10.176	2.334	0.842599
4680	10.185	2.325	0.83935
4800	10.199	2.311	0.834296
4920	10.206	2.304	0.831769
5040	10.212	2.298	0.829603
5160	10.22	2.29	0.826715
5280	10.23	2.28	0.823105
5400	10.242	2.268	0.818773
5520	10.253	2.257	0.814801
5640	10.258	2.252	0.812996
5760	10.272	2.238	0.807942
5880	10.279	2.231	0.805415
6000	10.29	2.22	0.801444
6120	10.301	2.209	0.797473
6240	10.307	2.203	0.795307
6360	10.31	2.2	0.794224
6480	10.326	2.184	0.788448
6600	10.332	2.178	0.786282
6720	10.337	2.173	0.784477
6840	10.345	2.165	0.781588
6960	10.356	2.154	0.777617
7080	10.362	2.148	0.775451
7200	10.372	2.138	0.771841
7320	10.383	2.127	0.76787
7440	10.392	2.118	0.764621
7560	10.401	2.109	0.761372
7680	10.41	2.1	0.758123
7800	10.419	2.091	0.754874
7920	10.425	2.085	0.752708
8040	10.434	2.076	0.749458
8160	10.442	2.068	0.74657
8280	10.45	2.06	0.743682
8400	10.456	2.054	0.741516
8520	10.461	2.049	0.739711
8640	10.474	2.036	0.735018
8760	10.473	2.037	0.735379
8880	10.489	2.021	0.729603
9000	10.497	2.013	0.726715
9120	10.502	2.008	0.72491
9240	10.511	1.999	0.721661
9360	10.523	1.987	0.717329
9480	10.529	1.981	0.715162
9600	10.535	1.975	0.712996
9720	10.539	1.971	0.711552
9840	10.545	1.965	0.709386
9960	10.553	1.957	0.706498
10080	10.559	1.951	0.704332
10200	10.566	1.944	0.701805
10320	10.576	1.934	0.698195
10440	10.585	1.925	0.694946
10560	10.591	1.919	0.69278
10680	10.595	1.915	0.691336
10800	10.602	1.908	0.688809
10920	10.613	1.897	0.684838
11040	10.616	1.894	0.683755
11160	10.618	1.892	0.683032
11280	10.63	1.88	0.6787

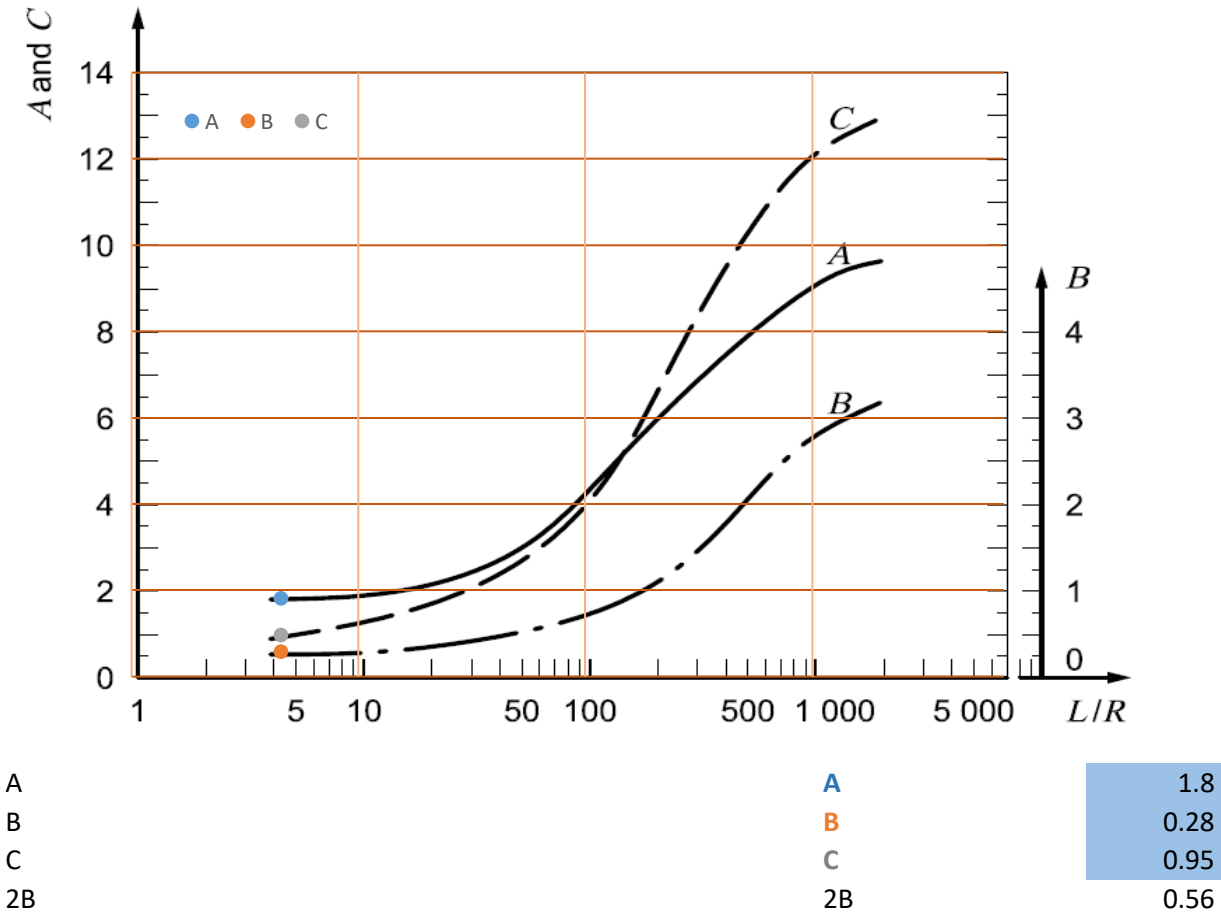
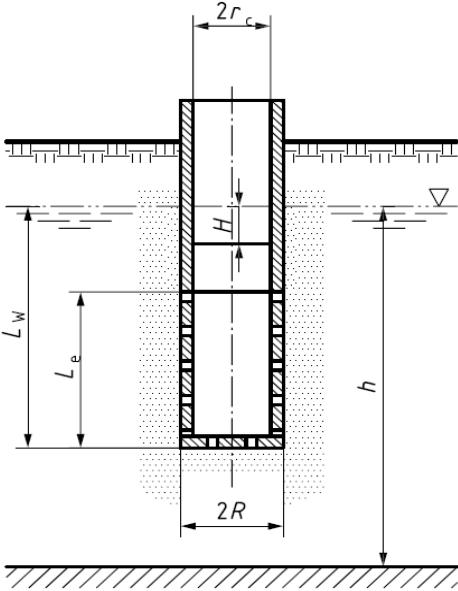


Bouwer-Rice Analysis



Input parameters	Symbol	Units	Value
Radius of well pipe	r_c	m	0.025
Borehole radius in screened section	R	m	0.085
Length of saturated screen (Le on diagram)	L	m	0.39
Length of saturated screen + solid casing	L_w	m	0.39
Saturated thickness of aquifer	h	m	0.39
Use effective radius of well pipe? (when water level in screened section)			No
Porosity of gravel pack	n		0.25

Line fitting parameters (adjust to best fit line)			Value
x-axis time 1	t_1	s	0
x-axis time 2	t_2	s	30000
y-axis H/Ho 1	H_1/H_o		1
y-axis H/Ho 2	H_2/H_o		0.4



Calculated parameters			
H1 (from line fitting)	H_1	m	2.77
H2 (from line fitting)	H_2	m	1.108
Effective radius of well pipe	r_e	m	0.025
L/R	L/R		4.588235
Effective radial distance over which induced head dissipated	R_e	m	0.249383

Re fully penetrating		
Assume fully penetrating?		Yes
ln (Re/R) (partially penetrating)	ln (Re/R)	#NUM!
ln (Re/R) (fully penetrating)	ln (Re/R)	1.076339
ln (Re/R) (used)	ln (Re/R)	1.076339

Hydraulic conductivity	K	m/s	2.63E-08
		m/d	2.28E-03

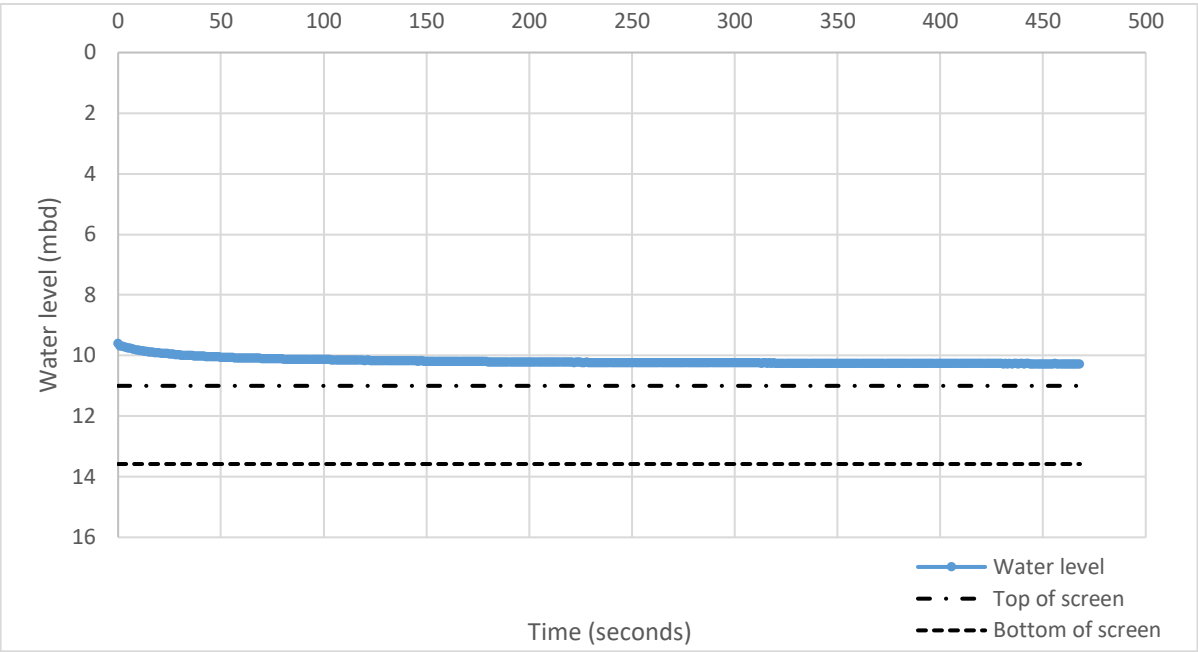
Equations used

$$K = \frac{r_e^2 \cdot \ln(R_e/r_e)}{2 \cdot L} \cdot \frac{1}{(t_2 - t_1)} \cdot \ln\left(\frac{H_1}{H_2}\right) \quad r_e = \sqrt{(1 - n)r_c^2 + nR^2}$$

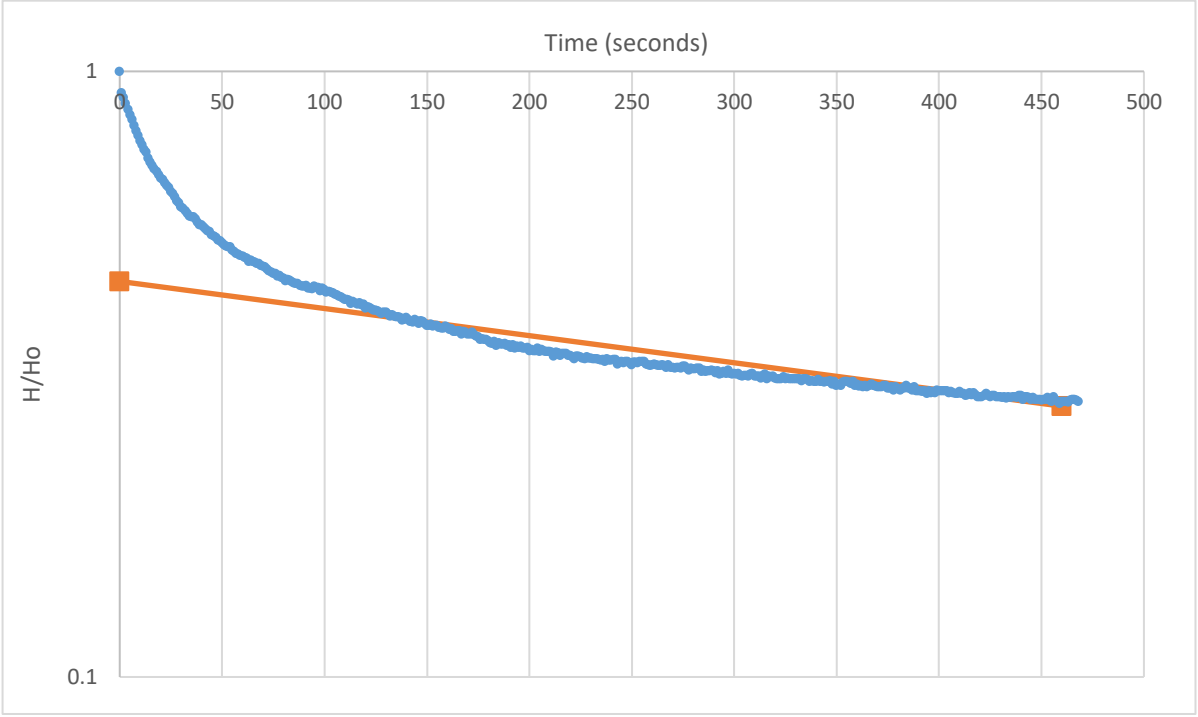
If L_w is less than h , the saturated thickness of the aquifer, then

Well name:	BH09
Test date:	20/06/2022
Test number:	test 1 slug in
Analyst:	LK
Datum point:	Ground level
Rest water level:	10.55 m below datum (mbd)
Top of screen:	11 m below datum (mbd)
Bottom of screen:	13.58 m below datum (mbd)

Time (seconds)	Water level (mbd)	H (m)	H/Ho
0	9.613	0.937	1
1	9.687	0.863	0.921025
2	9.702	0.848	0.905016
3	9.721	0.829	0.884739
4	9.74	0.81	0.864461
5	9.757	0.793	0.846318
6	9.771	0.779	0.831377
7	9.788	0.762	0.813234
8	9.803	0.747	0.797225
9	9.817	0.733	0.782284
10	9.83	0.72	0.76841
11	9.841	0.709	0.75667
12	9.854	0.696	0.742796
13	9.862	0.688	0.734258
14	9.876	0.674	0.719317
15	9.887	0.663	0.707577
16	9.895	0.655	0.699039
17	9.903	0.647	0.690502
18	9.91	0.64	0.683031
19	9.918	0.632	0.674493
20	9.926	0.624	0.665955
21	9.929	0.621	0.662753
22	9.937	0.613	0.654216
23	9.943	0.607	0.647812
24	9.948	0.602	0.642476
25	9.957	0.593	0.632871
26	9.962	0.588	0.627535
27	9.969	0.581	0.620064
28	9.978	0.572	0.610459
29	9.982	0.568	0.60619
30	9.99	0.56	0.597652
31	9.994	0.556	0.593383
32	9.999	0.551	0.588047
33	10.004	0.546	0.582711
34	10.01	0.54	0.576307
35	10.011	0.539	0.57524
36	10.012	0.538	0.574173
37	10.016	0.534	0.569904
38	10.022	0.528	0.563501
39	10.027	0.523	0.558164
40	10.028	0.522	0.557097
41	10.031	0.519	0.553895
42	10.035	0.515	0.549626
43	10.039	0.511	0.545358
44	10.041	0.509	0.543223
45	10.047	0.503	0.53682
46	10.05	0.5	0.533618
47	10.052	0.498	0.531483
48	10.057	0.493	0.526147
49	10.058	0.492	0.52508
50	10.062	0.488	0.520811
51	10.066	0.484	0.516542
52	10.068	0.482	0.514408
53	10.07	0.48	0.512273
54	10.07	0.48	0.512273
55	10.075	0.475	0.506937
56	10.078	0.472	0.503735
57	10.081	0.469	0.500534
58	10.083	0.467	0.498399
59	10.085	0.465	0.496265
60	10.086	0.464	0.495197
61	10.089	0.461	0.491996
62	10.09	0.46	0.490928
63	10.095	0.455	0.485592
64	10.093	0.457	0.487727
65	10.096	0.454	0.484525
66	10.097	0.453	0.483458
67	10.099	0.451	0.481323
68	10.099	0.451	0.481323
69	10.102	0.448	0.478122
70	10.104	0.446	0.475987
71	10.105	0.445	0.47492
72	10.108	0.442	0.471718
73	10.111	0.439	0.468517
74	10.114	0.436	0.465315
75	10.116	0.434	0.46318
76	10.116	0.434	0.46318
77	10.12	0.43	0.458911
78	10.119	0.431	0.459979
79	10.122	0.428	0.456777
80	10.123	0.427	0.45571
81	10.128	0.422	0.450374
82	10.126	0.424	0.452508
83	10.127	0.423	0.451441
84	10.129	0.421	0.449306
85	10.131	0.419	0.447172
86	10.132	0.418	0.446105
87	10.132	0.418	0.446105
88	10.135	0.415	0.442903
89	10.136	0.414	0.441836
90	10.136	0.414	0.441836
91	10.135	0.415	0.442903
92	10.139	0.411	0.438634

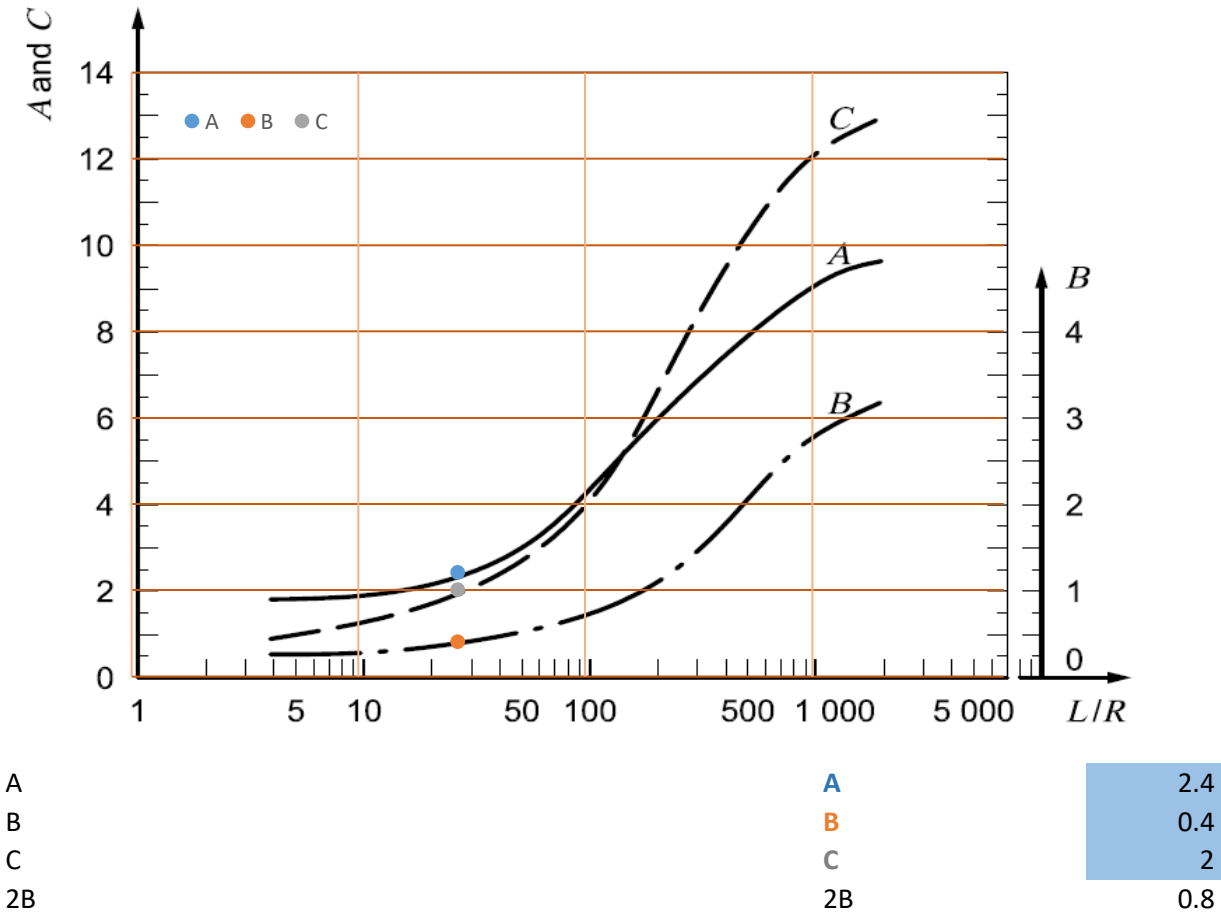
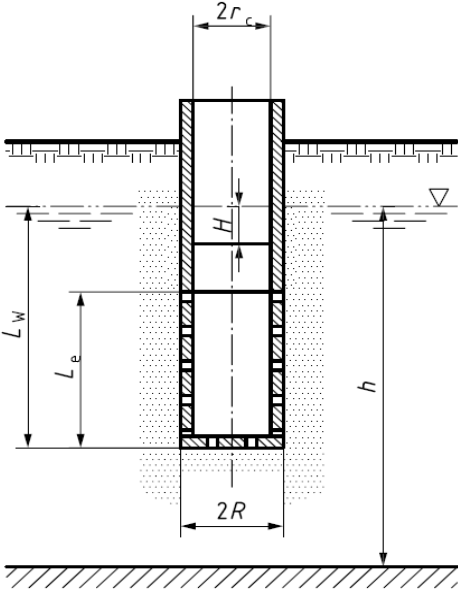


Bouwer-Rice Analysis



Input parameters	Symbol	Units	Value
Radius of well pipe	r_c	m	0.025
Borehole radius in screened section	R	m	0.11
Length of saturated screen (Le on diagram)	L	m	3.03
Length of saturated screen + solid casing	L_w	m	3.03
Saturated thickness of aquifer	h	m	3.55
Use effective radius of well pipe? (when water level in screened section)			No
Porosity of gravel pack	n		0.25

Line fitting parameters (adjust to best fit line)			Value
x-axis time 1	t_1	s	0
x-axis time 2	t_2	s	460
y-axis H/Ho 1	H_1/H_o		0.45
y-axis H/Ho 2	H_2/H_o		0.28



Calculated parameters			
H1 (from line fitting)	H_1	m	0.42165
H2 (from line fitting)	H_2	m	0.26236
Effective radius of well pipe	r_e	m	0.025
L/R	L/R		27.54545
Effective radial distance over which induced head dissipated	Re	m	1.059828

Re fully penetrating		
Assume fully penetrating?		No
ln (Re/R) (partially penetrating)	ln (Re/R)	2.265381
ln (Re/R) (fully penetrating)	ln (Re/R)	2.473114
ln (Re/R) (used)	ln (Re/R)	2.265381

Hydraulic conductivity	K	m/s	2.41E-07
		m/d	2.08E-02

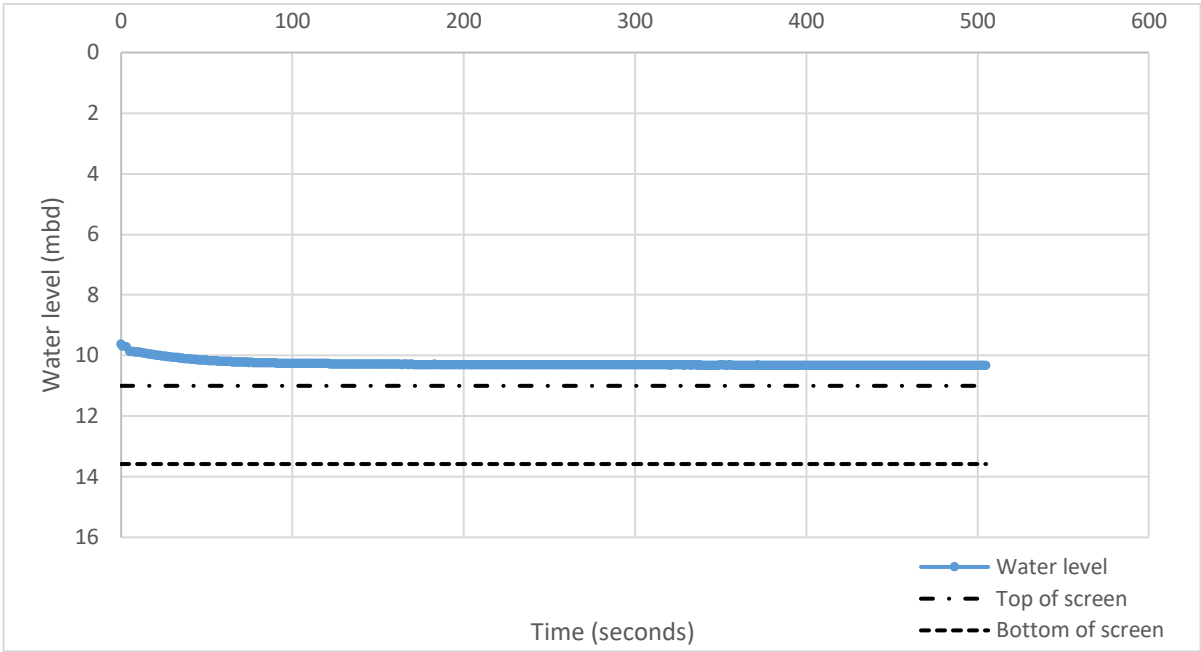
Equations used

$$K = \frac{r_e^2 \cdot \ln(R_e/R)}{2 \cdot L} \cdot \frac{1}{(t_2 - t_1)} \cdot \ln\left(\frac{H_1}{H_2}\right) \quad r_e = \sqrt{(1 - n)r_c^2 + nR^2}$$

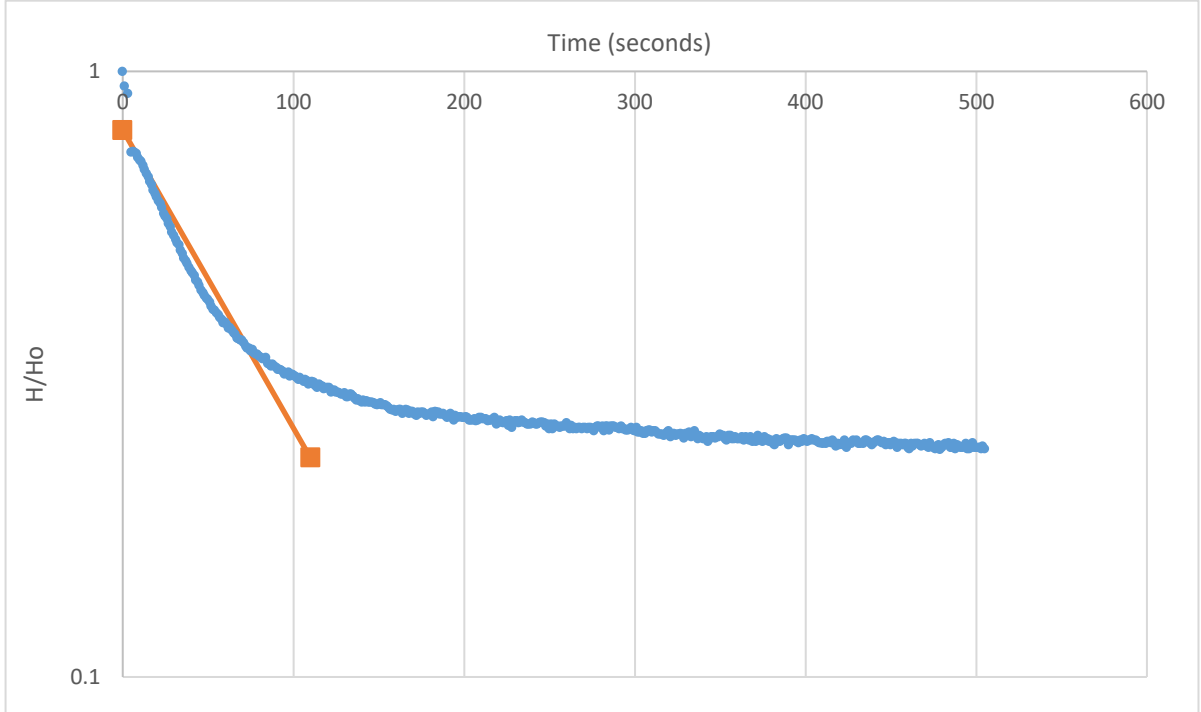
If L_w is less than h , the saturated thickness of the aquifer, then

Well name:	BH09
Test date:	20/06/2022
Test number:	test 2 slug in
Analyst:	LK
Datum point:	Ground level
Rest water level:	10.55 m below datum (mbd)
Top of screen:	11 m below datum (mbd)
Bottom of screen:	13.58 m below datum (mbd)

Time (seconds)	Water level (mbd)	H (m)	H/Ho	
0	9.639	0.911	0.911	1
1	9.689	0.861	0.945115	
3	9.714	0.836	0.917673	
5	9.88	0.67	0.735456	
6	9.878	0.672	0.737651	
7	9.881	0.669	0.734358	
8	9.884	0.666	0.731065	
9	9.893	0.657	0.721186	
10	9.9	0.65	0.713502	
11	9.904	0.646	0.709111	
12	9.914	0.636	0.698134	
13	9.923	0.627	0.688255	
14	9.932	0.618	0.678375	
15	9.941	0.609	0.668496	
16	9.951	0.599	0.657519	
17	9.958	0.592	0.649835	
18	9.97	0.58	0.636663	
19	9.977	0.573	0.628979	
20	9.985	0.565	0.620198	
21	9.993	0.557	0.611416	
22	9.999	0.551	0.60483	
23	10.008	0.542	0.594951	
24	10.019	0.531	0.582876	
25	10.025	0.525	0.57629	
26	10.03	0.52	0.570801	
27	10.039	0.511	0.560922	
28	10.046	0.504	0.553238	
29	10.056	0.494	0.542261	
30	10.062	0.488	0.535675	
31	10.07	0.48	0.526894	
32	10.076	0.474	0.520307	
33	10.079	0.471	0.517014	
34	10.089	0.461	0.506037	
35	10.094	0.456	0.500549	
36	10.102	0.448	0.491767	
37	10.107	0.443	0.486279	
38	10.111	0.439	0.481888	
39	10.118	0.432	0.474204	
40	10.124	0.426	0.467618	
41	10.127	0.423	0.464325	
42	10.131	0.419	0.459934	
43	10.138	0.412	0.45225	
44	10.142	0.408	0.447859	
45	10.147	0.403	0.442371	
46	10.154	0.396	0.434687	
47	10.158	0.392	0.430296	
48	10.162	0.388	0.425906	
49	10.166	0.384	0.421515	
50	10.168	0.382	0.419319	
51	10.171	0.379	0.416026	
52	10.177	0.373	0.40944	
53	10.182	0.368	0.403952	
54	10.183	0.367	0.402854	
55	10.186	0.364	0.399561	
56	10.189	0.361	0.396268	
57	10.193	0.357	0.391877	
58	10.196	0.354	0.388584	
59	10.2	0.35	0.384193	
60	10.199	0.351	0.385291	
61	10.202	0.348	0.381998	
62	10.207	0.343	0.376509	
63	10.206	0.344	0.377607	
64	10.21	0.34	0.373216	
65	10.213	0.337	0.369923	
66	10.215	0.335	0.367728	
67	10.22	0.33	0.362239	
68	10.221	0.329	0.361142	
69	10.222	0.328	0.360044	
70	10.222	0.328	0.360044	
71	10.226	0.324	0.355653	
72	10.23	0.32	0.351262	
73	10.232	0.318	0.349067	
74	10.232	0.318	0.349067	
75	10.235	0.315	0.345774	
76	10.234	0.316	0.346872	
77	10.238	0.312	0.342481	
78	10.239	0.311	0.341383	
79	10.239	0.311	0.341383	
80	10.242	0.308	0.33809	
81	10.243	0.307	0.336992	
82	10.245	0.305	0.334797	
83	10.245	0.305	0.334797	
84	10.243	0.307	0.336992	
85	10.25	0.3	0.329308	
86	10.251	0.299	0.328211	
87	10.253	0.297	0.326015	
88	10.251	0.299	0.328211	
89	10.253	0.297	0.326015	
90	10.255	0.295	0.32382	
91	10.257	0.293	0.321625	
92	10.257	0.293	0.321625	
93	10.258	0.292	0.320527	
94	10.259	0.291	0.319429	



Bouwer-Rice Analysis

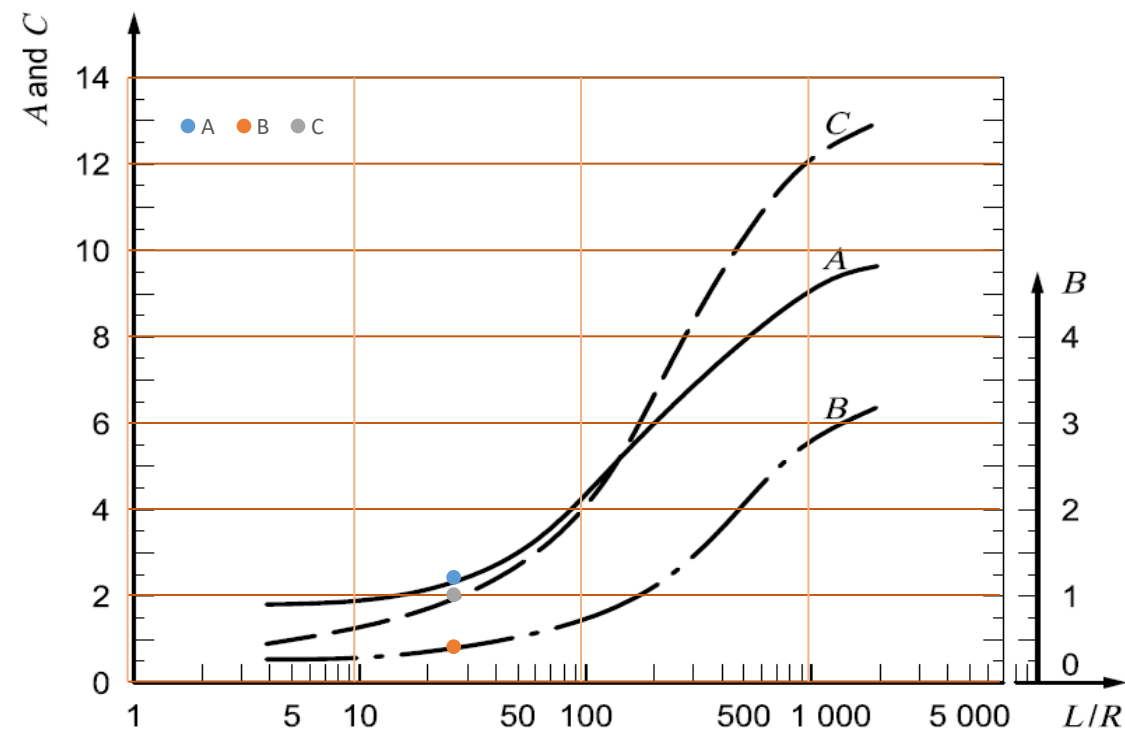


Input parameters

	Symbol	Units	Value
Radius of well pipe	r_c	m	0.025
Borehole radius in screened section	R	m	0.11
Length of saturated screen (Le on diagram)	L	m	3.03
Length of saturated screen + solid casing	L_w	m	3.03
Saturated thickness of aquifer	h	m	3.55
Use effective radius of well pipe? (when water level in screened section)			No
Porosity of gravel pack	n		0.25

Line fitting parameters (adjust to best fit line)

x-axis time 1	t1	s	0
x-axis time 2	t2	s	110
y-axis H/Ho 1	H1/Ho		0.8
y-axis H/Ho 2	H2/Ho		0.23



A	A	2.4
B	B	0.4
C	C	2
2B	2B	0.8

Calculated parameters

H1 (from line fitting)	H1	m	0.7288
H2 (from line fitting)	H2	m	0.20953
Effective radius of well pipe	r_e	m	0.025
L/R	L/R		27.54545
Effective radial distance over which induced head dissipated	Re	m	1.059828

Re fully penetrating

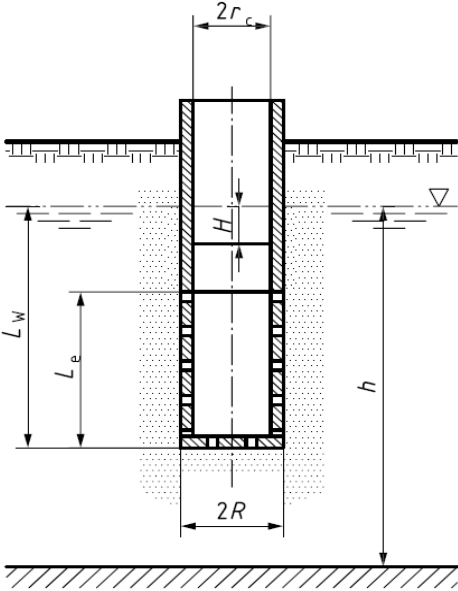
Assume fully penetrating?		No
ln (Re/R) (partially penetrating)	ln (Re/R)	2.265381
ln (Re/R) (fully penetrating)	ln (Re/R)	2.473114
ln (Re/R) (used)	ln (Re/R)	2.265381

Hydraulic conductivity	K	m/s	2.65E-06
		m/d	2.29E-01

Equations used

$$K = \frac{r_e^2 \cdot \ln\left(\frac{Re}{R}\right)}{2 \cdot L} \cdot \frac{1}{(t_2 - t_1)} \cdot \ln\left(\frac{H_1}{H_2}\right) \quad r_e = \sqrt{(1 - n)r_c^2 + nR^2}$$

If L_w is less than h , the saturated thickness of the aquifer, then



APPENDIX 4

Laboratory Certificates



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Soiltechnics Ltd
White Lodge
Cedar Barn
Walgrave
NN6 9PY

Derwentside Environmental Testing Services Ltd
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 22-00385

Site Reference: Rockingham Enterprise Area, Corby

Project / Job Ref: STP3966D

Order No: POR011711

Sample Receipt Date: 17/01/2022

Sample Scheduled Date: 17/01/2022

Report Issue Number: 1

Reporting Date: 24/01/2022

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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.



DETS Ltd
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Water Analysis Certificate						
DETS Report No: 22-00385	Date Sampled	12/01/22	12/01/22	12/01/22	12/01/22	12/01/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.871	BH059.182	BH0613.285	BH0910.583	LG1110.806
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG11
Order No: POR011711	Depth (m)	10.87	9.18	13.28	10.58	10.80
Reporting Date: 24/01/2022	DETS Sample No	582156	582157	582158	582159	582160

Determinand	Unit	RL	Accreditation					
pH	pH Units	N/a	ISO17025	6.8	7.0	7.1	6.9	7.4
Total Cyanide	ug/l	< 5	ISO17025	22	< 5	34	203	115
Complex Cyanide	ug/l	< 5	NONE	22	< 5	34	203	115
Free Cyanide	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Sulphate as SO ₄	mg/l	< 1	ISO17025	2940	1230	1050	1410	690
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	ISO17025	9060	480	6810	43800	585
Ammonia as NH ₄	ug/l	< 50	ISO17025	9060	480	6810	43800	585
Chloride	mg/l	< 1	ISO17025	66	11	135	90	240
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	0.8	< 0.5	< 0.5	< 0.5	109
Nitrite as NO ₂	mg/l	< 0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5	3.8
Phosphate as PO ₄	mg/l	< 1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Fluoride	mg/l	< 0.5	ISO17025	< 0.5	< 0.5	1.1	< 0.5	< 0.5
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	46.1	30.9	27.8	27	21.2
Chemical Oxygen Demand	mg/l	< 5	NONE	33	17	28	42	44
Biological Oxygen Demand	mg/l	< 5	NONE	14	< 5	< 5	< 5	< 5
Total Suspended Solids	mg/l	5	NONE	1450	348	962	579	98
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Antimony (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Arsenic (dissolved)	ug/l	< 5	ISO17025	6	10	46	< 5	< 5
Boron (dissolved)	ug/l	< 5	ISO17025	799	843	3420	2330	1140
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	< 0.4	< 0.4	3.6	< 0.4	< 0.4
Chromium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	31	< 5	< 5
Chromium (hexavalent)	ug/l	< 20	NONE	< 20	< 20	< 20	< 20	< 20
Chromium III	ug/l	< 20	NONE	< 20	< 20	31	< 20	< 20
Copper (dissolved)	ug/l	< 5	ISO17025	15	6	38	8	51
Lead (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	598	6	< 5
Manganese (dissolved)	ug/l	< 5	ISO17025	4740	3980	5130	5610	35
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	ug/l	< 5	ISO17025	21	90	45	7	< 5
Selenium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	20	< 5	< 5
Zinc (dissolved)	ug/l	< 2	ISO17025	39	50	5010	44	129
Magnesium (dissolved)	mg/l	< 0.1	ISO17025	93.7	54.9	65.4	65.2	26.8
Chromium (total)	ug/l	< 5	NONE	31	< 5	21	16	14
Total Phenols (monohydric)	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10

Subcontracted analysis ^(S)

Insufficient sample ^{I/S}

Unsuitable Sample ^{U/S}



DETS Ltd
Unit 1, Rose Lane Industrial Estate
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Maidstone
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Water Analysis Certificate						
DETS Report No: 22-00385	Date Sampled	12/01/22	12/01/22	12/01/22	12/01/22	12/01/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	LG910.247	LL612.264	SW10.008	SW20.009	SW30.0010
Project / Job Ref: STP3966D	Additional Refs	LG9	LL6	SW1	SW2	SW3
Order No: POR011711	Depth (m)	10.24	12.26	0.00	0.00	0.00
Reporting Date: 24/01/2022	DETS Sample No	582161	582162	582163	582164	582165

Determinand	Unit	RL	Accreditation					
pH	pH Units	N/a	ISO17025	8.1	7.2	8.0	8.2	8.2
Total Cyanide	ug/l	< 5	ISO17025	76	< 5	< 5	21	12
Complex Cyanide	ug/l	< 5	NONE	76	< 5	< 5	21	12
Free Cyanide	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Sulphate as SO ₄	mg/l	< 1	ISO17025	703	2120	69	91	76
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	ISO17025	7540	15200	307	220	224
Ammonia as NH ₄	ug/l	< 50	ISO17025	7540	15200	307	220	224
Chloride	mg/l	< 1	ISO17025	26	13	66	74	62
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	6	3.1	18.6	16.2	16
Nitrite as NO ₂	mg/l	< 0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Phosphate as PO ₄	mg/l	< 1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Fluoride	mg/l	< 0.5	ISO17025	5.3	< 0.5	< 0.5	< 0.5	< 0.5
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	25.9	25.7	16.5	15.5	15.3
Chemical Oxygen Demand	mg/l	< 5	NONE	12	19	40	17	16
Biological Oxygen Demand	mg/l	< 5	NONE	< 5	< 5	< 5	< 5	< 5
Total Suspended Solids	mg/l	5	NONE	76	598	201	9	13
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Antimony (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Arsenic (dissolved)	ug/l	< 5	ISO17025	< 5	5	< 5	< 5	< 5
Boron (dissolved)	ug/l	< 5	ISO17025	5330	2170	487	660	549
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	< 0.4	0.5	< 0.4	< 0.4	< 0.4
Chromium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chromium (hexavalent)	ug/l	< 20	NONE	< 20	< 20	< 20	< 20	< 20
Chromium III	ug/l	< 20	NONE	< 20	< 20	< 20	< 20	< 20
Copper (dissolved)	ug/l	< 5	ISO17025	23	40	6	9	22
Lead (dissolved)	ug/l	< 5	ISO17025	< 5	22	< 5	< 5	< 5
Manganese (dissolved)	ug/l	< 5	ISO17025	4700	4110	28	10	13
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	ug/l	< 5	ISO17025	< 5	17	< 5	< 5	< 5
Selenium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Zinc (dissolved)	ug/l	< 2	ISO17025	60	177	22	28	30
Magnesium (dissolved)	mg/l	< 0.1	ISO17025	38.8	84.9	8.8	9.1	8.3
Chromium (total)	ug/l	< 5	NONE	11	14	33	10	10
Total Phenols (monohydric)	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10

Subcontracted analysis ^(S)

Insufficient sample ^{I/S}

Unsuitable Sample ^{U/S}



DETS Ltd
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Water Analysis Certificate - Speciated PAH						
DETS Report No: 22-00385	Date Sampled	12/01/22	12/01/22	12/01/22	12/01/22	12/01/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.871	BH059.182	BH0613.285	BH0910.583	LG1110.806
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG11
Order No: POR011711	Depth (m)	10.87	9.18	13.28	10.58	10.80
Reporting Date: 24/01/2022	DETS Sample No	582156	582157	582158	582159	582160

Determinand	Unit	RL	Accreditation					
Naphthalene	ug/l	< 0.01	NONE	< 0.01	< 0.01	0.01	< 0.01	< 0.01
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	ug/l	< 0.01	NONE	< 0.01	0.01	< 0.01	< 0.01	< 0.01
Pyrene	ug/l	< 0.01	NONE	< 0.01	0.02	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
Total EPA-16 PAHs	ug/l	< 0.16	NONE	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16



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Water Analysis Certificate - Speciated PAH						
DETS Report No: 22-00385	Date Sampled	12/01/22	12/01/22	12/01/22	12/01/22	12/01/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	LG910.247	LL612.264	SW10.008	SW20.009	SW30.0010
Project / Job Ref: STP3966D	Additional Refs	LG9	LL6	SW1	SW2	SW3
Order No: POR011711	Depth (m)	10.24	12.26	0.00	0.00	0.00
Reporting Date: 24/01/2022	DETS Sample No	582161	582162	582163	582164	582165

Determinand	Unit	RL	Accreditation					
Naphthalene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
Total EPA-16 PAHs	ug/l	< 0.16	NONE	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16



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Water Analysis Certificate - TPH CWG Banded

DETS Report No: 22-00385	Date Sampled	12/01/22	12/01/22	12/01/22	12/01/22	12/01/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.871	BH059.182	BH0613.285	BH0910.583	LG1110.806
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG11
Order No: POR011711	Depth (m)	10.87	9.18	13.28	10.58	10.80
Reporting Date: 24/01/2022	DETS Sample No	582156	582157	582158	582159	582160

Determinand	Unit	RL	Accreditation						
Aliphatic >C5 - C6	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C6 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C21 - C34	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70	< 70
Aromatic >C5 - C7	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C7 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C21 - C35	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70	< 70
Total >C5 - C35	ug/l	< 140	NONE	< 140	< 140	< 140	< 140	< 140	< 140



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Kent ME17 2JN
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Water Analysis Certificate - TPH CWG Banded

DETS Report No: 22-00385	Date Sampled	12/01/22	12/01/22	12/01/22	12/01/22	12/01/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	LG910.247	LL612.264	SW10.008	SW20.009	SW30.0010
Project / Job Ref: STP3966D	Additional Refs	LG9	LL6	SW1	SW2	SW3
Order No: POR011711	Depth (m)	10.24	12.26	0.00	0.00	0.00
Reporting Date: 24/01/2022	DETS Sample No	582161	582162	582163	582164	582165

Determinand	Unit	RL	Accreditation						
Aliphatic >C5 - C6	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C6 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C21 - C34	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70	< 70
Aromatic >C5 - C7	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C7 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C21 - C35	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70	< 70
Total >C5 - C35	ug/l	< 140	NONE	< 140	< 140	< 140	< 140	< 140	< 140



DETS Ltd
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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-00385	Date Sampled	12/01/22	12/01/22	12/01/22	12/01/22	12/01/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.871	BH059.182	BH0613.285	BH0910.583	LG1110.806
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG11
Order No: POR011711	Depth (m)	10.87	9.18	13.28	10.58	10.80
Reporting Date: 24/01/2022	DETS Sample No	582156	582157	582158	582159	582160

Determinand	Unit	RL	Accreditation					
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
p & m-xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
o-xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10



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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-00385	Date Sampled	12/01/22	12/01/22	12/01/22	12/01/22	12/01/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	LG910.247	LL612.264	SW10.008	SW20.009	SW30.0010
Project / Job Ref: STP3966D	Additional Refs	LG9	LL6	SW1	SW2	SW3
Order No: POR011711	Depth (m)	10.24	12.26	0.00	0.00	0.00
Reporting Date: 24/01/2022	DETS Sample No	582161	582162	582163	582164	582165

Determinand	Unit	RL	Accreditation					
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
p & m-xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
o-xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10



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Water Analysis Certificate - Volatile Organic Compounds (VOC)

DETS Report No: 22-00385	Date Sampled	12/01/22	12/01/22	12/01/22	12/01/22	12/01/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.871	BH059.182	BH0613.285	BH0910.583	LG1110.806
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG11
Order No: POR011711	Depth (m)	10.87	9.18	13.28	10.58	10.80
Reporting Date: 24/01/2022	DETS Sample No	582156	582157	582158	582159	582160

Determinand	Unit	RL	Accreditation					
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Vinyl Chloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloroform	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Trichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Dibromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
TAME	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Dibromochloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethyl Benzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
m,p-Xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
o-Xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromoform	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Isopropylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
n-Propylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
n-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5



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Water Analysis Certificate - Volatile Organic Compounds (VOC)

DETS Report No: 22-00385	Date Sampled	12/01/22	12/01/22	12/01/22	12/01/22	12/01/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	LG910.247	LL612.264	SW10.008	SW20.009	SW30.0010
Project / Job Ref: STP3966D	Additional Refs	LG9	LL6	SW1	SW2	SW3
Order No: POR011711	Depth (m)	10.24	12.26	0.00	0.00	0.00
Reporting Date: 24/01/2022	DETS Sample No	582161	582162	582163	582164	582165

Determinand	Unit	RL	Accreditation					
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Vinyl Chloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloroform	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Trichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Dibromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
TAME	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Dibromochloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethyl Benzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
m,p-Xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
o-Xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromoform	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Isopropylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
n-Propylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
n-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0410.871
Project / Job Ref: STP3966D		Additional Refs	BH04
Order No: POR011711		Depth (m)	10.87
Reporting Date: 24/01/2022		DETS Sample No	582156

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH059.182
Project / Job Ref: STP3966D		Additional Refs	BH05
Order No: POR011711		Depth (m)	9.18
Reporting Date: 24/01/2022		DETS Sample No	582157

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0613.285
Project / Job Ref: STP3966D		Additional Refs	BH06
Order No: POR011711		Depth (m)	13.28
Reporting Date: 24/01/2022		DETS Sample No	582158

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0910.583
Project / Job Ref: STP3966D		Additional Refs	BH09
Order No: POR011711		Depth (m)	10.58
Reporting Date: 24/01/2022		DETS Sample No	582159

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	LG1110.806
Project / Job Ref: STP3966D		Additional Refs	LG11
Order No: POR011711		Depth (m)	10.80
Reporting Date: 24/01/2022		DETS Sample No	582160

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	LG910.247
Project / Job Ref: STP3966D		Additional Refs	LG9
Order No: POR011711		Depth (m)	10.24
Reporting Date: 24/01/2022		DETS Sample No	582161

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	LL612.264
Project / Job Ref: STP3966D		Additional Refs	LL6
Order No: POR011711		Depth (m)	12.26
Reporting Date: 24/01/2022		DETS Sample No	582162

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



DETS Ltd
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Tel : 01622 850410

Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	SW10.008
Project / Job Ref: STP3966D		Additional Refs	SW1
Order No: POR011711		Depth (m)	0.00
Reporting Date: 24/01/2022		DETS Sample No	582163

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	SW20.009
Project / Job Ref: STP3966D		Additional Refs	SW2
Order No: POR011711		Depth (m)	0.00
Reporting Date: 24/01/2022		DETS Sample No	582164

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	SW30.0010
Project / Job Ref: STP3966D		Additional Refs	SW3
Order No: POR011711		Depth (m)	0.00
Reporting Date: 24/01/2022		DETS Sample No	582165

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)						
DETS Report No: 22-00385	Date Sampled	12/01/22	12/01/22	12/01/22	12/01/22	12/01/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.871	BH059.182	BH0613.285	BH0910.583	LG1110.806
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG11
Order No: POR011711	Depth (m)	10.87	9.18	13.28	10.58	10.80
Reporting Date: 24/01/2022	DETS Sample No	582156	582157	582158	582159	582160

Determinand	Unit	RL	Accreditation					
Phenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
0-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Isophorone	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
p-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Azobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibutyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Carbazole	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)						
DETS Report No: 22-00385	Date Sampled	12/01/22	12/01/22	12/01/22	12/01/22	12/01/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	LG910.247	LL612.264	SW10.008	SW20.009	SW30.0010
Project / Job Ref: STP3966D	Additional Refs	LG9	LL6	SW1	SW2	SW3
Order No: POR011711	Depth (m)	10.24	12.26	0.00	0.00	0.00
Reporting Date: 24/01/2022	DETS Sample No	582161	582162	582163	582164	582165

Determinand	Unit	RL	Accreditation					
Phenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
0-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Isophorone	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
p-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Azobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibutyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Carbazole	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0410.871
Project / Job Ref: STP3966D		Additional Refs	BH04
Order No: POR011711		Depth (m)	10.87
Reporting Date: 24/01/2022		DETS Sample No	582156

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH059.182
Project / Job Ref: STP3966D		Additional Refs	BH05
Order No: POR011711		Depth (m)	9.18
Reporting Date: 24/01/2022		DETS Sample No	582157

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	Benzene, 2,4-dimethyl-1-(phenylmethyl)-	93	µg/l	< 0.1	0.4
2	Benzene, 1-methyl-2-[(3-methylphenyl)methyl]-	95	µg/l	< 0.1	0.2
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0613.285
Project / Job Ref: STP3966D		Additional Refs	BH06
Order No: POR011711		Depth (m)	13.28
Reporting Date: 24/01/2022		DETS Sample No	582158

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0910.583
Project / Job Ref: STP3966D		Additional Refs	BH09
Order No: POR011711		Depth (m)	10.58
Reporting Date: 24/01/2022		DETS Sample No	582159

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	LG1110.806
Project / Job Ref: STP3966D		Additional Refs	LG11
Order No: POR011711		Depth (m)	10.80
Reporting Date: 24/01/2022		DETS Sample No	582160

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene-2,8-dione	97	µg/l	< 0.1	0.5
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	LG910.247
Project / Job Ref: STP3966D		Additional Refs	LG9
Order No: POR011711		Depth (m)	10.24
Reporting Date: 24/01/2022		DETS Sample No	582161

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	LL612.264
Project / Job Ref: STP3966D		Additional Refs	LL6
Order No: POR011711		Depth (m)	12.26
Reporting Date: 24/01/2022		DETS Sample No	582162

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	SW10.008
Project / Job Ref: STP3966D		Additional Refs	SW1
Order No: POR011711		Depth (m)	0.00
Reporting Date: 24/01/2022		DETS Sample No	582163

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	2-Propanol, 1-chloro-, phosphate (3:1)	90	µg/l	< 0.1	0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



DETS Ltd
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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	SW20.009
Project / Job Ref: STP3966D		Additional Refs	SW2
Order No: POR011711		Depth (m)	0.00
Reporting Date: 24/01/2022		DETS Sample No	582164

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	2-Propanol, 1-chloro-, phosphate (3:1)	91	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	SW30.0010
Project / Job Ref: STP3966D		Additional Refs	SW3
Order No: POR011711		Depth (m)	0.00
Reporting Date: 24/01/2022		DETS Sample No	582165

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	Propanoic acid, 2-methyl-, 3-hydroxy-2,2,4-trimethylpentyl ester	90	µg/l	< 0.1	< 0.1
2	2-Propanol, 1-chloro-, phosphate (3:1)	91	µg/l	< 0.1	0.2
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 22-00385

Soiltechnics Ltd

Site Reference: Rockingham Enterprise Area, Corby

Project / Job Ref: STP3966D

Order No: POR011711

Reporting Date: 24/01/2022

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	F	Ammoniacal Nitrogen	Determination of ammoniacal nitrogen by discrete analyser.	E126
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazine followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR detection	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
UF Unfiltered



Lauren Wenham
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Derwentside Environmental Testing Services Ltd
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t: 01622 850410

DETS Report No: 22-01432

Site Reference: Rockingham Enterprise Area, Corby

Project / Job Ref: STP3966D

Order No: POR011918

Sample Receipt Date: 14/02/2022

Sample Scheduled Date: 14/02/2022

Report Issue Number: 1

Reporting Date: 21/02/2022

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Water Analysis Certificate						
DETS Report No: 22-01432	Date Sampled	10/02/22	10/02/22	10/02/22	10/02/22	10/02/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.744	BH059.112	BH0612.986	BH0910.575	LG910.481
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG9
Order No: POR011918	Depth (m)	10.74	9.11	12.98	10.57	10.48
Reporting Date: 21/02/2022	DETS Sample No	586288	586289	586290	586291	586292

Determinand	Unit	RL	Accreditation					
pH	pH Units	N/a	ISO17025	7.1	7.2	7.3	7.1	8.7
Total Cyanide	ug/l	< 5	ISO17025	22	< 5	34	181	50
Complex Cyanide	ug/l	< 5	NONE	22	< 5	34	181	50
Free Cyanide	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Sulphate as SO ₄	mg/l	< 1	ISO17025	3470	1170	1080	1650	538
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	ISO17025	10300	509	10000	40500	1770
Ammonia as NH ₄	ug/l	< 50	ISO17025	10300	509	10000	40500	1770
Chloride	mg/l	< 1	ISO17025	75	10	141	88	19
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	< 0.5	< 0.5	1.7	< 0.5	9.7
Nitrite as NO ₂	mg/l	< 0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5	1.1
Phosphate as PO ₄	mg/l	< 1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Fluoride	mg/l	< 0.5	ISO17025	< 0.5	< 0.5	1.2	< 0.5	6.1
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	48.9	27.4	22.7	20.9	25.1
Chemical Oxygen Demand	mg/l	< 5	NONE	35	16	32	41	15
Biological Oxygen Demand	mg/l	< 5	NONE	< 5	< 5	< 5	< 5	< 5
Total Suspended Solids	mg/l	5	NONE	616	628	736	330	382
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Antimony (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Arsenic (dissolved)	ug/l	< 5	ISO17025	7	8	6	< 5	< 5
Boron (dissolved)	ug/l	< 5	ISO17025	695	534	2430	1960	3780
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	< 0.4	< 0.4	0.4	< 0.4	< 0.4
Chromium (dissolved)	ug/l	< 5	ISO17025	9	< 5	5	< 5	< 5
Chromium (hexavalent)	ug/l	< 20	NONE	< 20	< 20	< 20	< 20	< 20
Chromium III	ug/l	< 20	NONE	< 20	< 20	< 20	< 20	< 20
Copper (dissolved)	ug/l	< 5	ISO17025	< 5	8	6	< 5	< 5
Lead (dissolved)	ug/l	< 5	ISO17025	10	7	57	< 5	< 5
Manganese (dissolved)	ug/l	< 5	ISO17025	4010	2960	1490	5320	3840
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	ug/l	< 5	ISO17025	24	49	15	8	5
Selenium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Zinc (dissolved)	ug/l	< 2	ISO17025	60	32	455	32	54
Magnesium (dissolved)	mg/l	< 0.1	ISO17025	196	107	126	138	72.7
Chromium (total)	ug/l	< 5	NONE	< 5	< 5	6	< 5	9
Total Phenols (monohydric)	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10

Subcontracted analysis ^(S)

Insufficient sample ^{1/S}

Unsuitable Sample ^{U/S}



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Water Analysis Certificate						
DETS Report No: 22-01432	Date Sampled	10/02/22	10/02/22	10/02/22	10/02/22	
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	LL611.933	SW10.007	SW20.008	SW30.009	
Project / Job Ref: STP3966D	Additional Refs	LL6	SW1	SW2	SW3	
Order No: POR011918	Depth (m)	11.93	0.00	0.00	0.00	
Reporting Date: 21/02/2022	DETS Sample No	586293	586294	586295	586296	

Determinand	Unit	RL	Accreditation				
pH	pH Units	N/a	ISO17025	7.2	8.2	8.3	8.3
Total Cyanide	ug/l	< 5	ISO17025	< 5	< 5	8	8
Complex Cyanide	ug/l	< 5	NONE	< 5	< 5	8	8
Free Cyanide	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Sulphate as SO ₄	mg/l	< 1	ISO17025	2070	102	105	107
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	ISO17025	17100	288	178	199
Ammonia as NH ₄	ug/l	< 50	ISO17025	17100	288	178	199
Chloride	mg/l	< 1	ISO17025	12	72	89	78
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	3.3	19.4	17.3	17.9
Nitrite as NO ₂	mg/l	< 0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5
Phosphate as PO ₄	mg/l	< 1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
Fluoride	mg/l	< 0.5	ISO17025	< 0.5	< 0.5	< 0.5	< 0.5
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	20	16.9	15.8	16
Chemical Oxygen Demand	mg/l	< 5	NONE	25	17	14	15
Biological Oxygen Demand	mg/l	< 5	NONE	11	13	< 5	70
Total Suspended Solids	mg/l	5	NONE	349	< 5	6	< 5
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10	< 10	< 10	< 10
Antimony (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Arsenic (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Boron (dissolved)	ug/l	< 5	ISO17025	1860	788	781	726
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	< 0.4	< 0.4	< 0.4	< 0.4
Chromium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Chromium (hexavalent)	ug/l	< 20	NONE	< 20	< 20	< 20	< 20
Chromium III	ug/l	< 20	NONE	< 20	< 20	< 20	< 20
Copper (dissolved)	ug/l	< 5	ISO17025	13	< 5	6	18
Lead (dissolved)	ug/l	< 5	ISO17025	15	< 5	< 5	7
Manganese (dissolved)	ug/l	< 5	ISO17025	3980	59	9	24
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05	< 0.05	0.15	< 0.05
Nickel (dissolved)	ug/l	< 5	ISO17025	16	< 5	< 5	< 5
Selenium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Zinc (dissolved)	ug/l	< 2	ISO17025	111	62	100	120
Magnesium (dissolved)	mg/l	< 0.1	ISO17025	167	21	20.6	20.5
Chromium (total)	ug/l	< 5	NONE	< 5	< 5	9	8
Total Phenols (monohydric)	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10

Subcontracted analysis ^(S)

Insufficient sample ^{1/S}

Unsuitable Sample ^{U/S}



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Water Analysis Certificate - Speciated PAH						
DETS Report No: 22-01432	Date Sampled	10/02/22	10/02/22	10/02/22	10/02/22	10/02/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.744	BH059.112	BH0612.986	BH0910.575	LG910.481
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG9
Order No: POR011918	Depth (m)	10.74	9.11	12.98	10.57	10.48
Reporting Date: 21/02/2022	DETS Sample No	586288	586289	586290	586291	586292

Determinand	Unit	RL	Accreditation					
Naphthalene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	0.01	< 0.01	0.01
Anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	0.02	< 0.01	0.03
Pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	0.02	< 0.01	0.02
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
Total EPA-16 PAHs	ug/l	< 0.16	NONE	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16



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Water Analysis Certificate - Speciated PAH						
DETS Report No: 22-01432	Date Sampled	10/02/22	10/02/22	10/02/22	10/02/22	
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	LL611.933	SW10.007	SW20.008	SW30.009	
Project / Job Ref: STP3966D	Additional Refs	LL6	SW1	SW2	SW3	
Order No: POR011918	Depth (m)	11.93	0.00	0.00	0.00	
Reporting Date: 21/02/2022	DETS Sample No	586293	586294	586295	586296	

Determinand	Unit	RL	Accreditation					
Naphthalene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	
Acenaphthene	ug/l	< 0.01	NONE	< 0.01	0.28	< 0.01	< 0.01	
Fluorene	ug/l	< 0.01	NONE	< 0.01	0.56	< 0.01	< 0.01	
Phenanthrene	ug/l	< 0.01	NONE	< 0.01	0.89	< 0.01	0.01	
Anthracene	ug/l	< 0.01	NONE	< 0.01	0.28	< 0.01	< 0.01	
Fluoranthene	ug/l	< 0.01	NONE	< 0.01	0.47	< 0.01	0.01	
Pyrene	ug/l	< 0.01	NONE	< 0.01	0.30	< 0.01	0.01	
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01	0.04	< 0.01	< 0.01	
Chrysene	ug/l	< 0.01	NONE	< 0.01	0.03	< 0.01	< 0.01	
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008	< 0.008	< 0.008	< 0.008	
Total EPA-16 PAHs	ug/l	< 0.16	NONE	< 0.16	2.85	< 0.16	< 0.16	



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Water Analysis Certificate - TPH CWG Banded

DETS Report No: 22-01432	Date Sampled	10/02/22	10/02/22	10/02/22	10/02/22	10/02/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.744	BH059.112	BH0612.986	BH0910.575	LG910.481
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG9
Order No: POR011918	Depth (m)	10.74	9.11	12.98	10.57	10.48
Reporting Date: 21/02/2022	DETS Sample No	586288	586289	586290	586291	586292

Determinand	Unit	RL	Accreditation						
Aliphatic >C5 - C6	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C6 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C21 - C34	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70	< 70
Aromatic >C5 - C7	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C7 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C21 - C35	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70	< 70
Total >C5 - C35	ug/l	< 140	NONE	< 140	< 140	< 140	< 140	< 140	< 140



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Water Analysis Certificate - TPH CWG Banded

DETS Report No: 22-01432	Date Sampled	10/02/22	10/02/22	10/02/22	10/02/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	LL611.933	SW10.007	SW20.008	SW30.009
Project / Job Ref: STP3966D	Additional Refs	LL6	SW1	SW2	SW3
Order No: POR011918	Depth (m)	11.93	0.00	0.00	0.00
Reporting Date: 21/02/2022	DETS Sample No	586293	586294	586295	586296

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C6 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C21 - C34	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70
Aromatic >C5 - C7	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C7 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C21 - C35	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70
Total >C5 - C35	ug/l	< 140	NONE	< 140	< 140	< 140	< 140	< 140



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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-01432	Date Sampled	10/02/22	10/02/22	10/02/22	10/02/22	10/02/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.744	BH059.112	BH0612.986	BH0910.575	LG910.481
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG9
Order No: POR011918	Depth (m)	10.74	9.11	12.98	10.57	10.48
Reporting Date: 21/02/2022	DETS Sample No	586288	586289	586290	586291	586292

Determinand	Unit	RL	Accreditation					
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
p & m-xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
o-xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10



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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-01432	Date Sampled	10/02/22	10/02/22	10/02/22	10/02/22	
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	LL611.933	SW10.007	SW20.008	SW30.009	
Project / Job Ref: STP3966D	Additional Refs	LL6	SW1	SW2	SW3	
Order No: POR011918	Depth (m)	11.93	0.00	0.00	0.00	
Reporting Date: 21/02/2022	DETS Sample No	586293	586294	586295	586296	

Determinand	Unit	RL	Accreditation					
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	
Ethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	
p & m-xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	
o-xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	



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Water Analysis Certificate - Volatile Organic Compounds (VOC)						
DETS Report No: 22-01432	Date Sampled	10/02/22	10/02/22	10/02/22	10/02/22	10/02/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.744	BH059.112	BH0612.986	BH0910.575	LG910.481
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG9
Order No: POR011918	Depth (m)	10.74	9.11	12.98	10.57	10.48
Reporting Date: 21/02/2022	DETS Sample No	586288	586289	586290	586291	586292

Determinand	Unit	RL	Accreditation					
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Vinyl Chloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloroform	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Trichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Dibromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
TAME	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Dibromochloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethyl Benzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
m,p-Xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
o-Xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromoform	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Isopropylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
n-Propylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
n-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5



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Water Analysis Certificate - Volatile Organic Compounds (VOC)

DETS Report No: 22-01432	Date Sampled	10/02/22	10/02/22	10/02/22	10/02/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	LL611.933	SW10.007	SW20.008	SW30.009
Project / Job Ref: STP3966D	Additional Refs	LL6	SW1	SW2	SW3
Order No: POR011918	Depth (m)	11.93	0.00	0.00	0.00
Reporting Date: 21/02/2022	DETS Sample No	586293	586294	586295	586296

Determinand	Unit	RL	Accreditation				
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Vinyl Chloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Chloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Chloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Bromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Chloroform	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Bromochloromethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Trichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Bromodichloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Dibromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
TAME	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Tetrachloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Dibromochloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Chlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Ethyl Benzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
m,p-Xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
o-Xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Bromoform	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
Isopropylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
n-Propylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Bromobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
n-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0410.744
Project / Job Ref: STP3966D		Additional Refs	BH04
Order No: POR011918		Depth (m)	10.74
Reporting Date: 21/02/2022		DETS Sample No	586288

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH059.112
Project / Job Ref: STP3966D		Additional Refs	BH05
Order No: POR011918		Depth (m)	9.11
Reporting Date: 21/02/2022		DETS Sample No	586289

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0612.986
Project / Job Ref: STP3966D		Additional Refs	BH06
Order No: POR011918		Depth (m)	12.98
Reporting Date: 21/02/2022		DETS Sample No	586290

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0910.575
Project / Job Ref: STP3966D		Additional Refs	BH09
Order No: POR011918		Depth (m)	10.57
Reporting Date: 21/02/2022		DETS Sample No	586291

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	LG910.481
Project / Job Ref: STP3966D		Additional Refs	LG9
Order No: POR011918		Depth (m)	10.48
Reporting Date: 21/02/2022		DETS Sample No	586292

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Tel : 01622 850410

Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	LL611.933
Project / Job Ref: STP3966D		Additional Refs	LL6
Order No: POR011918		Depth (m)	11.93
Reporting Date: 21/02/2022		DETS Sample No	586293

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	SW10.007
Project / Job Ref: STP3966D		Additional Refs	SW1
Order No: POR011918		Depth (m)	0.00
Reporting Date: 21/02/2022		DETS Sample No	586294

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	SW20.008
Project / Job Ref: STP3966D		Additional Refs	SW2
Order No: POR011918		Depth (m)	0.00
Reporting Date: 21/02/2022		DETS Sample No	586295

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	SW30.009
Project / Job Ref: STP3966D		Additional Refs	SW3
Order No: POR011918		Depth (m)	0.00
Reporting Date: 21/02/2022		DETS Sample No	586296

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)						
DETS Report No: 22-01432	Date Sampled	10/02/22	10/02/22	10/02/22	10/02/22	10/02/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.744	BH059.112	BH0612.986	BH0910.575	LG910.481
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG9
Order No: POR011918	Depth (m)	10.74	9.11	12.98	10.57	10.48
Reporting Date: 21/02/2022	DETS Sample No	586288	586289	586290	586291	586292

Determinand	Unit	RL	Accreditation					
Phenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
0-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Isophorone	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
p-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Azobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibutyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Carbazole	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)						
DETS Report No: 22-01432	Date Sampled	10/02/22	10/02/22	10/02/22	10/02/22	
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	LL611.933	SW10.007	SW20.008	SW30.009	
Project / Job Ref: STP3966D	Additional Refs	LL6	SW1	SW2	SW3	
Order No: POR011918	Depth (m)	11.93	0.00	0.00	0.00	
Reporting Date: 21/02/2022	DETS Sample No	586293	586294	586295	586296	

Determinand	Unit	RL	Accreditation					
Phenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
0-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Isophorone	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
p-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1	0.1	< 0.1	< 0.1	
Azobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Dibutyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Carbazole	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0410.744
Project / Job Ref: STP3966D		Additional Refs	BH04
Order No: POR011918		Depth (m)	10.74
Reporting Date: 21/02/2022		DETS Sample No	586288

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH059.112
Project / Job Ref: STP3966D		Additional Refs	BH05
Order No: POR011918		Depth (m)	9.11
Reporting Date: 21/02/2022		DETS Sample No	586289

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0612.986
Project / Job Ref: STP3966D		Additional Refs	BH06
Order No: POR011918		Depth (m)	12.98
Reporting Date: 21/02/2022		DETS Sample No	586290

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0910.575
Project / Job Ref: STP3966D		Additional Refs	BH09
Order No: POR011918		Depth (m)	10.57
Reporting Date: 21/02/2022		DETS Sample No	586291

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	LG910.481
Project / Job Ref: STP3966D		Additional Refs	LG9
Order No: POR011918		Depth (m)	10.48
Reporting Date: 21/02/2022		DETS Sample No	586292

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	LL611.933
Project / Job Ref: STP3966D		Additional Refs	LL6
Order No: POR011918		Depth (m)	11.93
Reporting Date: 21/02/2022		DETS Sample No	586293

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	SW10.007
Project / Job Ref: STP3966D		Additional Refs	SW1
Order No: POR011918		Depth (m)	0.00
Reporting Date: 21/02/2022		DETS Sample No	586294

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	Naphthalene, 2,3,6-trimethyl-	98	µg/l	< 0.1	0.8
2	Dibenzothiophene, 3-methyl-	94	µg/l	< 0.1	0.4
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	SW20.008
Project / Job Ref: STP3966D		Additional Refs	SW2
Order No: POR011918		Depth (m)	0.00
Reporting Date: 21/02/2022		DETS Sample No	586295

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	SW30.009
Project / Job Ref: STP3966D		Additional Refs	SW3
Order No: POR011918		Depth (m)	0.00
Reporting Date: 21/02/2022		DETS Sample No	586296

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No: 22-01432	
Soiltechnics Ltd	
Site Reference: Rockingham Enterprise Area, Corby	
Project / Job Ref: STP3966D	
Order No: POR011918	
Reporting Date: 21/02/2022	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	F	Ammoniacal Nitrogen	Determination of ammoniacal nitrogen by discrete analyser.	E126
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazine followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR dete	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GI-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
UF Unfiltered



Alexa Band
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NN6 9PY

Derwentside Environmental Testing Services Ltd
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DETS Report No: 22-02424

Site Reference: Rockingham Enterprise Are, Corby

Project / Job Ref: STP3966D

Order No: POR012105

Sample Receipt Date: 14/03/2022

Sample Scheduled Date: 14/03/2022

Report Issue Number: 1

Reporting Date: 21/03/2022

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Water Analysis Certificate						
DETS Report No: 22-02424	Date Sampled	10/03/22	10/03/22	10/03/22	10/03/22	10/03/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	BH0410.339	BH058.937	BH0613.248	BH0910.195	LG1110.181
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG11
Order No: POR012105	Depth (m)	10.33	8.93	13.24	10.19	10.18
Reporting Date: 21/03/2022	DETS Sample No	590218	590219	590220	590221	590222

Determinand	Unit	RL	Accreditation					
pH	pH Units	N/a	ISO17025	7.1	7.1	7.2	7.0	7.3
Total Cyanide	ug/l	< 5	ISO17025	34	< 5	31	211	122
Complex Cyanide	ug/l	< 5	NONE	34	< 5	31	211	122
Free Cyanide	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Sulphate as SO ₄	mg/l	< 1	ISO17025	5570	1210	1060	1640	633
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	ISO17025	12000	529	10300	49700	269
Ammonia as NH ₄	ug/l	< 50	ISO17025	12000	529	10300	49700	269
Chloride	mg/l	< 1	ISO17025	102	11	139	87	242
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	< 0.5	< 0.5	1.1	< 0.5	267
Nitrite as NO ₂	mg/l	< 0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5	4.5
Phosphate as PO ₄	mg/l	< 1	NONE	1.2	< 1.0	< 1.0	< 1.0	< 1.0
Fluoride	mg/l	< 0.5	ISO17025	< 0.5	< 0.5	0.7	< 0.5	< 0.5
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	19	12.4	11.8	13.7	10.7
Chemical Oxygen Demand	mg/l	< 5	NONE	36	16	20	43	41
Biological Oxygen Demand	mg/l	< 5	NONE	< 5	< 5	< 5	< 5	< 5
Total Suspended Solids	mg/l	5	NONE	41800	8040	246	6190	128
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Antimony (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Arsenic (dissolved)	ug/l	< 5	ISO17025	7	7	8	< 5	< 5
Boron (dissolved)	ug/l	< 5	ISO17025	788	730	3130	2730	1590
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Chromium (dissolved)	ug/l	< 5	ISO17025	10	< 5	7	< 5	< 5
Chromium (hexavalent)	ug/l	< 20	NONE	< 20	< 20	< 20	< 20	< 20
Chromium III	ug/l	< 20	NONE	< 20	< 20	< 20	< 20	< 20
Copper (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	7	< 5	18
Lead (dissolved)	ug/l	< 5	ISO17025	7	< 5	80	< 5	< 5
Manganese (dissolved)	ug/l	< 5	ISO17025	6300	3540	2650	5190	58
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	ug/l	< 5	ISO17025	27	40	18	8	< 5
Selenium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Zinc (dissolved)	ug/l	< 2	ISO17025	64	20	529	27	48
Magnesium (dissolved)	mg/l	< 0.1	ISO17025	142	67.8	68.7	71.3	28
Chromium (total)	ug/l	< 5	NONE	< 5	6	6	< 5	8
Total Phenols (monohydric)	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10

Subcontracted analysis ^(S)

Insufficient sample ^{1/S}

Unsuitable Sample ^{u/S}



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Water Analysis Certificate						
DETS Report No: 22-02424	Date Sampled	10/03/22	10/03/22	10/03/22	10/03/22	10/03/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	LG78.754	LG99.912	LL611.746	SW10.0010	SW20.0011
Project / Job Ref: STP3966D	Additional Refs	LG7	LG9	LL6	SW1	SW2
Order No: POR012105	Depth (m)	8.75	9.91	11.74	0.00	0.00
Reporting Date: 21/03/2022	DETS Sample No	590223	590224	590225	590226	590227

Determinand	Unit	RL	Accreditation					
pH	pH Units	N/a	ISO17025	6.8	7.5	7.2	8.0	8.2
Total Cyanide	ug/l	< 5	ISO17025	209	97	6	7	7
Complex Cyanide	ug/l	< 5	NONE	209	97	6	7	7
Free Cyanide	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Sulphate as SO ₄	mg/l	< 1	ISO17025	2180	1440	2090	102	102
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	ISO17025	639	22500	15500	263	210
Ammonia as NH ₄	ug/l	< 50	ISO17025	639	22500	15500	263	210
Chloride	mg/l	< 1	ISO17025	220	40	12	75	77
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	1.7	2.6	1.6	2.9	5
Nitrite as NO ₂	mg/l	< 0.5	NONE	< 0.5	< 0.5	< 0.5	0.9	< 0.5
Phosphate as PO ₄	mg/l	< 1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Fluoride	mg/l	< 0.5	ISO17025	< 0.5	1.8	< 0.5	< 0.5	< 0.5
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	12.7	11.2	8.3	9.1	9
Chemical Oxygen Demand	mg/l	< 5	NONE	36	25	28	24	22
Biological Oxygen Demand	mg/l	< 5	NONE	< 5	< 5	< 5	< 5	< 5
Total Suspended Solids	mg/l	5	NONE	10200	1910	4990	8	6
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Antimony (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Arsenic (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Boron (dissolved)	ug/l	< 5	ISO17025	2010	4810	2520	443	729
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Chromium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chromium (hexavalent)	ug/l	< 20	NONE	< 20	< 20	< 20	< 20	< 20
Chromium III	ug/l	< 20	NONE	< 20	< 20	< 20	< 20	< 20
Copper (dissolved)	ug/l	< 5	ISO17025	9	29	22	< 5	5
Lead (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	16	< 5	< 5
Manganese (dissolved)	ug/l	< 5	ISO17025	1240	10000	4380	305	38
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	ug/l	< 5	ISO17025	7	10	20	< 5	< 5
Selenium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Zinc (dissolved)	ug/l	< 2	ISO17025	56	64	105	44	107
Magnesium (dissolved)	mg/l	< 0.1	ISO17025	207	60.9	97.6	11.7	10.5
Chromium (total)	ug/l	< 5	NONE	< 5	< 5	< 5	< 5	< 5
Total Phenols (monohydric)	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10

Subcontracted analysis ^(S)

Insufficient sample ^{1/S}

Unsuitable Sample ^{U/S}



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Water Analysis Certificate						
DETS Report No: 22-02424	Date Sampled	10/03/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	SW30.003				
Project / Job Ref: STP3966D	Additional Refs	SW3				
Order No: POR012105	Depth (m)	0.00				
Reporting Date: 21/03/2022	DETS Sample No	590228				

Determinand	Unit	RL	Accreditation				
pH	pH Units	N/a	ISO17025	8.1			
Total Cyanide	ug/l	< 5	ISO17025	9			
Complex Cyanide	ug/l	< 5	NONE	9			
Free Cyanide	ug/l	< 5	ISO17025	< 5			
Sulphate as SO ₄	mg/l	< 1	ISO17025	104			
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	ISO17025	231			
Ammonia as NH ₄	ug/l	< 50	ISO17025	231			
Chloride	mg/l	< 1	ISO17025	80			
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	5.1			
Nitrite as NO ₂	mg/l	< 0.5	NONE	< 0.5			
Phosphate as PO ₄	mg/l	< 1	NONE	< 1.0			
Fluoride	mg/l	< 0.5	ISO17025	< 0.5			
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	9.1			
Chemical Oxygen Demand	mg/l	< 5	NONE	24			
Biological Oxygen Demand	mg/l	< 5	NONE	< 5			
Total Suspended Solids	mg/l	5	NONE	8			
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10			
Antimony (dissolved)	ug/l	< 5	ISO17025	< 5			
Arsenic (dissolved)	ug/l	< 5	ISO17025	< 5			
Boron (dissolved)	ug/l	< 5	ISO17025	371			
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	< 0.4			
Chromium (dissolved)	ug/l	< 5	ISO17025	< 5			
Chromium (hexavalent)	ug/l	< 20	NONE	< 20			
Chromium III	ug/l	< 20	NONE	< 20			
Copper (dissolved)	ug/l	< 5	ISO17025	8			
Lead (dissolved)	ug/l	< 5	ISO17025	< 5			
Manganese (dissolved)	ug/l	< 5	ISO17025	81			
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05			
Nickel (dissolved)	ug/l	< 5	ISO17025	< 5			
Selenium (dissolved)	ug/l	< 5	ISO17025	< 5			
Zinc (dissolved)	ug/l	< 2	ISO17025	109			
Magnesium (dissolved)	mg/l	< 0.1	ISO17025	11			
Chromium (total)	ug/l	< 5	NONE	< 5			
Total Phenols (monohydric)	ug/l	< 10	ISO17025	< 10			

Subcontracted analysis ^(S)

Insufficient sample ^{1/S}

Unsuitable Sample ^{U/S}



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Water Analysis Certificate - Speciated PAH						
DETS Report No: 22-02424	Date Sampled	10/03/22	10/03/22	10/03/22	10/03/22	10/03/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	BH0410.339	BH058.937	BH0613.248	BH0910.195	LG1110.181
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG11
Order No: POR012105	Depth (m)	10.33	8.93	13.24	10.19	10.18
Reporting Date: 21/03/2022	DETS Sample No	590218	590219	590220	590221	590222

Determinand	Unit	RL	Accreditation					
Naphthalene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	ug/l	< 0.01	NONE	0.02	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	ug/l	< 0.01	NONE	0.02	0.04	0.01	< 0.01	< 0.01
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
Total EPA-16 PAHs	ug/l	< 0.16	NONE	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16



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Water Analysis Certificate - Speciated PAH						
DETS Report No: 22-02424	Date Sampled	10/03/22	10/03/22	10/03/22	10/03/22	10/03/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	LG78.754	LG99.912	LL611.746	SW10.0010	SW20.0011
Project / Job Ref: STP3966D	Additional Refs	LG7	LG9	LL6	SW1	SW2
Order No: POR012105	Depth (m)	8.75	9.91	11.74	0.00	0.00
Reporting Date: 21/03/2022	DETS Sample No	590223	590224	590225	590226	590227

Determinand	Unit	RL	Accreditation					
Naphthalene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	0.04	< 0.01	< 0.01
Anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	ug/l	< 0.01	NONE	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	ug/l	< 0.01	NONE	0.01	0.01	0.02	< 0.01	0.01
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
Total EPA-16 PAHs	ug/l	< 0.16	NONE	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16



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Water Analysis Certificate - Speciated PAH						
DETS Report No: 22-02424	Date Sampled	10/03/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	SW30.003				
Project / Job Ref: STP3966D	Additional Refs	SW3				
Order No: POR012105	Depth (m)	0.00				
Reporting Date: 21/03/2022	DETS Sample No	590228				

Determinand	Unit	RL	Accreditation				
Naphthalene	ug/l	< 0.01	NONE	< 0.01			
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01			
Acenaphthene	ug/l	< 0.01	NONE	< 0.01			
Fluorene	ug/l	< 0.01	NONE	< 0.01			
Phenanthrene	ug/l	< 0.01	NONE	< 0.01			
Anthracene	ug/l	< 0.01	NONE	< 0.01			
Fluoranthene	ug/l	< 0.01	NONE	< 0.01			
Pyrene	ug/l	< 0.01	NONE	< 0.01			
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01			
Chrysene	ug/l	< 0.01	NONE	< 0.01			
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01			
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01			
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01			
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01			
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01			
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008			
Total EPA-16 PAHs	ug/l	< 0.16	NONE	< 0.16			



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Water Analysis Certificate - TPH CWG Banded

DETS Report No: 22-02424	Date Sampled	10/03/22	10/03/22	10/03/22	10/03/22	10/03/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	BH0410.339	BH058.937	BH0613.248	BH0910.195	LG1110.181
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG11
Order No: POR012105	Depth (m)	10.33	8.93	13.24	10.19	10.18
Reporting Date: 21/03/2022	DETS Sample No	590218	590219	590220	590221	590222

Determinand	Unit	RL	Accreditation						
Aliphatic >C5 - C6	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C6 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C21 - C34	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70	< 70
Aromatic >C5 - C7	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C7 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C21 - C35	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70	< 70
Total >C5 - C35	ug/l	< 140	NONE	< 140	< 140	< 140	< 140	< 140	< 140



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Water Analysis Certificate - TPH CWG Banded

DETS Report No: 22-02424	Date Sampled	10/03/22	10/03/22	10/03/22	10/03/22	10/03/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	LG78.754	LG99.912	LL611.746	SW10.0010	SW20.0011
Project / Job Ref: STP3966D	Additional Refs	LG7	LG9	LL6	SW1	SW2
Order No: POR012105	Depth (m)	8.75	9.91	11.74	0.00	0.00
Reporting Date: 21/03/2022	DETS Sample No	590223	590224	590225	590226	590227

Determinand	Unit	RL	Accreditation						
Aliphatic >C5 - C6	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C6 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	16	< 10	< 10	< 10
Aliphatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	47	< 10	< 10	< 10
Aliphatic >C21 - C34	ug/l	< 10	NONE	< 10	< 10	14	< 10	< 10	< 10
Aliphatic (C5 - C34)	ug/l	< 70	NONE	< 70	< 70	77	< 70	< 70	< 70
Aromatic >C5 - C7	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C7 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	18	< 10	< 10	< 10
Aromatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	47	< 10	< 10	< 10
Aromatic >C21 - C35	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70	< 70
Total >C5 - C35	ug/l	< 140	NONE	< 140	< 140	143	< 140	< 140	< 140



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Water Analysis Certificate - TPH CWG Banded						
DETS Report No: 22-02424	Date Sampled	10/03/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	SW30.003				
Project / Job Ref: STP3966D	Additional Refs	SW3				
Order No: POR012105	Depth (m)	0.00				
Reporting Date: 21/03/2022	DETS Sample No	590228				

Determinand	Unit	RL	Accreditation				
Aliphatic >C5 - C6	ug/l	< 10	NONE	< 10			
Aliphatic >C6 - C8	ug/l	< 10	NONE	< 10			
Aliphatic >C8 - C10	ug/l	< 10	NONE	< 10			
Aliphatic >C10 - C12	ug/l	< 10	NONE	< 10			
Aliphatic >C12 - C16	ug/l	< 10	NONE	< 10			
Aliphatic >C16 - C21	ug/l	< 10	NONE	< 10			
Aliphatic >C21 - C34	ug/l	< 10	NONE	< 10			
Aliphatic (C5 - C34)	ug/l	< 70	NONE	< 70			
Aromatic >C5 - C7	ug/l	< 10	NONE	< 10			
Aromatic >C7 - C8	ug/l	< 10	NONE	< 10			
Aromatic >C8 - C10	ug/l	< 10	NONE	< 10			
Aromatic >C10 - C12	ug/l	< 10	NONE	< 10			
Aromatic >C12 - C16	ug/l	< 10	NONE	< 10			
Aromatic >C16 - C21	ug/l	< 10	NONE	< 10			
Aromatic >C21 - C35	ug/l	< 10	NONE	< 10			
Aromatic (C5 - C35)	ug/l	< 70	NONE	< 70			
Total >C5 - C35	ug/l	< 140	NONE	< 140			



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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-02424	Date Sampled	10/03/22	10/03/22	10/03/22	10/03/22	10/03/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	BH0410.339	BH058.937	BH0613.248	BH0910.195	LG1110.181
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG11
Order No: POR012105	Depth (m)	10.33	8.93	13.24	10.19	10.18
Reporting Date: 21/03/2022	DETS Sample No	590218	590219	590220	590221	590222

Determinand	Unit	RL	Accreditation					
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
p & m-xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
o-xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10



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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-02424	Date Sampled	10/03/22	10/03/22	10/03/22	10/03/22	10/03/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	LG78.754	LG99.912	LL611.746	SW10.0010	SW20.0011
Project / Job Ref: STP3966D	Additional Refs	LG7	LG9	LL6	SW1	SW2
Order No: POR012105	Depth (m)	8.75	9.91	11.74	0.00	0.00
Reporting Date: 21/03/2022	DETS Sample No	590223	590224	590225	590226	590227

Determinand	Unit	RL	Accreditation					
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
p & m-xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
o-xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10



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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-02424	Date Sampled	10/03/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	SW30.003				
Project / Job Ref: STP3966D	Additional Refs	SW3				
Order No: POR012105	Depth (m)	0.00				
Reporting Date: 21/03/2022	DETS Sample No	590228				

Determinand	Unit	RL	Accreditation				
Benzene	ug/l	< 1	ISO17025	< 1			
Toluene	ug/l	< 5	ISO17025	< 5			
Ethylbenzene	ug/l	< 5	ISO17025	< 5			
p & m-xylene	ug/l	< 10	ISO17025	< 10			
o-xylene	ug/l	< 5	ISO17025	< 5			
MTBE	ug/l	< 10	ISO17025	< 10			



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Water Analysis Certificate - Volatile Organic Compounds (VOC)						
DETS Report No: 22-02424	Date Sampled	10/03/22	10/03/22	10/03/22	10/03/22	10/03/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	BH0410.339	BH058.937	BH0613.248	BH0910.195	LG1110.181
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG11
Order No: POR012105	Depth (m)	10.33	8.93	13.24	10.19	10.18
Reporting Date: 21/03/2022	DETS Sample No	590218	590219	590220	590221	590222

Determinand	Unit	RL	Accreditation					
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Vinyl Chloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloroform	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Trichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Dibromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
TAME	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Dibromochloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethyl Benzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
m,p-Xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
o-Xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromoform	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Isopropylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
n-Propylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
n-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5



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Water Analysis Certificate - Volatile Organic Compounds (VOC)						
DETS Report No: 22-02424	Date Sampled	10/03/22	10/03/22	10/03/22	10/03/22	10/03/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	LG78.754	LG99.912	LL611.746	SW10.0010	SW20.0011
Project / Job Ref: STP3966D	Additional Refs	LG7	LG9	LL6	SW1	SW2
Order No: POR012105	Depth (m)	8.75	9.91	11.74	0.00	0.00
Reporting Date: 21/03/2022	DETS Sample No	590223	590224	590225	590226	590227

Determinand	Unit	RL	Accreditation					
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Vinyl Chloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloroform	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Trichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Dibromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
TAME	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Dibromochloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethyl Benzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
m,p-Xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
o-Xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromoform	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Isopropylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
n-Propylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
n-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5



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Water Analysis Certificate - Volatile Organic Compounds (VOC)

DETS Report No: 22-02424	Date Sampled	10/03/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	SW30.003				
Project / Job Ref: STP3966D	Additional Refs	SW3				
Order No: POR012105	Depth (m)	0.00				
Reporting Date: 21/03/2022	DETS Sample No	590228				

Determinand	Unit	RL	Accreditation				
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5			
Vinyl Chloride	ug/l	< 5	ISO17025	< 5			
Chloromethane	ug/l	< 5	ISO17025	< 5			
Chloroethane	ug/l	< 5	ISO17025	< 5			
Bromomethane	ug/l	< 5	ISO17025	< 5			
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5			
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5			
MTBE	ug/l	< 10	ISO17025	< 10			
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5			
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5			
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5			
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5			
Chloroform	ug/l	< 5	ISO17025	< 5			
Bromochloromethane	ug/l	< 10	ISO17025	< 10			
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5			
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5			
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5			
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10			
Benzene	ug/l	< 1	ISO17025	< 1			
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5			
Trichloroethene	ug/l	< 5	ISO17025	< 5			
Bromodichloromethane	ug/l	< 5	ISO17025	< 5			
Dibromomethane	ug/l	< 5	ISO17025	< 5			
TAME	ug/l	< 5	ISO17025	< 5			
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5			
Toluene	ug/l	< 5	ISO17025	< 5			
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5			
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10			
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5			
Tetrachloroethene	ug/l	< 5	ISO17025	< 5			
Dibromochloromethane	ug/l	< 5	ISO17025	< 5			
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5			
Chlorobenzene	ug/l	< 5	ISO17025	< 5			
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5			
Ethyl Benzene	ug/l	< 5	ISO17025	< 5			
m,p-Xylene	ug/l	< 10	ISO17025	< 10			
o-Xylene	ug/l	< 5	ISO17025	< 5			
Styrene	ug/l	< 5	ISO17025	< 5			
Bromoform	ug/l	< 10	ISO17025	< 10			
Isopropylbenzene	ug/l	< 5	ISO17025	< 5			
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10			
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5			
n-Propylbenzene	ug/l	< 5	ISO17025	< 5			
Bromobenzene	ug/l	< 5	ISO17025	< 5			
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5			
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5			
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5			
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5			
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5			
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5			
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5			
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5			
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5			
n-Butylbenzene	ug/l	< 5	ISO17025	< 5			
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5			
,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10			
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5			



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	BH0410.339
Project / Job Ref: STP3966D		Additional Refs	BH04
Order No: POR012105		Depth (m)	10.33
Reporting Date: 21/03/2022		DETS Sample No	590218

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	BH058.937
Project / Job Ref: STP3966D		Additional Refs	BH05
Order No: POR012105		Depth (m)	8.93
Reporting Date: 21/03/2022		DETS Sample No	590219

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	BH0613.248
Project / Job Ref: STP3966D		Additional Refs	BH06
Order No: POR012105		Depth (m)	13.24
Reporting Date: 21/03/2022		DETS Sample No	590220

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	BH0910.195
Project / Job Ref: STP3966D		Additional Refs	BH09
Order No: POR012105		Depth (m)	10.19
Reporting Date: 21/03/2022		DETS Sample No	590221

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	LG1110.181
Project / Job Ref: STP3966D		Additional Refs	LG11
Order No: POR012105		Depth (m)	10.18
Reporting Date: 21/03/2022		DETS Sample No	590222

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	LG78.754
Project / Job Ref: STP3966D		Additional Refs	LG7
Order No: POR012105		Depth (m)	8.75
Reporting Date: 21/03/2022		DETS Sample No	590223

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	LG99.912
Project / Job Ref: STP3966D		Additional Refs	LG9
Order No: POR012105		Depth (m)	9.91
Reporting Date: 21/03/2022		DETS Sample No	590224

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	LL611.746
Project / Job Ref: STP3966D		Additional Refs	LL6
Order No: POR012105		Depth (m)	11.74
Reporting Date: 21/03/2022		DETS Sample No	590225

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	SW10.0010
Project / Job Ref: STP3966D		Additional Refs	SW1
Order No: POR012105		Depth (m)	0.00
Reporting Date: 21/03/2022		DETS Sample No	590226

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	SW20.0011
Project / Job Ref: STP3966D		Additional Refs	SW2
Order No: POR012105		Depth (m)	0.00
Reporting Date: 21/03/2022		DETS Sample No	590227

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	SW30.003
Project / Job Ref: STP3966D		Additional Refs	SW3
Order No: POR012105		Depth (m)	0.00
Reporting Date: 21/03/2022		DETS Sample No	590228

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)

DETS Report No: 22-02424	Date Sampled	10/03/22	10/03/22	10/03/22	10/03/22	10/03/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	BH0410.339	BH058.937	BH0613.248	BH0910.195	LG1110.181
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG11
Order No: POR012105	Depth (m)	10.33	8.93	13.24	10.19	10.18
Reporting Date: 21/03/2022	DETS Sample No	590218	590219	590220	590221	590222

Determinand	Unit	RL	Accreditation					
Phenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
0-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Isophorone	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
p-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	0.1
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Azobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibutyl phthalate	ug/l	< 0.1	NONE	0.3	< 0.1	0.1	0.3	0.2
Carbazole	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	0.2	< 0.1	< 0.1	< 0.1	0.1
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)						
DETS Report No: 22-02424	Date Sampled	10/03/22	10/03/22	10/03/22	10/03/22	10/03/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	LG78.754	LG99.912	LL611.746	SW10.0010	SW20.0011
Project / Job Ref: STP3966D	Additional Refs	LG7	LG9	LL6	SW1	SW2
Order No: POR012105	Depth (m)	8.75	9.91	11.74	0.00	0.00
Reporting Date: 21/03/2022	DETS Sample No	590223	590224	590225	590226	590227

Determinand	Unit	RL	Accreditation					
Phenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
0-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Isophorone	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
p-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Azobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibutyl phthalate	ug/l	< 0.1	NONE	0.3	0.3	0.2	0.3	0.3
Carbazole	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)

DETS Report No: 22-02424	Date Sampled	10/03/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	SW30.003				
Project / Job Ref: STP3966D	Additional Refs	SW3				
Order No: POR012105	Depth (m)	0.00				
Reporting Date: 21/03/2022	DETS Sample No	590228				

Determinand	Unit	RL	Accreditation				
Phenol	ug/l	< 0.1	NONE	< 0.1			
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1			
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1			
0-Cresol	ug/l	< 0.1	NONE	< 0.1			
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1			
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1			
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1			
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1			
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1			
Isophorone	ug/l	< 0.1	NONE	< 0.1			
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1			
p-Cresol	ug/l	< 0.1	NONE	< 0.1			
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1			
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1			
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1			
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1			
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1			
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1			
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1			
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1			
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1			
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1			
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1			
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1			
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1			
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1			
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1			
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1			
Azobenzene	ug/l	< 0.1	NONE	< 0.1			
Dibutyl phthalate	ug/l	< 0.1	NONE	0.2			
Carbazole	ug/l	< 0.1	NONE	< 0.1			
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	0.1			
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1			
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1			



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	BH0410.339
Project / Job Ref: STP3966D		Additional Refs	BH04
Order No: POR012105		Depth (m)	10.33
Reporting Date: 21/03/2022		DETS Sample No	590218

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	BH058.937
Project / Job Ref: STP3966D		Additional Refs	BH05
Order No: POR012105		Depth (m)	8.93
Reporting Date: 21/03/2022		DETS Sample No	590219

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	BH0613.248
Project / Job Ref: STP3966D		Additional Refs	BH06
Order No: POR012105		Depth (m)	13.24
Reporting Date: 21/03/2022		DETS Sample No	590220

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	BH0910.195
Project / Job Ref: STP3966D		Additional Refs	BH09
Order No: POR012105		Depth (m)	10.19
Reporting Date: 21/03/2022		DETS Sample No	590221

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	LG1110.181
Project / Job Ref: STP3966D		Additional Refs	LG11
Order No: POR012105		Depth (m)	10.18
Reporting Date: 21/03/2022		DETS Sample No	590222

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	LG78.754
Project / Job Ref: STP3966D		Additional Refs	LG7
Order No: POR012105		Depth (m)	8.75
Reporting Date: 21/03/2022		DETS Sample No	590223

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	LG99.912
Project / Job Ref: STP3966D		Additional Refs	LG9
Order No: POR012105		Depth (m)	9.91
Reporting Date: 21/03/2022		DETS Sample No	590224

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	LL611.746
Project / Job Ref: STP3966D		Additional Refs	LL6
Order No: POR012105		Depth (m)	11.74
Reporting Date: 21/03/2022		DETS Sample No	590225

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	SW10.0010
Project / Job Ref: STP3966D		Additional Refs	SW1
Order No: POR012105		Depth (m)	0.00
Reporting Date: 21/03/2022		DETS Sample No	590226

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	Cyclic octaatomic sulfur	96	µg/l	< 0.1	1.7
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	SW20.0011
Project / Job Ref: STP3966D		Additional Refs	SW2
Order No: POR012105		Depth (m)	0.00
Reporting Date: 21/03/2022		DETS Sample No	590227

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	SW30.003
Project / Job Ref: STP3966D		Additional Refs	SW3
Order No: POR012105		Depth (m)	0.00
Reporting Date: 21/03/2022		DETS Sample No	590228

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No: 22-02424	
Soiltechnics Ltd	
Site Reference: Rockingham Enterprise Are, Corby	
Project / Job Ref: STP3966D	
Order No: POR012105	
Reporting Date: 21/03/2022	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	F	Ammoniacal Nitrogen	Determination of ammoniacal nitrogen by discrete analyser.	E126
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazide followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR dete	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GI-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
UF Unfiltered



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Cedar Barn
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Derwentside Environmental Testing Services Ltd
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Kent
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t: 01622 850410

DETS Report No: 22-07642

Site Reference: Rockingham Enterprise Area, Corby

Project / Job Ref: STP3966D

Order No: POR013557

Sample Receipt Date: 12/09/2022

Sample Scheduled Date: 12/09/2022

Report Issue Number: 1

Reporting Date: 20/09/2022

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Water Analysis Certificate						
DETS Report No: 22-07642		Date Sampled	09/09/22			
Soiltechnics Ltd		Time Sampled	BH06			
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0612.961			
Project / Job Ref: STP3966D		Additional Refs	BH06			
Order No: POR013557		Depth (m)	12.96			
Reporting Date: 20/09/2022		DETS Sample No	612307			

Determinand	Unit	RL	Accreditation				
pH	pH Units	N/a	ISO17025	7.1			
Total Cyanide	ug/l	< 5	ISO17025	35			
Complex Cyanide	ug/l	< 5	NONE	35			
Free Cyanide	ug/l	< 5	ISO17025	< 5			
Sulphate as SO ₄	mg/l	< 1	ISO17025	1010			
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	ISO17025	13600			
Ammonia as NH ₄	ug/l	< 50	ISO17025	13600			
Chloride	mg/l	< 1	ISO17025	127			
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	3			
Nitrite as NO ₂	mg/l	< 0.5	NONE	1.8			
Phosphate as PO ₄	mg/l	< 1	NONE	3			
Fluoride	mg/l	< 0.5	ISO17025	0.6			
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	8.2			
Chemical Oxygen Demand	mg/l	< 10	ISO17025	30			
Biological Oxygen Demand	mg/l	< 5	NONE	< 5			
Total Suspended Solids	mg/l	5	NONE	3100			
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10			
Antimony (dissolved)	ug/l	< 5	ISO17025	< 5			
Arsenic (dissolved)	ug/l	< 5	ISO17025	17			
Boron (dissolved)	ug/l	< 5	ISO17025	2960			
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	1			
Chromium (dissolved)	ug/l	< 5	ISO17025	22			
Chromium (hexavalent)	ug/l	< 20	NONE	< 20			
Chromium III	ug/l	< 20	NONE	22			
Copper (dissolved)	ug/l	< 5	ISO17025	19			
Lead (dissolved)	ug/l	< 5	ISO17025	305			
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05			
Nickel (dissolved)	ug/l	< 5	ISO17025	26			
Selenium (dissolved)	ug/l	< 5	ISO17025	8			
Zinc (dissolved)	ug/l	< 2	ISO17025	3840			
Magnesium (dissolved)	mg/l	< 0.1	ISO17025	52.4			
Chromium (total)	ug/l	< 5	NONE	668			
Total Phenols (monohydric)	ug/l	< 10	ISO17025	< 10			

Subcontracted analysis ^(S)
Insufficient sample ^{I/S}
Unsuitable Sample ^{U/S}



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Water Analysis Certificate - Speciated PAH

DETS Report No: 22-07642	Date Sampled	09/09/22				
Soiltechnics Ltd	Time Sampled	BH06				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.961				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR013557	Depth (m)	12.96				
Reporting Date: 20/09/2022	DETS Sample No	612307				

Determinand	Unit	RL	Accreditation				
Naphthalene	ug/l	< 0.01	NONE	0.03			
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01			
Acenaphthene	ug/l	< 0.01	NONE	< 0.01			
Fluorene	ug/l	< 0.01	NONE	< 0.01			
Phenanthrene	ug/l	< 0.01	NONE	< 0.01			
Anthracene	ug/l	< 0.01	NONE	< 0.01			
Fluoranthene	ug/l	< 0.01	NONE	< 0.01			
Pyrene	ug/l	< 0.01	NONE	< 0.01			
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01			
Chrysene	ug/l	< 0.01	NONE	< 0.01			
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01			
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01			
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01			
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01			
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01			
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008			
Total EPA-16 PAHs	ug/l	< 0.16	NONE	< 0.16			



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Water Analysis Certificate - TPH CWG Banded						
DETS Report No: 22-07642	Date Sampled	09/09/22				
Soiltechnics Ltd	Time Sampled	BH06				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.961				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR013557	Depth (m)	12.96				
Reporting Date: 20/09/2022	DETS Sample No	612307				

Determinand	Unit	RL	Accreditation				
Aliphatic >C5 - C6	ug/l	< 10	NONE	< 10			
Aliphatic >C6 - C8	ug/l	< 10	NONE	< 10			
Aliphatic >C8 - C10	ug/l	< 10	NONE	< 10			
Aliphatic >C10 - C12	ug/l	< 10	NONE	< 10			
Aliphatic >C12 - C16	ug/l	< 10	NONE	< 10			
Aliphatic >C16 - C21	ug/l	< 10	NONE	< 10			
Aliphatic >C21 - C34	ug/l	< 10	NONE	< 10			
Aliphatic (C5 - C34)	ug/l	< 70	NONE	< 70			
Aromatic >C5 - C7	ug/l	< 10	NONE	< 10			
Aromatic >C7 - C8	ug/l	< 10	NONE	< 10			
Aromatic >C8 - C10	ug/l	< 10	NONE	< 10			
Aromatic >C10 - C12	ug/l	< 10	NONE	< 10			
Aromatic >C12 - C16	ug/l	< 10	NONE	< 10			
Aromatic >C16 - C21	ug/l	< 10	NONE	< 10			
Aromatic >C21 - C35	ug/l	< 10	NONE	< 10			
Aromatic (C5 - C35)	ug/l	< 70	NONE	< 70			
Total >C5 - C35	ug/l	< 140	NONE	< 140			



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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-07642	Date Sampled	09/09/22				
Soiltechnics Ltd	Time Sampled	BH06				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.961				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR013557	Depth (m)	12.96				
Reporting Date: 20/09/2022	DETS Sample No	612307				

Determinand	Unit	RL	Accreditation				
Benzene	ug/l	< 1	ISO17025	< 1			
Toluene	ug/l	< 5	ISO17025	< 5			
Ethylbenzene	ug/l	< 5	ISO17025	< 5			
p & m-xylene	ug/l	< 10	ISO17025	< 10			
o-xylene	ug/l	< 5	ISO17025	< 5			
MTBE	ug/l	< 10	ISO17025	< 10			



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Water Analysis Certificate - Volatile Organic Compounds (VOC)

DETS Report No: 22-07642	Date Sampled	09/09/22				
Soiltechnics Ltd	Time Sampled	BH06				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.961				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR013557	Depth (m)	12.96				
Reporting Date: 20/09/2022	DETS Sample No	612307				

Determinand	Unit	RL	Accreditation				
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5			
Vinyl Chloride	ug/l	< 5	ISO17025	< 5			
Chloromethane	ug/l	< 5	ISO17025	< 5			
Chloroethane	ug/l	< 5	ISO17025	< 5			
Bromomethane	ug/l	< 5	ISO17025	< 5			
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5			
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5			
MTBE	ug/l	< 10	ISO17025	< 10			
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5			
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5			
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5			
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5			
Chloroform	ug/l	< 5	ISO17025	< 5			
Bromochloromethane	ug/l	< 10	ISO17025	< 10			
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5			
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5			
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5			
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10			
Benzene	ug/l	< 1	ISO17025	< 1			
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5			
Trichloroethene	ug/l	< 5	ISO17025	< 5			
Bromodichloromethane	ug/l	< 5	ISO17025	< 5			
Dibromomethane	ug/l	< 5	ISO17025	< 5			
TAME	ug/l	< 5	ISO17025	< 5			
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5			
Toluene	ug/l	< 5	ISO17025	< 5			
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5			
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10			
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5			
Tetrachloroethene	ug/l	< 5	ISO17025	< 5			
Dibromochloromethane	ug/l	< 5	ISO17025	< 5			
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5			
Chlorobenzene	ug/l	< 5	ISO17025	< 5			
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5			
Ethyl Benzene	ug/l	< 5	ISO17025	< 5			
m,p-Xylene	ug/l	< 10	ISO17025	< 10			
o-Xylene	ug/l	< 5	ISO17025	< 5			
Styrene	ug/l	< 5	ISO17025	< 5			
Bromoform	ug/l	< 10	ISO17025	< 10			
Isopropylbenzene	ug/l	< 5	ISO17025	< 5			
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10			
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5			
n-Propylbenzene	ug/l	< 5	ISO17025	< 5			
Bromobenzene	ug/l	< 5	ISO17025	< 5			
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5			
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5			
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5			
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5			
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5			
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5			
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5			
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5			
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5			
n-Butylbenzene	ug/l	< 5	ISO17025	< 5			
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5			
,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10			
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5			



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 22-07642	Date Sampled	09/09/22
Soiltechnics Ltd	Time Sampled	BH06
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.961
Project / Job Ref: STP3966D	Additional Refs	BH06
Order No: POR013557	Depth (m)	12.96
Reporting Date: 20/09/2022	DETS Sample No	612307

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)						
DETS Report No: 22-07642	Date Sampled	09/09/22				
Soiltechnics Ltd	Time Sampled	BH06				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.961				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR013557	Depth (m)	12.96				
Reporting Date: 20/09/2022	DETS Sample No	612307				

Determinand	Unit	RL	Accreditation				
Phenol	ug/l	< 0.1	NONE	< 0.1			
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1			
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1			
0-Cresol	ug/l	< 0.1	NONE	< 0.1			
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1			
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1			
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1			
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1			
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1			
Isophorone	ug/l	< 0.1	NONE	< 0.1			
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1			
p-Cresol	ug/l	< 0.1	NONE	< 0.1			
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1			
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1			
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1			
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1			
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1			
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1			
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1			
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1			
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1			
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1			
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1			
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1			
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1			
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1			
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1			
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1			
Azobenzene	ug/l	< 0.1	NONE	< 0.1			
Dibutyl phthalate	ug/l	< 0.1	NONE	< 0.1			
Carbazole	ug/l	< 0.1	NONE	< 0.1			
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	< 0.1			
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1			
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1			



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 22-07642	Date Sampled	09/09/22
Soiltechnics Ltd	Time Sampled	BH06
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.961
Project / Job Ref: STP3966D	Additional Refs	BH06
Order No: POR013557	Depth (m)	12.96
Reporting Date: 20/09/2022	DETS Sample No	612307

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 22-07642

Soiltechnics Ltd

Site Reference: Rockingham Enterprise Area, Corby

Project / Job Ref: STP3966D

Order No: POR013557

Reporting Date: 20/09/2022

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	F	Ammoniacal Nitrogen	Determination of ammoniacal nitrogen by discrete analyser.	E126
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazine followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR dete	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GI-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
UF Unfiltered



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DETS Report No: 22-08711

Site Reference: Rockingham Enterprise Area, Corby

Project / Job Ref: STP3966D

Order No: POR013825

Sample Receipt Date: 19/10/2022

Sample Scheduled Date: 19/10/2022

Report Issue Number: 1

Reporting Date: 25/10/2022

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Water Analysis Certificate						
DETS Report No: 22-08711		Date Sampled	14/10/22			
Soiltechnics Ltd		Time Sampled	None Supplied			
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0613.001			
Project / Job Ref: STP3966D		Additional Refs	BH06			
Order No: POR013825		Depth (m)	13.00			
Reporting Date: 25/10/2022		DETS Sample No	617083			

Determinand	Unit	RL	Accreditation				
pH	pH Units	N/a	ISO17025	6.8			
Total Cyanide	ug/l	< 5	ISO17025	43			
Complex Cyanide	ug/l	< 5	NONE	43			
Free Cyanide	ug/l	< 5	ISO17025	< 5			
Sulphate as SO ₄	mg/l	< 1	ISO17025	1030			
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	ISO17025	13700			
Ammonia as NH ₄	ug/l	< 50	ISO17025	13700			
Chloride	mg/l	< 1	ISO17025	134			
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	2.9			
Nitrite as NO ₂	mg/l	< 0.5	NONE	< 0.5			
Phosphate as PO ₄	mg/l	< 1	NONE	< 1.0			
Fluoride	mg/l	< 0.5	ISO17025	< 0.5			
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	19.1			
Chemical Oxygen Demand	mg/l	<10	ISO17025	23			
Biological Oxygen Demand	mg/l	< 5	NONE	6			
Total Suspended Solids	mg/l	5	NONE	224			
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10			
Antimony (dissolved)	ug/l	< 5	ISO17025	< 5			
Arsenic (dissolved)	ug/l	< 5	ISO17025	12			
Boron (dissolved)	ug/l	< 5	ISO17025	1860			
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	0.6			
Chromium (dissolved)	ug/l	< 5	ISO17025	< 5			
Chromium (hexavalent)	ug/l	< 20	NONE	< 20			
Chromium III	ug/l	< 20	NONE	< 20			
Copper (dissolved)	ug/l	< 5	ISO17025	16			
Lead (dissolved)	ug/l	< 5	ISO17025	120			
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05			
Nickel (dissolved)	ug/l	< 5	ISO17025	11			
Selenium (dissolved)	ug/l	< 5	ISO17025	7			
Zinc (dissolved)	ug/l	< 2	ISO17025	619			
Magnesium (dissolved)	mg/l	< 0.1	ISO17025	47.3			
Chromium (total)	ug/l	< 5	NONE	131			
Total Phenols (monohydric)	ug/l	< 10	ISO17025	< 10			

Subcontracted analysis ^(S)
Insufficient sample ^{I/S}
Unsuitable Sample ^{U/S}



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Water Analysis Certificate - Speciated PAH

DETS Report No: 22-08711	Date Sampled	14/10/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.001				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR013825	Depth (m)	13.00				
Reporting Date: 25/10/2022	DETS Sample No	617083				

Determinand	Unit	RL	Accreditation				
Naphthalene	ug/l	< 0.01	NONE	< 0.01			
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01			
Acenaphthene	ug/l	< 0.01	NONE	< 0.01			
Fluorene	ug/l	< 0.01	NONE	< 0.01			
Phenanthrene	ug/l	< 0.01	NONE	0.07			
Anthracene	ug/l	< 0.01	NONE	0.03			
Fluoranthene	ug/l	< 0.01	NONE	0.04			
Pyrene	ug/l	< 0.01	NONE	0.03			
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01			
Chrysene	ug/l	< 0.01	NONE	< 0.01			
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01			
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01			
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01			
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01			
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01			
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008			
Total EPA-16 PAHs	ug/l	< 0.16	NONE	0.17			



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Water Analysis Certificate - TPH CWG Banded

DETS Report No: 22-08711	Date Sampled	14/10/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.001				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR013825	Depth (m)	13.00				
Reporting Date: 25/10/2022	DETS Sample No	617083				

Determinand	Unit	RL	Accreditation				
Aliphatic >C5 - C6 : HS_1D_MS_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C6 - C8 : HS_1D_MS_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C8 - C10 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C10 - C12 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C12 - C16 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C16 - C21 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C21 - C34 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10			
Aliphatic (C5 - C34) : HS_1D_MS+EH_CU_1D_AL	ug/l	< 70	NONE	< 70			
Aromatic >C5 - C7 : HS_1D_MS_AR	ug/l	< 10	NONE	< 10			
Aromatic >C7 - C8 : HS_1D_MS_AR	ug/l	< 10	NONE	< 10			
Aromatic >C8 - C10 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic >C10 - C12 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic >C12 - C16 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic >C16 - C21 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic >C21 - C35 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic (C5 - C35) : HS_1D_MS+EH_CU_1D_AR	ug/l	< 70	NONE	< 70			
Total >C5 - C35 : HS_1D_MS+EH_CU_1D_Tot al	ug/l	< 140	NONE	< 140			



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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-08711	Date Sampled	14/10/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.001				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR013825	Depth (m)	13.00				
Reporting Date: 25/10/2022	DETS Sample No	617083				

Determinand	Unit	RL	Accreditation				
Benzene : HS_1D_MS	ug/l	< 1	ISO17025	< 1			
Toluene : HS_1D_MS	ug/l	< 5	ISO17025	< 5			
Ethylbenzene : HS_1D_MS	ug/l	< 5	ISO17025	< 5			
p & m-xylene : HS_1D_MS	ug/l	< 10	ISO17025	< 10			
o-xylene : HS_1D_MS	ug/l	< 5	ISO17025	< 5			
MTBE : HS_1D_MS	ug/l	< 10	ISO17025	< 10			



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Water Analysis Certificate - Volatile Organic Compounds (VOC)

DETS Report No: 22-08711	Date Sampled	14/10/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.001				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR013825	Depth (m)	13.00				
Reporting Date: 25/10/2022	DETS Sample No	617083				

Determinand	Unit	RL	Accreditation				
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5			
Vinyl Chloride	ug/l	< 5	ISO17025	< 5			
Chloromethane	ug/l	< 5	ISO17025	< 5			
Chloroethane	ug/l	< 5	ISO17025	< 5			
Bromomethane	ug/l	< 5	ISO17025	< 5			
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5			
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5			
MTBE	ug/l	< 10	ISO17025	< 10			
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5			
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5			
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5			
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5			
Chloroform	ug/l	< 5	ISO17025	< 5			
Bromochloromethane	ug/l	< 10	ISO17025	< 10			
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5			
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5			
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5			
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10			
Benzene	ug/l	< 1	ISO17025	< 1			
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5			
Trichloroethene	ug/l	< 5	ISO17025	< 5			
Bromodichloromethane	ug/l	< 5	ISO17025	< 5			
Dibromomethane	ug/l	< 5	ISO17025	< 5			
TAME	ug/l	< 5	ISO17025	< 5			
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5			
Toluene	ug/l	< 5	ISO17025	< 5			
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5			
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10			
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5			
Tetrachloroethene	ug/l	< 5	ISO17025	< 5			
Dibromochloromethane	ug/l	< 5	ISO17025	< 5			
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5			
Chlorobenzene	ug/l	< 5	ISO17025	< 5			
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5			
Ethyl Benzene	ug/l	< 5	ISO17025	< 5			
m,p-Xylene	ug/l	< 10	ISO17025	< 10			
o-Xylene	ug/l	< 5	ISO17025	< 5			
Styrene	ug/l	< 5	ISO17025	< 5			
Bromoform	ug/l	< 10	ISO17025	< 10			
Isopropylbenzene	ug/l	< 5	ISO17025	< 5			
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10			
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5			
n-Propylbenzene	ug/l	< 5	ISO17025	< 5			
Bromobenzene	ug/l	< 5	ISO17025	< 5			
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5			
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5			
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5			
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5			
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5			
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5			
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5			
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5			
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5			
n-Butylbenzene	ug/l	< 5	ISO17025	< 5			
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5			
,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10			
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5			



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 22-08711	Date Sampled	14/10/22
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.001
Project / Job Ref: STP3966D	Additional Refs	BH06
Order No: POR013825	Depth (m)	13.00
Reporting Date: 25/10/2022	DETS Sample No	617083

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)

DETS Report No: 22-08711	Date Sampled	14/10/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.001				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR013825	Depth (m)	13.00				
Reporting Date: 25/10/2022	DETS Sample No	617083				

Determinand	Unit	RL	Accreditation				
Phenol	ug/l	< 0.1	NONE	< 0.1			
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1			
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1			
0-Cresol	ug/l	< 0.1	NONE	< 0.1			
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1			
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1			
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1			
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1			
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1			
Isophorone	ug/l	< 0.1	NONE	< 0.1			
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1			
p-Cresol	ug/l	< 0.1	NONE	< 0.1			
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1			
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1			
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1			
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1			
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1			
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1			
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1			
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1			
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1			
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1			
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1			
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1			
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1			
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1			
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1			
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1			
Azobenzene	ug/l	< 0.1	NONE	< 0.1			
Dibutyl phthalate	ug/l	< 0.1	NONE	< 0.1			
Carbazole	ug/l	< 0.1	NONE	< 0.1			
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	< 0.1			
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1			
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1			



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 22-08711	Date Sampled	14/10/22
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.001
Project / Job Ref: STP3966D	Additional Refs	BH06
Order No: POR013825	Depth (m)	13.00
Reporting Date: 25/10/2022	DETS Sample No	617083

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No: 22-08711	
Soiltechnics Ltd	
Site Reference: Rockingham Enterprise Area, Corby	
Project / Job Ref: STP3966D	
Order No: POR013825	
Reporting Date: 25/10/2022	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	F	Ammoniacal Nitrogen	Determination of ammoniacal nitrogen by discrete analyser.	E126
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazide followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR dete	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GI-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
UF Unfiltered



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4480

List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det - Acronym
Benzene - HS_1D_MS
Ethylbenzene - HS_1D_MS
MTBE - HS_1D_MS
TPH CWG - Aliphatic >C10 - C12 - EH_CU_1D_AL
TPH CWG - Aliphatic >C12 - C16 - EH_CU_1D_AL
TPH CWG - Aliphatic >C16 - C21 - EH_CU_1D_AL
TPH CWG - Aliphatic >C21 - C34 - EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C34 - HS_1D_MS+EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C6 - HS_1D_MS_AL
TPH CWG - Aliphatic >C6 - C8 - HS_1D_MS_AL
TPH CWG - Aliphatic >C8 - C10 - EH_CU_1D_AL
TPH CWG - Aromatic >C10 - C12 - EH_CU_1D_AR
TPH CWG - Aromatic >C12 - C16 - EH_CU_1D_AR
TPH CWG - Aromatic >C16 - C21 - EH_CU_1D_AR
TPH CWG - Aromatic >C21 - C35 - EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C7 - HS_1D_MS_AR
TPH CWG - Aromatic >C7 - C8 - HS_1D_MS_AR
TPH CWG - Aromatic >C8 - C10 - EH_CU_1D_AR
TPH CWG - Aromatic C5 - C35 - HS_1D_MS+EH_CU_1D_AR
TPH CWG - Total >C5 - C35 - HS_1D_MS+EH_CU_1D_Total
Toluene - HS_1D_MS
m & p-xylene - HS_1D_MS
o-Xylene - HS_1D_MS



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DETS Report No: 22-09764

Site Reference: Rockingham Enterprise Area, Corby

Project / Job Ref: STP3966D

Order No: POR014060

Sample Receipt Date: 23/11/2022

Sample Scheduled Date: 23/11/2022

Report Issue Number: 1

Reporting Date: 01/12/2022

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Water Analysis Certificate						
DETS Report No: 22-09764	Date Sampled	18/11/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.121				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR014060	Depth (m)	13.12				
Reporting Date: 01/12/2022	DETS Sample No	621196				

Determinand	Unit	RL	Accreditation				
pH	pH Units	N/a	ISO17025	7.2			
Total Cyanide	ug/l	< 5	NONE	33			
Complex Cyanide	ug/l	< 5	NONE	33			
Free Cyanide	ug/l	< 5	NONE	< 5			
Sulphate as SO ₄	mg/l	< 1	ISO17025	578			
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	ISO17025	2170			
Ammonia as NH ₄	ug/l	< 50	ISO17025	2170			
Chloride	mg/l	< 1	ISO17025	40			
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	29.4			
Nitrite as NO ₂	mg/l	< 0.5	NONE	< 0.5			
Phosphate as PO ₄	mg/l	< 1	NONE	< 1.0			
Fluoride	mg/l	< 0.5	ISO17025	1.4			
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	53.3			
Chemical Oxygen Demand	mg/l	<10	ISO17025	27			
Biological Oxygen Demand	mg/l	< 5	NONE	< 5			
Total Suspended Solids	mg/l	5	NONE	1740			
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10			
Antimony (dissolved)	ug/l	< 5	ISO17025	< 5			
Arsenic (dissolved)	ug/l	< 5	ISO17025	< 5			
Boron (dissolved)	ug/l	< 5	ISO17025	5280			
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	< 0.4			
Chromium (dissolved)	ug/l	< 5	ISO17025	< 5			
Chromium (hexavalent)	ug/l	< 20	NONE	< 20			
Chromium III	ug/l	< 20	NONE	< 20			
Copper (dissolved)	ug/l	< 5	ISO17025	6			
Lead (dissolved)	ug/l	< 5	ISO17025	6			
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05			
Nickel (dissolved)	ug/l	< 5	ISO17025	7			
Selenium (dissolved)	ug/l	< 5	ISO17025	< 5			
Zinc (dissolved)	ug/l	< 2	ISO17025	77			
Magnesium (dissolved)	mg/l	< 0.1	ISO17025	87			
Chromium (total)	ug/l	< 5	NONE	251			
Total Phenols (monohydric)	ug/l	< 10	NONE	23			

Subcontracted analysis ^(S)

Insufficient sample ^{I/S}

Unsuitable Sample ^{U/S}



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Water Analysis Certificate - Speciated PAH

DETS Report No: 22-09764	Date Sampled	18/11/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.121				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR014060	Depth (m)	13.12				
Reporting Date: 01/12/2022	DETS Sample No	621196				

Determinand	Unit	RL	Accreditation				
Naphthalene	ug/l	< 0.01	NONE	< 0.01			
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01			
Acenaphthene	ug/l	< 0.01	NONE	0.03			
Fluorene	ug/l	< 0.01	NONE	0.02			
Phenanthrene	ug/l	< 0.01	NONE	0.03			
Anthracene	ug/l	< 0.01	NONE	< 0.01			
Fluoranthene	ug/l	< 0.01	NONE	0.02			
Pyrene	ug/l	< 0.01	NONE	0.01			
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01			
Chrysene	ug/l	< 0.01	NONE	< 0.01			
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01			
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01			
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01			
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01			
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01			
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008			
Total EPA-16 PAHs	ug/l	< 0.16	NONE	< 0.16			



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Water Analysis Certificate - TPH CWG Banded						
DETS Report No: 22-09764	Date Sampled	18/11/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.121				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR014060	Depth (m)	13.12				
Reporting Date: 01/12/2022	DETS Sample No	621196				

Determinand	Unit	RL	Accreditation				
Aliphatic >C5 - C6 : HS_1D_MS_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C6 - C8 : HS_1D_MS_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C8 - C10 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C10 - C12 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C12 - C16 : EH_CU_1D_AL	ug/l	< 10	NONE	15			
Aliphatic >C16 - C21 : EH_CU_1D_AL	ug/l	< 10	NONE	12			
Aliphatic >C21 - C34 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10			
Aliphatic (C5 - C34) : HS_1D_MS+EH_CU_1D_AL	ug/l	< 70	NONE	< 70			
Aromatic >C5 - C7 : HS_1D_MS_AR	ug/l	< 10	NONE	< 10			
Aromatic >C7 - C8 : HS_1D_MS_AR	ug/l	< 10	NONE	< 10			
Aromatic >C8 - C10 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic >C10 - C12 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic >C12 - C16 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic >C16 - C21 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic >C21 - C35 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic (C5 - C35) : HS_1D_MS+EH_CU_1D_AR	ug/l	< 70	NONE	< 70			
Total >C5 - C35 : HS_1D_MS+EH_CU_1D_Tot al	ug/l	< 140	NONE	< 140			



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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-09764	Date Sampled	18/11/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.121				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR014060	Depth (m)	13.12				
Reporting Date: 01/12/2022	DETS Sample No	621196				

Determinand	Unit	RL	Accreditation				
Benzene : HS_1D_MS	ug/l	< 1	ISO17025	< 1			
Toluene : HS_1D_MS	ug/l	< 5	ISO17025	< 5			
Ethylbenzene : HS_1D_MS	ug/l	< 5	ISO17025	< 5			
p & m-xylene : HS_1D_MS	ug/l	< 10	ISO17025	< 10			
o-xylene : HS_1D_MS	ug/l	< 5	ISO17025	< 5			
MTBE : HS_1D_MS	ug/l	< 10	ISO17025	< 10			



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Water Analysis Certificate - Volatile Organic Compounds (VOC)

DETS Report No: 22-09764	Date Sampled	18/11/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.121				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR014060	Depth (m)	13.12				
Reporting Date: 01/12/2022	DETS Sample No	621196				

Determinand	Unit	RL	Accreditation				
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5			
Vinyl Chloride	ug/l	< 5	ISO17025	< 5			
Chloromethane	ug/l	< 5	ISO17025	< 5			
Chloroethane	ug/l	< 5	ISO17025	< 5			
Bromomethane	ug/l	< 5	ISO17025	< 5			
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5			
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5			
MTBE	ug/l	< 10	ISO17025	< 10			
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5			
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5			
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5			
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5			
Chloroform	ug/l	< 5	ISO17025	< 5			
Bromochloromethane	ug/l	< 10	ISO17025	< 10			
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5			
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5			
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5			
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10			
Benzene	ug/l	< 1	ISO17025	< 1			
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5			
Trichloroethene	ug/l	< 5	ISO17025	< 5			
Bromodichloromethane	ug/l	< 5	ISO17025	< 5			
Dibromomethane	ug/l	< 5	ISO17025	< 5			
TAME	ug/l	< 5	ISO17025	< 5			
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5			
Toluene	ug/l	< 5	ISO17025	< 5			
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5			
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10			
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5			
Tetrachloroethene	ug/l	< 5	ISO17025	< 5			
Dibromochloromethane	ug/l	< 5	ISO17025	< 5			
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5			
Chlorobenzene	ug/l	< 5	ISO17025	< 5			
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5			
Ethyl Benzene	ug/l	< 5	ISO17025	< 5			
m,p-Xylene	ug/l	< 10	ISO17025	< 10			
o-Xylene	ug/l	< 5	ISO17025	< 5			
Styrene	ug/l	< 5	ISO17025	< 5			
Bromoform	ug/l	< 10	ISO17025	< 10			
Isopropylbenzene	ug/l	< 5	ISO17025	< 5			
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10			
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5			
n-Propylbenzene	ug/l	< 5	ISO17025	< 5			
Bromobenzene	ug/l	< 5	ISO17025	< 5			
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5			
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5			
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5			
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5			
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5			
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5			
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5			
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5			
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5			
n-Butylbenzene	ug/l	< 5	ISO17025	< 5			
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5			
,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10			
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5			



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 22-09764	Date Sampled	18/11/22
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.121
Project / Job Ref: STP3966D	Additional Refs	BH06
Order No: POR014060	Depth (m)	13.12
Reporting Date: 01/12/2022	DETS Sample No	621196

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)

DETS Report No: 22-09764	Date Sampled	18/11/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.121				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR014060	Depth (m)	13.12				
Reporting Date: 01/12/2022	DETS Sample No	621196				

Determinand	Unit	RL	Accreditation				
Phenol	ug/l	< 0.1	NONE	< 0.1			
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1			
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1			
0-Cresol	ug/l	< 0.1	NONE	< 0.1			
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1			
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1			
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1			
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1			
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1			
Isophorone	ug/l	< 0.1	NONE	< 0.1			
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1			
p-Cresol	ug/l	< 0.1	NONE	< 0.1			
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1			
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1			
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1			
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1			
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1			
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1			
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1			
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1			
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1			
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1			
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1			
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1			
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1			
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1			
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1			
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1			
Azobenzene	ug/l	< 0.1	NONE	< 0.1			
Dibutyl phthalate	ug/l	< 0.1	NONE	< 0.1			
Carbazole	ug/l	< 0.1	NONE	< 0.1			
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	< 0.1			
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1			
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1			



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 22-09764	Date Sampled	18/11/22
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.121
Project / Job Ref: STP3966D	Additional Refs	BH06
Order No: POR014060	Depth (m)	13.12
Reporting Date: 01/12/2022	DETS Sample No	621196

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	Cyclic Octaatomic sulfur	95	µg/l	< 0.1	0.8
2	6-Tetradecanesulfonic acid, butyl ester	91	µg/l	< 0.1	2.6
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No: 22-09764	
Soiltechnics Ltd	
Site Reference: Rockingham Enterprise Area, Corby	
Project / Job Ref: STP3966D	
Order No: POR014060	
Reporting Date: 01/12/2022	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	F	Ammoniacal Nitrogen	Determination of ammoniacal nitrogen by discrete analyser.	E126
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazide followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR dete	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GI-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
UF Unfiltered



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List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det - Acronym
Benzene - HS_1D_MS
Ethylbenzene - HS_1D_MS
MTBE - HS_1D_MS
TPH CWG - Aliphatic >C10 - C12 - EH_CU_1D_AL
TPH CWG - Aliphatic >C12 - C16 - EH_CU_1D_AL
TPH CWG - Aliphatic >C16 - C21 - EH_CU_1D_AL
TPH CWG - Aliphatic >C21 - C34 - EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C34 - HS_1D_MS+EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C6 - HS_1D_MS_AL
TPH CWG - Aliphatic >C6 - C8 - HS_1D_MS_AL
TPH CWG - Aliphatic >C8 - C10 - EH_CU_1D_AL
TPH CWG - Aromatic >C10 - C12 - EH_CU_1D_AR
TPH CWG - Aromatic >C12 - C16 - EH_CU_1D_AR
TPH CWG - Aromatic >C16 - C21 - EH_CU_1D_AR
TPH CWG - Aromatic >C21 - C35 - EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C7 - HS_1D_MS_AR
TPH CWG - Aromatic >C7 - C8 - HS_1D_MS_AR
TPH CWG - Aromatic >C8 - C10 - EH_CU_1D_AR
TPH CWG - Aromatic C5 - C35 - HS_1D_MS+EH_CU_1D_AR
TPH CWG - Total >C5 - C35 - HS_1D_MS+EH_CU_1D_Total
Toluene - HS_1D_MS
m & p-xylene - HS_1D_MS
o-Xylene - HS_1D_MS



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DETS Report No: 22-10821

Site Reference: Rockingham Enterprise Area, Corby

Project / Job Ref: STP3966D

Order No: POR014312

Sample Receipt Date: 20/12/2022

Sample Scheduled Date: 20/12/2022

Report Issue Number: 1

Reporting Date: 05/01/2023

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Water Analysis Certificate						
DETS Report No: 22-10821		Date Sampled	14/12/22			
Soiltechnics Ltd		Time Sampled	None Supplied			
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0612.741			
Project / Job Ref: STP3966D		Additional Refs	BH06			
Order No: POR014312		Depth (m)	12.74			
Reporting Date: 05/01/2023		DETS Sample No	625535			

Determinand	Unit	RL	Accreditation	(hs)			
pH	pH Units	N/a	ISO17025	7.0			
Total Cyanide	ug/l	< 5	NONE	22			
Complex Cyanide	ug/l	< 5	NONE	22			
Free Cyanide	ug/l	< 5	NONE	< 5			
Sulphate as SO ₄	mg/l	< 1	ISO17025	1020			
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	ISO17025	157			
Ammonia as NH ₄	ug/l	< 50	ISO17025	157			
Chloride	mg/l	< 1	ISO17025	90			
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	31.1			
Nitrite as NO ₂	mg/l	< 0.5	NONE	< 0.5			
Phosphate as PO ₄	mg/l	< 1	NONE	< 1.0			
Fluoride	mg/l	< 0.5	ISO17025	1.2			
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	52.9			
Chemical Oxygen Demand	mg/l	<10	ISO17025	32			
Biological Oxygen Demand	mg/l	< 5	NONE	< 5			
Total Suspended Solids	mg/l	5	NONE	268			
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10			
Antimony (dissolved)	ug/l	< 5	ISO17025	< 5			
Arsenic (dissolved)	ug/l	< 5	ISO17025	< 5			
Boron (dissolved)	ug/l	< 5	ISO17025	8530			
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	< 0.4			
Chromium (dissolved)	ug/l	< 5	ISO17025	9			
Chromium (hexavalent)	ug/l	< 20	NONE	< 20			
Chromium III	ug/l	< 20	NONE	< 20			
Copper (dissolved)	ug/l	< 5	ISO17025	< 5			
Lead (dissolved)	ug/l	< 5	ISO17025	< 5			
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05			
Nickel (dissolved)	ug/l	< 5	ISO17025	7			
Selenium (dissolved)	ug/l	< 5	ISO17025	48			
Zinc (dissolved)	ug/l	< 2	ISO17025	137			
Magnesium (dissolved)	mg/l	< 0.1	ISO17025	182			
Chromium (total)	ug/l	< 5	NONE	131			
Total Phenols (monohydric)	ug/l	< 10	NONE	10			

Subcontracted analysis ^(S)

Insufficient sample ^{I/S}

Unsuitable Sample ^{U/S}

(hs) Please note deviating sample due to head space in container



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Water Analysis Certificate - Speciated PAH

DETS Report No: 22-10821	Date Sampled	14/12/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.741				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR014312	Depth (m)	12.74				
Reporting Date: 05/01/2023	DETS Sample No	625535				

Determinand	Unit	RL	Accreditation	(hs)				
Naphthalene	ug/l	< 0.01	NONE	< 0.01				
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01				
Acenaphthene	ug/l	< 0.01	NONE	< 0.01				
Fluorene	ug/l	< 0.01	NONE	< 0.01				
Phenanthrene	ug/l	< 0.01	NONE	< 0.01				
Anthracene	ug/l	< 0.01	NONE	< 0.01				
Fluoranthene	ug/l	< 0.01	NONE	< 0.01				
Pyrene	ug/l	< 0.01	NONE	< 0.01				
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01				
Chrysene	ug/l	< 0.01	NONE	< 0.01				
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01				
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01				
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01				
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01				
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01				
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008				
Total EPA-16 PAHs	ug/l	< 0.16	NONE	< 0.16				



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Water Analysis Certificate - TPH CWG Banded						
DETS Report No: 22-10821	Date Sampled	14/12/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.741				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR014312	Depth (m)	12.74				
Reporting Date: 05/01/2023	DETS Sample No	625535				

Determinand	Unit	RL	Accreditation	(hs)			
Aliphatic >C5 - C6 : HS_1D_MS_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C6 - C8 : HS_1D_MS_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C8 - C10 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C10 - C12 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C12 - C16 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C16 - C21 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C21 - C34 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10			
Aliphatic (C5 - C34) : HS_1D_MS+EH_CU_1D_AL	ug/l	< 70	NONE	< 70			
Aromatic >C5 - C7 : HS_1D_MS_AR	ug/l	< 10	NONE	< 10			
Aromatic >C7 - C8 : HS_1D_MS_AR	ug/l	< 10	NONE	< 10			
Aromatic >C8 - C10 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic >C10 - C12 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic >C12 - C16 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic >C16 - C21 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic >C21 - C35 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic (C5 - C35) : HS_1D_MS+EH_CU_1D_AR	ug/l	< 70	NONE	< 70			
Total >C5 - C35 : HS_1D_MS+EH_CU_1D_Tot al	ug/l	< 140	NONE	< 140			

(hs) Please note deviating sample due to head space in container



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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-10821	Date Sampled	14/12/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.741				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR014312	Depth (m)	12.74				
Reporting Date: 05/01/2023	DETS Sample No	625535				

Determinand	Unit	RL	Accreditation	(hs)				
Benzene : HS_1D_MS	ug/l	< 1	ISO17025	< 1				
Toluene : HS_1D_MS	ug/l	< 5	ISO17025	< 5				
Ethylbenzene : HS_1D_MS	ug/l	< 5	ISO17025	< 5				
p & m-xylene : HS_1D_MS	ug/l	< 10	ISO17025	< 10				
o-xylene : HS_1D_MS	ug/l	< 5	ISO17025	< 5				
MTBE : HS_1D_MS	ug/l	< 10	ISO17025	< 10				

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Water Analysis Certificate - Volatile Organic Compounds (VOC)

DETS Report No: 22-10821	Date Sampled	14/12/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.741				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR014312	Depth (m)	12.74				
Reporting Date: 05/01/2023	DETS Sample No	625535				

Determinand	Unit	RL	Accreditation	(hs)				
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5				
Vinyl Chloride	ug/l	< 5	ISO17025	< 5				
Chloromethane	ug/l	< 5	ISO17025	< 5				
Chloroethane	ug/l	< 5	ISO17025	< 5				
Bromomethane	ug/l	< 5	ISO17025	< 5				
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5				
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5				
MTBE	ug/l	< 10	ISO17025	< 10				
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5				
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5				
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5				
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5				
Chloroform	ug/l	< 5	ISO17025	< 5				
Bromochloromethane	ug/l	< 10	ISO17025	< 10				
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5				
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5				
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5				
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10				
Benzene	ug/l	< 1	ISO17025	< 1				
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5				
Trichloroethene	ug/l	< 5	ISO17025	< 5				
Bromodichloromethane	ug/l	< 5	ISO17025	< 5				
Dibromomethane	ug/l	< 5	ISO17025	< 5				
TAME	ug/l	< 5	ISO17025	< 5				
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5				
Toluene	ug/l	< 5	ISO17025	< 5				
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5				
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10				
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5				
Tetrachloroethene	ug/l	< 5	ISO17025	< 5				
Dibromochloromethane	ug/l	< 5	ISO17025	< 5				
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5				
Chlorobenzene	ug/l	< 5	ISO17025	< 5				
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5				
Ethyl Benzene	ug/l	< 5	ISO17025	< 5				
m,p-Xylene	ug/l	< 10	ISO17025	< 10				
o-Xylene	ug/l	< 5	ISO17025	< 5				
Styrene	ug/l	< 5	ISO17025	< 5				
Bromoform	ug/l	< 10	ISO17025	< 10				
Isopropylbenzene	ug/l	< 5	ISO17025	< 5				
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10				
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5				
n-Propylbenzene	ug/l	< 5	ISO17025	< 5				
Bromobenzene	ug/l	< 5	ISO17025	< 5				
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5				
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5				
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5				
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5				
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5				
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5				
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5				
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5				
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5				
n-Butylbenzene	ug/l	< 5	ISO17025	< 5				
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5				
,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10				
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5				

(hs) Please note deviating sample due to head space in container



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 22-10821	Date Sampled	14/12/22
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.741
Project / Job Ref: STP3966D	Additional Refs	BH06
Order No: POR014312	Depth (m)	12.74
Reporting Date: 05/01/2023	DETS Sample No	625535

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)						
DETS Report No: 22-10821	Date Sampled	14/12/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.741				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR014312	Depth (m)	12.74				
Reporting Date: 05/01/2023	DETS Sample No	625535				

Determinand	Unit	RL	Accreditation	(hs)				
Phenol	ug/l	< 0.1	NONE	< 0.1				
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1				
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1				
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1				
0-Cresol	ug/l	< 0.1	NONE	< 0.1				
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1				
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1				
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1				
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1				
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1				
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1				
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1				
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1				
Isophorone	ug/l	< 0.1	NONE	< 0.1				
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1				
p-Cresol	ug/l	< 0.1	NONE	< 0.1				
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1				
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1				
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1				
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1				
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1				
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1				
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1				
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1				
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1				
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1				
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1				
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1				
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1				
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1				
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1				
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1				
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1				
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1				
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1				
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1				
Azobenzene	ug/l	< 0.1	NONE	< 0.1				
Dibutyl phthalate	ug/l	< 0.1	NONE	< 0.1				
Carbazole	ug/l	< 0.1	NONE	< 0.1				
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	< 0.1				
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1				
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1				

(hs) Please note deviating sample due to head space in container



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 22-10821	Date Sampled	14/12/22
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.741
Project / Job Ref: STP3966D	Additional Refs	BH06
Order No: POR014312	Depth (m)	12.74
Reporting Date: 05/01/2023	DETS Sample No	625535

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 22-10821

Soiltechnics Ltd

Site Reference: Rockingham Enterprise Area, Corby

Project / Job Ref: STP3966D

Order No: POR014312

Reporting Date: 05/01/2023

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	F	Ammoniacal Nitrogen	Determination of ammoniacal nitrogen by discrete analyser.	E126
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazide followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR dete	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GI-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
UF Unfiltered



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4480

List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det - Acronym
Benzene - HS_1D_MS
Ethylbenzene - HS_1D_MS
MTBE - HS_1D_MS
TPH CWG - Aliphatic >C10 - C12 - EH_CU_1D_AL
TPH CWG - Aliphatic >C12 - C16 - EH_CU_1D_AL
TPH CWG - Aliphatic >C16 - C21 - EH_CU_1D_AL
TPH CWG - Aliphatic >C21 - C34 - EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C34 - HS_1D_MS+EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C6 - HS_1D_MS_AL
TPH CWG - Aliphatic >C6 - C8 - HS_1D_MS_AL
TPH CWG - Aliphatic >C8 - C10 - EH_CU_1D_AL
TPH CWG - Aromatic >C10 - C12 - EH_CU_1D_AR
TPH CWG - Aromatic >C12 - C16 - EH_CU_1D_AR
TPH CWG - Aromatic >C16 - C21 - EH_CU_1D_AR
TPH CWG - Aromatic >C21 - C35 - EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C7 - HS_1D_MS_AR
TPH CWG - Aromatic >C7 - C8 - HS_1D_MS_AR
TPH CWG - Aromatic >C8 - C10 - EH_CU_1D_AR
TPH CWG - Aromatic C5 - C35 - HS_1D_MS+EH_CU_1D_AR
TPH CWG - Total >C5 - C35 - HS_1D_MS+EH_CU_1D_Total
Toluene - HS_1D_MS
m & p-xylene - HS_1D_MS
o-Xylene - HS_1D_MS



Alexa Band
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White Lodge
Cedar Barn
Walgrave
NN6 9PY

Derwentside Environmental Testing Services Ltd
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DETS Report No: 23-04624

Site Reference: Rockingham Enterprise Area, Corby

Project / Job Ref: STP3966D

Order No: POR015074

Sample Receipt Date: 03/04/2023

Sample Scheduled Date: 03/04/2023

Report Issue Number: 1

Reporting Date: 13/04/2023

Authorised by:

Kevin Old
Operations Director

Dates of laboratory activities for each tested analyte are available upon request.

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Water Analysis Certificate					
DETS Report No: 23-04624	Date Sampled	30/03/23	30/03/23	30/03/23	30/03/23
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH049.871	BH058.993	BH0612.942	BH099.724
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09
Order No: POR015074	Depth (m)	9.87	8.99	12.94	9.72
Reporting Date: 13/04/2023	DETS Sample No	645201	645202	645203	645204

Determinand	Unit	RL	Accreditation				
pH	pH Units	N/a	ISO17025	7.0	7.7	7.7	7.8
Total Cyanide	ug/l	< 5	ISO17025	< 5	25	< 5	93
Complex Cyanide	ug/l	< 5	ISO17025	< 5	25	< 5	93
Free Cyanide	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Sulphate as SO ₄	mg/l	< 1	ISO17025	1160	3800	1170	1870
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	ISO17025	450	9710	253	60100
Ammonia as NH ₄	ug/l	< 50	ISO17025	450	9710	253	60100
Chloride	mg/l	< 1	ISO17025	8	57	8	79
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	< 0.5	< 0.5	< 0.5	< 0.5
Nitrite as NO ₂	mg/l	< 0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5
Phosphate as PO ₄	mg/l	< 1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
Fluoride	mg/l	< 0.5	ISO17025	< 0.5	< 0.5	< 0.5	< 0.5
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	13.8	21.8	25.5	22.7
Chemical Oxygen Demand	mg/l	<10	ISO17025	14	22	22	48
Biological Oxygen Demand	mg/l	< 5	NONE	11	< 5	< 5	< 5
Total Suspended Solids	mg/l	< 5	NONE	381	225	307	615
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10	< 10	< 10	< 10
Antimony (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Arsenic (dissolved)	ug/l	< 5	ISO17025	11	32	16	8
Boron (dissolved)	ug/l	< 5	ISO17025	748	951	5280	1930
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	< 0.4	1	0.9	2.1
Chromium (dissolved)	ug/l	< 5	ISO17025	< 5	21	< 5	< 5
Chromium (hexavalent)	ug/l	< 20	NONE	< 20	< 20	< 20	< 20
Chromium III	ug/l	< 20	NONE	< 20	< 20	< 20	< 20
Copper (dissolved)	ug/l	< 5	ISO17025	15	24	20	13
Lead (dissolved)	ug/l	< 5	ISO17025	18	99	116	58
Manganese (dissolved)	ug/l	< 5	ISO17025	3850	9760	571	2030
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	ug/l	< 5	ISO17025	42	41	14	8
Selenium (dissolved)	ug/l	< 5	ISO17025	< 5	23	15	10
Zinc (dissolved)	ug/l	< 2	ISO17025	88	318	1260	122
Magnesium (dissolved)	mg/l	< 0.1	ISO17025	59.8	90.7	134	44.4
Chromium (total)	ug/l	< 5	NONE	33	506	245	149
Total Phenols (monohydric)	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10

Subcontracted analysis ^(S)
Insufficient sample ^{I/S}
Unsuitable Sample ^{U/S}



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Water Analysis Certificate - Speciated PAH						
DETS Report No: 23-04624	Date Sampled	30/03/23	30/03/23	30/03/23	30/03/23	
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH049.871	BH058.993	BH0612.942	BH099.724	
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	
Order No: POR015074	Depth (m)	9.87	8.99	12.94	9.72	
Reporting Date: 13/04/2023	DETS Sample No	645201	645202	645203	645204	

Determinand	Unit	RL	Accreditation				
Naphthalene	ug/l	< 0.01	NONE	0.18	0.30	< 0.01	0.10
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008	< 0.008	< 0.008	< 0.008
Total EPA-16 PAHs	ug/l	< 0.16	NONE	0.18	0.30	< 0.16	< 0.16



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Water Analysis Certificate - TPH CWG Banded						
DETS Report No: 23-04624	Date Sampled	30/03/23	30/03/23	30/03/23	30/03/23	
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH049.871	BH058.993	BH0612.942	BH099.724	
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	
Order No: POR015074	Depth (m)	9.87	8.99	12.94	9.72	
Reporting Date: 13/04/2023	DETS Sample No	645201	645202	645203	645204	

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6 : HS_1D_MS_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aliphatic >C6 - C8 : HS_1D_MS_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aliphatic >C8 - C10 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aliphatic >C10 - C12 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aliphatic >C12 - C16 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aliphatic >C16 - C21 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aliphatic >C21 - C34 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aliphatic (C5 - C34) : HS_1D_MS+EH_CU_1D_AL	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	
Aromatic >C5 - C7 : HS_1D_MS_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aromatic >C7 - C8 : HS_1D_MS_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aromatic >C8 - C10 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aromatic >C10 - C12 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aromatic >C12 - C16 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aromatic >C16 - C21 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aromatic >C21 - C35 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aromatic (C5 - C35) : HS_1D_MS+EH_CU_1D_AR	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	
Total >C5 - C35 : HS_1D_MS+EH_CU_1D_Tot al	ug/l	< 140	NONE	< 140	< 140	< 140	< 140	



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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 23-04624	Date Sampled	30/03/23	30/03/23	30/03/23	30/03/23	
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH049.871	BH058.993	BH0612.942	BH099.724	
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	
Order No: POR015074	Depth (m)	9.87	8.99	12.94	9.72	
Reporting Date: 13/04/2023	DETS Sample No	645201	645202	645203	645204	

Determinand	Unit	RL	Accreditation					
Benzene : HS_1D_MS	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	
Toluene : HS_1D_MS	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	
Ethylbenzene : HS_1D_MS	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	
p & m-xylene : HS_1D_MS	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	
o-xylene : HS_1D_MS	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	
MTBE : HS_1D_MS	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	



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Water Analysis Certificate - Volatile Organic Compounds (VOC)

DETS Report No: 23-04624	Date Sampled	30/03/23	30/03/23	30/03/23	30/03/23
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH049.871	BH058.993	BH0612.942	BH099.724
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09
Order No: POR015074	Depth (m)	9.87	8.99	12.94	9.72
Reporting Date: 13/04/2023	DETS Sample No	645201	645202	645203	645204

Determinand	Unit	RL	Accreditation				
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Vinyl Chloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Chloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Chloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Bromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Chloroform	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Bromochloromethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Trichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Bromodichloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Dibromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
TAME	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Tetrachloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Dibromochloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Chlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Ethyl Benzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
m,p-Xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
o-Xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Bromoform	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
Isopropylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
n-Propylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Bromobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
n-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 23-04624	Date Sampled	30/03/23
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH049.871
Project / Job Ref: STP3966D	Additional Refs	BH04
Order No: POR015074	Depth (m)	9.87
Reporting Date: 13/04/2023	DETS Sample No	645201

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 23-04624	Date Sampled	30/03/23
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH058.993
Project / Job Ref: STP3966D	Additional Refs	BH05
Order No: POR015074	Depth (m)	8.99
Reporting Date: 13/04/2023	DETS Sample No	645202

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 23-04624	Date Sampled	30/03/23
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.942
Project / Job Ref: STP3966D	Additional Refs	BH06
Order No: POR015074	Depth (m)	12.94
Reporting Date: 13/04/2023	DETS Sample No	645203

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 23-04624	Date Sampled	30/03/23
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH099.724
Project / Job Ref: STP3966D	Additional Refs	BH09
Order No: POR015074	Depth (m)	9.72
Reporting Date: 13/04/2023	DETS Sample No	645204

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)						
DETS Report No: 23-04624	Date Sampled	30/03/23	30/03/23	30/03/23	30/03/23	
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH049.871	BH058.993	BH0612.942	BH099.724	
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	
Order No: POR015074	Depth (m)	9.87	8.99	12.94	9.72	
Reporting Date: 13/04/2023	DETS Sample No	645201	645202	645203	645204	

Determinand	Unit	RL	Accreditation					
Phenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
0-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Isophorone	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
p-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Azobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Dibutyl phthalate	ug/l	< 0.1	NONE	< 0.1	7.4	20.3	7.5	
Carbazole	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 23-04624	Date Sampled	30/03/23
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH049.871
Project / Job Ref: STP3966D	Additional Refs	BH04
Order No: POR015074	Depth (m)	9.87
Reporting Date: 13/04/2023	DETS Sample No	645201

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 23-04624	Date Sampled	30/03/23
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH058.993
Project / Job Ref: STP3966D	Additional Refs	BH05
Order No: POR015074	Depth (m)	8.99
Reporting Date: 13/04/2023	DETS Sample No	645202

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 23-04624	Date Sampled	30/03/23
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.942
Project / Job Ref: STP3966D	Additional Refs	BH06
Order No: POR015074	Depth (m)	12.94
Reporting Date: 13/04/2023	DETS Sample No	645203

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 23-04624	Date Sampled	30/03/23
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH099.724
Project / Job Ref: STP3966D	Additional Refs	BH09
Order No: POR015074	Depth (m)	9.72
Reporting Date: 13/04/2023	DETS Sample No	645204

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No: 23-04624	
Soiltechnics Ltd	
Site Reference: Rockingham Enterprise Area, Corby	
Project / Job Ref: STP3966D	
Order No: POR015074	
Reporting Date: 13/04/2023	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	F	Ammoniacal Nitrogen	Determination of ammoniacal nitrogen by discrete analyser.	E126
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazine followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR detection	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
UF Unfiltered



DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410



4480

List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det - Acronym
Benzene - HS_1D_MS
Ethylbenzene - HS_1D_MS
MTBE - HS_1D_MS
TPH CWG - Aliphatic >C10 - C12 - EH_CU_1D_AL
TPH CWG - Aliphatic >C12 - C16 - EH_CU_1D_AL
TPH CWG - Aliphatic >C16 - C21 - EH_CU_1D_AL
TPH CWG - Aliphatic >C21 - C34 - EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C34 - HS_1D_MS+EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C6 - HS_1D_MS_AL
TPH CWG - Aliphatic >C6 - C8 - HS_1D_MS_AL
TPH CWG - Aliphatic >C8 - C10 - EH_CU_1D_AL
TPH CWG - Aromatic >C10 - C12 - EH_CU_1D_AR
TPH CWG - Aromatic >C12 - C16 - EH_CU_1D_AR
TPH CWG - Aromatic >C16 - C21 - EH_CU_1D_AR
TPH CWG - Aromatic >C21 - C35 - EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C7 - HS_1D_MS_AR
TPH CWG - Aromatic >C7 - C8 - HS_1D_MS_AR
TPH CWG - Aromatic >C8 - C10 - EH_CU_1D_AR
TPH CWG - Aromatic C5 - C35 - HS_1D_MS+EH_CU_1D_AR
TPH CWG - Total >C5 - C35 - HS_1D_MS+EH_CU_1D_Total
Toluene - HS_1D_MS
m & p-xylene - HS_1D_MS
o-Xylene - HS_1D_MS

APPENDIX 5

WAC Test Results



Final Report

Report No.: 23-25835-1

Initial Date of Issue: 07-Aug-2023

Re-Issue Details:

Client Storefield Aggregates

Client Address: Furnace Park
Old Telford Way
Telford Way Industrial Estate
Kettering
Northants
NN16 8UN

Contact(s): Adam Crane
Jonah Clarke
Weighbridge
Steve Molcher

Project Telford Way

Quotation No.: **Date Received:** 01-Aug-2023

Order No.: TW069 **Date Instructed:** 01-Aug-2023

No. of Samples: 1

Turnaround (Wkdays): 5 **Results Due:** 07-Aug-2023

Date Approved: 07-Aug-2023

Approved By:

Details: Stuart Henderson, Technical
Manager

Results - Single Stage WAC

Project: Telford Way

Chemtest Job No: 23-25835					Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1682103					Limits		
Sample Ref: Processed					Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID: TW069							
Sample Location: G.B							
Top Depth(m):							
Bottom Depth(m):							
Sampling Date: 28-Jul-2023							
Determinand	SOP	Accred.	Units				
Total Organic Carbon	2625	M	%	0.40	3	5	6
Loss On Ignition	2610	M	%	1.8	--	--	10
Total BTEX	2760	M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg	< 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg	< 2.0	100	--	--
pH	2010	M		11.4	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg	0.0050	--	To evaluate	To evaluate
Eluate Analysis			10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455	U	0.0005	0.0051	0.5	2	25
Barium	1455	U	0.008	0.078	20	100	300
Cadmium	1455	U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455	U	0.010	0.10	0.5	10	70
Copper	1455	U	0.014	0.14	2	50	100
Mercury	1455	U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455	U	0.028	0.28	0.5	10	30
Nickel	1455	U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455	U	0.0011	0.011	0.5	10	50
Antimony	1455	U	0.012	0.12	0.06	0.7	5
Selenium	1455	U	0.0005	0.0050	0.1	0.5	7
Zinc	1455	U	0.023	0.23	4	50	200
Chloride	1220	U	140	1400	800	15000	25000
Fluoride	1220	U	< 0.050	< 1.0	10	150	500
Sulphate	1220	U	34	340	1000	20000	50000
Total Dissolved Solids	1020	N	620	6200	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610	U	8.5	85	500	800	1000

Solid Information

Dry mass of test portion/kg	0.090
Moisture (%)	13

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Final Report

Report No.: 23-25839-1

Initial Date of Issue: 07-Aug-2023

Re-Issue Details:

Client Storefield Aggregates

Client Address: Furnace Park
Old Telford Way
Telford Way Industrial Estate
Kettering
Northants
NN16 8UN

Contact(s): Adam Crane
Jonah Clarke
Weighbridge
Steve Molcher

Project Telford Way

Quotation No.: **Date Received:** 01-Aug-2023

Order No.: TW071 **Date Instructed:** 01-Aug-2023

No. of Samples: 1

Turnaround (Wkdays): 5 **Results Due:** 07-Aug-2023

Date Approved: 07-Aug-2023

Approved By:

Details: Stuart Henderson, Technical
Manager

Results - Single Stage WAC

Project: Telford Way

Chemtest Job No: 23-25839					Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1682107					Limits		
Sample Ref: Old Unprocessed					Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID: TW071							
Sample Location: G.B							
Top Depth(m):							
Bottom Depth(m):							
Sampling Date: 28-Jul-2023							
Determinand	SOP	Accred.	Units				
Total Organic Carbon	2625	M	%	0.61	3	5	6
Loss On Ignition	2610	M	%	3.9	--	--	10
Total BTEX	2760	M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg	< 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg	< 2.0	100	--	--
pH	2010	M		11.4	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg	0.0060	--	To evaluate	To evaluate
Eluate Analysis			10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455	U	0.0004	0.0038	0.5	2	25
Barium	1455	U	0.006	0.056	20	100	300
Cadmium	1455	U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455	U	0.011	0.11	0.5	10	70
Copper	1455	U	0.0026	0.026	2	50	100
Mercury	1455	U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455	U	0.016	0.16	0.5	10	30
Nickel	1455	U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455	U	0.0006	0.0056	0.5	10	50
Antimony	1455	U	0.0057	0.057	0.06	0.7	5
Selenium	1455	U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455	U	0.020	0.20	4	50	200
Chloride	1220	U	120	1200	800	15000	25000
Fluoride	1220	U	< 0.050	< 1.0	10	150	500
Sulphate	1220	U	59	590	1000	20000	50000
Total Dissolved Solids	1020	N	490	4900	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610	U	5.6	56	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	7.3

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

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I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Amended Report

Report No.:	23-28353-4		
Initial Date of Issue:	19-Sep-2023	Date of Re-Issue:	19-Sep-2023
Re-Issue Details:	This report has been revised and directly supersedes 23-28353-3 in its entirety		
Client	Soiltechnics Limited		
Client Address:	1st Floor Unit 9 Westpoint Enterprise Park Clarence Avenue Trafford Park Manchester M17 1QS		
Contact(s):	Admin		
Project	STP3966D Rockingham Enterprise Area, Corby		
Quotation No.:	Q23-32322	Date Received:	23-Aug-2023
Order No.:	POR016257	Date Instructed:	23-Aug-2023
No. of Samples:	2		
Turnaround (Wkdays):	7	Results Due:	01-Sep-2023
Date Approved:	19-Sep-2023	Subcon Results Due:	14-Sep-2023
Approved By:			

Details: Stuart Henderson, Technical Manager

Results - Soil

Project: STP3966D Rockingham Enterprise Area, Corby

Client: Soiltechnics Limited	Chemtest Job No.:				23-28353	23-28353
Quotation No.: Q23-32322	Chemtest Sample ID.:				1692631	1692632
Order No.: POR016257	Client Sample Ref.:				3	3
	Client Sample ID.:				SP01.3	SP02.3
	Sample Location:				SP01	SP02
	Sample Type:				SOIL	SOIL
	Top Depth (m):				0.00	0.00
	Date Sampled:				21-Aug-2023	21-Aug-2023
Determinand	Accred.	SOP	Units	LOD		
Moisture	N	2030	%	0.020	8.0	5.0
Alkali Reserve	N	2105	g NaOH eq	0.010	< 0.010	< 0.010
Dioxin (Subcon)	S		ng/kg	N/A	See Attached	See Attached
Furans (Subcon)	S		ng/kg	N/A	See Attached	See Attached
pH	M	2010		4.0	10.9	10.6
Chromium (Hexavalent)	N	2490	mg/kg	0.50	0.57	< 0.50

Results - 2 Stage WAC

Project: STP3966D Rockingham Enterprise Area, Corby

Chemtest Job No: 23-28353							Landfill Waste Acceptance Criteria			
Chemtest Sample ID: 1692631							Limits			
Sample Ref: 3							Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample ID: SP01.3										
Sample Location: SP01										
Top Depth(m): 0.00										
Bottom Depth(m):										
Sampling Date: 21-Aug-2023										
Determinand	SOP	Accred.	Units							
Total Organic Carbon	2625	M	%				0.24	3	5	6
Loss On Ignition	2610	M	%				2.9	--	--	10
Total BTEX	2760	M	mg/kg				< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg				< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg				< 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg				< 2.0	100	--	--
pH	2010	M					10.9	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg				0.0080	--	To evaluate	To evaluate
Eluate Analysis			2:1 mg/l	8:1 mg/l	2:1 mg/kg	Cumulative mg/kg 10:1	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg			
Arsenic	1455	U	0.0010	< 0.0002	0.0019	0.0010	0.5	2	25	
Barium	1455	U	0.012	0.006	0.023	0.070	20	100	300	
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5	
Chromium	1455	U	< 0.0005	0.0040	< 0.0005	0.036	0.5	10	70	
Copper	1455	U	0.0098	0.020	0.020	0.010	2	50	100	
Mercury	1455	U	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.01	0.2	2	
Molybdenum	1455	U	0.012	0.036	0.023	0.34	0.5	10	30	
Nickel	1455	U	0.0021	< 0.0005	0.0041	0.0021	0.4	10	40	
Lead	1455	U	< 0.0005	0.0032	< 0.0005	0.029	0.5	10	50	
Antimony	1455	U	0.0023	0.047	0.0047	0.43	0.06	0.7	5	
Selenium	1455	U	0.0020	0.0017	0.0039	0.017	0.1	0.5	7	
Zinc	1455	U	< 0.003	0.031	< 0.003	0.28	4	50	200	
Chloride	1220	U	1100	130	2300	2300	800	15000	25000	
Fluoride	1220	U	0.24	< 0.050	< 1.0	< 1.0	10	150	500	
Sulphate	1220	U	820	150	1600	2200	1000	20000	50000	
Total Dissolved Solids	1020	N	4400	800	8700	12000	4000	60000	100000	
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-	
Dissolved Organic Carbon	1610	U	70	9.9	140	160	500	800	1000	

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	8.0

Leachate Test Information	
Leachant volume 1st extract/l	0.335
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.178

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - 2 Stage WAC

Project: STP3966D Rockingham Enterprise Area, Corby

Chemtest Job No: 23-28353							Landfill Waste Acceptance Criteria			
Chemtest Sample ID: 1692632							Limits			
Sample Ref: 3							Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample ID: SP02.3										
Sample Location: SP02										
Top Depth(m): 0.00										
Bottom Depth(m):										
Sampling Date: 21-Aug-2023										
Determinand	SOP	Accred.	Units							
Total Organic Carbon	2625	M	%				0.46	3	5	6
Loss On Ignition	2610	M	%				3.2	--	--	10
Total BTEX	2760	M	mg/kg				< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg				< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg				< 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg				< 2.0	100	--	--
pH	2010	M					10.6	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg	0.0040	--	To evaluate	To evaluate			
Eluate Analysis			2:1 mg/l	8:1 mg/l	2:1 mg/kg	Cumulative mg/kg 10:1	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg			
Arsenic	1455	U	0.0027	0.0003	0.0053	0.0049	0.5	2	25	
Barium	1455	U	0.005	< 0.005	0.011	0.0033	20	100	300	
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5	
Chromium	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	70	
Copper	1455	U	0.018	0.0088	0.037	0.012	2	50	100	
Mercury	1455	U	0.00021	< 0.00005	0.00041	0.00013	0.01	0.2	2	
Molybdenum	1455	U	0.21	0.020	0.42	0.32	0.5	10	30	
Nickel	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.4	10	40	
Lead	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	50	
Antimony	1455	U	0.040	0.028	0.080	0.29	0.06	0.7	5	
Selenium	1455	U	0.017	0.0017	0.034	0.027	0.1	0.5	7	
Zinc	1455	U	< 0.003	< 0.003	< 0.003	< 0.003	4	50	200	
Chloride	1220	U	960	46	1900	1000	800	15000	25000	
Fluoride	1220	U	0.14	< 0.050	< 1.0	< 1.0	10	150	500	
Sulphate	1220	U	800	92	1600	1400	1000	20000	50000	
Total Dissolved Solids	1020	N	4100	1700	8200	19000	4000	60000	100000	
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-	
Dissolved Organic Carbon	1610	U	54	4.2	110	74	500	800	1000	

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	5.0

Leachate Test Information	
Leachant volume 1st extract/l	0.341
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.110

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2105	Alkali Reserve	Alkali Reserve	Titration
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com