

PROPOSED INERT WASTE RECOVERY
TEN YARDS LANE QUARRY, DENHOLME,
WEST YORKSHIRE

HYDROGEOLOGICAL RISK ASSESSMENT

Prepared for

Silkstone Environmental
Limited

March 2026
Ref:033/57/tylq/hra/0326



S M Foster Associates Limited
Hydrological and Hydrogeological Consultants

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1. Introduction

1.1 Report context

This Hydrogeological Risk Assessment (HRA) relates to proposed inert waste recovery at Ten Yards Lane Quarry, Denholme, West Yorkshire. The site is operated by Birks Royd Stone Limited, The Quarry, Ten Yards Lane, Thornton, Bradford, West Yorkshire. This report has been prepared by S M Foster Associates Limited, Hydrological and Hydrogeological Consultants, 7 Bownas Road, Boston Spa, Wetherby, West Yorkshire, LS23 6EX.

Ten Yards Lane Quarry is established in the Pennine Lower Coal Measures. A quarry has been present at the site for many years and has most recently been in continuous operation since June 1985. Some areas of the quarry site had been previously backfilled and have subsequently been subject to final restoration to original ground level as part of the approved restoration scheme for the site.

The quarry is established in the Elland Flags and mineral extraction is continuing in a south westerly direction. The approved restoration scheme for the current workings requires infilling to return the site to original ground level. Importation of inert fill materials is required to allow achievement of the approved scheme.

This HRA has been prepared to support a waste recovery permit application related to deposition of inert fill materials, as required, to achieve the final restoration profile. Available records indicate the potential presence of historic landfilling beneath restored areas of the site. As a consequence, the Environment Agency has advised¹ that a bespoke waste recovery permit is required for this site.

This HRA has been prepared following a detailed site hydrological survey, new hydrogeological baseline assessment and conceptual hydrogeological model development. Given the relatively high hydrological sensitivity of the site, located in close proximity to Doe Park Reservoir, detailed quantitative risk assessment has been undertaken to investigate risk to local water resources. Risk assessment has been supported by development of a probabilistic risk model using the Environment Agency's LandSim modelling tool.

¹ Environment Agency (2023). Email to SEL date 24/10/2023

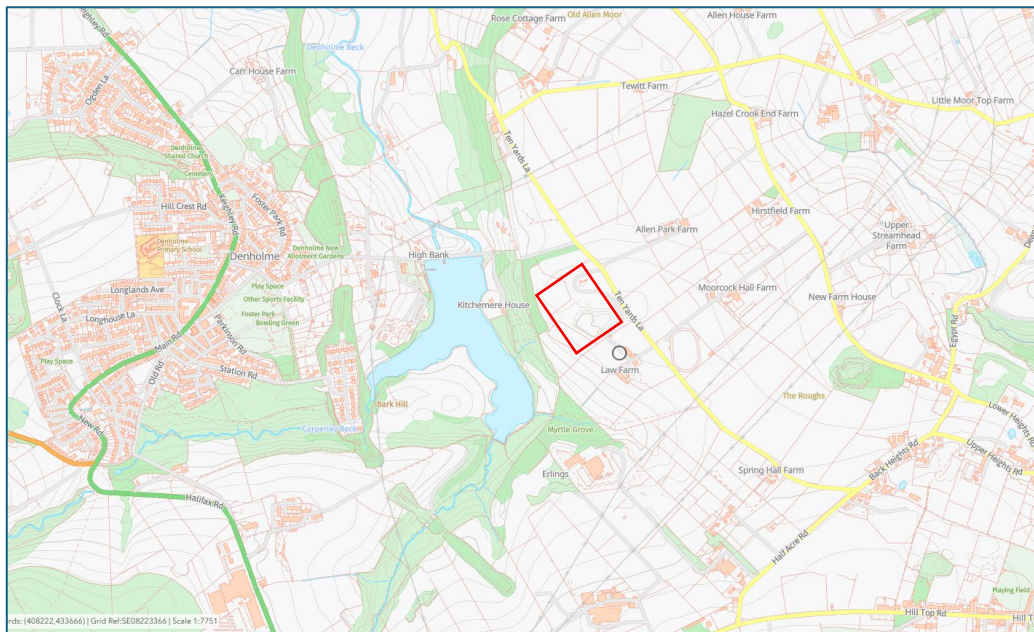
1.2 Conceptual hydrogeological site model

Assessment of existing hydrological and hydrogeological conditions at the site and surrounding area has been undertaken by reference to published information sources, site hydrological survey and reference to site specific ground investigation data.

1.2.1 Site location, land-use and hydrological context

Ten Yards Lane Quarry is located to the west of Ten Yards Lane in Thornton, near Denholme in Bradford. The quarry site is accessed directly from Ten Yards Lane. The current working area, the permit application area, is situated in the eastern and southern areas of the quarry site with land to the north and west already fully restored. Site location is shown in Figure 1.

Figure 1: Site location © Ordnance Survey



The quarry site is surrounded on all sides by agricultural land consisting of rough pasture and livestock farming. The nearest residential property is Kitchmere House located approximately 150 m to the west of the western site boundary. Doe Park Reservoir is located approximately 120 m from the western site boundary at the closest point. An aerial view of the quarry in relation to surrounding land use is presented as Figure 2.

The quarry is located within the surface water catchment of Denholme Beck which flows south to north via Doe Park Reservoir. There are no surface water features within the quarry site. Springs close to the western site boundary support streams that drain directly to the Doe Park Reservoir. The reservoir is operated by Yorkshire Water as a public water supply reservoir. The location of the site in relation to local hydrology is shown on Drawing 033/57/01.

Doe Park Reservoir receives inflow from both Carperley Beck and Denholme Clough to the south of Ten Yards Lane Quarry site. Outflow from the reservoir flows northwards along Denholme Beck to feed Hewenden Reservoir approximately 1.2 km to the north.

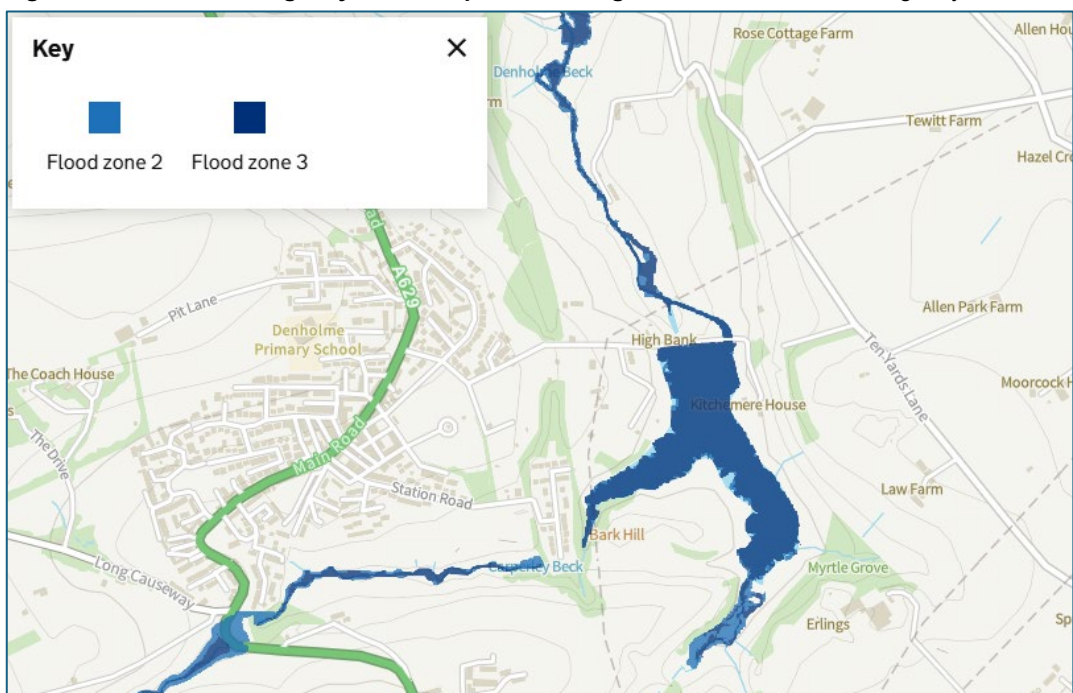
FEH catchment modelling indicates that the reservoir receives inflow from a catchment area of 7.95 km² extending from Thornton Moor in the west and Denholme gate in the south.

Figure 2: Aerial view of Ten Yards Lane Quarry © Ordnance Survey



The only other water feature in the vicinity of the quarry is a small spring that originates from strata approximately 50 m to the west of the application area. The spring emerges from a brick built headwall and flows in a shallow channel westwards to Doe Park Reservoir. The spring was visited on 13th March 2026 and observed to be flowing at approximately 0.5 l/s with clear water.

Figure 3: Environment Agency Flood Map for Planning extract © Environment Agency



The Environment Agency Flood Map for Planning confirms that the quarry and surrounding area is designated Flood Zone 1 and therefore is not considered to be at risk of fluvial flooding. An extract from the flood map is included as Figure 3. The Environment Agency surface water flood risk map for the area indicates that, with the exception of a shallow depression within the quarry site, the only areas considered to be at risk of surface water flooding are the routes of local surface watercourses.

Reference to the Defra mapping of the Site and surrounding area confirms that there are no statutory or non-statutory designed sites within the area and no other defined hydrologically dependent features.

Surface water quality in Harden Beck downstream of Hewenden Reservoir to the north east of the Site was last determined in 20000 resulting in a GQA quality classification of B.

1.2.2 Local geology

As shown in the geological report at Appendix A, British Geological Survey (BGS) mapping of the site and surrounding area indicates that Ten Yards Lane Quarry is established in the Elland Flags sandstone of the Pennine Lower Coal Measures consisting of interbedded mudstone, siltstone and sandstone. There is no recorded superficial cover.

Permitted mineral extraction incorporates excavation to a depth of up to 26 mbgl in the south eastern part of the quarry. With pre-extraction ground level of approximately 295 mAOD, the minimum floor elevation is 269 mAOD. Lithological sections for the quarry site indicate interbedded mudstone, sandstone and flagstone. Borehole logs provide a general geological succession for the site as summarised in Table 1. Borehole logs, locations and the planned base of excavation are shown on drawings at Appendix B

Table 1: General geological succession at Ten Yards Lane Quarry

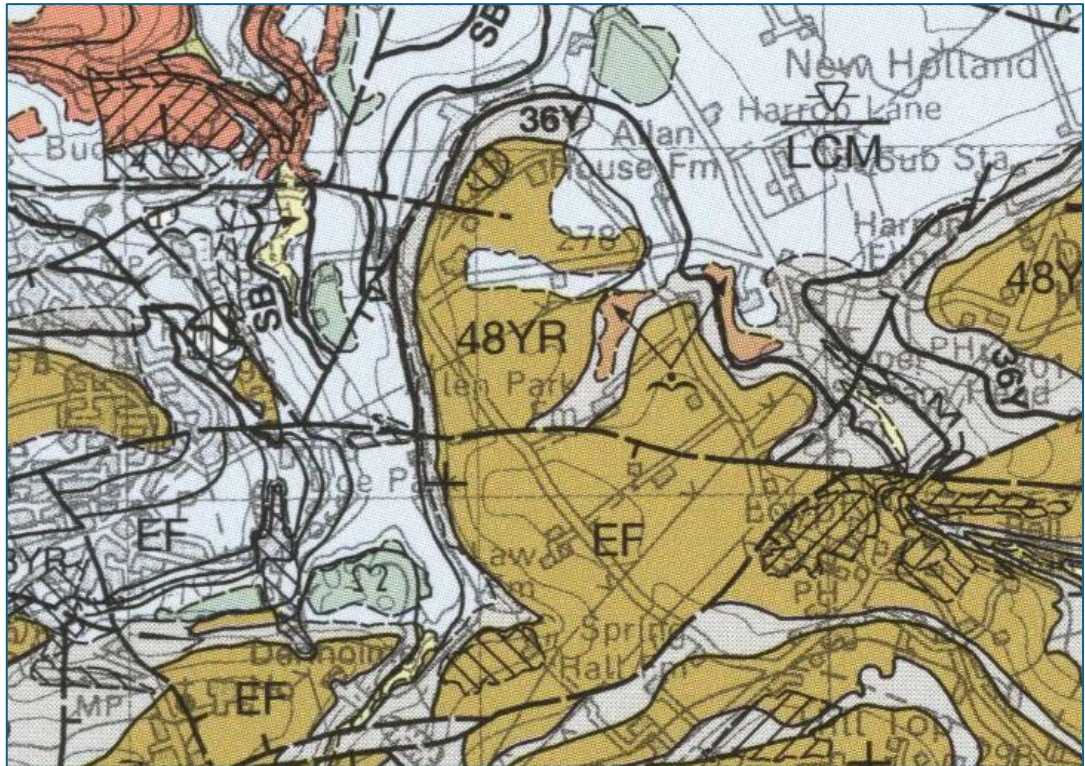
Lithology	Thickness (m)
Brown Sandstone	13
Grey Mudstone	7
Brown Sandstone	6
Grey Mudstone	1
Brown Sandstone	2
Grey Shale/Mudstone	21.5+

British Geological Survey (BGS) mapping of the area (Sheet 69 Bradford) indicates that the Elland Flags are generally dipping to the east at an angle of 4 – 9° with direction of dip influenced by local and regional faulting. This is consistent with the configuration of quarry in which the deepest excavations are located at the eastern side of the site. The geological structure in the area is shown on Figure 4.

The Elland Flags are underlain by coal measure mudstone with a mapped thickness of up to 50 m. Historic borehole logs in the vicinity of Ten Yards Lane Quarry indicates a mudstone thickness of 15 m beneath the Elland Flags and above the underlying 80 Yard

Rock. As indicated in Table 1, borehole records demonstrate over 21.5 m of mudstone at BH1 in the north of the site.

Figure 4: Extract from BGS Sheet 69 Bradford showing general geological structure in the vicinity of Ten Yards Lane Quarry © BGS



As shown in Figure 4, the Elland Flags are faulted against the 48 Yard Rock to the north with an extensive east-west trending fault approximately 100 m to the north of the application area.

Survey of historic land use at the site indicates the presence of a former landfill in the north western corner of the site, but outside the permit application area. As indicated in Envirocheck data reports at Appendix A, the area is identified as a landfill that received inert waste and operated between March 1969 and December 1974. There are no other available records of historical landfilling at the site.

The majority of the area identified as a historic landfill site was re-worked to recover stone by the current site operator several years ago and the area has now been backfilled and fully restored to greenfield land at original ground level. The site operator reports that no waste deposits were encountered whilst working in the area and there was no evidence to indicate that the site received waste materials. It is speculated that, whilst a permission to deposit inert waste was obtained by the previous site owner, the quarry was never actually used as a waste repository due to preferential use of a nearby historic landfill at Black Dyke Quarry.

1.2.3 Hydrogeology

The Pennine Lower Coal Measures bedrock is designated a Secondary A Aquifer by the Environment Agency, based on the following definition.

Secondary A Aquifers are permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases form an important source of base flow to rivers.

In general, coal measures strata consist of a sequence of interbedded mudstones, siltstones and sandstones, with associated coals and seatearth. Sandstone units within the sequence tend to have greatest capacity for storage and transmission of groundwater, although many sandstone horizons are relatively impersistent and exhibit highly variable thickness. The highly indurated nature of most coal measures sandstones means that groundwater flow tends to occur via transmissive discontinuities, where present. Weathered or fractured sequences within coal measures mudstones may also have limited potential for storage and lateral transmission of groundwater. The interlayered nature of coal measures strata, dominated by lower permeability mudstones, tends to preclude the development of any significant vertical hydraulic continuity and hence the more permeable sandstone horizons tend to act as discrete aquifer units.

The Elland Flags constitute one of the more important Lower Coal Measures sandstone aquifers in the area², although water resource significance is influenced by aquifer partitioning due to local faulting. The Elland Flags form a series of jointed and fractured sandstone, siltstone and mudstone beds. Any groundwater present in the Elland Flags in the vicinity of Ten Yards lane Quarry is likely to be flowing at the base of the sequence at the junction with the underlying mudstone.

Groundwater flowing along mudstone boundaries within multi-layered coal measures sequence tends to emerge at springs and issues where stratigraphic junctions are intersected. As shown on Drawing 033/57/01, two springs emerge from the base of the Elland Flags to the west and south west of the quarry site. The topographic elevation of the spring line suggests that groundwater is emerging at an elevation of approximately 255 mAOD around the western boundary of the site with a north east-south west hydraulic gradient. On this basis the rest groundwater level within the quarry site would be approximately 260 mAOD, well below the planned base of extraction at approximately 269 mAOD.

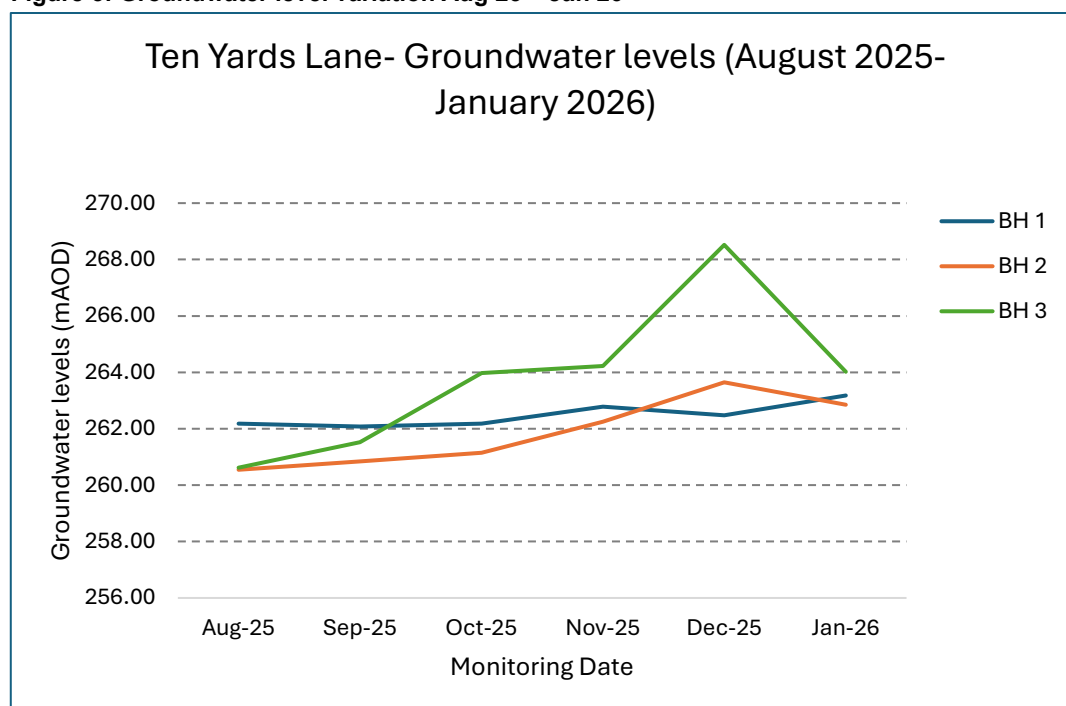
Three groundwater monitoring boreholes were installed at the site in 2025. Borehole locations are shown on drawings at Appendix B. On the basis of the inferred groundwater flow direction, as discussed above, two of the boreholes are located down-gradient (BH2 and BH3) and the third (BH1) is located up-gradient. Groundwater levels and groundwater quality has been monitored on a regular basis since borehole installation. Groundwater levels for the period August 2025 to January 2026 are presented in Figure 5.

As shown in Figure 5, during August 2025 the observed groundwater level in BH1 was approximately 262.0 mAOD with levels at BH2 and BH3 approximately 260.5 mAOD. This is consistent with the local hydraulic gradient determined from spring locations. During site hydrological survey in March 2026 it was observed that a substantial volume of water had accumulated in the base of the deeper excavations within the quarry. It was

² Environment Agency. (2000). The physical properties of minor aquifers in England and Wales. R&D publication 68. NERC 2000.

noted that in two locations, excavation had progressed to greater depth than 269 mAOD. Accumulated water within the quarry is considered to be the result of excessive rainfall during early 2026. Elevated water level in BH3 in particular, is likely to be representative of water level within the locally flooded excavation area rather than a true representation of groundwater at the base of the Elland Flags. As indicated on Figure 5, by the end of January groundwater level at BH3 had started to decline.

Figure 5: Groundwater level variation Aug 25 – Jan 26



The above analysis suggests that groundwater in the Elland Flags is flowing in a south westerly direction with an average hydraulic gradient of approximately 0.01. It is considered likely that any groundwater flowing through or beneath the quarry excavations is emerging at the two springs to the west and south west of the site. There is unlikely to be any significant potential for groundwater to drain vertically to underlying strata.

A search of local agency records confirms that there is one licenced groundwater abstractions within a 1km radius of the centre of the site. Details are included in full in the Envirocheck datasheet at Appendix A and summarised in Table 2.

Table 2: Licenced groundwater abstractions within 1km radius of Ten Yards lane Quarry

Licence No.	Owner	Location	Distance from site (m)	Source
Ne/027/0016/017	Omega Proteins Ltd	Erling Works – Boiler feed water	478 S	LCM

Records indicate that groundwater abstracted under licence Ne/027/0016/017 is abstracted from a borehole. There are no available records to indicate the depth of the borehole or the source of groundwater. However, given that groundwater present in the Elland Flags beneath the quarry site appears to occur at shallow depth, there may be

insufficient resource available to meet industrial demand. Groundwater may therefore be abstracted from greater depth e.g. the underlying 80 Yard Rock.

It is noted that there is usually a nominal 50 m radius groundwater source protection zone (SPZ) around licenced groundwater abstractions. Available records (Magic map) show that there is no SPZ at the Erling Works abstraction. This may mean that the abstraction is no longer operational. It is understood that the only previously identified private water supply (OWS) in the area, at Kitchemere House, is no longer in use and was replaced by a mains water supply several years ago.

Groundwater quality data for all three monitoring boreholes is available for each of the six months from August 2025 to January 2026. Full details are included for reference at Appendix C. Analytical results demonstrate that groundwater at the base of the Elland Flags is uncontaminated. There is a general absence of heavy metals in groundwater and no evidence of organic contamination. Monitoring data indicates that, in general, groundwater down-gradient of the quarry site is slightly better quality than groundwater up-gradient, confirming that extractive operations are having no adverse impact on local groundwater quality.

The only observed exceedance of EAL, based on the MRV for hazardous substances, is the total PAH content of groundwater samples. In comparison to an MRV of 0.1 ug/l, up-gradient groundwater results indicate a maximum total PAH value of 7.07 ug/l with maximum values of 9.42 ug/l and 9.88 ug/l at BH2 and BH3 respectively. Reference to PAH data confirms that the majority of the PAH content is derived from phenanthrene and pyrene, both of which are related to coal tar (creosote) sources. Given the similarity of PAH content up-gradient and down-gradient of the site it is considered unlikely that such substances are derived from quarry activity and may be naturally derived from drainage through coal measures strata.

Whilst there is no data to determine the quality of water in either of the peripheral springs, during on-site observation there was no visual evidence of any contamination of flowing spring water at the western spring.

It is apparent, on the basis of groundwater quality analysis, that if landfilling of waste materials did occur at the north western corner of the site up until 1974, it is having no adverse impact on groundwater quality at the base of the Elland Flags. Given that the western spring is located at the southern boundary of the area defined as a former inert landfill, associated with backfilling previous quarry workings, there is no evidence to indicate contamination of groundwater as a consequence of historic landfilling.

1.2.4 *Conceptual hydrogeological model*

Potential hydrogeological impacts of the proposed development have been assessed by reference to a standard source-pathway-receptor approach to impact assessment. The source-pathway-receptor relationships at the site are illustrated through the development of a conceptual hydrogeological model which is presented on Drawing 033/57/02.

Sources

The site would be licensed to accept inert wastes only. For the purpose of this assessment it has been assumed that all waste received at the site would comply with the inert waste acceptance criteria (WAC). The inert waste WAC limit values have been used to derive a source term for risk modelling.

By definition, inert waste deposited at the site should be stable and non-reactive. However, given the types of waste accepted, there is potential for inclusion of trace quantities of some substances that may be leachable in infiltrating rainwater. With particular reference to the potential presence of concrete, construction waste and ceramics it is considered that waste materials could contain trace amounts of the following substances:

- Chloride
- Sulphate
- Arsenic
- Lead

Sulphate is included to represent the potential for construction waste to contain small amounts of plasterboard and similar products. Arsenic and lead can be present in glazes or paints used on ceramic products, tiles etc. Chloride is included as a reference conservative substance. For the purpose of this assessment it has been assumed that all waste received at the site would comply with the inert waste acceptance criteria (WAC). The inert waste WAC limit values have been used to derive a source term for risk modelling.

Limit value concentrations in mg/l have been derived by division of the L/S 10 l/kg leach test data by 10. The analysis indicates that several substances included in the WAC would be below the UK Drinking Water Standard (UKDWS) concentration at source and therefore achieve the relevant environmental assessment level (EAL) without any further attenuation. With the exception of the four substances listed above, such substances have been excluded from the source term for risk assessment.

Table 3: Inert waste source term derivation

Substance	Reference concentration (mg/l)	EAL (mg/l)
Arsenic	0.05	0.01
Barium	2.00	1.00
Cadmium	0.004	0.0001
Chloride	14 - 120	250
Lead	0.05	0.0002
Nickel	0.04	0.02
Sulphate	73 - 690	250

The source term has been developed from substances that would exceed the UKDWS at source. The source term used in all risk assessment is defined in Table 3. In addition, a source concentration for chloride and sulphate has been determined by reference to

historic analytical data³ for comparable inert waste leachate obtained from other sites. The full source term is presented in Table 3

Pathways

At full development, the quarry excavation area would be as indicated on drawings at Appendix B. The quarry floor would be underlain by residual interbedded layers of sandstone and mudstone above the underlying lower coal measures mudstone. Areas of the current excavation that have extended below the planned base of working would be infilled with on-site quarry overburden to bring the floor level back up to planned levels. The top of the underlying mudstone formation is estimated to be approximately 248 - 262 mAOD across the site with groundwater at approximately 260 mAOD.

As shown on Drawing 033/57/02, the above analysis indicates that the excavation floor would be underlain by 9-20 m thickness of unsaturated Elland Flags, consisting of interbedded sandstone and mudstone, above the underlying lower coal measures mudstone.

As discussed above, there is no significant potential for groundwater at the base of the Elland Flags to drain vertically due to the low vertical permeability of the underlying mudstone. All potential groundwater flow pathways are therefore based on lateral flow at the base of the flags. Faults to the north and south of the quarry site may limit the potential for groundwater flow across fault lines. With a south westerly direction of flow, the primary pathway for groundwater flowing beneath the site would be south westerly flow through the lower few metres of the Elland Flags, towards surface water discharge at peripheral springs. Pathways are defined as follows.

Pathway 1 – Vertical drainage from inert waste deposits through the unsaturated zone followed by lateral drainage to local spring receptors.

Potential contaminant migration pathways are shown graphically on Drawing 033/57/02.

Contaminant migration characteristics via Pathway 1 would be influenced by the hydrogeological properties of mudstone and sandstone formations and local groundwater flow conditions. There is no site-specific data to define the hydraulic conductivity of the Elland Flags, or the lower coal measures in general, at the quarry site. Reference to published data sets⁴ indicates that coal measures sandstones are generally extremely hard and dense with little primary porosity and low intergranular permeability. Groundwater storage and movement occurs predominantly within and through fractures in the sandstones.

Analysis of core samples from coal measures sandstones indicates average Lower Coal Measures porosity and permeability of 15% and 0.42 m/day respectively. There is very limited pumping test information on hydraulic properties of coal measures strata, with available data suggesting a transmissivity of 4 to 40 m/day. If, for the dataset referenced,

³ Todd (2005) Groundwater hydrology

⁴ Environment Agency. (2000). The physical properties of minor aquifers in England and Wales. R&D publication 68. NERC 2000.

an average sandstone thickness of 10 m is assumed, with fully saturated conditions, a hydraulic conductivity range of 0.4 to 4 m/day results. On the basis of available information it is reasonable to assume that coal measures sandstones typically have intergranular permeability of around 0.4 m/day (4.6×10^{-6} m/sec) with secondary fracture-based permeability an order of magnitude higher at around 4m/day (4.6×10^{-5} m/sec).

Laboratory hydraulic conductivity testing on coal measures mudstone at a nearby location returned a value of 8.8×10^{-13} m/sec. However, it is acknowledged that this is a rock mass hydraulic conductivity and may not be representative of mudstone hydraulic conductivity at site-scale when fracture induced secondary porosity is accounted for if present. A representative mudstone hydraulic conductivity value of 1×10^{-9} m/s has been assumed in the HRA.

Receptors

Baseline hydrogeological assessment has provided the basis to identify potential discharge points from the groundwater systems at and beneath the quarry site. Available evidence indicates that groundwater in the Elland Flags discharges to peripheral springs at the western side of the application site. Both springs drain directly to Doe Park Reservoir.

Review of the location of local licenced groundwater abstractions in relation to hydrological and geological data for the area has demonstrated that a single licenced abstraction is located within a 1km radius of the quarry site. Whilst available evidence indicates that groundwater abstracted from a borehole at Erling Works, 478 m south of the quarry site, is likely to be derived from greater depth, it is included in this risk assessment as a potential receptor of any contamination arising from waste deposition at the site. On the basis of the above analysis, the following receptors are relevant to hydrogeological risk assessment.

- Groundwater in the Elland Flags Sandstone
- Spring flow at the western site boundary
- Groundwater at Erling Works
- Surface water in Doe Park Reservoir

Groundwater in the Elland Flags beneath the site is relevant to risk associated with migration of any hazardous substances where the relevant compliance point is the base of the unsaturated zone. For non-hazardous substances, the relevant compliance points are the downstream receptors at local springs, abstractions and surface water systems.

2. Hydrogeological risk assessment

2.1 The nature of the hydrogeological risk assessment

Hydrogeological risk assessment has been undertaken on a tiered basis, in accordance with current Environment Agency guidance. The hydrogeological sensitivity of Ten Yards Lane Quarry is considered to be relatively high due to the location of Doe Park Reservoir close to the western site boundary. Although located on a Secondary A Aquifer, the aquifer designation primarily relates to the more permeable sandstone units within the

Lower Coal Measures Formation beneath the site. The site is underlain by low permeability coal measures mudstone.

The proposed waste recovery activity would be restricted to importation of inert waste materials only. As a consequence, the activity would involve the use of materials with low polluting potential. Tier 1 – Qualitative risk screening has been undertaken to establish whether the activity would have the potential to introduce risk to local groundwater systems and surface water receptors. Where necessary, more detailed Tier 3 – detailed quantitative risk assessment has been undertaken in relation to specific substances and receptors.

2.2 The proposed assessment scenarios

Risk assessment has been undertaken for the full operational phase of the recovery activity and for the post-completion period. It is assumed that recovery operations will take place over a period of up to 10 years. The site will then be restored by placement of soils to produce a suitable drainage profile. Completion risk assessment has been undertaken for the remaining period.

Lifecycle phases

The composition of waste accepted at the site is expected to remain relatively constant over the lifetime of the facility. Lifecycle phases are therefore restricted to pre and post operational phases in which there would be no major hydrogeological change.

The source term is defined by the list of substances that could be present in the waste in trace quantities. Source term definition has been based on the results of leachate composition analysis from other sites accepting similar waste and analysis of inert waste WAC values. The source term used in the LandSim model is defined in Table 4.

Table 4: Inert waste source term derivation

Substance	Source term concentration (mg/l)
Arsenic	0.05
Barium	2.00
Cadmium	0.004
Chloride	14 - 120
Lead	0.05
Nickel	0.04
Sulphate	73 - 690

2.3 Review of technical precautions

The site would be licensed to receive inert waste. As discussed at Section 1 of this report, the site is located on a Secondary A Aquifer. In addition to a layer of compacted quarry backfill, the quarry floor consists of low permeability coal measures mudstone that would form a natural hydraulic barrier between inert waste materials and the lower sandstone aquifer. Groundwater monitoring records indicate that an unsaturated zone of 9 - 20 m would be present beneath the base of the inert waste material.

2.4 Tier 1 – Qualitative risk screening

Tier 1 risk screening has been undertaken in accordance with Environment Agency guidance on groundwater risk assessment for environmental permitting. Derivation of a representative inert waste source term, as detailed at Section 1, has already involved initial risk screening to establish which substances potentially present in inert waste materials could be present at concentration above the relevant EQS. The analysis resulted in the conclusion that five substances could exceed the relevant EQS and, together with two other representative substances, should therefore be subject to further risk analysis.

Of the seven priority substances, arsenic, cadmium and lead are defined as hazardous substances. Barium, chloride, nickel and sulphate are defined as non-hazardous substances. The compliance point for hazardous substances is entry to groundwater i.e. the base of the unsaturated zone. Dilution and dispersion processes in the aquifer are therefore not relevant to risk assessment for hazardous substances. Relevant attenuation processes are restricted to processes active during migration through the unsaturated zone. For non-hazardous substances, the compliance point is defined as the relevant downstream receptor and therefore dilution in the aquifer is relevant.

Dilution factors for the contaminant migration pathway have been calculated by comparison of potential leachate migration rates and groundwater flow rates beneath or adjacent to the quarry site.

A provisional estimate of the effect of attenuation processes in the unsaturated zone, consisting of the in-situ sandstone and mudstone, has been undertaken by estimation of substance retardation factors on the following basis.

Retardation factor (R_f) = $1 + (p/n) \times K_d$, where

p = bulk density of the mudstone (g/cm^3)

n = effective porosity of the mudstone

K_d = substance specific distribution coefficient (ml/g)

Retardation, resulting from a combination of processes including ion exchange, sorption, degradation and precipitation/dissolution, can result in significantly increased substance travel time leading to a reduction in peak concentration. Retardation effects have been estimated through calculation of changes to the groundwater recharge volume over an increased migration timescale and hence proportionate reduction in substance concentration. Unsaturated zone properties and substance specific parameters have been derived from other quantitative studies of inert leachate migration through unconsolidated granular materials. Most quantitative assessments apply a range of K_d values to represent parameter uncertainty. For this Tier 1 assessment, adopting a conservative approach, minimum K_d values have been applied to represent reasonable 'worst case' conditions. The results are presented in Table 5.

Table 5: Estimated substance concentrations after attenuation

Substance	Source term (mg/l)	EAL (mg/l)	Assumed minimum Kd	Retardation factor	Attenuated concentration at base of unsaturated zone (mg/l)
Arsenic	0.05	0.005	100	400	0.0001
Barium	2.00	1.00	300	1200	0.0017
Cadmium	0.004	0.0001	1.6	6.4	0.0006
Chloride	120	250	0	0	120
Lead	0.05	0.0002	27	108	0.0005
Nickel	0.04	0.02	400	1600	0.0005
Sulphate	690	250	0	0	690

The results of provisional attenuation analysis, as presented in Table 5, suggest that, at the base of the unsaturated zone, the concentration of all priority substances is likely to have been reduced to below the relevant EAL, with the exception of cadmium, lead and sulphate. The difference between the estimated attenuated concentrations and the relevant EAL is generally large enough to account for uncertainty and assumptions used in the analysis. On the basis that the relevant compliance point for hazardous substances cadmium and lead is the point of entry to groundwater, the analysis indicates that there could be a discernible release of hazardous substances to groundwater. Further quantified risk analysis is required for cadmium and lead.

Table 6: Estimated substance concentrations after attenuation and dilution

Substance	Source term (mg/l)	EAL (mg/l)	Attenuated concentration at base of mudstone/barrier (mg/l)	Concentration after attenuation and dilution (mg/l)
Arsenic	0.05	0.005	0.0001	-
Barium	2.00	1.00	0.0017	0.0009
Cadmium	0.004	0.0001	0.0006	-
Chloride	120	250	120	67
Lead	0.05	0.0002	0.0005	-
Nickel	0.04	0.02	0.0005	0.0003
Sulphate	690	250	690	383

On the basis of Tier 1 analysis, the only non-hazardous substance predicted to exceed the EAL is sulphate. For non-hazardous substances the relevant compliance point is the down-gradient boundary of the site or defined down-gradient receptors. Dilution in the groundwater system is therefore relevant to non-hazardous substances. A dilution factor has been estimated by comparison of recharge rate over the site and groundwater flow rate through the unsaturated zone beneath the site. Recharge is calculated as 20% of annual rainfall over an approximate site area of 45,000 m², resulting in a site-wide recharge rate of approximately 20 m³/d. Groundwater flow is estimated for a mixing zone of 3 m, a hydraulic gradient of 0.01 and an average hydraulic conductivity of 4.6 x 10⁻⁵ m/s, resulting in an average groundwater flow rate beneath the site of approximately 36

m³/d. The resultant dilution factor is therefore approximately 1.8. Non-hazardous substance concentrations after dilution are presented in Table 6.

The effect of dilution would further reduce non-hazardous substance concentrations at the downstream compliance point of defined receptors.

The above Tier 1 Qualitative risk screening analysis indicates that at the relevant compliance point the concentration of all non-hazardous priority substances, with the exception of sulphate, would be reduced to below the relevant EAL following retardation and dilution.

Tier 1 analysis indicates that the concentration of hazardous substances cadmium and lead and non-hazardous substance sulphate have the potential to exceed the relevant EAL at the relevant compliance point. Further quantitative analysis is therefore required to investigate the fate of these substances in more detail. As the requirement for quantitative analysis is substance specific, rather than generic, it is appropriate to bypass Tier 2 Generic quantitative risk assessment and undertake Tier 3 Detailed quantitative risk assessment for both cadmium and lead.

2.5 Tier 3 – Detailed quantitative risk assessment

Quantified hydrogeological risk assessment has been undertaken with the LandSim v2.5 model which is approved by the EA for use in the UK. The model allows simulation of contaminant migration to multiple receptors and supports analysis of simulation uncertainty through sensitivity analysis. Full details of model configuration are provided in following sections of this report. Relevant model file names are as follows:

LandSim model files

Baseline model

Configuration files: *Ten Yards.sim*

Results file: *Ten Yards.rst*

Sensitivity analysis results files

Ten Yards varied kd.rst

Ten Yards varied kd.rst

2.5.1 Model parameterisation

Model parameterisation has been based on published data sets and site-specific information derived from previous hydrogeological studies and recent monitoring at the site. The majority of model input parameters are defined as a single value due to an absence of more detailed data from which to define data ranges. However, to produce a more representative input for substance retardation factors in granular materials alternative Kd values have been applied.

For cadmium, the LandSim reference suggests a Kd within the range 1.6 – 1500 l/kg for sand and loam. Reference to other studies for cadmium distribution indicate higher Kd

values. Kd values for cadmium in alluvium in a 1989 US study⁵ were within the range 4,430 – 6,410 l/kg and a 2003 Danish study⁶ reported Kd values in the range 5 – 3000 l/kg. On this basis a mid-point value of 1500 l/kg has been applied to cadmium for quantitative risk modelling in LandSim.

For lead, the LandSim reference suggests a Kd within the range 27 – 270,000 l/kg for sand and loam. This wide range incorporates the range of values referenced elsewhere in the literature and has therefore been applied to risk modelling in LandSim.

Full model configuration details are provided in the LandSim model file included at Appendix F. Key model input parameters are summarised in Table 7.

Table 7: Model input parameters.

PARAMETER	VALUE	DERIVATION/JUSTIFICATION
Infiltration	Infiltration to open waste – 100mm/year	Rainfall obtained from FEH rainfall ddf models for the site. Infiltration estimated by reduction of losses to evapotranspiration and surface runoff within the site.
	Infiltration through restored surface – 50mm/year	The site will be restored and re-profiled leading to increased runoff and evapotranspiration post completion.
Cell Geometry	Phase 1: Model based on 1 cell with dimensions 350m x 200m.	Dimensions abstracted from site survey drawings
	Waste thickness – uniform distribution 5 – 20m	Dimensions obtained from site survey drawings
	Waste porosity – triangular distribution (0.639,0.64,0.642)	Estimate based on average laboratory analysis of similar inert wastes from other sites
	Waste density – triangular distribution (1.58,1.59,1.60)	Estimate based on average laboratory analysis of similar inert wastes from other sites
	Waste Field capacity – triangular distribution (0.2, 0.3, 0.35) fraction	LandSim default range
	Leachate head at surface breakout – 5m	Estimate based on site levels and configuration
Leachate Inventory	Lead Leachate – single value 0.05 mg/l Cadmium	Leachate concentrations for all substances taken from leachate source term

⁵ Del Debbio J A (1990) Sorption of strontium, selenium, cadmium and mercury in soil. Radiochimica Acta 52/53 181-186

⁶ Holm PE et al (2003) Correlation of cadmium distribution coefficients to soil characteristics

	Leachate – single value 0.004 mg/l Sulphate Leachate – single value 690 mg/l	
Engineered barrier	No EBS	
Unsaturated pathway Elland Flags	Pathway length Uniform distribution 9.0 – 20.0 m Moisture content – 0.4 fraction Hydraulic conductivity 4.6×10^{-6} - 4.6×10^{-5} m/s Longitudinal dispersion – 0.3m	Data from monitoring borehole logs Estimate for unsaturated silty sand & gravel based on analytical data from other site and reference to technical literature Typical value obtained from literature Based on LandSim manual guidance using Neuman 1990 formula
Aquifer flow Elland Flags	Pathway width – 300m Mixing zone thickness – uniform distribution 2m – 9m Hydraulic conductivity 4.6×10^{-5} m/s Regional Gradient – 0.01 Pathway porosity – 0.25 fraction Pathway longitudinal dispersivity – 30m Pathway transverse dispersivity – 3m	Groundwater flow pathway width estimated from hydrogeological assessment as summarised in conceptual hydrogeological model Estimate based on conceptual hydrogeological model Typical value obtained from EA publication Physical properties of minor aquifers in England and Wales. Hydraulic gradient measured from spring levels in WHR. Typical value obtained from EA publication Physical properties of minor aquifers in England and Wales. Based on LandSim manual guidance as $0.1 \times$ pathway length Based on LandSim manual guidance and reference to technical literature as $0.1 \times$ longitudinal dispersivity.

2.5.2 Sensitivity analysis

Quantified risk modelling results are most sensitive to variation in the characteristics of the unsaturated zone. Sensitivity analysis has been undertaken to investigate variation in unsaturated zone hydraulic conductivity and substance retardation parameters. Hydraulic conductivity values have been increased by an order of magnitude. Retardation parameters have been varied to represent alternative data sets reported in the literature.

Retardation parameters for cadmium are amended to the LandSim reference range of 1.6 – 1500 l/kg and for lead are amended to a single mid-point value of 135,000 l/kg to investigate sensitivity to variation in retardation characteristics. The results of all models are presented in the following sections.

2.5.3 Accidents and their consequences

There are no engineered system to damage. Accidental spillage or local contamination within the site would be fully contained within the site boundary and managed as part of the site internal water management system without additional risk to water resources.

2.6 Emissions to groundwater

2.6.1 Hazardous substances

The potential release of hazardous substances to groundwater at the base of the unsaturated zone has been investigated through detailed quantitative risk modelling. The results are presented in full at Appendix D.

Model results indicate that over the lifetime of the proposed recovery activity and subsequent years, the peak concentration of priority substances at the base of the unsaturated zone would be as summarised in Table 8.

Table 8: Hazardous substance peak concentrations at the base of the unsaturated zone

Substance	Peak concentration (mg/l)	Time of peak concentration (yrs)
Cadmium	0.0	n/a
Lead	0.0	n/a

Model results demonstrate that, at the 95% confidence level, there would be no discernible release of either cadmium or lead at the base of the unsaturated zone.

Increasing the unsaturated zone hydraulic conductivity range by an order of magnitude to 4.6×10^{-5} to 4.6×10^{-4} m/s has no effect on the predicted concentration of either cadmium or lead at the base of the unsaturated zone.

Predicted substance concentrations with varied K_d values, as summarised at section 2.5.2, are summarised in Table 9.

Table 9: Hazardous substance peak concentrations at the base of the unsaturated zone with alternative K_d range

Substance	Peak concentration (mg/l)	Time of peak concentration (yrs)
Cadmium	0.00000035	1000
Lead	0.0	n/a

The above analysis indicates peak concentration sensitivity to variation in the Kd values applied to risk analysis for cadmium. The variation has no impact on lead concentrations. The predicted cadmium concentration of 0.00000035 mg/l would remain below the relevant EAL of 0.0001 mg/l resulting in no discernible release of cadmium to groundwater.

Whilst predicted substance concentrations are sensitive to variation in applied retardation factors, it is concluded on the basis of the best estimate of Kd values for cadmium and lead that there is low probability of a discernible release of hazardous substances to groundwater beneath the site.

2.6.2 *Non-hazardous substances*

Tier 1 risk assessment supported the conclusion that, with the potential exception of sulphate, there would be no unacceptable release of non-hazardous substances from the site. Model results demonstrate that, at the boundary monitor well, the maximum predicted concentration of sulphate would be 143 mg/l after 30 years. The predicted maximum sulphate concentration is well below the EAL of 250 mg/l. As a consequence, it is concluded that there would be no polluting release of non-hazardous substances from the infilled quarry excavation.

2.7 **Hydrogeological completion criteria**

Tier 1 and Tier 3 risk assessment has been undertaken for the site during recovery operations i.e. with inert waste materials fully open to rainfall recharge. The site would be restored with surface gradients designed to promote effective runoff of surface water. As a consequence, waste recharge rates would reduce following completion of inert waste deposition and site restoration. The site would therefore continue to meet the requirements of the Groundwater Regulations throughout its operational life and to the point of closure and permit surrender.

3. **Requisite surveillance**

3.1 **The risk based monitoring scheme**

3.1.1 *Groundwater monitoring*

A total of 3 groundwater monitoring wells have been installed at the site. Groundwater level monitoring commenced in August 2025. All wells are equipped with 50 mm diameter well screen and are therefore suitable for collection of groundwater samples from the Elland Flags sandstone beneath the site. Monitoring boreholes provide coverage of groundwater up-gradient and down-gradient of proposed waste recovery operations.

Groundwater will continue to be monitoring at up-gradient and down-gradient boreholes, as follows.

Up-gradient – BH1

Down-gradient – BH2 and BH3

Groundwater quality monitoring will continue on a monthly basis to establish background groundwater quality over a full twelve month period. It is anticipated that sampling and analysis could then reduce to quarterly. The monitoring scheme should include all priority substances plus the addition of ammoniacal nitrogen as an indicator of any organic component to the imparted materials. As risk assessment has indicated that there would be no discernible release of hazardous or non-hazardous substance, it is proposed that compliance limits are set at the relevant EAL for all substances until background groundwater quality is established. Provisional limit values for all priority substances are presented in Table 10. Limit values will need to be reviewed in response to background groundwater quality data when available.

Table 10: Proposed limit values

Substance	Inert WAC limit value (mg/l)	EAL (mg/l)	Proposed limit values (mg/l)
Ammoniacal nitrogen		0.5	0.5
Arsenic	0.05	0.005	0.005
Barium	2.00	1.00	1.00
Cadmium	0.004	0.0001	0.0001
Chloride	80	250	250
Lead	0.05	0.0002	0.0002
Mercury	0.001	0.00001	0.00001
Nickel	0.04	0.02	0.02
Sulphate	100	250	250

3.1.2 Surface water monitoring

It is proposed that surface water quality monitoring is undertaken at the small stream emerging from the western spring. The surface water monitoring schedule will be consistent with the groundwater monitoring schedule with provisional limit values as defined in Table 10 until background surface water quality data is available.

4. Conclusions

4.1 Compliance with the Groundwater Regulations 2009

The hydrogeology of the site and surrounding area has been determined through prior investigation and development of a conceptual hydrogeological model.

Tier 1 Qualitative risk screening has demonstrated that inert waste recovery operations at Ten Yards Lane Quarry is unlikely to result in any discernible release of hazardous substances to groundwater and that there would be no deterioration in groundwater quality due to any release of non-hazardous substances.

Proposals for the monitoring of groundwater quality and the establishment of proposed permit limit values as part of the requisite surveillance program have been established.

The proposed development would therefore be compliant with the requirements of the Groundwater Regulations 2009.

For S M Foster Associates Limited

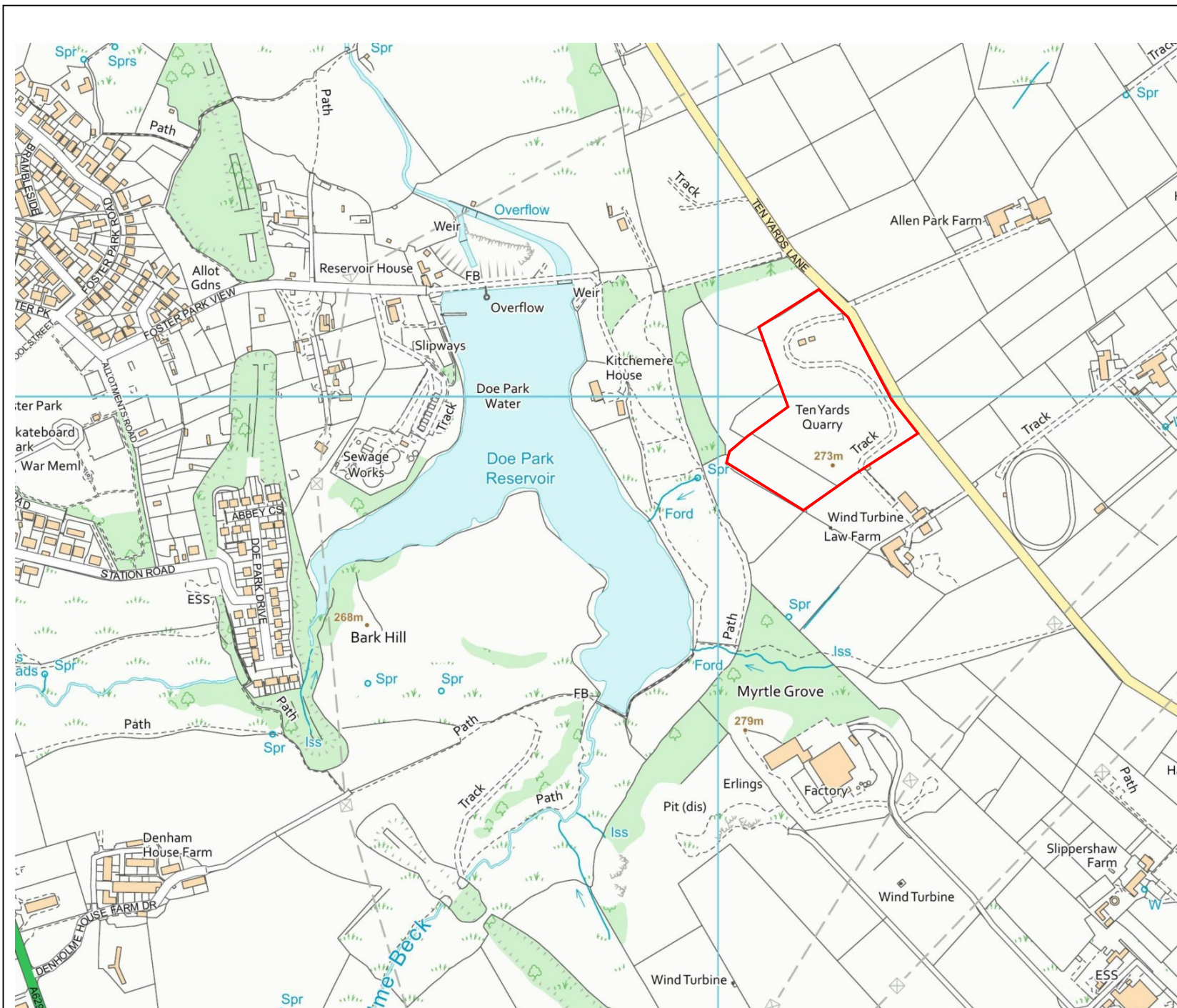


Stephen M Foster

BSc MSc PhD CGEOL MCIWEM CSi CEnv FIQ

Principal Consultant

Drawings



 Approximate site boundary

CLIENT:
SILKSTONE ENVIRONMENTAL
LIMITED

PROJECT:
INERT WASTE RECOVERY
TEN YARDS LANE QUARRY

HYDROGEOLOGICAL RISK
ASSESSMENT

Ref:033/57/01/0326

Date: March 2026

Approved: smf

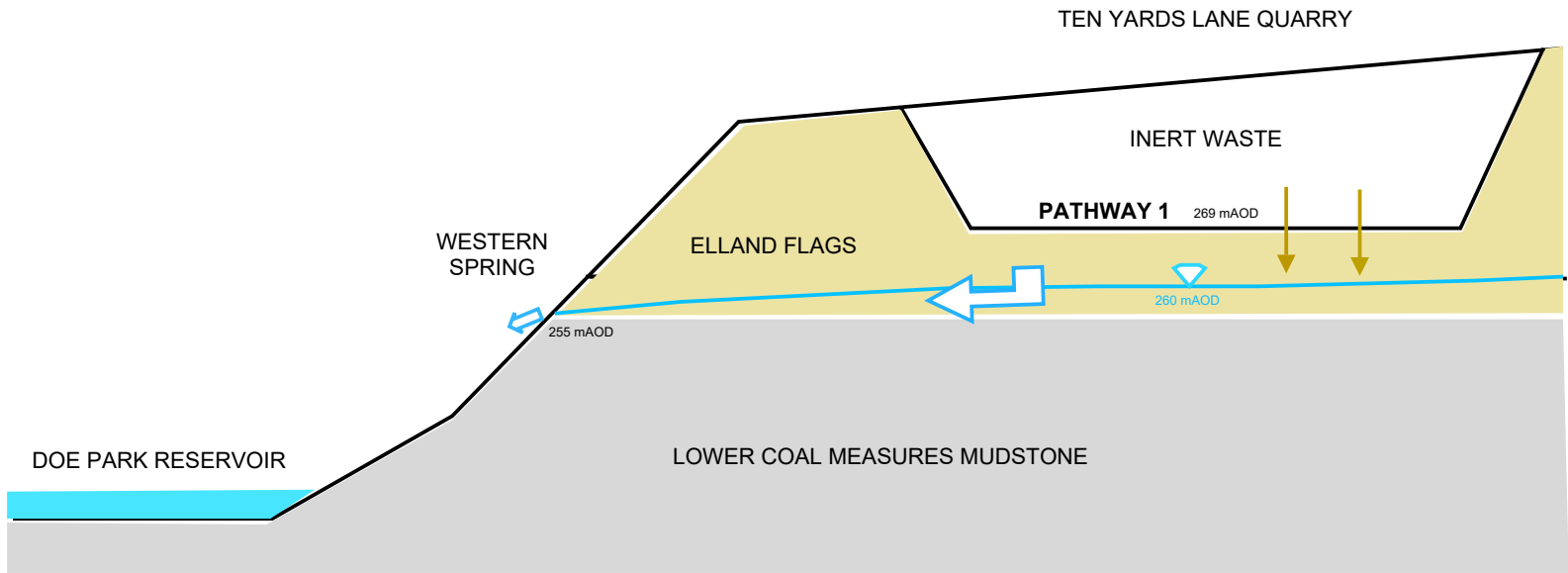
Rev:

DRAWING 033/57/01
SITE LOCATION AND LOCAL
HYDROLOGY

CONCEPTUAL HYDROGEOLOGICAL MODEL

WEST

EAST



CLIENT:
SILKSTONE ENVIRONMENTAL
LIMITED

PROJECT:
INERT WASTE RECOVERY
TEN YARDS LANE QUARRY

HYDROGEOLOGICAL RISK
ASSESSMENT

Ref:033/57/02/0326

Date: March 2026

Approved: smf

Rev:

DRAWING 033/57/02
CONCEPTUAL
HYDROGEOLOGICAL MODEL

Appendix A

Envirocheck datasheets

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

397739872_1_1

Customer Reference:

03357

National Grid Reference:

408100, 433980

Slice:

A

Site Area (Ha):

0.01

Search Buffer (m):

1000

Site Details:

Site at

Denholme

Bradford

Client Details:

Mr S Foster

SM Foster Associates Ltd

7 Bownas Road

Boston Spa

Leeds

LS23 6EX

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	21
Hazardous Substances	-
Geological	30
Industrial Land Use	41
Sensitive Land Use	46
Data Currency	47
Data Suppliers	52
Useful Contacts	53

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client. In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2				32
Prosecutions	pg 10			1	2
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control	pg 10				2
Local Authority Integrated Pollution Prevention And Control	pg 11				1
Local Authority Pollution Prevention and Controls	pg 11				2
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 11		Yes		
Pollution Incidents to Controlled Waters	pg 11			2	1
Historical Prosecutions					
Registered Radioactive Substances					
Substantiated Pollution Incident Register	pg 12			1	
Water Abstractions	pg 12			1	(*7)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 14	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 14	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 14		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 14		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 14		3	16	28
Water Framework Directive - Catchment	pg 19	Yes	Yes		
Water Framework Directive - Groundwater	pg 20	Yes			
Water Framework Directive - Surface Waters	pg 20			Yes	

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites	pg 21		1		4
Historical Landfill Sites	pg 21		1	1	7
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)	pg 23				4
Licensed Waste Management Facilities (Locations)	pg 24			3	4
Local Authority Landfill Coverage	pg 25	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 25		1	1	27
Potentially Infilled Land (Water)	pg 27				1
Registered Landfill Sites	pg 27				6
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 30	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 30	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 32		2	3	34
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 39	Yes	n/a	n/a	n/a
Mining Instability	pg 39	Yes	n/a	n/a	n/a
Man-Made Mining Cavities	pg 39				4
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 40	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 40	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 40	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 40		Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 40		Yes	n/a	n/a
Radon Potential - Radon Affected Areas	pg 40	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 40	Yes	n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 41			1	5
Fuel Station Entries					
Points of Interest - Commercial Services	pg 41				3
Points of Interest - Education and Health	pg 41				3
Points of Interest - Manufacturing and Production	pg 42		5	5	16
Points of Interest - Public Infrastructure	pg 44			8	2
Points of Interest - Recreational and Environmental	pg 45				3
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt	pg 46	1			
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (N)	0	1	408103 433984
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	170	1	408000 433850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (S)	192	1	408050 433800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	204	1	407900 433984
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (S)	284	1	408103 433700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	311	1	407800 434050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	314	1	407850 433800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	332	1	407800 433850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	334	1	407850 434200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	354	1	407750 434000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	355	1	407800 433800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	360	1	407750 434050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	368	1	407850 434250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	372	1	407750 434100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	401	1	408350 434300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	404	1	407700 433984
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	404	1	407700 434000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	406	1	407850 434300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	416	1	407800 433700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (NE)	416	1	408300 434350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	426	1	407700 433850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	454	1	407650 433984

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	455	1	407650 433950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (NW)	476	1	407800 434350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (SW)	480	1	407900 433550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	494	1	407700 433700
1	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 13 Effective Date: 22nd December 2024 Issued Date: 15th March 2024 Revocation Date: 30th March 2025 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	541	2	407633 434250
1	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 13 Effective Date: 22nd December 2024 Issued Date: 15th March 2024 Revocation Date: 30th March 2025 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	541	2	407633 434250
1	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 12 Effective Date: 31st March 2024 Issued Date: 15th March 2024 Revocation Date: 21st December 2024 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	541	2	407633 434250

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 14 Effective Date: 31st March 2025 Issued Date: 15th March 2024 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	541	2	407633 434250
1	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 14 Effective Date: 31st March 2025 Issued Date: 15th March 2024 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	541	2	407633 434250
1	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 12 Effective Date: 31st March 2024 Issued Date: 15th March 2024 Revocation Date: 21st December 2024 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	541	2	407633 434250
1	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 10 Effective Date: 6th February 2018 Issued Date: 6th February 2018 Revocation Date: 31st March 2018 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	541	2	407633 434250

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 10 Effective Date: 6th February 2018 Issued Date: 6th February 2018 Revocation Date: 31st March 2018 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	541	2	407633 434250
1	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 11 Effective Date: 1st April 2018 Issued Date: 6th February 2018 Revocation Date: 30th March 2024 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	541	2	407633 434250
1	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 11 Effective Date: 1st April 2018 Issued Date: 6th February 2018 Revocation Date: 30th March 2024 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	541	2	407633 434250
1	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 9 Effective Date: 1st April 2009 Issued Date: 14th October 2008 Revocation Date: 5th February 2018 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	544	2	407630 434250

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 9 Effective Date: 1st April 2009 Issued Date: 14th October 2008 Revocation Date: 5th February 2018 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	544	2	407630 434250
1	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 6 Effective Date: 26th March 2002 Issued Date: 26th March 2002 Revocation Date: 31st May 2002 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	544	2	407630 434250
1	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 6 Effective Date: 26th March 2002 Issued Date: 26th March 2002 Revocation Date: 31st May 2002 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	544	2	407630 434250
1	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 7 Effective Date: 1st June 2002 Issued Date: 26th March 2002 Revocation Date: 31st December 2005 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	544	2	407630 434250

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 7 Effective Date: 1st June 2002 Issued Date: 26th March 2002 Revocation Date: 31st December 2005 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	544	2	407630 434250
1	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 8 Effective Date: 1st January 2006 Issued Date: 29th May 2001 Revocation Date: 31st March 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	544	2	407630 434250
1	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 8 Effective Date: 1st January 2006 Issued Date: 29th May 2001 Revocation Date: 31st March 2009 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	544	2	407630 434250
1	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 3 Effective Date: 22nd May 2001 Issued Date: 22nd May 2001 Revocation Date: 28th May 2001 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	544	2	407630 434250

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 3 Effective Date: 22nd May 2001 Issued Date: 22nd May 2001 Revocation Date: 28th May 2001 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	544	2	407630 434250
1	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 4 Effective Date: 29th May 2001 Issued Date: 22nd May 2001 Revocation Date: 25th March 2002 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	544	2	407630 434250
1	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 4 Effective Date: 29th May 2001 Issued Date: 22nd May 2001 Revocation Date: 25th March 2002 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	544	2	407630 434250
2	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 2 Effective Date: 21st October 1985 Issued Date: 21st October 1985 Revocation Date: 21st May 2001 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Transferred from COPA 1974 Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	548	2	407600 434200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 2 Effective Date: 21st October 1985 Issued Date: 21st October 1985 Revocation Date: 21st May 2001 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Transferred from COPA 1974 Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	548	2	407600 434200
2	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 1 Effective Date: 19th July 1967 Issued Date: 19th July 1967 Revocation Date: 20th October 1985 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	548	2	407600 434200
2	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 1 Effective Date: 19th July 1967 Issued Date: 19th July 1967 Revocation Date: 20th October 1985 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	548	2	407600 434200
2	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 1 Effective Date: 19th July 1967 Issued Date: 19th July 1967 Revocation Date: 20th October 1985 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	548	2	407600 434200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Denholme (Doe Park) Wwtw Off Foster Park View, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2251 Permit Version: 1 Effective Date: 19th July 1967 Issued Date: 19th July 1967 Revocation Date: 20th October 1985 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	548	2	407600 434200
3	Discharge Consents Operator: 4 Wheelrace Cottages Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: 4 Wheelrace Cottages Whalley Lane, Denholme, Bradford, -, Bd13 4ll Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 799 Permit Version: 1 Effective Date: 26th February 1958 Issued Date: 26th February 1958 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	710	2	407570 434451
4	Discharge Consents Operator: Peter Jackson Property Type: Undefined Or Other Location: Hollin Park Whalley Lane, Denholme, Bradford, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 2617 Permit Version: 1 Effective Date: 10th April 1970 Issued Date: 10th April 1970 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Denholme Beck Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	891	2	407650 434750
5	Discharge Consents Operator: 4 Low Stream Head Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: 3 & 4 Stream Head, Thornton, Bradford, West Yorkshire, Bd13 3ru Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 1669 Permit Version: 1 Effective Date: 30th November 1963 Issued Date: 30th November 1963 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Pitty Beck Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	949	2	408910 434483

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: Mrs P Birch Property Type: Domestic Property (Single) Location: 1 Low Stream Head, Old Allen Road, Thornton, BRADFORD, West Yorkshire, BD13 3RU Authority: Environment Agency, North East Region Catchment Area: Aire Reference: 3476 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge: Freshwater Stream/River Environment: Receiving Water: Pitty Beck Status: Not Given Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	989	2	409000 434400
7	Prosecutions Location: Doe Park Reservoir, Thornton Bradford, West Yorkshire Bd13 Prosecution Text: Not Supplied Prosecution Act: WATER RESOURCES ACT 1991, SECTION 85 (1) Hearing Date: 6th March 2002 Verdict: Guilty Fine: 3500 Cost: Not Supplied Positional Accuracy: Manually positioned to the road within the address or location	A12SE (W)	369	2	407735 433971
8	Prosecutions Location: Doe Park Reservoir, Denholme Nr. Bradford, West Yorkshire Prosecution Text: Not Supplied Prosecution Act: WATER RESOURCES ACT 1991, SECTION 85 (1) Hearing Date: 26th March 2001 Verdict: Guilty Fine: 8000 Cost: Not Supplied Positional Accuracy: Manually positioned to the road within the address or location	A12SE (W)	702	2	407451 433727
9	Prosecutions Location: Jerusalem Farm, Thornton Bradford, West Yorkshire Bd13 3pz Prosecution Text: Not Supplied Prosecution Act: ENVIRONMENTAL PROTECTION ACT 1990, SECTION 33 (1) (B) Hearing Date: 6th March 2002 Verdict: Guilty Fine: 3500 Cost: Not Supplied Positional Accuracy: Manually positioned within the geographical locality	A9SW (SE)	786	2	408455 433282
10	Integrated Pollution Prevention And Control Name: Omega Proteins Limited Location: Omega Proteins Ltd, Erlings Works, Omega Proteins Ltd, Half Acre Road, Thornton, Bradford, West Yorkshire, BD13 3SG Authority: Environment Agency, North East Region Permit Reference: HP3621SJ Original Permit Ref: Hp3621sj Effective Date: 22nd July 2024 Status: Effective Application Type: New App. Sub Type: Not Supplied Positional Accuracy: Located by supplier to within 10m Activity Code: AR01 Activity Description: MCP Primary Activity: Y Activity Code: AR02 Activity Description: MCP Primary Activity: N	A9NW (SE)	714	2	408506 433395
11	Integrated Pollution Prevention And Control Name: Woolcombers Group Plc Location: Black Dyke Quarry, Black Dyke Lane, Thornton, West Yorkshire, BD13 3HT Authority: Environment Agency, North East Region Permit Reference: Kp3832pu Original Permit Ref: Kp3832pu Effective Date: Not Supplied Status: Application refused Application Type: Application App. Sub Type: New Positional Accuracy: Located by supplier to within 10m Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y	A14SE (E)	759	2	408850 433850

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	Local Authority Integrated Pollution Prevention And Control Name: Omega Proteins Ltd Location: Erlings Works, Half Acre Road, Denholme, BD13 3SG Authority: Bradford Metropolitan City Council, Environmental Health Permit Reference: A/237/M Dated: 18th June 1999 Process Type: Other Activities Description: SG8 Status: Permit Issued Positional Accuracy: Manually positioned to the address or location	A9SW (SE)	825	3	408509 433266
13	Local Authority Pollution Prevention and Controls Name: C R Taylor (Timber) Ltd Location: Station Sawmills, Station Road, Denholme, BRADFORD, West Yorkshire, BD13 4BS Authority: Bradford Metropolitan City Council, Environmental Health Permit Reference: 164 Dated: 1st October 1996 Process Type: Local Authority Air Pollution Control Description: PG6/2 Manufacture of timber and wood-based products Status: Authorised Positional Accuracy: Automatically positioned to the address	A12SW (W)	696	3	407422 433847
14	Local Authority Pollution Prevention and Controls Name: Omega Proteins Ltd Location: Erlings Work, Thornton, BRADFORD, BD13 3SG Authority: Bradford Metropolitan City Council, Environmental Health Permit Reference: 237 Dated: 18th June 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG6/26 Animal feed compounding Status: Transferred to LAIPPC Positional Accuracy: Manually positioned to the address or location	A9SW (SE)	825	3	408509 433266
	Nearest Surface Water Feature	A13SW (SW)	153	-	407975 433901
15	Pollution Incidents to Controlled Waters Property Type: Quarrying (Hard Rock) Location: Robin Hood Well , Private Drinking Supply, Doe Park Road Authority: Environment Agency, North East Region Pollutant: Miscellaneous - Inert Suspended Solids Note: Harden Beck; No Fish Killed Incident Date: Not Supplied Incident Reference: SL981093 Catchment Area: Aire Tributaries Receiving Water: Groundwater Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	373	2	407800 434200
16	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Foul Sewer Location: Mouth/Source Harden Beck Af Authority: Environment Agency, North East Region Pollutant: Unknown Note: Not Supplied Incident Date: 30th January 1990 Incident Reference: 107295 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A12SE (W)	413	2	407700 433900
17	Pollution Incidents to Controlled Waters Property Type: Industrial Premises Location: Doe Park Reservoir Authority: Environment Agency, North East Region Pollutant: Blood And Offal Note: Not Supplied Incident Date: 19th January 1989 Incident Reference: 8653 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	634	2	407600 433600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	Substantiated Pollution Incident Register Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 22nd July 2012 Incident Reference: 1016708 Water Impact: Category 1 - Major Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Organic Chemicals/Products: Pesticides And Biocides	A13SW (W)	339	2	407766 433955
19	Water Abstractions Operator: Omega Proteins Ltd Licence Number: Ne/027/0016/017 Permit Version: 1 Location: Borehole - Millstone Grit - Erlings Works Authority: Environment Agency, North East Region Abstraction: Other Industrial/Commercial/Public Services: Boiler Feed Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 16th May 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8NE (S)	478	2	408183 433513
	Water Abstractions Operator: Iqbal Brothers Poultry Licence Number: 2/27/16/180 Permit Version: 101 Location: Borehole - Millstone Grit - Wilsden Authority: Environment Agency, North East Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Station Road, Wilsden, Bradford, West Yorkshire Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 26th January 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A23NE (N)	1420	2	408200 435400
	Water Abstractions Operator: Mr M Barker Licence Number: 2/27/16/180 Permit Version: 100 Location: Borehole - Millstone Grit - Wilsden Authority: Environment Agency, North East Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 256 Yearly Rate (m3): 61360 Details: Station Road, Wilsden, Bradford, West Yorkshire Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 23rd March 1989 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A23NE (N)	1420	2	408200 435400
	Water Abstractions Operator: Mr M Barker Licence Number: 2/27/16/180 Permit Version: 103 Location: Borehole - Millstone Grit - Wilsden Authority: Environment Agency, North East Region Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 16th November 2016 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23NE (N)	1555	2	408176 435537

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr M Barker Licence Number: 2/27/16/180 Permit Version: 103 Location: Borehole - Millstone Grit - Wilsden Authority: Environment Agency, North East Region Abstraction: Food And Drink: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 16th November 2016 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23NE (N)	1555	2	408176 435537
	Water Abstractions Operator: Iqbal Brothers Poultry Licence Number: 2/27/16/180 Permit Version: 102 Location: Borehole - Millstone Grit - Wilsden Authority: Environment Agency, North East Region Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 27th May 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23NE (N)	1555	2	408176 435537
	Water Abstractions Operator: Iqbal Brothers Poultry Licence Number: 2/27/16/180 Permit Version: 102 Location: Borehole - Millstone Grit - Wilsden Authority: Environment Agency, North East Region Abstraction: Food And Drink: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 27th May 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23NE (N)	1555	2	408176 435537
	Water Abstractions Operator: Yorkshire Water Plc Licence Number: 2/27/16/101 Permit Version: Not Supplied Location: Manywells Springs , HEWENDEN Authority: Environment Agency, North East Region Abstraction: Water Undertaking Abstraction Type: Not Supplied Source: Spring Daily Rate (m3): 227 Yearly Rate (m3): 22730 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A22NW (NW)	1852	2	407200 435600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13NE (N)	0	2	408103 433984
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NE (N)	0	2	408103 433984
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	235	2	407930 433826
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	235	2	407930 433826
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
20	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 86.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A13SW (SW)	153	4	407975 433901
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 66.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A13SE (S)	222	4	408148 433767
22	OS Water Network Lines Watercourse Form: Reservoir Watercourse Length: 53.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A13SW (SW)	235	4	407913 433847
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A13SE (S)	268	4	408105 433716

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	OS Water Network Lines Watercourse Form: Reservoir Watercourse Length: 135.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Denholme Beck Catchment Name: Aire and Calder Primacy: 1	A13SW (SW)	274	4	407878 433829
25	OS Water Network Lines Watercourse Form: Reservoir Watercourse Length: 205.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Denholme Beck Catchment Name: Aire and Calder Primacy: 1	A13SW (SW)	278	4	407860 433851
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 121.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A13SW (S)	305	4	408047 433685
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 69.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A13SW (S)	311	4	408077 433675
28	OS Water Network Lines Watercourse Form: Reservoir Watercourse Length: 69.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A13SW (SW)	321	4	407927 433717
29	OS Water Network Lines Watercourse Form: Reservoir Watercourse Length: 122.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Denholme Beck Catchment Name: Aire and Calder Primacy: 1	A13SW (SW)	322	4	407907 433729
30	OS Water Network Lines Watercourse Form: Reservoir Watercourse Length: 120.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Denholme Beck Catchment Name: Aire and Calder Primacy: 1	A13NW (NW)	327	4	407805 434116
31	OS Water Network Lines Watercourse Form: Transfer Watercourse Length: 173.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Denholme Beck Catchment Name: Aire and Calder Primacy: 1	A13NW (NW)	328	4	407815 434138
32	OS Water Network Lines Watercourse Form: Reservoir Watercourse Length: 457.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Carperley Beck Catchment Name: Aire and Calder Primacy: 1	A13NW (W)	340	4	407767 434028

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	OS Water Network Lines Watercourse Form: Reservoir Watercourse Length: 113.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Denholme Beck Catchment Name: Aire and Calder Primacy: 2	A13NW (W)	340	4	407767 434028
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.5 Watercourse Level: Underground Permanent: True Watercourse Name: Denholme Beck Catchment Name: Aire and Calder Primacy: 2	A12NE (W)	415	4	407715 434129
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 74.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Denholme Beck Catchment Name: Aire and Calder Primacy: 2	A12NE (NW)	439	4	407701 434160
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 152.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Denholme Beck Catchment Name: Aire and Calder Primacy: 1	A8NW (SW)	439	4	407855 433623
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 71.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18SE (NE)	451	4	408361 434353
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 600.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Denholme Beck Catchment Name: Aire and Calder Primacy: 1	A12NE (NW)	490	4	407681 434231
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Denholme Beck Catchment Name: Aire and Calder Primacy: 1	A8NW (SW)	566	4	407825 433491
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A8NW (SW)	566	4	407825 433491
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 411.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Denholme Beck Catchment Name: Aire and Calder Primacy: 1	A8NW (SW)	578	4	407803 433491

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 163.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A8NW (SW)	582	4	407809 433482
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 67.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18SW (N)	631	4	408089 434614
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18SE (N)	640	4	408156 434622
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18SE (N)	641	4	408161 434622
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 100.0 Watercourse Level: Underground Permanent: True Watercourse Name: Carperley Beck Catchment Name: Aire and Calder Primacy: 1	A12SE (SW)	668	4	407502 433695
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12SE (SW)	668	4	407502 433695
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 110.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12SE (SW)	669	4	407503 433691
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 272.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Carperley Beck Catchment Name: Aire and Calder Primacy: 1	A12SW (SW)	768	4	407410 433656
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 79.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pitty Beck Catchment Name: Aire and Calder Primacy: 1	A19SW (NE)	807	4	408741 434478

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 95.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pitty Beck Catchment Name: Aire and Calder Primacy: 1	A19SW (NE)	809	4	408735 434489
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.4 Watercourse Level: Underground Permanent: True Watercourse Name: Pitty Beck Catchment Name: Aire and Calder Primacy: 1	A19SW (NE)	809	4	408736 434487
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.7 Watercourse Level: Underground Permanent: True Watercourse Name: Pitty Beck Catchment Name: Aire and Calder Primacy: 1	A19SE (NE)	840	4	408803 434448
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 106.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pitty Beck Catchment Name: Aire and Calder Primacy: 1	A19SE (NE)	844	4	408810 434445
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 155.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A8SE (S)	908	4	408155 433078
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.2 Watercourse Level: Underground Permanent: True Watercourse Name: Pitty Beck Catchment Name: Aire and Calder Primacy: 1	A19SE (NE)	930	4	408914 434438
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 283.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pitty Beck Catchment Name: Aire and Calder Primacy: 1	A19SE (NE)	934	4	408922 434434
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 87.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A7SE (SW)	936	4	407556 433225
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A7SE (SW)	936	4	407556 433225

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 624.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Denholme Beck Catchment Name: Aire and Calder Primacy: 1	A7SE (SW)	937	4	407564 433219
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A7SE (SW)	972	4	407476 433242
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A7SE (SW)	972	4	407476 433242
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 155.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A7SE (SW)	977	4	407471 433241
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12SW (W)	984	4	407175 433660
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Carperley Beck Catchment Name: Aire and Calder Primacy: 1	A7NW (W)	996	4	407170 433637
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 172.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Denholme Beck Catchment Name: Aire and Calder Primacy: 1	A17NE (NW)	997	4	407458 434743
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Harden Beck from Source to River Aire WaterBody ID: GB104027062870 Operational Catchment: Aire Middle Management Catchment: Aire and Calder Catchment Name: Aire & Calder	A13NE (N)	0	2	408103 433984
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Clayton Beck (Source to Bradford Bk) WaterBody ID: GB104027062861 Operational Catchment: Aire Middle Management Catchment: Aire and Calder Catchment Name: Aire & Calder	A13NE (NE)	116	2	408180 434070

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Framework Directive - Groundwater Waterbody Name: Aire & Calder Carb Limestone / Millstone Grit / Coal Measures. Waterbody ID: GB40402G700400 URL Address: https://environment.data.gov.uk/catchment-planning/WaterBody/GB40402G700400 Overall Rating: Poor Chemical Rating: Poor Quantitative Measure: Good Year: 2019	A13NE (N)	0	2	408103 433984
	Water Framework Directive - Surface Waters Class Code: River Waterbody Name: Harden Beck From Source To River Aire Waterbody ID: GB104027062870 URL Address: Not Supplied Overall Rating: Not Assessed Chemical Rating: Not Assessed Classification Year: 2022	A13NW (NW)	327	2	407807 434122

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
67	BGS Recorded Landfill Sites Site Name: Law Quarry Location: Ten Yards Lane, Denholme, BRADFORD, West Yorkshire Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate	A13NW (NW)	14	-	408095 433995
68	BGS Recorded Landfill Sites Site Name: Black Dyke Lane Quarry Location: Thornton, BRADFORD, West Yorkshire Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate	A14SE (E)	736	-	408820 433819
69	BGS Recorded Landfill Sites Site Name: Egypt Quarry Location: Black Dyke Lane, THORNTON, West Yorkshire Authority: British Geological Survey, National Geoscience Information Service Ground Water: Threat to ground water Surface Water: Threat to surface water Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate	A14SE (E)	780	-	408878 433897
70	BGS Recorded Landfill Sites Site Name: Thornton Tip Location: Back Heights Road, BRADFORD, West Yorkshire Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Good	A9NW (SE)	891	-	408698 433322
71	BGS Recorded Landfill Sites Site Name: Illingworths land at Thornton Quarries Location: BRADFORD, West Yorkshire Authority: British Geological Survey, National Geoscience Information Service Ground Water: Threat to ground water Surface Water: No threat to surface water Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Good	A9NE (SE)	977	-	408909 433433
72	Historical Landfill Sites Licence Holder: M Leach Location: Ten Yards Lane, Denholme, Bradford, West Yorkshire Name: Law Quarry Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD31558 First Input Date: 31st March 1969 Last Input Date: 31st December 1974 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4700/0410 BGS Ref: 1026 Other Ref: 276	A13NW (NW)	14	2	408095 433995
73	Historical Landfill Sites Licence Holder: Not Supplied Location: Off Half Acre Road, Thornton Heights Name: Erlings Works Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD35366 First Input Date: 1st January 1949 Last Input Date: 1st November 1989 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: M168	A8NW (S)	414	2	408052 433573

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
74	Historical Landfill Sites Licence Holder: Not Supplied Location: Off Station Road, Denholme Name: Denholme House Farm Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD35367 First Input Date: 1st January 1989 Last Input Date: 31st December 1989 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: M169	A7NE (SW)	694	2	407602 433504
75	Historical Landfill Sites Licence Holder: Black Dyke Quarry Location: Black Dyke Lane, Bradford, Thornton, West Yorkshire Name: Black Dyke Quarry Operator Location: Thornton Road, Bradford, West Yorkshire Boundary Accuracy: As Supplied Provider Reference: EAHLD35754 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Industrial, Commercial and Household Waste Type: EA Waste Ref: 60615 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: Not Supplied	A14SE (E)	714	2	408795 433807
76	Historical Landfill Sites Licence Holder: Bursaul Landfill Site Services Limited Location: Black Dyke Lane, Thornton, Bradford Name: Egypt Quarry Operator Location: 5 Egypt Road, Thornton, Bradford Boundary Accuracy: As Supplied Provider Reference: EAHLD33025 First Input Date: 31st December 1962 Last Input Date: 1st January 1992 Specified Waste: Deposited Waste included Inert and Industrial Waste, and Liquid Sludge Type: EA Waste Ref: 60614 Regis Ref: YQ3/L/BUR001 WRC Ref: 4700/0277 BGS Ref: 373 Other Ref: B116, 51, NE4608	A14SE (E)	759	2	408859 433922
77	Historical Landfill Sites Licence Holder: Mr D Bottomley Location: Harecroft, Wilsden Name: Land at Aycliffe Farm Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD03984 First Input Date: 31st December 1981 Last Input Date: 31st December 1984 Specified Waste: Deposited Waste included Inert and Commercial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4700/0339 BGS Ref: Not Supplied Other Ref: 4700/0284	A18NW (N)	833	2	407986 434809
78	Historical Landfill Sites Licence Holder: Not Supplied Location: Back Heights Road, Bradford, West Yorkshire Name: Thornton Tip Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD31805 First Input Date: 30th April 1941 Last Input Date: 31st December 1980 Specified Waste: Deposited Waste included Industrial, Commercial and Household Waste, and Type: Liquid Sludge EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: 448 Other Ref: Not Supplied	A9NW (SE)	891	2	408699 433322

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
79	Historical Landfill Sites Licence Holder: J G Leach and Son Location: Wilsden Name: Land at Birchenlea Farm Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD30219 First Input Date: 23rd August 1989 Last Input Date: 13th February 1992 Specified Waste: Deposited Waste included Inert and Commercial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4700/0482 BGS Ref: Not Supplied Other Ref: 4700/0694	A17NE (NW)	945	2	407699 434837
80	Historical Landfill Sites Licence Holder: T Hillingworth Location: Bradford, West Yorkshire Name: Thomas Illingworths land Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD03981 First Input Date: 31st January 1970 Last Input Date: 31st December 1983 Specified Waste: Deposited Waste included Commercial and Household Waste, and Liquid Sludge Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4700/0406 BGS Ref: 450 Other Ref: 4700/0270	A9NE (SE)	977	2	408910 433433
81	Licensed Waste Management Facilities (Landfill Boundaries) Name: Bunkers Hill Farm Licence Number: 60667 Location: J A Stevenson, Field No. 5, Thornton, Bradford, West Yorkshire, BD13 3SB Licence Holder: J A Stevenson Authority: Environment Agency - North East Region, Yorkshire Area Site Category: Landfills Taking Other Wastes (Construction, Demolition, Dredgings) Max Input Rate: Not Supplied Licence Status: Closure Issued: 5th April 1991 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A18SW (N)	599	2	407877 434538
82	Licensed Waste Management Facilities (Landfill Boundaries) Name: Black Dyke Quarry Licence Number: 60615 Location: Land / Premises At, Black Dyke Lane, Thornton, Bradford, West Yorkshire, BD13 3RR Licence Holder: Woolcombers Group Plc Authority: Environment Agency - North East Region, Yorkshire Area Site Category: Household, Commercial And Industrial Waste Landfills Max Input Rate: Not Supplied Licence Status: Inactive Issued: 11th July 1978 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A14SE (E)	714	2	408794 433806
83	Licensed Waste Management Facilities (Landfill Boundaries) Name: High Stream Head Farm Licence Number: 60664 Location: P Drake, High Stream Head Farm, Off Black Dyke Lane, Thornton, Bradford, West Yorkshire, BD13 3SA Licence Holder: P Drake Authority: Environment Agency - North East Region, Yorkshire Area Site Category: Landfills Taking Non-biodegradable Wastes (Not Construction) Max Input Rate: Not Supplied Licence Status: Closure Issued: 16th January 1992 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A19SW (NE)	738	2	408689 434431

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
84	Licensed Waste Management Facilities (Landfill Boundaries) Name: Egypt Quarry Licence Number: 60614 Location: Black Dyke Lane, Thornton, Bradford Licence Holder: Bursaul Landfill Site Services Ltd Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfills Taking Non-biodegradable Wastes (Not Construction) Max Input Rate: Small (Less than 25,000 tonnes per year) Licence Status: Inactive Issued: 20th June 1978 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A14SE (E)	758	2	408859 433921
85	Licensed Waste Management Facilities (Locations) Licence Number: 65226 Location: Jerusalem, Half Acre Road,, Thornton, Bradford, West Yorkshire, BD13 3SG Operator Name: BARBARA & CATHERINE MITCHELL Operator Location: Not Supplied Authority: Environment Agency - North East Region, Yorkshire Area Site Category: Incinerators Licence Status: Expired Issued: 17th April 2002 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8NE (S)	417	2	408150 433570
85	Licensed Waste Management Facilities (Locations) Licence Number: 65226 Location: Jerusalem, Farm, Half Acre Road,, Thornton Operator Name: Barbara & Catherine Mitchell Operator Location: Unit 4 Jerusalem Farm, Half Acre Road, Thornton, Bradford, West Yorkshire, BD13 3SG Authority: Environment Agency - North East Region, Ridings Area Site Category: Incinerators Licence Status: Issued Issued: 17th April 2002 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8NE (S)	417	2	408150 433570
85	Licensed Waste Management Facilities (Locations) Licence Number: 65226 Location: Jerusalem, Half Acre Road,, Thornton, Bradford, West Yorkshire, BD13 3SG Operator Name: BARBARA & CATHERINE MITCHELL Operator Location: Not Supplied Authority: Environment Agency - North East Region, Yorkshire Area Site Category: Incinerators Licence Status: Expired Issued: 17th April 2002 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8NE (S)	417	2	408150 433570
86	Licensed Waste Management Facilities (Locations) Licence Number: 60667 Location: Field No. 5, Thornton, Bradford, West Yorkshire, BD13 3SB Operator Name: J A Stevenson Operator Location: Not Supplied Authority: Environment Agency - North East Region, Yorkshire Area Site Category: Landfills Taking Non-biodegradable Wastes (Not Construction) Licence Status: Surrendered Issued: 5th April 1991 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 5th October 2023 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18SW (N)	633	2	408004 434609

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
87	Licensed Waste Management Facilities (Locations) Licence Number: 60615 Location: Land / Premises At, Black Dyke Lane, Thornton, Bradford, West Yorkshire, BD13 3RR Operator Name: WOOLCOMBERS GROUP PLC Operator Location: Not Supplied Authority: Environment Agency - North East Region, Yorkshire Area Site Category: Household, Commercial And Industrial Waste Landfills Licence Status: Expired Issued: 11th July 1978 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14SE (E)	818	2	408900 433800
87	Licensed Waste Management Facilities (Locations) Licence Number: 60615 Location: Land / Premises At, Black Dyke Lane, Thornton, Bradford, West Yorkshire, BD13 3RR Operator Name: WOOLCOMBERS GROUP PLC Operator Location: Not Supplied Authority: Environment Agency - North East Region, Yorkshire Area Site Category: Household, Commercial And Industrial Waste Landfills Licence Status: Expired Issued: 11th July 1978 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14SE (E)	818	2	408900 433800
88	Licensed Waste Management Facilities (Locations) Licence Number: 60664 Location: High Stream Head Farm, Off Black Dyke Lane, Thornton, Bradford, West Yorkshire, BD13 3SA Operator Name: P Drake Operator Location: Not Supplied Authority: Environment Agency - North East Region, Yorkshire Area Site Category: Landfills Taking Non-biodegradable Wastes (Not Construction) Licence Status: Closed Issued: 16th January 1992 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	933	2	408731 434673
	Local Authority Landfill Coverage Name: Bradford Metropolitan City Council - Has not been able to supply Landfill data		0	5	408103 433984
89	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A13NW (NW)	66	7	408053 434026
90	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A17SE (NW)	489	7	407753 434324
91	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A18SE (N)	621	7	408148 434603
92	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A14NW (NE)	621	7	408640 434296
93	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A17SE (NW)	621	7	407638 434395

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
94	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A18SW (NW)	624	7	407808 434533
95	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A17SE (NW)	671	7	407658 434485
96	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A7NE (SW)	673	7	407610 433527
97	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A18SW (N)	683	7	407854 434619
98	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A18SE (N)	709	7	408325 434657
99	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A14SE (E)	728	7	408815 433834
100	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A17SE (NW)	738	7	407564 434487
101	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A17SE (NW)	741	7	407491 434399
102	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A18NW (NW)	788	7	407800 434711
103	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A18NW (N)	794	7	407820 434725
104	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A19SE (NE)	802	7	408821 434340
105	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A19SE (NE)	823	7	408830 434370
106	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A17SW (NW)	825	7	407386 434391
107	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A18NW (N)	852	7	407957 434822
108	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A17NE (NW)	867	7	407702 434752
109	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A9NW (SE)	879	7	408695 433335

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
110	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A19SE (NE)	900	7	408854 434479
111	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A18NW (N)	903	7	408009 434881
112	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A14NE (E)	909	7	408986 434202
113	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A17NE (NW)	949	7	407690 434838
114	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A18NE (N)	951	7	408269 434920
115	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A19SE (NE)	967	7	408962 434429
116	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A7SE (SW)	977	7	407701 433093
117	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A17SW (NW)	990	7	407262 434505
118	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1852	A12SW (W)	972	7	407161 433745
119	Registered Landfill Sites Licence Holder: Mrs J A Stevenson Licence Reference: 920 Site Location: Bunkers Hill Farm, Thornton, BRADFORD, West Yorkshire, BD12 3SB Licence Easting: 408000 Licence Northing: 434650 Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Site Closed Dated: 5th April 1991 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Uncontam. Constr'N/Demol. Waste Uncontam. Earth & Excavation Waste Biodegradable Materials Prohibited Waste: Liable To Cause Environmental Hazards Paper/Cardboard Plastics Poisonous, Noxious, Polluting Wastes Wood	A18SW (N)	675	2	408000 434650

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
120	Registered Landfill Sites Licence Holder: A T Burton t/a Bursual Landfill Site Serv Licence Reference: 51 Site Location: Egypt Quarry, Black Dyke Lane Farm, Thornton, Bradford, West Yorkshire Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: 19 Gooseland Court, Wickersley, ROTHERHAM, South Yorkshire, S66 0DW Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrendered Dated: 1st February 1993 Preceded By: 51 Licence: Superseded By: Not Given Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Good Authorised Waste: Construction And Demolition Wastes Excavation Waste Max.Waste Permitted By Licence Prohibited Waste: All Biodegradable Waste Liable To Cause Environmental Hazards Poisonous, Noxious, Polluting Wastes Special Wastes (As In '96 Regs) Waste N.O.S.	A14SE (E)	759	2	408859 433920
121	Registered Landfill Sites Licence Holder: P Drake Licence Reference: 906 Site Location: Old Allen Road, Thornton Road, Bradford, West Yorkshire Licence Easting: 408750 Licence Northing: 434400 Operator Location: High Str. Head Farm, Black Dyke Lane, Thornton, BRADFORD, West Yorkshire, BD13 3SA Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Site Closed Dated: 16th January 1992 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Uncontam. Constr'N/Demol. Waste Uncontam. Earth & Excavation Waste Prohibited Waste: Liable To Cause Environmental Hazards Other Biodegradable Waste Paper Plasterboard Plastics Poisonous, Noxious, Polluting Wastes Wood	A19SW (NE)	769	2	408750 434400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
122	Registered Landfill Sites Licence Holder: Woolcombers (Holdings) Ltd Licence Reference: 127 Site Location: Black Dyke Lane Quarry, Thornton, Bradford, West Yorkshire Licence Easting: 408900 Licence Northing: 433800 Operator Location: Victoria Road, Saltaire, BRADFORD, West Yorkshire, BD18 3LD Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: Only waste produced on site Restrictions: Status: Operational as far as is knownOperational Dated: 11th July 1978 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Boiler Ash Construction And Demolition Wastes Excavation Waste Max.Waste Permitted By Licence Washed Ind.Eff.Treatment Sludge Prohibited Waste: Biodegradable Waste Liable To Cause Environmental Hazards Poisonous, Noxious, Polluting Wastes Spec.Waste (Epa'90:S62/1996 Regs)	A14SE (E)	818	2	408900 433800
123	Registered Landfill Sites Licence Holder: D Bottomley Licence Reference: 284 Site Location: Aycliffe Farm, Harecroft, Wilsden, BRADFORD, West Yorkshire, BD13 3RY Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrendered Dated: 9th November 1981 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate Authorised Waste: Construction And Demolition Wastes Excavated Natural Materials \$ Prohibited Waste: Biodegradable/Putrescible Waste Poisonous, Noxious, Polluting Wastes	A18NW (N)	834	2	407989 434809
124	Registered Landfill Sites Licence Holder: Clugston Ltd Licence Reference: 51 Site Location: Egypt Quarry, Black Dyke Lane Farm, Thornton, Bradford, West Yorkshire Licence Easting: 409000 Licence Northing: 433900 Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Record superseded Dated: 20th June 1978 Preceded By: Not Given Licence: Superseded By: 51 Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Com. + Ind. Non-Haz, Non-Biodegrad. Construction And Demolition Wastes Ind. Non-Haz, Potentially Combustible Prohibited Waste: Biodegradable/Putrescible Waste Poisonous, Noxious, Polluting Wastes	A14SE (E)	901	2	409000 433900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Lower Coal Measures Formation And South Wales Lower Coal Measures Formation (Undifferentiated)	A13NE (N)	0	1	408103 433984
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (N)	0	1	408103 433984
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SW (SW)	240	1	407892 433870
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: <15 mg/kg Concentration:	A8NW (SW)	429	1	407875 433621
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: <15 mg/kg Concentration:	A18SE (NE)	432	1	408346 434341
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NE (W)	544	1	407564 434050
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18SE (N)	612	1	408271 434572

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NE (W)	650	1	407498 434219
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NE (W)	682	1	407445 434158
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NW (W)	710	1	407399 434073
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NW (W)	737	1	407395 434184
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NW (W)	756	1	407392 434239
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: <15 mg/kg Concentration:	A19SW (NE)	760	1	408717 434432

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18NE (N)	787	1	408285 434749
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: <15 mg/kg Concentration:	A17SE (NW)	821	1	407491 434530
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NW (NW)	866	1	407306 434321
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: <15 mg/kg Concentration:	A17SW (NW)	911	1	407316 434441
125	BGS Recorded Mineral Sites Site Name: Ten Yards Lane Quarry Location: Denholme, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 72332 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Elland Flags Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13NW (W)	112	1	408000 434025
126	BGS Recorded Mineral Sites Site Name: Ten Yards Lane Quarry Location: Ten Yards Lane, Denholme, Bradford, West Yorkshire, Bd13 3se Source: British Geological Survey, National Geoscience Information Service Reference: 347 Type: Opencast Status: Active Operator: Birks Royd Stone Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Elland Flags Commodity: Sandstone Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	156	1	408000 434100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
127	BGS Recorded Mineral Sites Site Name: Erling Quarry Location: Thornton, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 13930 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Elland Flags Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8NE (S)	436	1	408145 433550
128	BGS Recorded Mineral Sites Site Name: Erling Quarry Location: Thornton, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 252861 Type: Opencast Status: Ceased Operator: Calvin Cockcroft Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Elland Flags Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8NW (S)	476	1	408060 433510
129	BGS Recorded Mineral Sites Site Name: Cripple Croft Plantation Location: Denholme, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 73187 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	491	1	407740 434314
130	BGS Recorded Mineral Sites Site Name: Cripple Croft Plantation Location: Denholme, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 73186 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	523	1	407811 434417
131	BGS Recorded Mineral Sites Site Name: Erling Quarry Location: Thornton, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 252860 Type: Opencast Status: Ceased Operator: Calvin Cockcroft Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Elland Flags Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8NW (S)	534	1	407978 433465
132	BGS Recorded Mineral Sites Site Name: Erling Quarry Location: Thornton, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 252862 Type: Opencast Status: Ceased Operator: Calvin Cockcroft Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Elland Flags Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8NW (S)	615	1	407872 433415

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
133	BGS Recorded Mineral Sites Site Name: Wheel Race Location: Denholme, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 73188 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	616	1	407637 434385
134	BGS Recorded Mineral Sites Site Name: Thorn Gate Location: Denholme, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 73185 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	617	1	407802 434522
135	BGS Recorded Mineral Sites Site Name: Old Allen Corner Coal Pit Location: Thornton, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 72514 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (N)	622	1	408157 434603
136	BGS Recorded Mineral Sites Site Name: Hazel Crook Location: Black Dike Lane, Thornton, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 20951 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: 48 Yard Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	634	1	408655 434295
137	BGS Recorded Mineral Sites Site Name: Wheel Race Location: Denholme, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 73189 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	663	1	407657 434474
138	BGS Recorded Mineral Sites Site Name: Cripple Croft Plantation Location: Denholme, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 72504 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: 48 Yard Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	680	1	407843 434612

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
139	BGS Recorded Mineral Sites Site Name: Birk Hill Location: Denholme, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 72301 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Elland Flags Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	690	1	407607 433506
140	BGS Recorded Mineral Sites Site Name: Old Allen Moor Coal Pit Location: Thornton, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 72527 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18NE (N)	729	1	408339 434673
141	BGS Recorded Mineral Sites Site Name: Cripple Croft Plantation Location: Denholme, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 73184 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18NW (NW)	779	1	407799 434700
141	BGS Recorded Mineral Sites Site Name: Cripple Croft Plantation Location: Denholme, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 73183 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18NW (N)	783	1	407821 434714
142	BGS Recorded Mineral Sites Site Name: Black Dyke Lane Quarry Location: Black Dyke Lane, Thornton, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 5641 Type: Opencast Status: Ceased Operator: Calvin Cockcroft Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Elland Flags Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A14SE (E)	791	1	408875 433810
142	BGS Recorded Mineral Sites Site Name: Black Dyke Lane Flagstone Mine Location: Thornton, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 252879 Type: Underground Status: Ceased Operator: Calvin Cockcroft Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Elland Flags Commodity: Sandstone Positional Accuracy: Located by supplier to within 100m	A14SE (E)	818	1	408900 433800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
143	BGS Recorded Mineral Sites Site Name: Wheel Race Location: Denholme, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 73182 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	798	1	407489 434493
144	BGS Recorded Mineral Sites Site Name: Hazel Crook Location: Thornton, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 73211 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	808	1	408832 434333
145	BGS Recorded Mineral Sites Site Name: Denholme Coal Pit Location: Denholme, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 72505 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	820	1	407384 434376
146	BGS Recorded Mineral Sites Site Name: Egypt Quarry Location: Black Dyke Lane, Thornton, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 5640 Type: Opencast Status: Ceased Operator: John Farrar & Sons Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Elland Flags Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A14SE (E)	846	1	408945 433900
147	BGS Recorded Mineral Sites Site Name: Black Dyke Lane Quarry Location: Thornton, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 241284 Type: Opencast Status: Ceased Operator: Calvin Cockcroft Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Elland Flags Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A14SE (E)	878	1	408963 433806
148	BGS Recorded Mineral Sites Site Name: Stream Head Location: Thornton, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 73214 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	909	1	408865 434479

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
149	BGS Recorded Mineral Sites Site Name: Egypt Quarry Location: Black Dyke Lane, Thornton, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 252874 Type: Opencast Status: Ceased Operator: John Farrar & Sons Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Elland Flags Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A14SE (E)	919	1	409020 433925
150	BGS Recorded Mineral Sites Site Name: Thornton Heights Delf Location: Thornton, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 20965 Type: Opencast Status: Ceased Operator: Jonas Wilkinson Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Elland Flags Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	924	1	408755 433330
151	BGS Recorded Mineral Sites Site Name: Thornton Quarries Location: Thornton, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 252863 Type: Opencast Status: Ceased Operator: Jonas Wilkinson Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Elland Flags Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	924	1	408673 433257
152	BGS Recorded Mineral Sites Site Name: Park Wood Location: Denholme, Keighley, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 73119 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18NW (N)	944	1	407912 434908
153	BGS Recorded Mineral Sites Site Name: Thornton Heights Delf Location: Thornton, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 20966 Type: Opencast Status: Ceased Operator: Jonas Wilkinson Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Elland Flags Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	958	1	408825 433355
154	BGS Recorded Mineral Sites Site Name: Moscow Quarry Location: Thornton, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 252889 Type: Opencast Status: Ceased Operator: Willie Jennings Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Elland Flags Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	965	1	408890 433425

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
154	BGS Recorded Mineral Sites Site Name: Moscow Quarry Location: Thornton, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 252864 Type: Opencast Status: Ceased Operator: Willie Jennings Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Elland Flags Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	970	1	408867 433387
155	BGS Recorded Mineral Sites Site Name: Old Allen Moor Location: Harecroft, Wilsden, Shipley, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 51202 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: 48 Yard Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18NW (N)	973	1	408055 434955
156	BGS Recorded Mineral Sites Site Name: Hare Croft Coal Pit Location: Wilsden, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 72491 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18NE (N)	976	1	408289 434942
157	BGS Recorded Mineral Sites Site Name: High Stream Head Location: Thornton, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 73212 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NE (E)	976	1	409058 434185
158	BGS Recorded Mineral Sites Site Name: Denholme Gate Farm Location: Denholme, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 72304 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Elland Flags Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	979	1	407612 433138
159	BGS Recorded Mineral Sites Site Name: Egypt Quarry Location: Black Dyke Lane, Thornton, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 252875 Type: Opencast Status: Ceased Operator: John Farrar & Sons Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Elland Flags Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A14SE (E)	983	1	409077 433855

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
160	BGS Recorded Mineral Sites Site Name: Denholme Carr Location: Denholme, Bradford, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 73181 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	993	1	407253 434495
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13NE (N)	0	6	408103 433984
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NE (N)	0	7	408103 433984
	Man-Made Mining Cavities Easting: 408900 Northing: 433800 Distance: 818 Quadrant Reference: A14 Quadrant Reference: SE Bearing Ref: E Cavity Type: Elland Flagstone Mine-Details Unknown Commodity: Flagstones Solid Geology Detail: Lower Coal Measures Superficial Geology No Details Detail:	A14SE (E)	818	7	408900 433800
	Man-Made Mining Cavities Easting: 409000 Northing: 433900 Distance: 901 Quadrant Reference: A14 Quadrant Reference: SE Bearing Ref: E Cavity Type: Elland Flagstone Mining-Details Unknown Commodity: Flagstones Solid Geology Detail: Lower Coal Measures Superficial Geology No Details Detail:	A14SE (E)	901	7	409000 433900
	Man-Made Mining Cavities Easting: 408100 Northing: 434900 Distance: 917 Quadrant Reference: A18 Quadrant Reference: NW Bearing Ref: N Cavity Type: Not supplied Commodity: Fireclay Solid Geology Detail: No Details Superficial Geology No Details Detail:	A18NW (N)	917	7	408100 434900
	Man-Made Mining Cavities Easting: 409000 Northing: 433600 Distance: 976 Quadrant Reference: A9 Quadrant Reference: NE Bearing Ref: SE Cavity Type: Elland Flagstone Mine-Details Unknown Commodity: Flagstones Solid Geology Detail: Lower Coal Measures Superficial Geology No Details Detail:	A9NE (SE)	976	7	409000 433600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Non Coal Mining Areas of Great Britain Risk: Likely Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	408103 433984
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	408103 433984
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	408103 433984
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	408103 433984
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	408103 433984
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	180	1	407929 433941
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	223	1	407880 433986
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	248	1	407870 433902
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	408103 433984
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	200	1	407966 433838
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	408103 433984
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	180	1	407929 433941
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	215	1	408143 434195
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	245	1	407864 434035
	Radon Potential - Radon Affected Areas Affected Area: The property is an Intermediate probability radon area (3 to 5% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	408103 433984
	Radon Potential - Radon Protection Measures Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	408103 433984

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
161	Contemporary Trade Directory Entries Name: Omega Proteins Ltd Location: Erlings Works, Half Acre Road, Thornton, Bradford, West Yorkshire, BD13 3SG Classification: Abattoirs Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (S)	432	7	408137 433554
162	Contemporary Trade Directory Entries Name: Pets At Rest Location: Hirst Field Farm, Black Dyke Lane, Thornton, Bradford, West Yorkshire, BD13 3RR Classification: Pet Cemeteries & Crematoria Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	617	7	408659 434251
163	Contemporary Trade Directory Entries Name: Airedale Animal Feeds Location: Jerusalem Farm, Half Acre Road, Thornton, Bradford, West Yorkshire, BD13 3SG Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	779	7	408485 433305
164	Contemporary Trade Directory Entries Name: Eurofill Ltd Location: Unit 1, Old Allen Barn, Old Allen Road, Thornton, Bradford, West Yorkshire, BD13 3RY Classification: Bottling Machinery & Equipment Status: Inactive Positional Accuracy: Manually positioned to the address or location	A18NE (N)	927	7	408197 434906
164	Contemporary Trade Directory Entries Name: Eurofill Ltd Location: Unit 1, Old Allen Barn, Old Allen Road, Thornton, Bradford, West Yorkshire, BD13 3RY Classification: Bottling Machinery & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	947	7	408179 434928
165	Contemporary Trade Directory Entries Name: Marcus Bradford Ltd Location: Back Heights Road, Thornton, Bradford, West Yorkshire, BD13 3RP Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (E)	974	7	409015 433642
166	Points of Interest - Commercial Services Name: Marcus Bradford Ltd Location: Back Heights Road, Thornton, Bradford, BD13 3RP Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A9NE (E)	974	8	409015 433642
166	Points of Interest - Commercial Services Name: Marcus Bradford Ltd Location: Low Fold Farm, Back Heights Road, Thornton, Bradford, BD13 3RP Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A9NE (E)	974	8	409015 433642
167	Points of Interest - Commercial Services Name: Scrap Yard Location: BD13 Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A19NE (NE)	993	8	408795 434696
168	Points of Interest - Education and Health Name: David Mitchell Equine Disposal & Cremation Service Location: Hirst Fields Farm, Black Dyke Lane, Thornton, Bradford, BD13 3RR Category: Animal Welfare Class Code: Pet Cemeteries and Crematoria Positional Accuracy: Positioned to address or location	A14NW (NE)	618	8	408660 434251
169	Points of Interest - Education and Health Name: Pets at Rest Location: Jerusalem Farm, Half Acre Road, Thornton, Bradford, BD13 3SG Category: Animal Welfare Class Code: Pet Cemeteries and Crematoria Positional Accuracy: Positioned to address or location	A9SW (SE)	779	8	408485 433305

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
169	Points of Interest - Education and Health Name: Pets at Rest-Pet Cremation Service Location: Unit 4 Jerusalem Farm, Thornton, Bradford, West Yorkshire, BD13 3SG Category: Animal Welfare Class Code: Pet Cemeteries and Crematoria Positional Accuracy: Positioned to address or location	A9SW (SE)	788	8	408466 433285
170	Points of Interest - Manufacturing and Production Name: Quarry (Disused) Location: BD13 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A13NW (N)	73	8	408092 434055
170	Points of Interest - Manufacturing and Production Name: Quarry (Disused) Location: BD13 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	120	8	408040 434085
170	Points of Interest - Manufacturing and Production Name: Quarry (Disused) Location: BD13 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	172	8	407965 434086
171	Points of Interest - Manufacturing and Production Name: Quarry (Disused) Location: BD13 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A13SW (W)	77	8	408027 433976
172	Points of Interest - Manufacturing and Production Name: Wind Turbine Location: BD13 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to an adjacent address or location	A13SE (S)	142	8	408141 433847
173	Points of Interest - Manufacturing and Production Name: Tank Location: BD13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	435	8	408193 433559
173	Points of Interest - Manufacturing and Production Name: Erlings Works Location: BD13 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A8NE (S)	435	8	408142 433551
173	Points of Interest - Manufacturing and Production Name: Erlings Works Location: BD13 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	491	8	408137 433495
174	Points of Interest - Manufacturing and Production Name: Erlings Quarry (Disused) Location: BD13 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	476	8	408012 433517
174	Points of Interest - Manufacturing and Production Name: Erlings Quarry (Disused) Location: BD13 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A8NW (S)	498	8	408024 433493
175	Points of Interest - Manufacturing and Production Name: Works Location: BD13 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	532	8	407572 433965

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
176	Points of Interest - Manufacturing and Production Name: Wind Turbine Location: BD13 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	601	8	408222 433395
177	Points of Interest - Manufacturing and Production Name: Wind Turbine Location: BD13 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	662	8	408109 434645
178	Points of Interest - Manufacturing and Production Name: Wind Turbine Location: BD13 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	702	8	408022 433287
179	Points of Interest - Manufacturing and Production Name: Tank Location: BD13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	721	8	407417 433766
180	Points of Interest - Manufacturing and Production Name: R G Penny Location: Hazel Crook End, Black Dyke Lane, Thornton, Bradford, BD13 3RR Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A19SW (NE)	742	8	408599 434536
181	Points of Interest - Manufacturing and Production Name: Black Dyke Lane Quarry (Disused) Location: BD13 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	770	8	408857 433828
181	Points of Interest - Manufacturing and Production Name: Black Dyke Lane Quarry (Disused) Location: BD13 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	780	8	408863 433809
181	Points of Interest - Manufacturing and Production Name: Black Dyke Lane Quarry (Disused) Location: BD13 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A14SE (E)	803	8	408877 433772
182	Points of Interest - Manufacturing and Production Name: Tank Location: BD13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	771	8	408469 433306
182	Points of Interest - Manufacturing and Production Name: Works Location: BD13 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	824	8	408501 433263
182	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	826	8	408508 433264
183	Points of Interest - Manufacturing and Production Name: Wind Turbine Location: BD13 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	791	8	408073 433194

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
184	Points of Interest - Manufacturing and Production Name: Wind Turbine Location: BD13 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	800	8	407976 433195
185	Points of Interest - Manufacturing and Production Name: D Emmerson Location: Manor Farm, Stream Head, Thornton, Bradford, BD13 3RU Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A19SW (NE)	862	8	408778 434520
186	Points of Interest - Manufacturing and Production Name: Egypt Quarry (Disused) Location: BD13 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A14SE (E)	877	8	408979 433942
187	Points of Interest - Public Infrastructure Name: Weir Location: BD13 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	328	8	407813 434136
187	Points of Interest - Public Infrastructure Name: Weir Location: BD13 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	333	8	407807 434134
188	Points of Interest - Public Infrastructure Name: Sludge Tank Location: BD13 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	455	8	408104 433529
189	Points of Interest - Public Infrastructure Name: Weirs Location: BD13 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	461	8	407714 434229
189	Points of Interest - Public Infrastructure Name: Weir Location: BD13 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	475	8	407676 434189
189	Points of Interest - Public Infrastructure Name: Weir Location: BD13 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	479	8	407670 434187
190	Points of Interest - Public Infrastructure Name: Sewage Treatment Works Location: BD13 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A12SE (W)	490	8	407616 433942
190	Points of Interest - Public Infrastructure Name: Sewage Treatment Works Location: BD13 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A12SE (W)	492	8	407614 433943
190	Points of Interest - Public Infrastructure Name: Sewage Treatment Location: BD13 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	533	8	407571 433977

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
191	Points of Interest - Public Infrastructure Name: Refuse Tip Location: BD13 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	773	8	408857 433814
192	Points of Interest - Recreational and Environmental Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	881	8	407224 434033
192	Points of Interest - Recreational and Environmental Name: Play Area Location: BD13 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	890	8	407216 434046
193	Points of Interest - Recreational and Environmental Name: Skatepark Location: BD13 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	995	8	407109 433973

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
194	Areas of Adopted Green Belt Authority: Bradford Metropolitan City Council Plan Name: Bradford District Replacement Udp Status: Adopted Plan Date: 31st October 2005	A13NE (N)	0	10	408103 433984

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Calderdale Metropolitan Borough Council - Environmental Health Environment Agency - Head Office Bradford Metropolitan City Council - Environmental Health	July 2025 November 2023 October 2025	Annual Rolling Update Annually Annual Rolling Update
Discharge Consents Environment Agency - North East Region	January 2026	Quarterly
Enforcement and Prohibition Notices Environment Agency - North East Region	March 2013	
Integrated Pollution Controls Environment Agency - North East Region	January 2009	
Integrated Pollution Prevention And Control Environment Agency - North East Region	October 2025	Bi-Annually
Local Authority Integrated Pollution Prevention And Control Bradford Metropolitan City Council - Environmental Health Calderdale Metropolitan Borough Council - Environmental Health	October 2014 October 2014	Variable Variable
Local Authority Pollution Prevention and Controls Calderdale Metropolitan Borough Council - Environmental Health Bradford Metropolitan City Council - Environmental Health	December 2020 October 2014	Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Bradford Metropolitan City Council - Environmental Health Calderdale Metropolitan Borough Council - Environmental Health	October 2014 October 2014	Variable Variable
Nearest Surface Water Feature Ordnance Survey	January 2026	
Pollution Incidents to Controlled Waters Environment Agency - North East Region	December 1998	
Historical Prosecutions Environment Agency, North East Region	March 2013	Not Applicable
Prosecutions Environment Agency - Head Office	February 2024	Annually
Registered Radioactive Substances Environment Agency - Head Office Environment Agency - North East Region	May 2023 May 2023	
Substantiated Pollution Incident Register Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	January 2026 January 2026	Quarterly Quarterly
Water Abstractions Environment Agency - North East Region	January 2026	Quarterly
Water Industry Act Referrals Environment Agency - North East Region	October 2017	
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Source Protection Zones Environment Agency - Head Office	August 2025	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	As notified
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	As notified

Agency & Hydrological	Version	Update Cycle
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2023	
Flood Water Storage Areas Environment Agency - Head Office	June 2025	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	
OS Water Network Lines Ordnance Survey	January 2026	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified
Water Framework Directive - Catchment Environment Agency - Head Office	July 2025	Annually
Water Framework Directive - Groundwater Environment Agency - Head Office	July 2025	Annually
Water Framework Directive - Surface Waters Environment Agency - Head Office	July 2025	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Environment Agency - Head Office	November 2025	Bi-Annually
Integrated Pollution Control Registered Waste Sites Environment Agency - North East Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	November 2025 November 2025	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	October 2025 October 2025	Bi-Annually Bi-Annually
Local Authority Landfill Coverage Bradford Metropolitan City Council - Planning Department Calderdale Metropolitan Borough Council - Environmental Health	February 2003 February 2003	Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Bradford Metropolitan City Council - Planning Department Calderdale Metropolitan Borough Council - Environmental Health	October 2018 October 2018	
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	
Registered Landfill Sites Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	March 2006 March 2006	Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	April 2018 April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	June 2015 June 2015	
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	June 2025	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Calderdale Metropolitan Borough Council Bradford Metropolitan City Council - Planning Department	February 2016 July 2023	Variable Variable
Planning Hazardous Substance Consents Bradford Metropolitan City Council - Planning Department Calderdale Metropolitan Borough Council	July 2022 November 2022	Variable Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2025	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	November 2025	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	November 2025	Annually
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	December 2025	Quarterly
Fuel Station Entries Green Street Advisor (UK) Ltd	February 2026	Quarterly
Points of Interest - Commercial Services PointX	March 2026	Quarterly
Points of Interest - Education and Health PointX	March 2026	Quarterly
Points of Interest - Manufacturing and Production PointX	March 2026	Quarterly
Points of Interest - Public Infrastructure PointX	March 2026	Quarterly
Points of Interest - Recreational and Environmental PointX	March 2026	Quarterly
Underground Electrical Cables National Grid	January 2024	

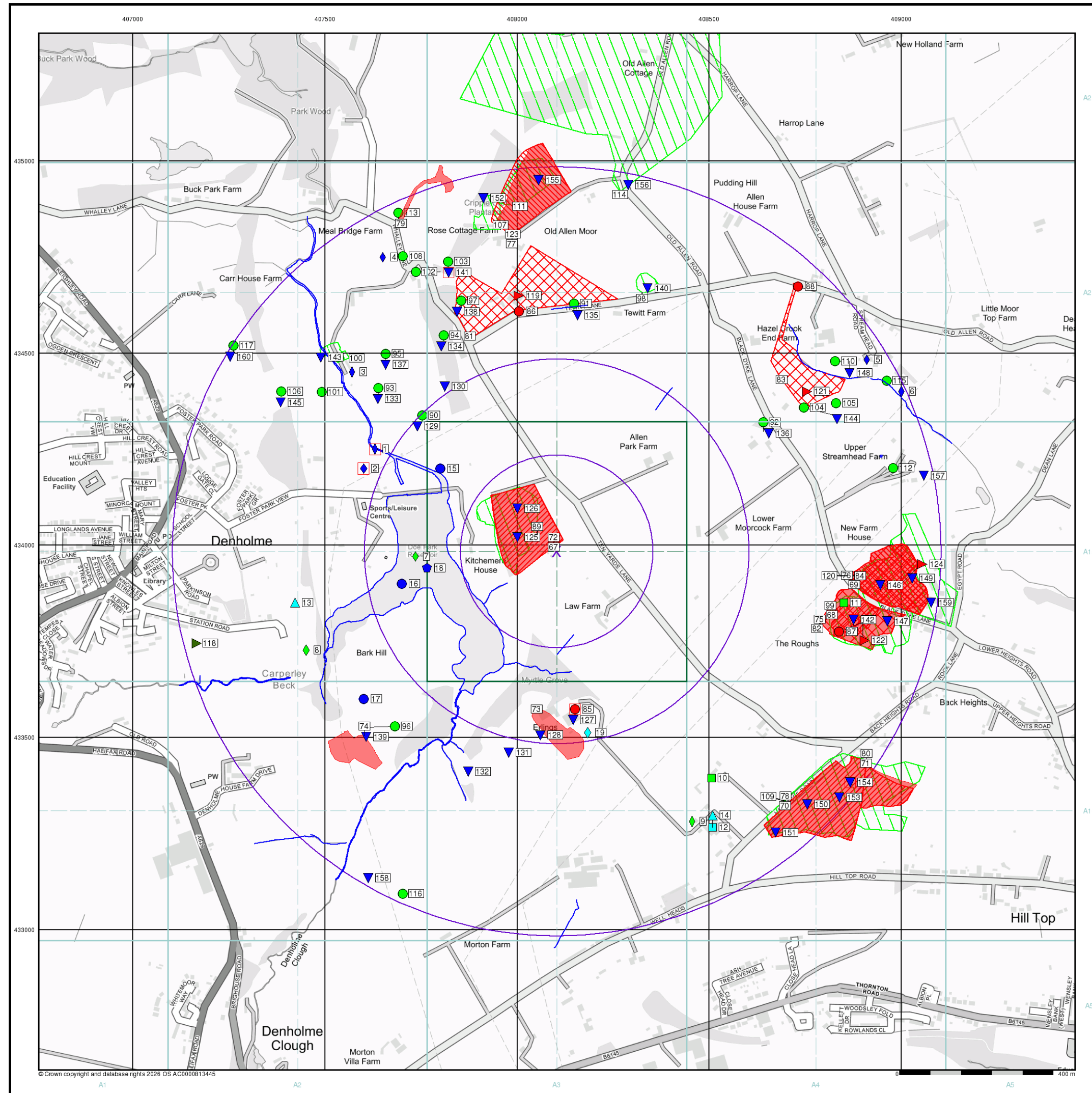
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	September 2025	Bi-Annually
Areas of Adopted Green Belt Bradford Metropolitan City Council Calderdale Metropolitan Borough Council	July 2025 July 2025	Quarterly Quarterly
Areas of Unadopted Green Belt Bradford Metropolitan City Council Calderdale Metropolitan Borough Council	July 2025 July 2025	Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural England	November 2025	Bi-Annually
Environmentally Sensitive Areas Natural England	August 2023	
Forest Parks Forestry Commission	May 2023	Not Applicable
Local Nature Reserves Natural England	January 2026	Bi-Annually
Marine Nature Reserves Natural England	February 2026	Bi-Annually
National Nature Reserves Natural England	January 2026	Bi-Annually
National Parks Natural England	September 2025	Annually
Nitrate Sensitive Areas Natural England	April 2023	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Environment Agency - Head Office	April 2016 February 2026	Annually
Ramsar Sites Natural England	February 2026	Bi-Annually
Sites of Special Scientific Interest Natural England	November 2025	Bi-Annually
Special Areas of Conservation Natural England	January 2026	Bi-Annually
Special Protection Areas Natural England	November 2025	Bi-Annually

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Bradford Metropolitan City Council - Environmental Health Town Hall, Kirkgate, Shipley, West Yorkshire, BD18 3EJ	Telephone: 01274 432111 Fax: 01274 752045 Website: www.bradford.gov.uk
4	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.co.uk
5	Bradford Metropolitan City Council - Planning Department 3rd Floor, Jacobs Well, Bradford, West Yorkshire, BD1 5RW	Telephone: 01274 432111 Fax: 01274 752045 Website: www.bradford.gov.uk
6	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
7	Landmark Information Group Limited Landmark Information Group, Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0330 036 6619 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk
8	PointX 5-6 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
9	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
10	Bradford Metropolitan City Council City Hall, Bradford, West Yorkshire, BD1 1HY	Telephone: 01274 432111 Fax: 01274 752045 Website: www.bradford.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Landmark Information Group, Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0330 036 6618 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.



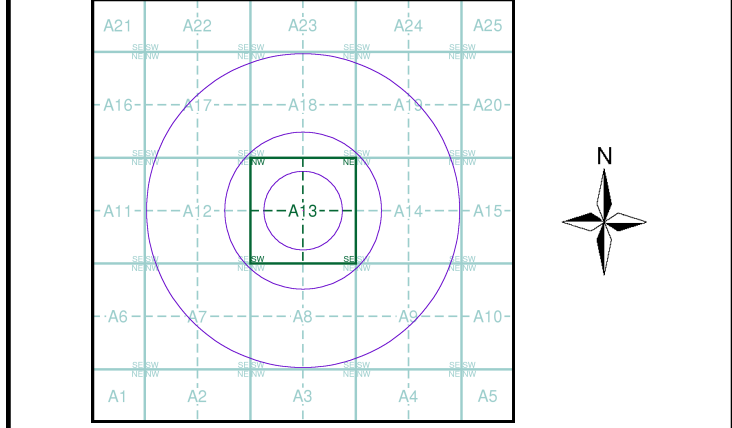
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- General**
 - Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
 - Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Historical Prosecutions
 - Prosecutions
 - Registered Radioactive Substance
 - River Network or Water Feature
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
 - BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
 - COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
 - BGS Recorded Mineral Site
- Geological**
 -

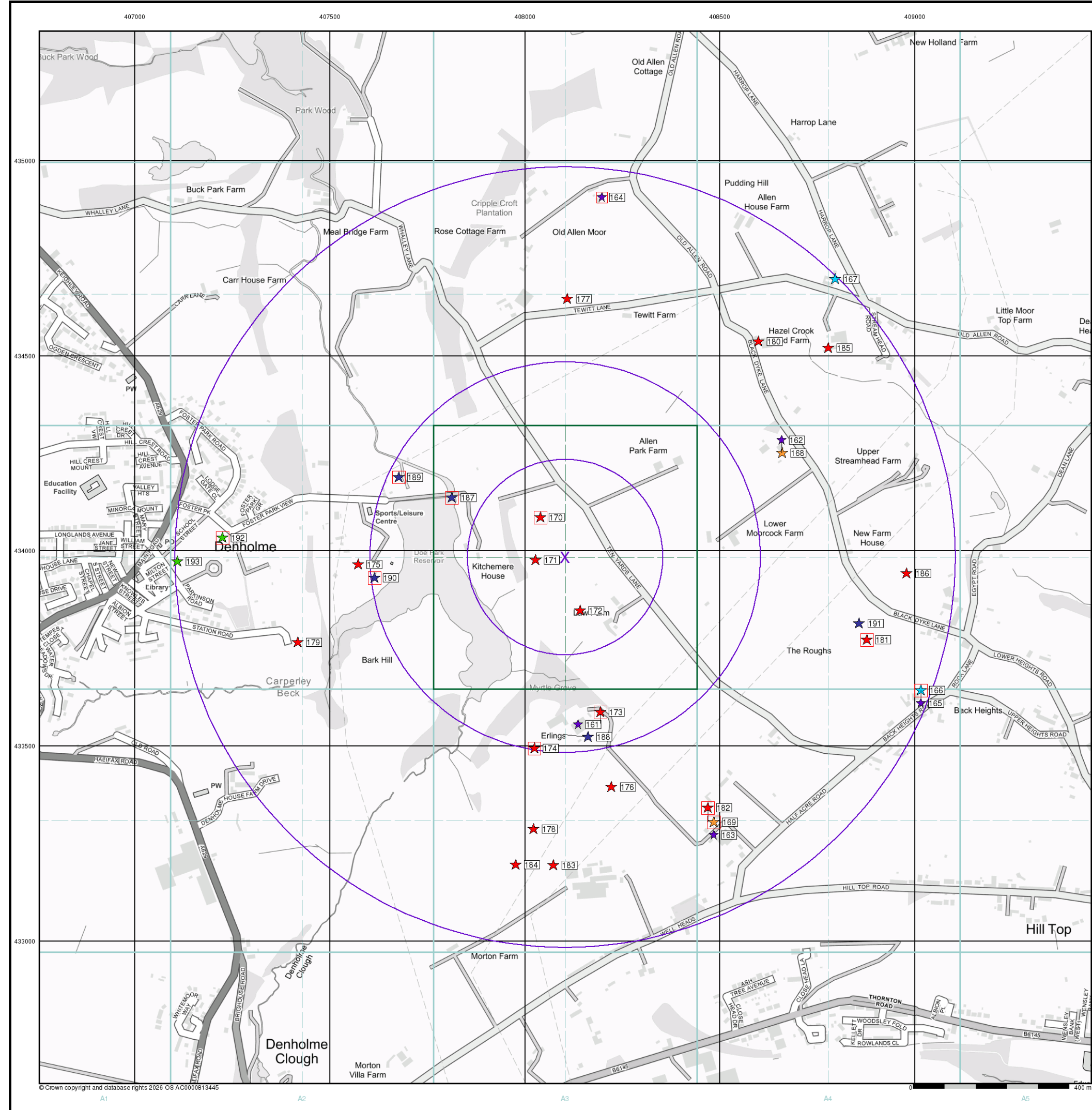
Site Sensitivity Map - Slice A



Order Details
Order Number: 397739872_1_1
Customer Ref: 03357
National Grid Reference: 408100, 433980
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details
Site at, Denholme, Bradford

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Industrial Land Use Map

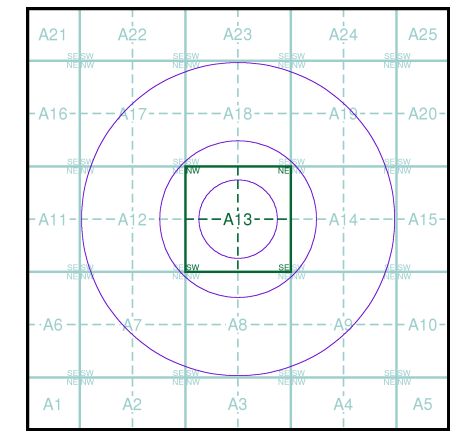
General

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- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Points of Interest - Commercial Services
- Points of Interest - Education and Health
- Points of Interest - Manufacturing and Production
- Points of Interest - Public Infrastructure
- Points of Interest - Recreational and Environmental
- Underground Electrical Cables

Industrial Land Use Map - Slice A

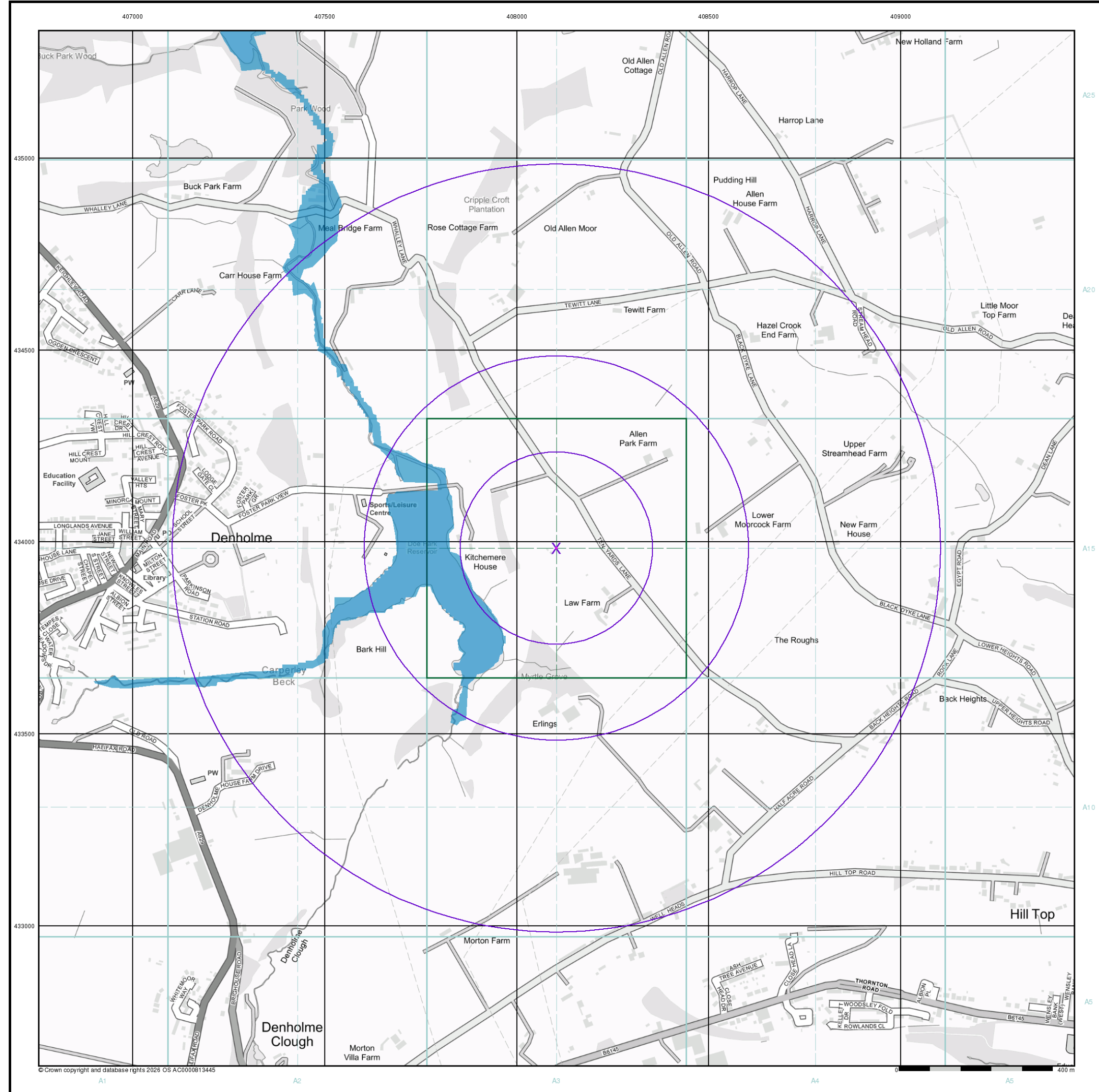


Order Details

Order Number: 397739872_1_1
Customer Ref: 03357
National Grid Reference: 408100, 433980
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

Site at, Denholme, Bradford



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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Flood Map - Slice A

Order Details

Order Number:	397739872_1_1
Customer Ref:	03357
National Grid Reference:	408100, 433980
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

Site at, Denholme, Bradford

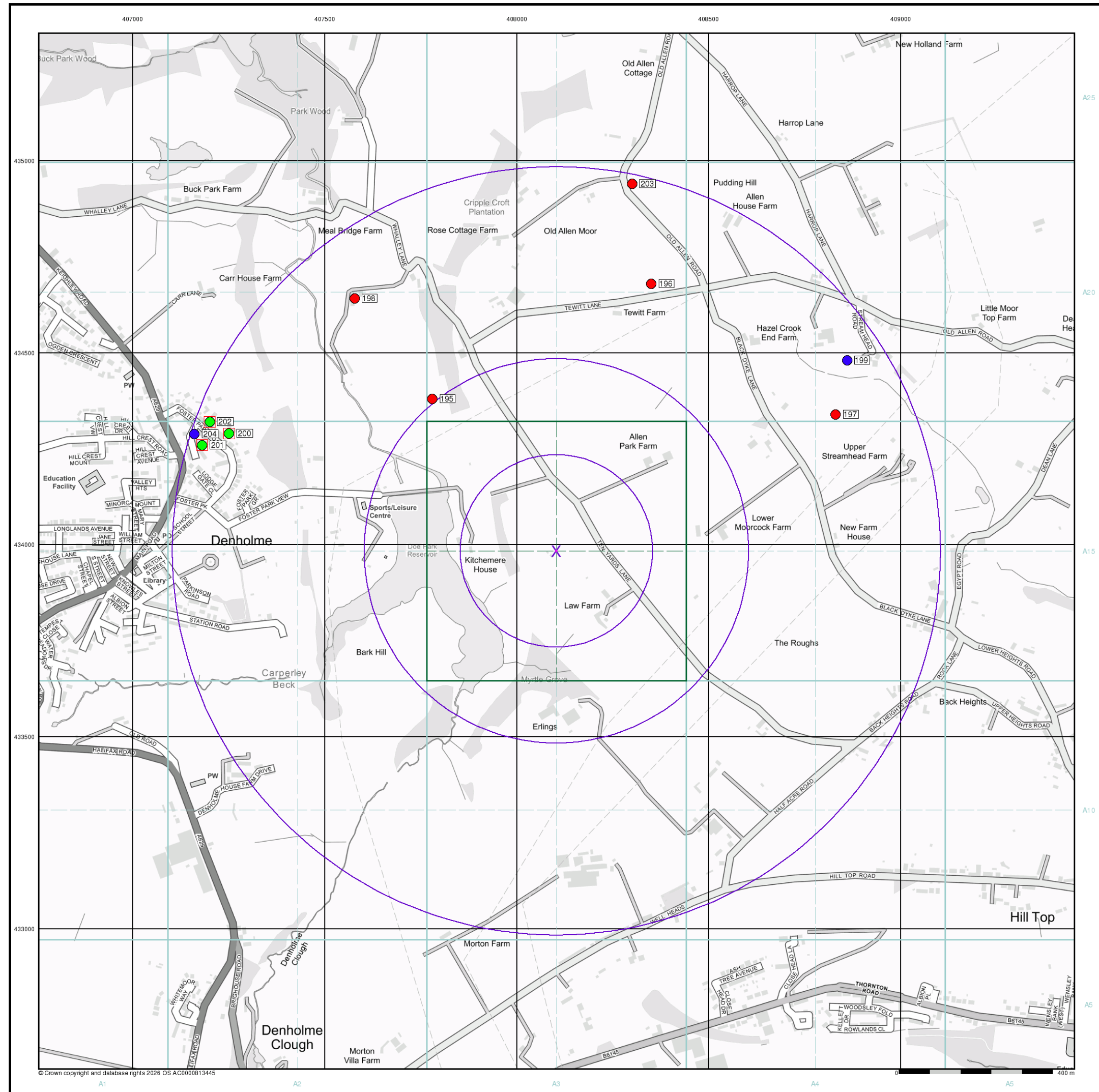
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- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A

Order Details

Order Number:	397739872_1_1
Customer Ref:	03357
National Grid Reference:	408100, 433980
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

Site at, Denholme, Bradford

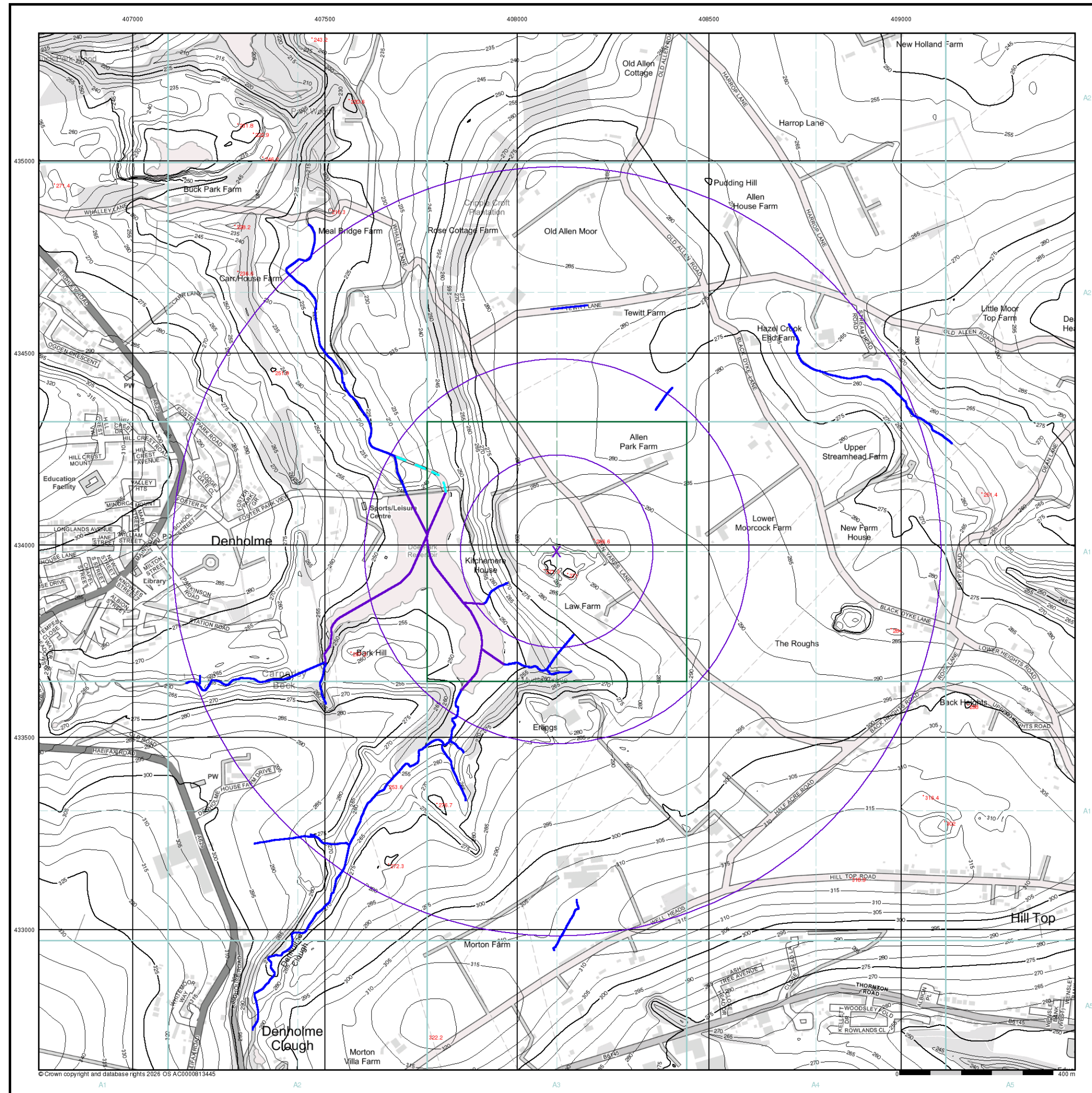
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- Bearing Reference Point

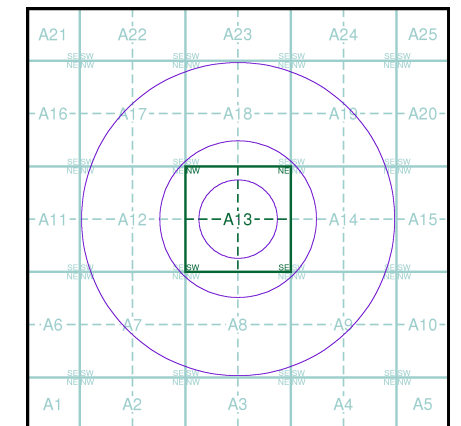
OS Water Network Data

- | | |
|--------------|-------------------------|
| Canal | Drain |
| Reservoir | Other |
| Foreshore | Lake |
| Marsh | Transfer |
| Tidal River | Lock Or Flight Of Locks |
| Inland River | Sea |

Contours (height in meters)

- | | | | | | |
|------------------|-------|-----|----|-----|-----------------|
| Standard Contour | 105 | 100 | 95 | MLW | Mean Low Water |
| Master Contour | | | | MHW | Mean High Water |
| Spot Height | 167.3 | | | | |

OS Water Network Map - Slice A



Order Details

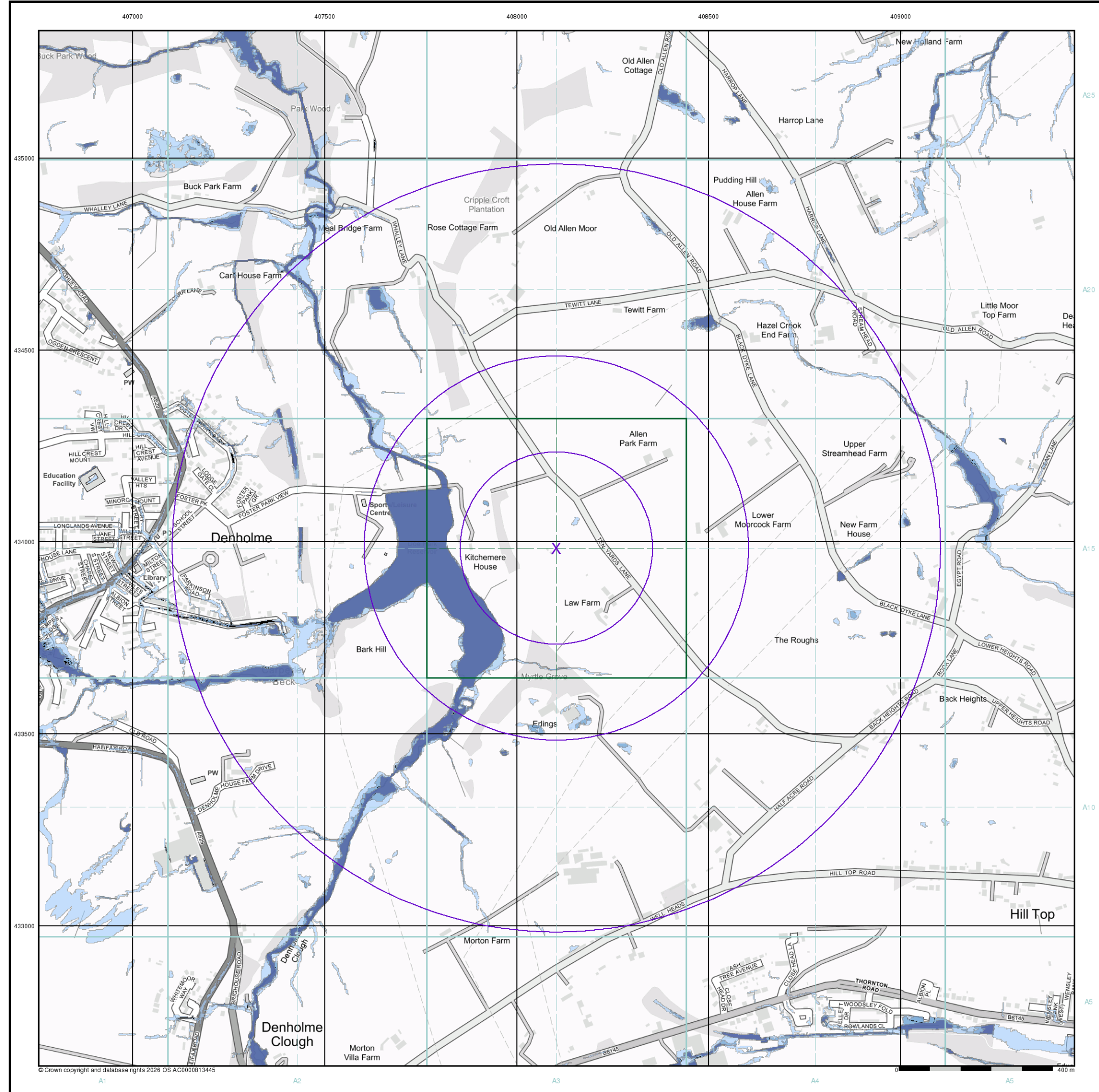
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Customer Ref: 03357
National Grid Reference: 408100, 433980
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Risk of Flooding from Surface Water

- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

E/NRW Suitability Map - Slice A

Order Details

Order Number:	397739872_1_1
Customer Ref:	03357
National Grid Reference:	408100, 433980
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

Site at, Denholme, Bradford

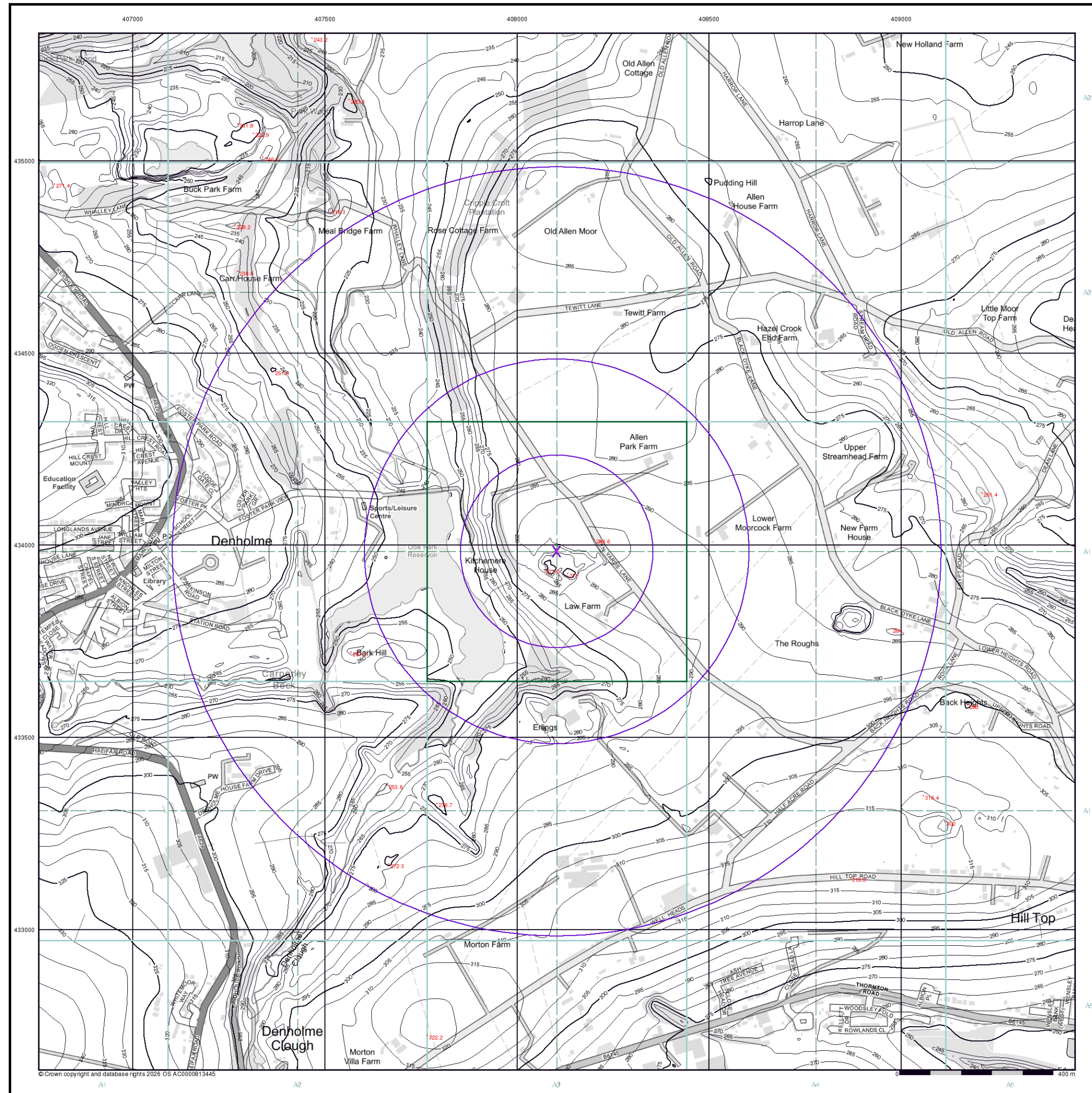
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WFD Surface Waters Map

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

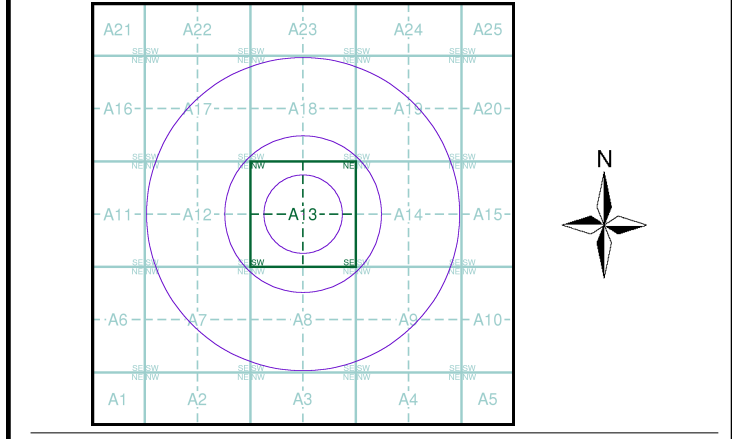
Water Framework Directive - Surface Water Quality

- High
- Good
- Moderate
- Poor
- Bad

Contours (height in meters)

- Standard Contour
- Master Contour
- Spot Height
- MLW - Mean Low Water
- MHW - Mean High Water

WFD Surface Waters Map - Slice A

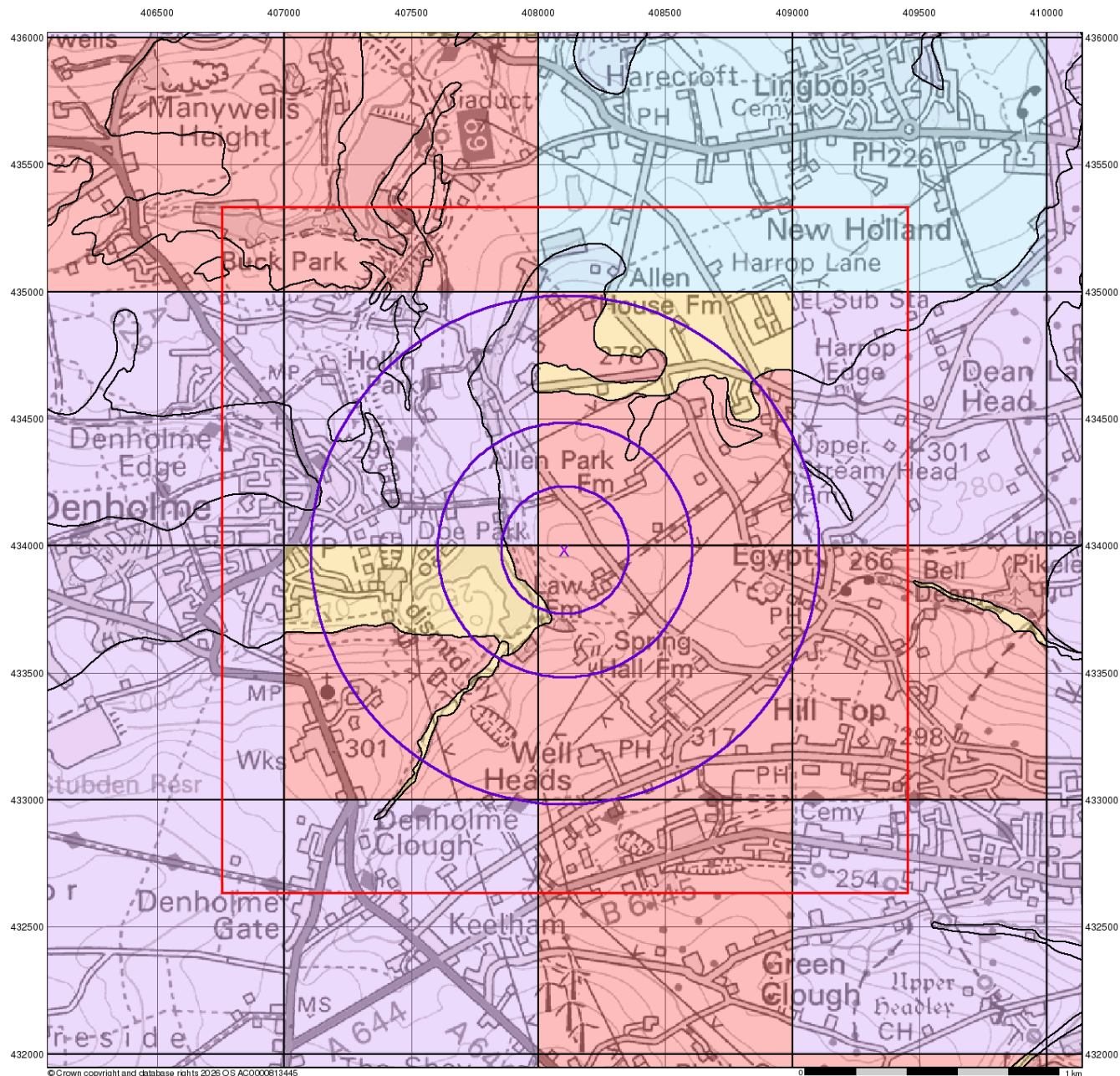


Order Details

Order Number: 397739872_1_1
Customer Ref: 03357
National Grid Reference: 408100, 433980
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

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Groundwater Vulnerability

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Bedrock Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

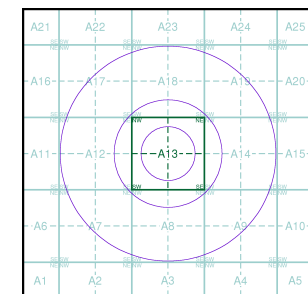
Superficial Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

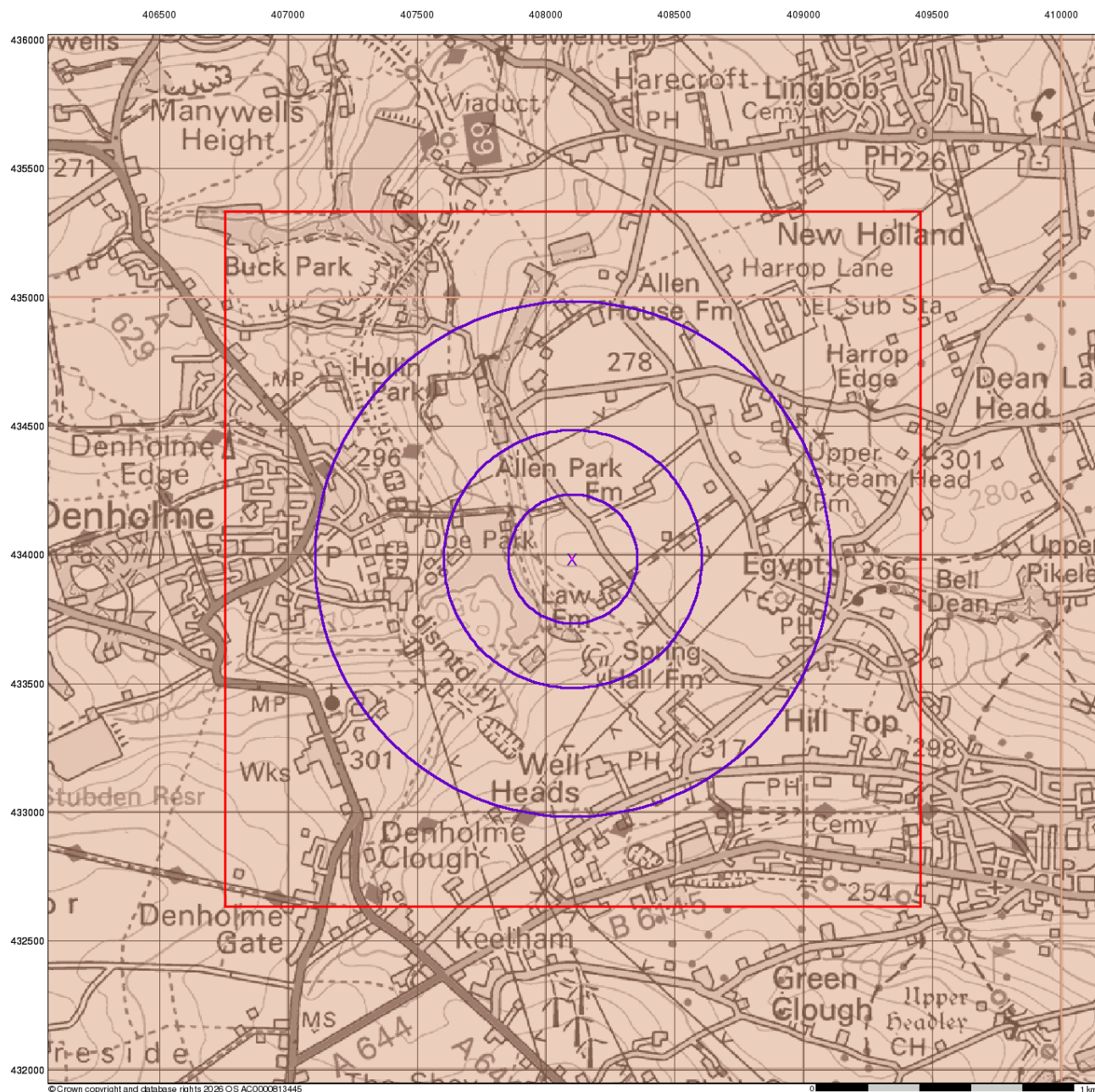
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Customer Ref: 03357
National Grid Reference: 408100, 433980
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

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Bedrock Aquifer Designation

General

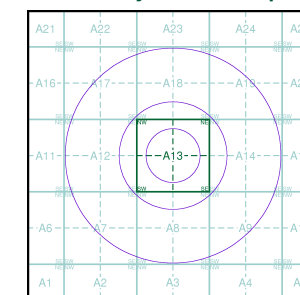
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



Order Details

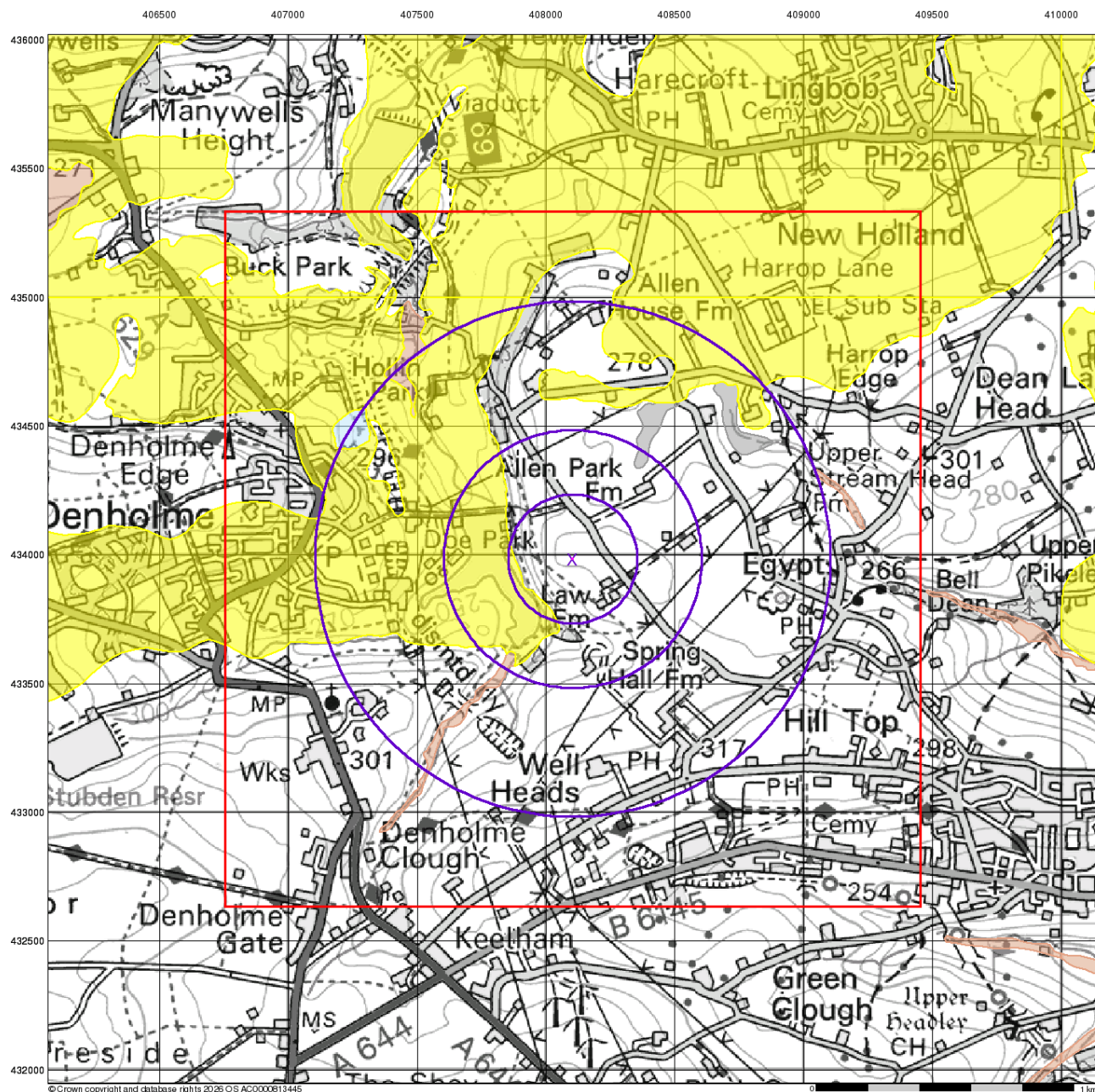
Order Number: 397739872_1_1
Customer Ref: 03357
National Grid Reference: 408100, 433980
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

Site at, Denholme, Bradford

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Superficial Aquifer Designation

General

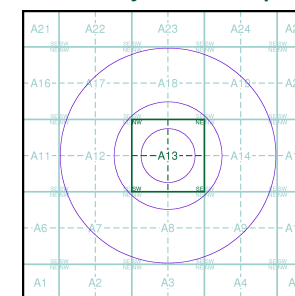
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



Order Details

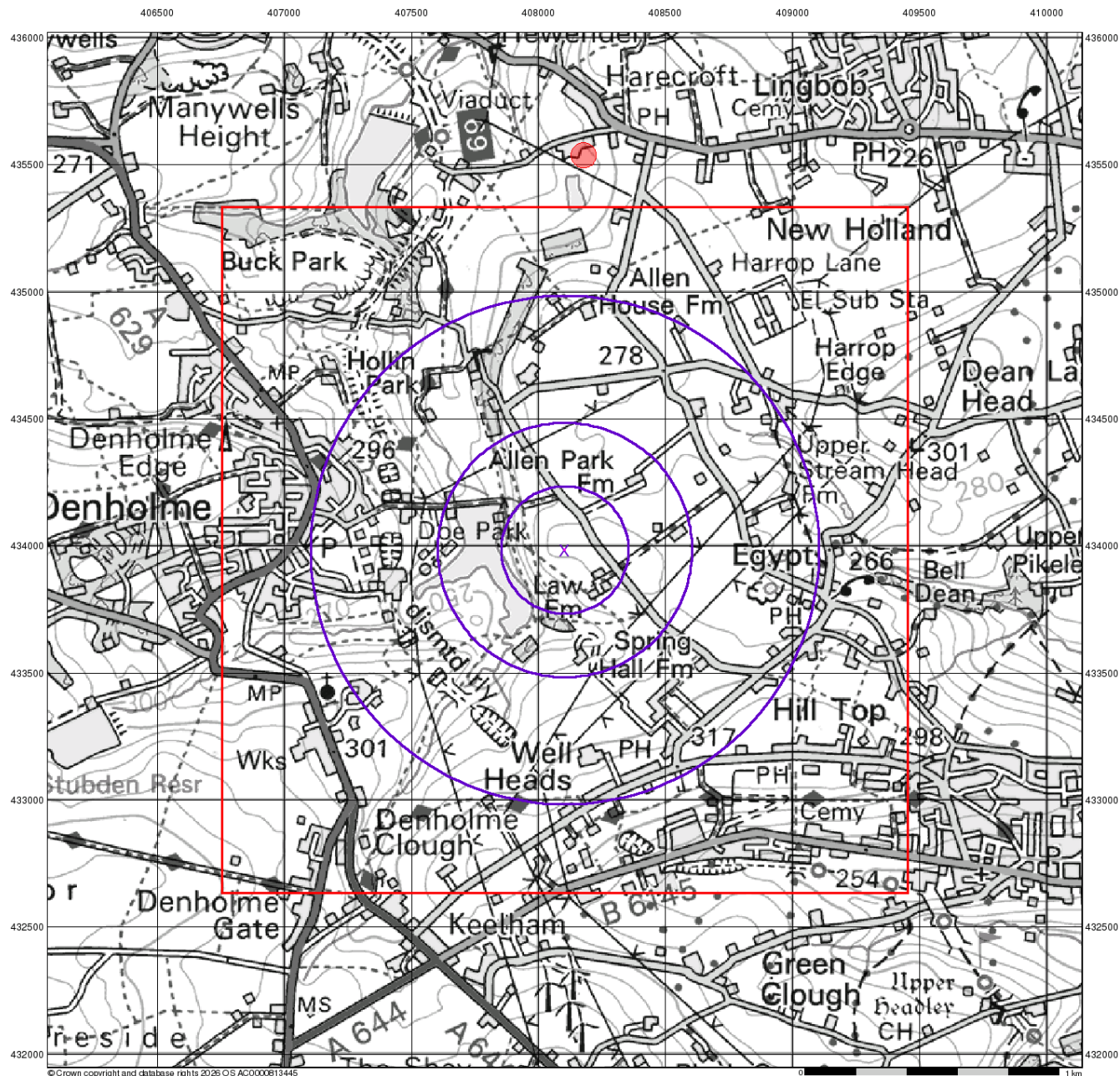
Order Number: 397739872_1_1
 Customer Ref: 03357
 National Grid Reference: 408100, 433980
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

Site at, Denholme, Bradford

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Source Protection Zones

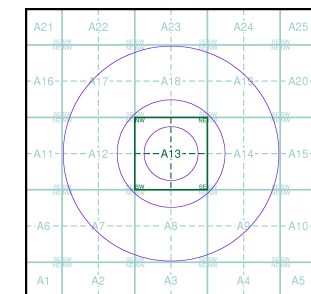
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)

Site Sensitivity Context Map - Slice A



Order Details

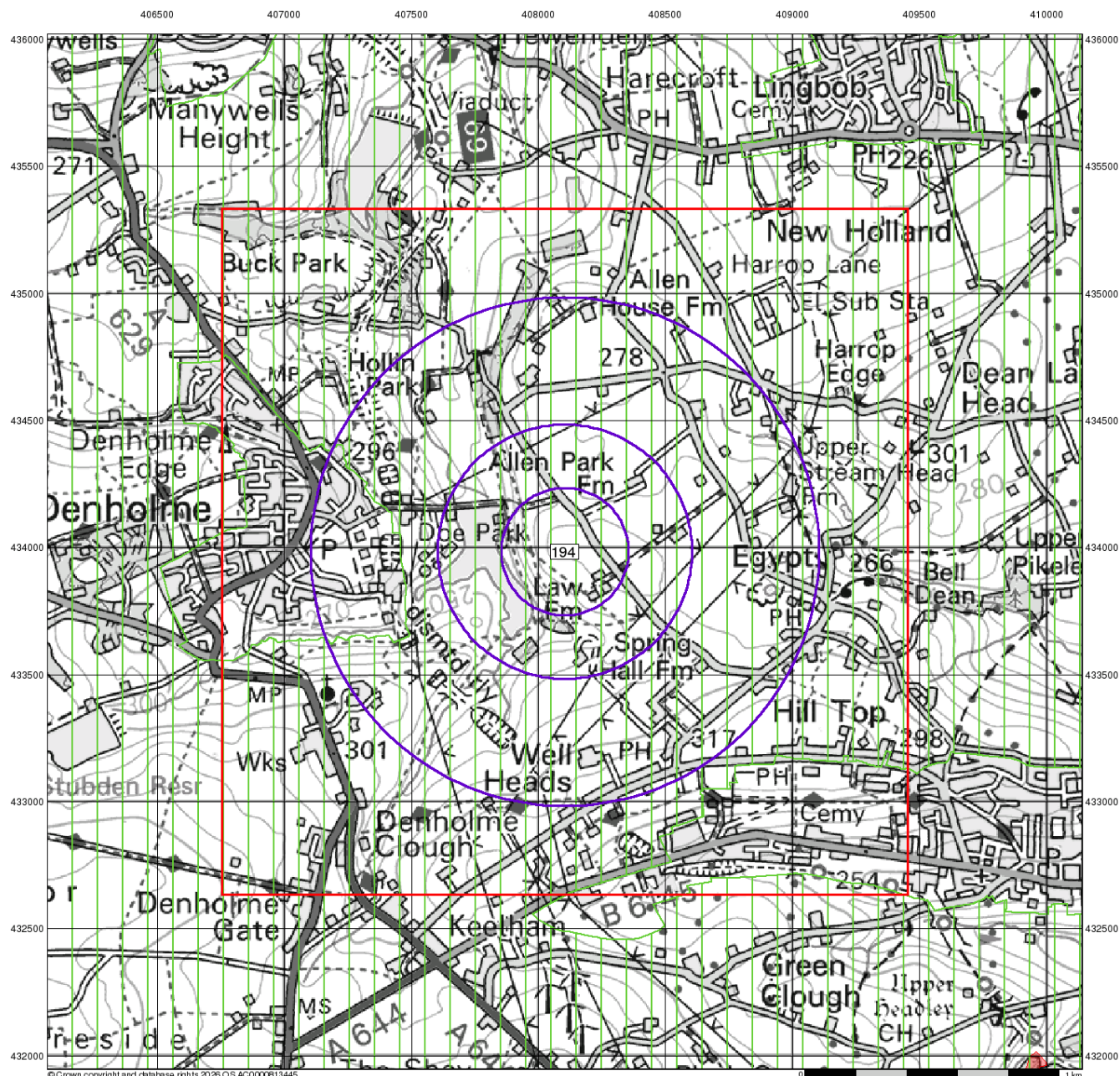
Order Number: 397739872_1_1
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 National Grid Reference: 408100, 433980
 Slice: A
 Site Area (Ha): 0.01
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Sensitive Land Uses

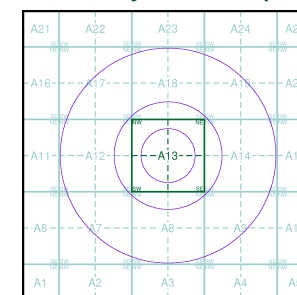
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Sensitive Land Uses

- Ancient Woodland
- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area
- World Heritage Sites

Site Sensitivity Context Map - Slice A



Order Details

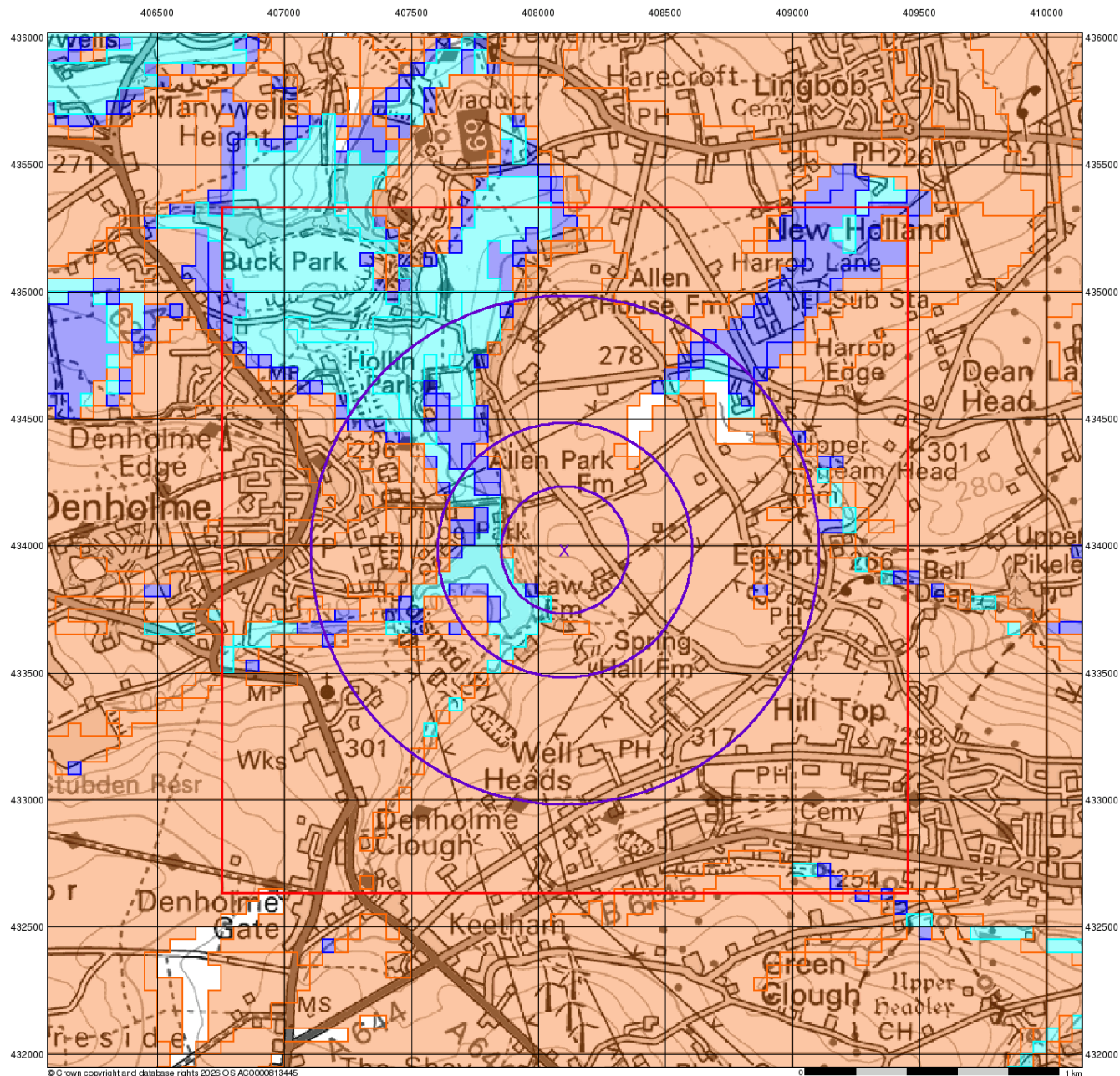
Order Number: 397739872_1_1
 Customer Ref: 03357
 National Grid Reference: 408100, 433980
 Slice: A
 Site Area (Ha): 0.01
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Site at, Denholme, Bradford

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0 1 km

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BGS Flood GFS Data

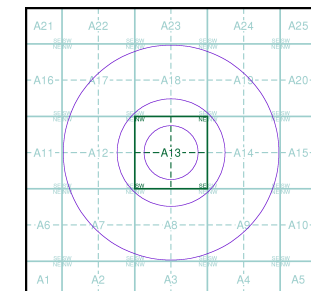
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice

Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 397739872_1_1
 Customer Ref: 03357
 National Grid Reference: 408100, 433980
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

Site at, Denholme, Bradford

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Geology 1:10,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MGR	Made Ground (Undivided)	Artificial Deposit	Holocene - Holocene
	WGR	Worked Ground (Undivided)	Void	Holocene - Holocene
	WMGR	Infilled Ground	Artificial Deposit	Holocene - Holocene
	DDGR	Disturbed Ground (Undivided)	Unknown/Unclassified Entry	Holocene - Holocene
	SLIP	Landslide Deposit	Unknown/Unclassified Entry	Quaternary - Quaternary

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	Fault			
	Rock			

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Flandrian - Pleistocene
	TILLD	Till, Devensian	Diamicton	Devensian - Ipswichian
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Devensian - Ipswichian
	HMGD	Hummocky (Moundy) Glacial Deposits	Diamicton	Pleistocene - Pragian
	HEAD	Head	Clay, Silt, Sand and Gravel	Quaternary - Ryazanian
	PEAT	Peat	Peat [Unlithified Deposits Coding Scheme]	Quaternary - Ryazanian
	RTDU	River Terrace Deposits (Undifferentiated)	Sand and Gravel	Quaternary - Ryazanian
	HEAD	Head	Diamicton	Quaternary - Ryazanian

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	EF	Elland Flags	Sandstone	Langsettian - Langsettian
	PLCM	Pennine Lower Coal Measures Formation	Mudstone, Siltstone and Sandstone	Langsettian - Langsettian
	FEYR	48 Yard Rock	Sandstone	Langsettian - Langsettian
	PLCM	Pennine Lower Coal Measures Formation	Sandstone	Langsettian - Langsettian
	STNR	Stanningley Rock	Sandstone	Langsettian - Langsettian
	EYR	80 Yard Rock	Sandstone	Langsettian - Langsettian
	RR	Rough Rock	Sandstone	Yeadonian - Yeadonian
	RF	Rough Rock Flags	Sandstone	Yeadonian - Yeadonian
	MG	Millstone Grit Group [See also Migr]	Mudstone, Siltstone and Sandstone	Namurian - Namurian

Geology 1:10,000 Maps

This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:10,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around a site. This mapping may be more up to date than previously published paper maps.

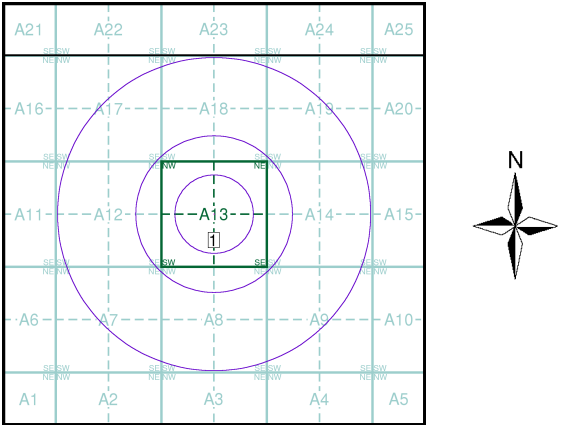
The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page.

Please Note: Not all of the layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:10,000 Maps Coverage

Map ID:		Map ID:	1
Map Name:	SE03NE	Map Name:	SE03SE
Map Date:	1993	Map Date:	1996
Bedrock Geology:	Available	Bedrock Geology:	Available
Superficial Geology:	Available	Superficial Geology:	Available
Artificial Geology:	Available	Artificial Geology:	Available
Faults:	Available	Faults:	Available
Landslip:	Available	Landslip:	Available
Rock Segments:	Available	Rock Segments:	Available

Geology 1:10,000 Maps - Slice A

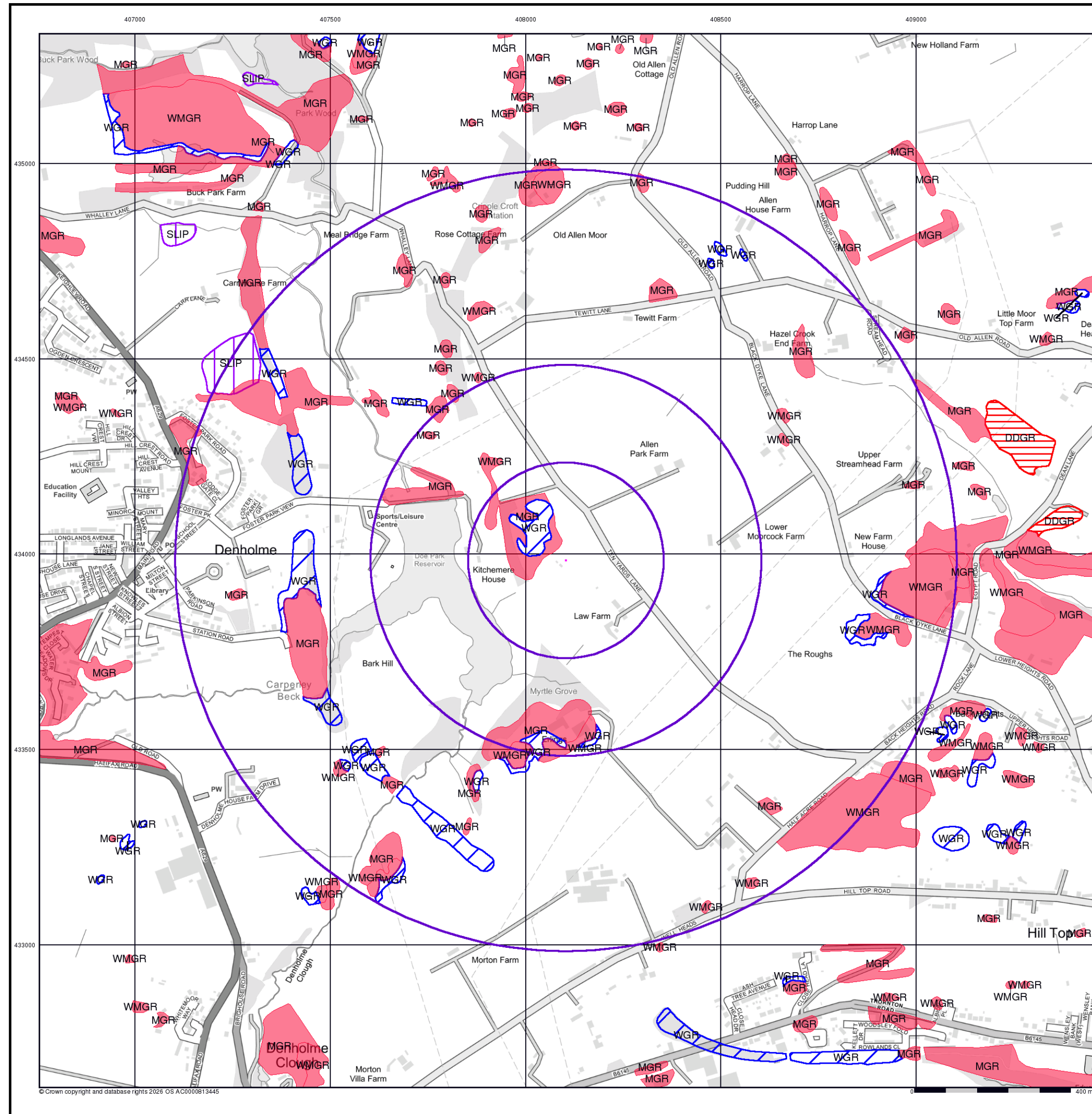


Order Details

Order Number:	397739872_1_1
Customer Ref:	03357
National Grid Reference:	408100, 433980
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

Site at, Denholme, Bradford



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Artificial Ground and Landslip

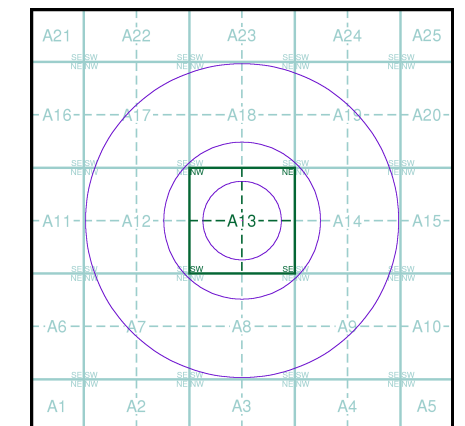
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A



Order Details

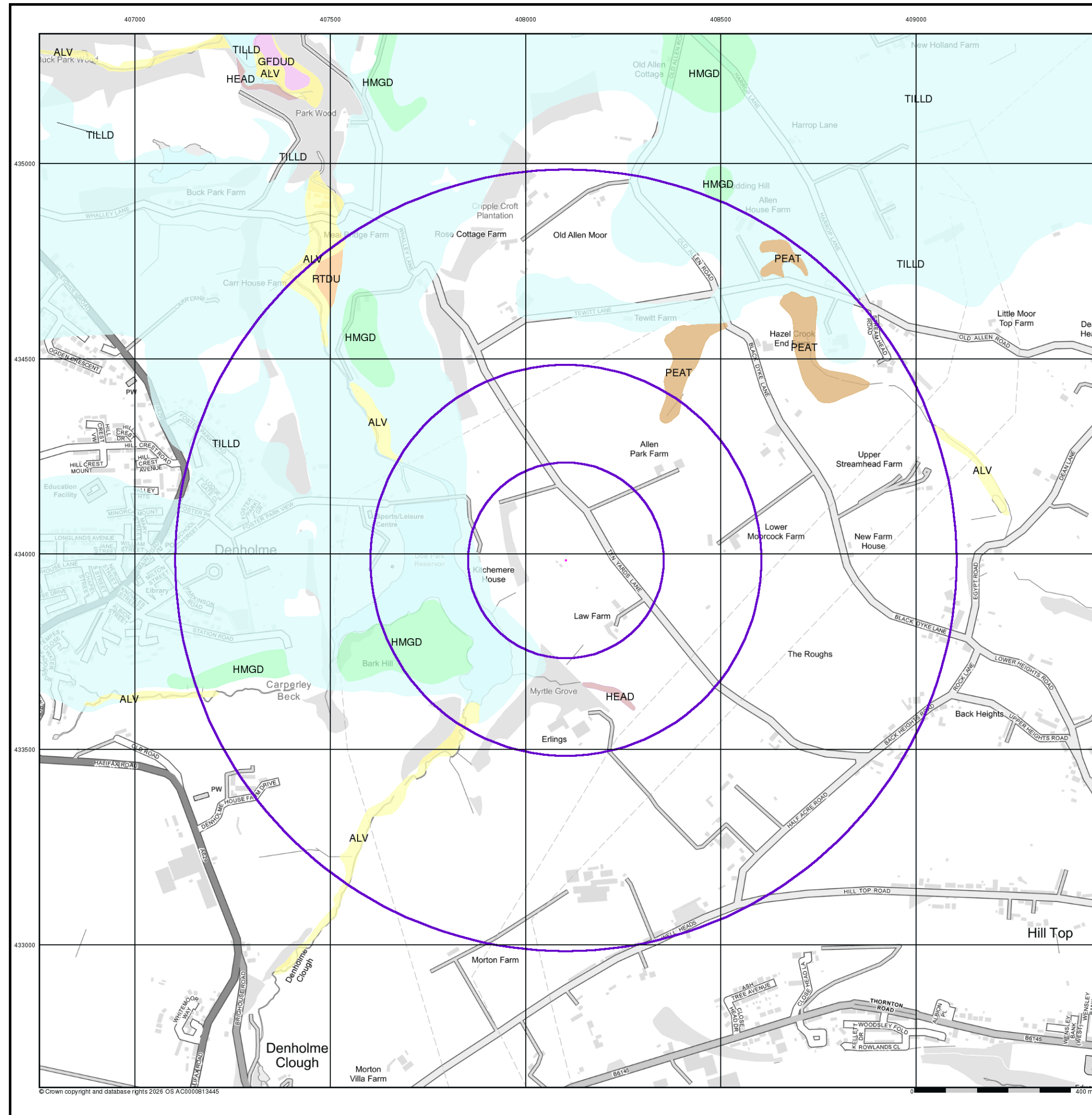
Order Number: 397739872_1_1
Customer Ref: 03357
National Grid Reference: 408100, 433980
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

Site at, Denholme, Bradford

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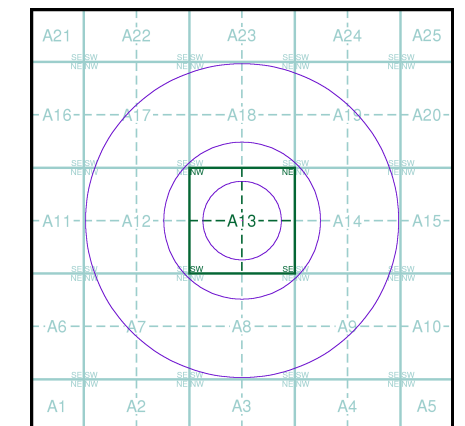
Superficial Geology

BGS 1:10,000 Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice A

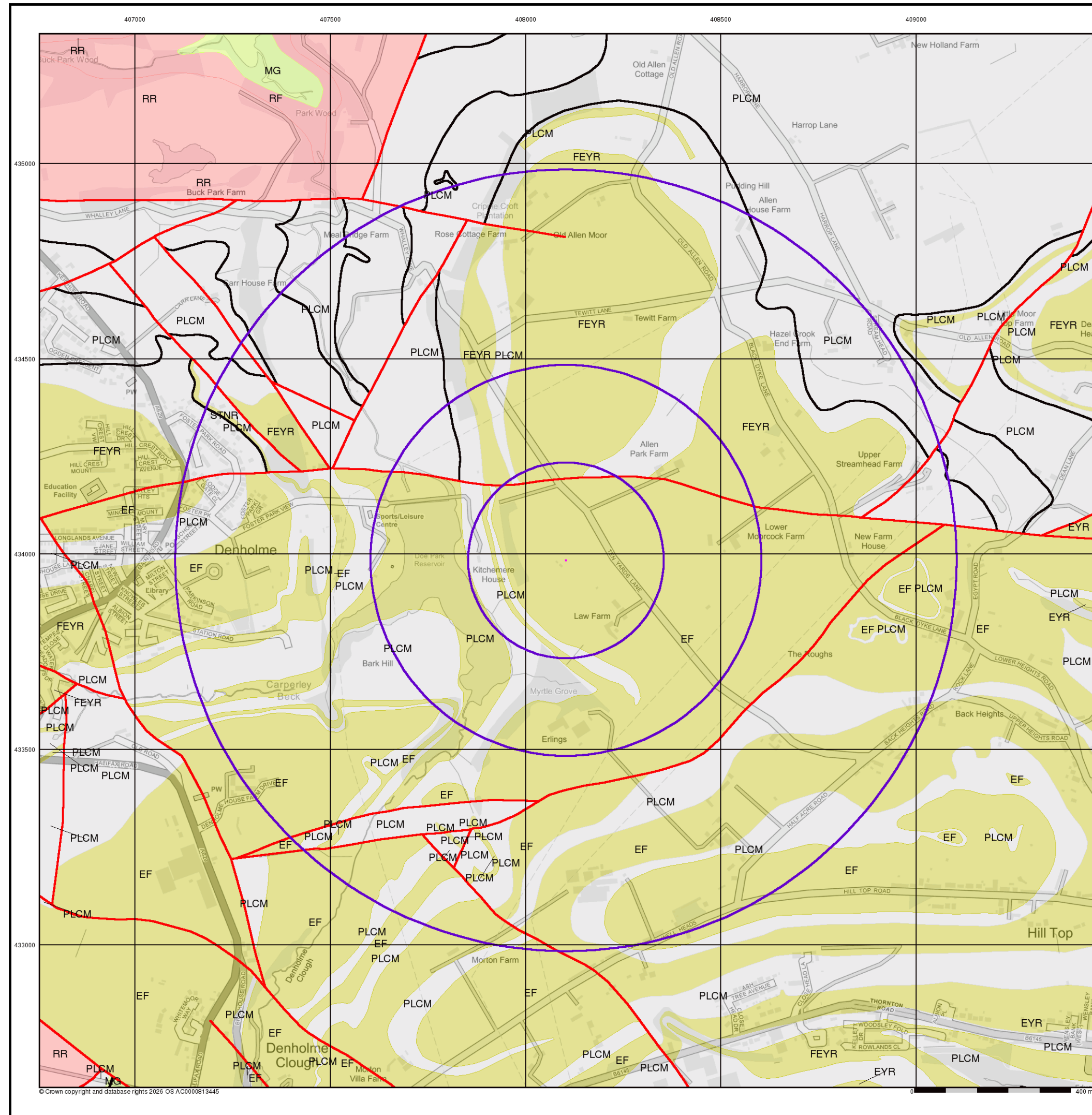


Order Details

Order Number: 397739872_1_1
Customer Ref: 03357
National Grid Reference: 408100, 433980
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

Site at, Denholme, Bradford



Bedrock and Faults

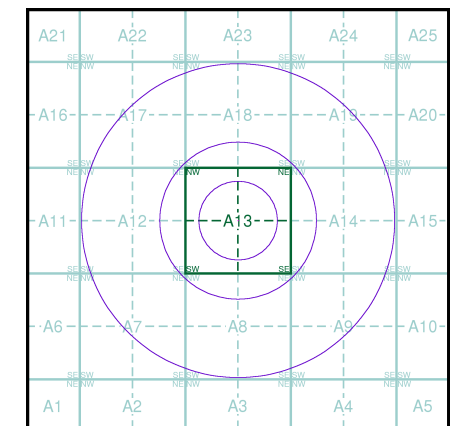
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults and thin beds mapped as lines such as coal seams and mineral veins. These are not restricted by age and could relate to features of any of the 1:10,000 geology datasets.

Bedrock and Faults Map - Slice A



Order Details

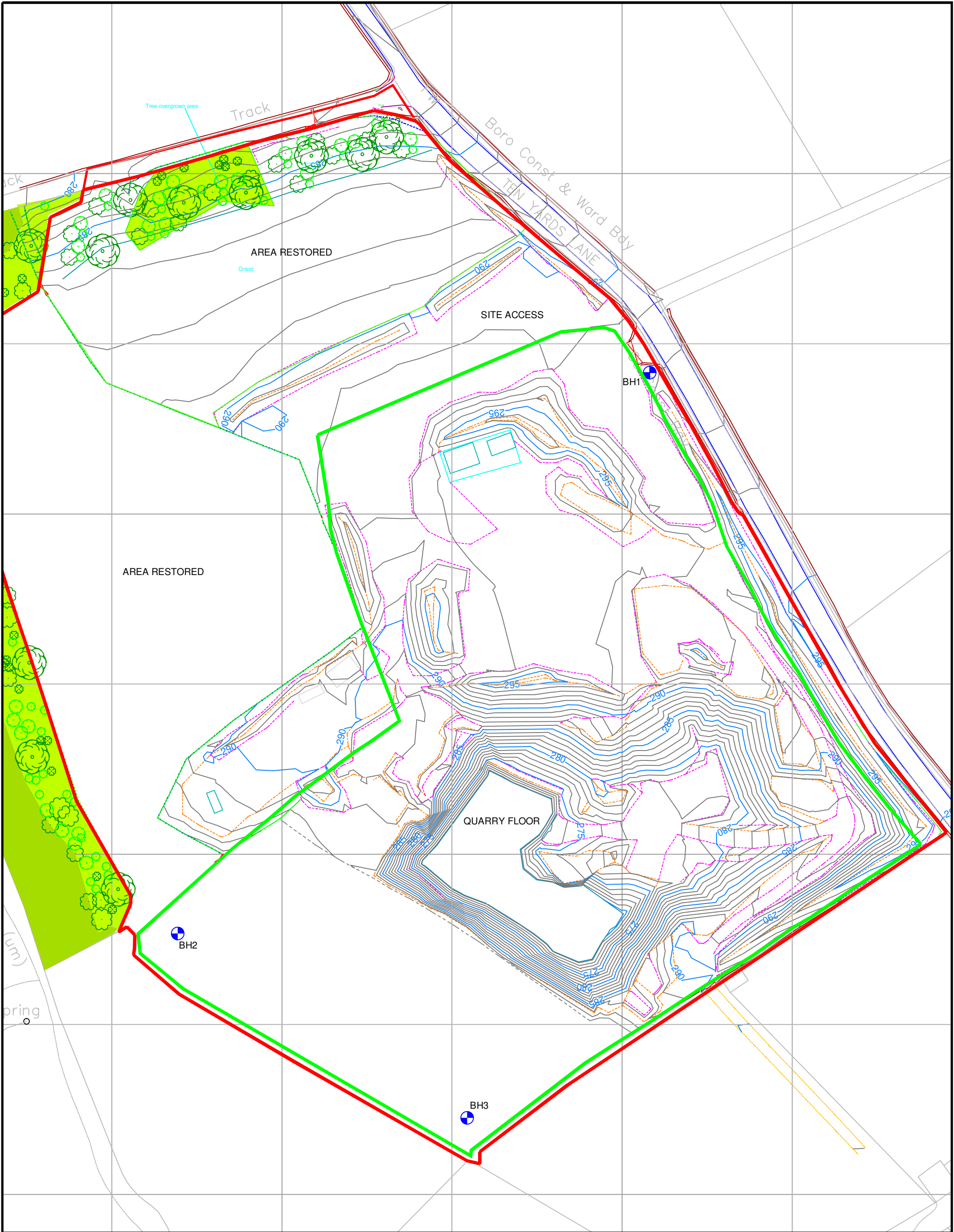
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Customer Ref: 03357
National Grid Reference: 408100, 433980
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

Site at, Denholme, Bradford

Appendix B

Borehole locations and logs



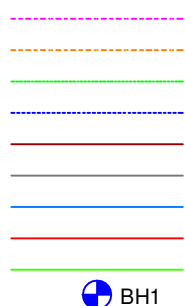
**SILKSTONE
ENVIRONMENTAL**

GEOTECHNICAL, PLANNING & SURVEYING CONSULTANTS

A PHENNA GROUP COMPANY

7 Hall Annex, Thorncliffe Park, Chapeltown, Sheffield, S35 2PH
Tel (0114) 2573487 www.silkstoneenvironmental.co.uk

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Bottom Of Bank
Top Of Bank
Fence
Road
Wall
Normal Contour (1m AOD)
Prominent Contour (5m AOD)
Planning Permission Boundary
Waste Recovery Area
Borehole Location & ID



BH1

Client:

Birks Royd Stone

Project:

Ten Yards Lane Quarry

Plan Title:

Proposed Borehole Location Plan

Drawing No.
25209/1

Rev

Project No. 25209

Date: Aug '25

Scale: 1:1000 @ A3

Drawn: MS

Chkd: DG

 Ace Drilling Services	Drillers Daily Borehole Log														Office 6, Rear Walled Garden, Nostell Estate, Wakefield, West Yorkshire, WF4 1AB Office: (01924) 80202 Stuart@acedrillingservicesltd.com							
Contract No.	25209	Site: Ten Yards Lane Quarry														Borehole No:		BH03				
Rig	Beretta GT54-7															Borehole Dia:		4"				
Driller	Pete Smallwood															Type of Bit / Barrel:		PCD				
Date	18.8.25															Type of Flush:		Air Mist				
Casing used		Strata description		Depth		Drilling / Coring								Penetration Tests								
		Colour	Strata	From	To	Type OH/C/DS/ SPT	Sample No	Depth From	Depth To	Run Length	Core Recovered	Percentage of Recovery	Flush Colour	Flush Returns	75mm	75mm	75mm	75mm	75mm	75mm	Refusal	
Size	PW	Brown	Sandstone	0.00	17.50	OH		0.00	32.50				Brown	100%								
Depth to	6.0	Grey	Mudstone	17.50	26.00																	
Water strikes		Brown	Sandstone	26.00	32.50																	
Depth																						
Inflow																						
Water level																						
Depth sealed off																						
Hours on site																						
From	8.00																					
To	15.30																					
Water level AM																						
Water level PM	20.2																					
Consumables used		Dayworks					Time		Standing					Time		Installation		Depth				
							From	To						From	To			From	To	From	To	
Core Boxes									Await delivery of geosock for installation pipe					14.45	17.30							
Liner		Mob to Site																				
Gravel		Move to Position - BH03					8.30	9.00														
Bentonite		Setup on Postion - BH03					9.00	10.00														
Postcrete		Flush BH prior to installation					14.00	14.15														
Install Cover																						
Crew																						
Driller	Pete Smallwood																					
2nd man	Ryan Stevens																					
3rd man																						
Remarks	BH03 Water level immediately after pulling rods out of BH - 19.80m BH03 Water level 20 minutes after initial water level dip - 20.20m																					

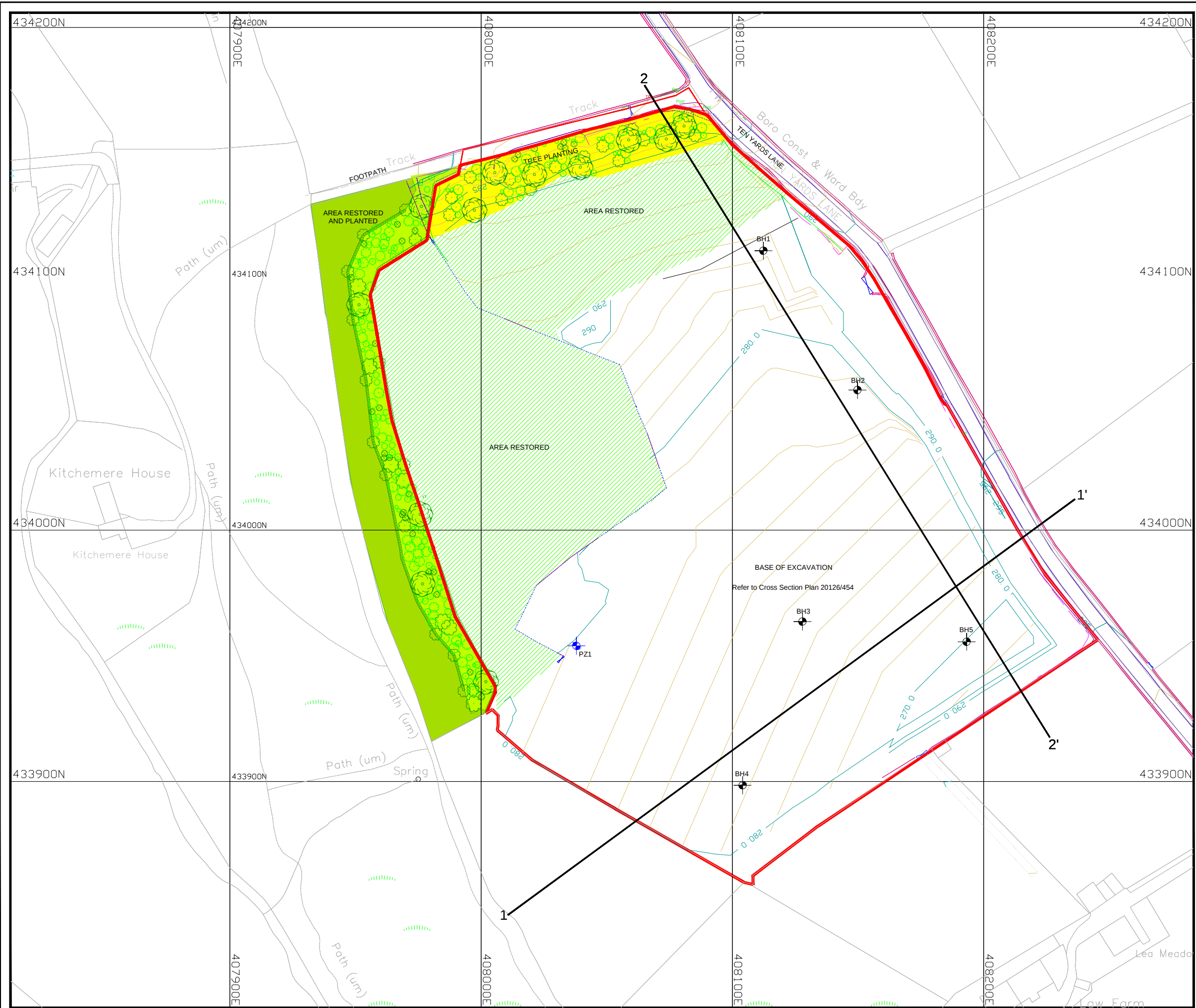
 Ace Drilling Services	Drillers Daily Borehole Log														Office 6, Rear Walled Garden, Nostell Estate, Wakefield, West Yorkshire, WF4 1AB Office: (01924) 80202 Stuart@acedrillingservicesltd.com							
Contract No.	25209	Site: Tem Yards Lane Quarry														Borehole No:		BH03				
Rig	Beretta GT54-7															Borehole Dia:		4"				
Driller	Pete Smallwood															Type of Bit / Barrel:		PCD				
Date	19.8.25															Type of Flush:		Air Mist				
Casing used		Strata description		Depth		Drilling / Coring								Penetration Tests								
		Colour	Strata	From	To	Type OH/C/DS/ SPT	Sample No	Depth From	Depth To	Run Length	Core Recovered	Percentage of Recovery	Flush Colour	Flush Returns	75mm	75mm	75mm	75mm	75mm	75mm	Refusal	
Size	PW																					
Depth to	6.0																					
Water strikes																						
Depth																						
Inflow																						
Water level																						
Depth sealed off																						
Hours on site																						
From	7.30																					
To																						
Water level AM	21.8																					
Water level PM																						
Consumables used		Dayworks				Time		Standing				Time		Installation		Depth						
						From	To					From	To			From	To	From	To			
Core Boxes																						
Liner																						
Gravel	19																					
Bentonite	2																					
Postcrete	1																					
Install Cover	1																					
Crew																						
Driller	Pete Smallwood																					
2nd man	Ryan Stevens																					
3rd man																						
Remarks																						

 Ace Drilling Services		Drillers Daily Borehole Log												Office 6, Rear Walled Garden, Nostell Estate, Wakefield, West Yorkshire, WF4 1AB Office: (01924) 80202 Stuart@acedrillingservicesltd.com									
Contract No.		25209		Site: Ten Yards Lane Quarry												Borehole No:		BH02					
Rig		Beretta GT54-7														Borehole Dia:		5"					
Driller		Pete Smallwood														Type of Bit / Barrel:		PCD					
Date		19.8.25														Type of Flush:		Air Mist					
Casing used			Strata description		Depth		Drilling / Coring								Penetration Tests								
			Colour	Strata	From	To	Type OH/C/DS/ SPT	Sample No	Depth From	Depth To	Run Length	Core Recovered	Percentage of Recovery	Flush Colour	Flush Returns	75mm	75mm	75mm	75mm	75mm	75mm	Refusal	
Size		PW		Brown	Sandstone	0.00	17.00	OH		0.00	26.50				Brown	100%							
Depth to		3.0		Grey	Mudstone w/	17.00																	
Water strikes				Sandstone bands		25.50																	
			Brown	Sandstone	25.50	26.50																	
Depth																							
Inflow																							
Water level																							
Depth sealed off																							
Hours on site																							
From																							
To																							
Water level AM																							
Water level PM																							
Consumables used		Dayworks						Time		Standing				Time		Installation		Depth					
								From	To					From	To			From	To	From	To		
Core Boxes				Move to Position - BH02						14.00	14.30	Insruacted to leave site due to Quarry Owner				16.30							
Liner				Setup on Postion - BH02						14.30	15.00	wanting to shut gates					17.30						
Gravel																							
Bentonite																							
Postcrete																							
Install Cover																							
Crew																							
Driller		Pete Smallwood																					
2nd man		Ryan Stevens																					
3rd man																							
Remarks																							

 Ace Drilling Services		Drillers Daily Borehole Log													Office 6, Rear Walled Garden, Nostell Estate, Wakefield, West Yorkshire, WF4 1AB Office: (01924) 80202 Stuart@acedrillingservicesltd.com								
Contract No.		25209		Site: Ten Yards Lane Quarry													Borehole No:		BH02				
Rig		Beretta GT54-7															Borehole Dia:		5"				
Driller		Pete Smallwood															Type of Bit / Barrel:		PCD				
Date		20.8.25															Type of Flush:		Air Mist				
Casing used			Strata description		Depth		Drilling / Coring								Penetration Tests								
			Colour	Strata	From	To	Type OH/C/DS/ SPT	Sample No	Depth From	Depth To	Run Length	Core Recovered	Percentage of Recovery	Flush Colour	Flush Returns	75mm	75mm	75mm	75mm	75mm	75mm	Refusal	
Size		PW		Brown	Sandstone	26.50	34.50	OH		26.50	34.50				Brown	100%							
Depth to		3.0																					
Water strikes																							
Depth																							
Inflow																							
Water level																							
Depth sealed off																							
Hours on site																							
From		7.30																					
To		16.00																					
Water level AM																							
Water level PM																							
Consumables used			Dayworks					Time		Standing				Time		Installation		Depth					
								From	To					From	To			From	To	From	To		
Core Boxes																	Size	Type	From	To			
Liner																	50mm	Slotted	34.50	3.00			
Gravel		19															50mm	Plain	3.00	0.00			
Bentonite		2																Gravel	34.50	3.00			
Postcrete		1																Bentonite	3.00	0.50			
Install Cover		1																Concrete	0.50	0.00			
Crew																	Barrel Cover						
Driller		Pete Smallwood																					
2nd man		Ryan Stevens																					
3rd man																							
Remarks		Water level once settled - 21.80m																					

 Ace Drilling Services		Drillers Daily Borehole Log												Office 6, Rear Walled Garden, Nostell Estate, Wakefield, West Yorkshire, WF4 1AB Office: (01924) 80202 Stuart@acedrillingservicesltd.com									
Contract No.		25209		Site: Ten Yards Lane Quarry												Borehole No:		BH01					
Rig		Beretta GT54-7														Borehole Dia:		5"					
Driller		Pete Smallwood														Type of Bit / Barrel:		PCD					
Date		20.8.25														Type of Flush:		Air Mist					
Casing used			Strata description		Depth		Drilling / Coring								Penetration Tests								
			Colour	Strata	From	To	Type OH/C/DS/ SPT	Sample No	Depth From	Depth To	Run Length	Core Recovered	Percentage of Recovery	Flush Colour	Flush Returns	75mm	75mm	75mm	75mm	75mm	75mm	Refusal	
Size		PW		Brown	Sandstone	0.00	13.00	OH		0.00	50.50				Brown	100%							
Depth to		3.0		Grey	Mudstone	13.00	20.00																
Water strikes			Brown	Sandstone	20.00	26.00																	
			Grey	Mudstone	26.00	27.00																	
Depth				Brown	Sandstone	27.00	29.00																
Inflow				Grey	Shale	29.00	50.50																
Water level																							
Depth sealed off																							
Hours on site																							
From		7.30																					
To		16.00																					
Water level AM																							
Water level PM																							
Consumables used			Dayworks						Time		Standing				Time		Installation		Depth				
									From	To					From	To			From	To	From	To	
Core Boxes				Move to Position - BH01						11.00	11.30	Pipe required from Ace Drilling Yard				16.00	17.30						
Liner				Setup on Postion - BH01						11.30	12.00												
Gravel																							
Bentonite																							
Postcrete																							
Install Cover																							
Crew																							
Driller		Pete Smallwood																					
2nd man		Ryan Stevens																					
3rd man																							
Remarks		Water level once settled - 30.0m																					

 Ace Drilling Services		Drillers Daily Borehole Log												Office 6, Rear Walled Garden, Nostell Estate, Wakefield, West Yorkshire, WF4 1AB Office: (01924) 80202 Stuart@acedrillingservicesltd.com									
Contract No.		25209		Site: Ten Yards Lane Quarry												Borehole No:		BH01					
Rig		Beretta GT54-7														Borehole Dia:		5"					
Driller		Pete Smallwood														Type of Bit / Barrel:		PCD					
Date		21.8.25														Type of Flush:		Air Mist					
Casing used			Strata description		Depth		Drilling / Coring								Penetration Tests								
			Colour	Strata	From	To	Type OH/C/DS/ SPT	Sample No	Depth From	Depth To	Run Length	Core Recovered	Percentage of Recovery	Flush Colour	Flush Returns	75mm	75mm	75mm	75mm	75mm	75mm	Refusal	
Size		PW																					
Depth to		3.0																					
Water strikes																							
Depth																							
Inflow																							
Water level																							
Depth sealed off																							
Hours on site																							
From		7.30																					
To		11.00																					
Water level AM																							
Water level PM																							
Consumables used		Dayworks						Time		Standing				Time		Installation		Depth					
								From	To					From	To			From	To	From	To		
Core Boxes																	Size	Type	From	To			
Liner																	50mm	Slotted	45.00	3.00			
Gravel		27															50mm	Plain	3.00	0.00			
Bentonite		1																Gravel	45.00	3.00			
Postcrete		1																Bentonite	3.00	0.50			
Install Cover		1																Concrete	0.50	0.00			
Crew																	Barrel Cover						
Driller		Pete Smallwood																					
2nd man		Ryan Stevens																					
3rd man																							
Remarks		Pipe installed at 45.0m due to hole collapsing overnight.																					



LEGEND

PLANNING BOUNDARY

BOTTOM OF BANK

TOP OF BANK

FIELD BOUNDARY

TRACK

AREA CURRENTLY RESTORED TO GRASSLAND

EXISTING WOODED/PLANTED AREA

TOPSOIL STORAGE

PIEZOMETER BOREHOLE

EXPLORATION BOREHOLE

STOCKPROOF FENCE LINE

ACCESS GATE

Rev	Description	Date	Drawn	Chkd
-----	-------------	------	-------	------

Client:
BIRKSROYD STONE LTD

Project:
TEN YARDS LANE QUARRY

Plan Title:
BASE OF EXCAVATION PLAN

Silkstone
Environmental Ltd

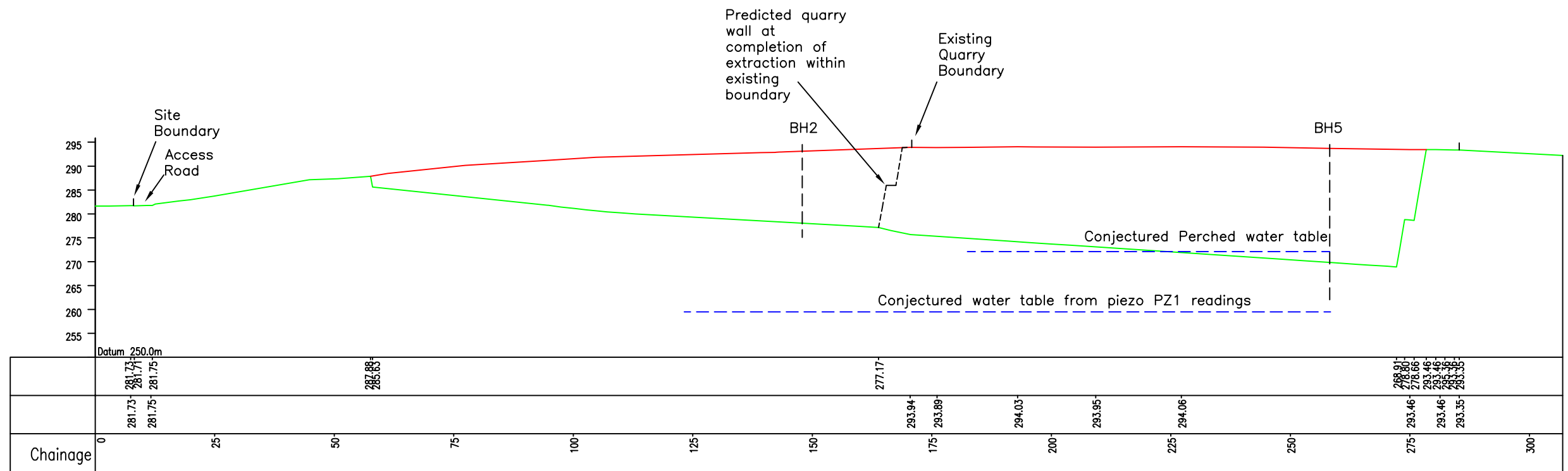
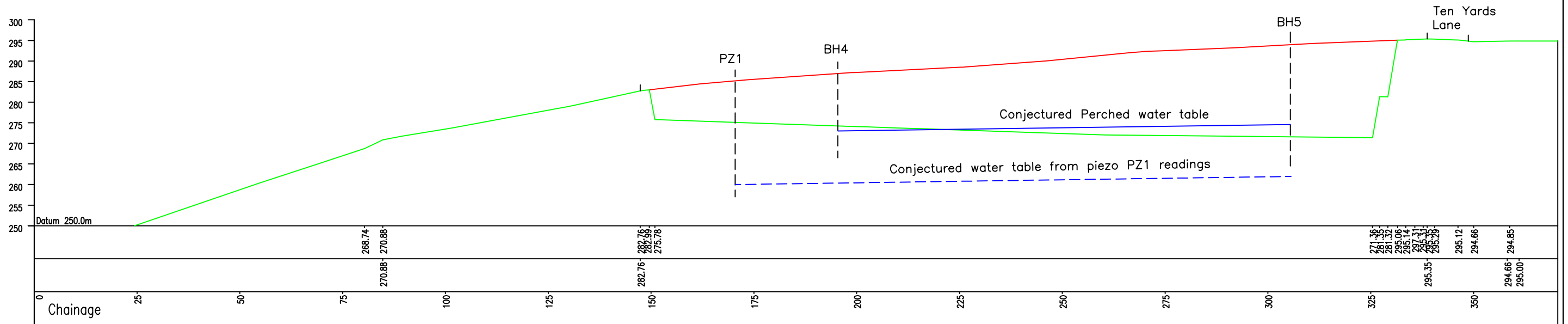
www.silkstoneenvironmental.co.uk

7, Hall Annex, Thorncliffe Park, Chapeltown, Sheffield, S35 2PH
Tel (0114) 2573487 Fax (0114) 2573459

Project No.20126	Dwg No. 20126/453	Rev
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Date: OCT 2020 Scale: 1:1500 @ A3

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Silkstone
Environmental Ltd

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LEGEND

- Total excavation profile
- Restoration profile

Rev	Description	Date	Drawn	Chkd	Client: BIRKSROYD STONE LTD		
					Project: TEN YARDS LANE QUARRY		
					Plan Title: CROSS SECTIONS		
					Project No. 20126	Dwg No. 20126/454	Rev
					Date: OCT 2020	Scale: 1:1000@A3	

Appendix C

Groundwater quality data

Certificate of Analysis

Client: Silkstone Environmental Ltd

Project: 25083959

Quote: BEC250842160 V1.1

Project Ref: Silkstone Environmental Ltd

Site: Ten Yards Lane

Contact: Richard Drown

Address: 7 Hall Annex
Thornccliffe Park
Chapelton
Sheffield
S35 2PH

E-Mail: rdrown@silkstoneenvironmental.co.uk

Phone: 0114 257 3433

No. Samples Received: 3

Date Received: 29/08/2025

Analysis Completed: 08/09/2025

Date Issued: 08/09/2025

Report Type: Version 01

This report supersedes any versions previously issued by the laboratory



Reported by Customer Service Co-Ordinator
Julie Dickinson
01283 204 384
Julie.Dickinson@socotec.co.uk



Project Number: 25083959

Client: Silkstone Environmental Ltd
Date Issued: 08/09/2025
Project Name: Silkstone Environmental Ltd - Ten Yards Lane

Samples Analysed

<u>Text ID</u>	<u>Sample Reference</u>	<u>Sampling Date</u>	<u>Sample Type</u>	<u>Sample Description</u>
25083959-001	BH1	28/08/2025 12:25:00	WATER	Ground Water
25083959-002	BH2	28/08/2025 11:32:00	WATER	Ground Water
25083959-003	BH3	28/08/2025 11:50:00	WATER	Ground Water

Analysis Results

		SOCOTEC Sample ID:		25083959-001	25083959-002	25083959-003
		Sampling Date:		28/08/2025 12:25	28/08/2025 11:32	28/08/2025 11:50
		Customer ID:		BH1	BH2	BH3
Method Code	Analysis	MDL	Accred.			
PHCONDW	pH	1 pH units	U	7.1	7.6	7.5
PHCONDW	Conductivity at 20°C	90 µS/cm	U	488	384	220
WSLM12	Total Alkalinity	2 mg/l	U	238	149	63.0
WSLM27	TDS as mg/L	5 mg/l	N	430	176	<5
TOCW	Dissolved Organic Carbon	0.4 mg/l	U	0.66	0.76	0.96
KONENS	Nitrite as N	0.01 mg/l	U	<0.01	<0.01	<0.01
KONENS	Ammoniacal Nitrogen as N	0.01 mg/l	U	0.04	<0.01	0.01
KONENS	Chloride as Cl	1 mg/l	U	21	22	13
ISEF	Fluoride as F	0.1 mg/l	U	0.4	0.2	0.1
ICPMSW (Dissolved)	Arsenic as As	0.001 mg/l	U	<0.001	<0.001	<0.001
ICPWATVAR (Dissolved)	Boron as B	0.01 mg/l	U	0.03	0.02	0.01
ICPMSW (Dissolved)	Cadmium as Cd	0.0002 mg/l	U	0.00024	0.00006	0.00012
ICPWATVAR (Dissolved)	Calcium as Ca	1 mg/l	U	68	61	29
ICPMSW (Dissolved)	Total Chromium as Cr	0.001 mg/l	U	<0.001	<0.001	<0.001
ICPMSW (Dissolved)	Copper as Cu	0.001 mg/l	U	<0.001	<0.001	<0.001
ICPWATVAR (Dissolved)	Iron as Fe	0.01 mg/l	U	<0.01	<0.01	<0.01
ICPMSW (Dissolved)	Lead as Pb	0.0002 mg/l	U	<0.0002	<0.0002	<0.0002
ICPWATVAR (Dissolved)	Magnesium as Mg	1 mg/l	U	26	18	10
ICPMSW (Dissolved)	Manganese as Mn	0.002 mg/l	U	2.52	0.037	0.731
ICPMSW (Dissolved)	Mercury as Hg	0.00003 mg/l	U	<0.00003	<0.00003	<0.00003
ICPMSW (Dissolved)	Nickel as Ni	0.001 mg/l	U	0.002	<0.001	<0.001
ICPWATVAR (Dissolved)	Potassium as K	1 mg/l	U	2	1	<1
ICPMSW (Dissolved)	Selenium as Se	0.001 mg/l	U	<0.001	<0.001	<0.001
ICPWATVAR (Dissolved)	Sodium as Na	1 mg/l	U	13	12	8
ICPWATVAR (Dissolved)	Total Sulphur as SO4	3 mg/l	U	32	49	31
ICPMSW (Dissolved)	Zinc as Zn	0.002 mg/l	U	0.008	0.003	0.006
PAHMSW	Acenaphthene	0.01 µg/l	U	<0.40	<0.40	<0.40
	Acenaphthylene	0.01 µg/l	U	<0.40	<0.40	<0.40
	Anthracene	0.01 µg/l	U	<0.40	<0.40	<0.40
	Benzo[a]anthracene	0.01 µg/l	U	<0.40	<0.40	<0.40
	Benzo[a]pyrene	0.01 µg/l	U	<0.40	<0.40	<0.40
	Benzo[b]fluoranthene	0.01 µg/l	U	<0.40	<0.40	<0.40
	Benzo[g,h,i]perylene	0.01 µg/l	U	<0.40	<0.40	<0.40
	Benzo[k]fluoranthene	0.01 µg/l	U	<0.40	<0.40	<0.40
	Chrysene	0.01 µg/l	U	<0.40	<0.40	<0.40
	Dibenzo[a,h]anthracene	0.01 µg/l	U	<0.40	<0.40	<0.40
	Fluoranthene	0.01 µg/l	U	<0.40	0.45	<0.40
	Fluorene	0.01 µg/l	U	<0.40	<0.40	0.45
	Indeno[1,2,3-cd]pyrene	0.01 µg/l	U	<0.40	<0.40	<0.40
	Naphthalene	0.01 µg/l	U	<0.40	0.45	2.29
	Phenanthrene	0.01 µg/l	U	1.07	3.12	1.85
	Pyrene	0.01 µg/l	U	<0.40	0.61	0.49
SVOCSW	Total PAH 16	0.16 µg/l	U	7.07	9.42	9.88
	1,2,4-Trichlorobenzene	0.005 mg/l	N	<0.200	<0.200	<0.200
	1,2-Dichlorobenzene	0.005 mg/l	N	<0.200	<0.200	<0.200
	1,3-Dichlorobenzene	0.005 mg/l	N	<0.200	<0.200	<0.200
	1,4-Dichlorobenzene	0.005 mg/l	N	<0.200	<0.200	<0.200
	1-Methylnaphthalene	0.002 mg/l	N	<0.080	<0.080	<0.080
	2,4,5-Trichlorophenol	0.02 mg/l	N	<0.800	<0.800	<0.800
	2,4,6-Trichlorophenol	0.02 mg/l	N	<0.800	<0.800	<0.800
	2,4-Dichlorophenol	0.02 mg/l	N	<0.800	<0.800	<0.800
	2,4-Dimethylphenol	0.02 mg/l	N	<0.800	<0.800	<0.800
	2,4-Dinitrophenol	0.01 mg/l	N	<0.400	<0.400	<0.400
	2,4-Dinitrotoluene	0.005 mg/l	N	<0.200	<0.200	<0.200
	2,6-Dinitrotoluene	0.005 mg/l	N	<0.200	<0.200	<0.200
	2-Chloronaphthalene	0.002 mg/l	N	<0.080	<0.080	<0.080
	2-Chlorophenol	0.02 mg/l	N	<0.800	<0.800	<0.800
	2-Methylnaphthalene	0.002 mg/l	N	<0.080	<0.080	<0.080
	2-Methylphenol	0.005 mg/l	N	<0.200	<0.200	<0.200
	2-Nitroaniline	0.005 mg/l	N	<0.200	<0.200	<0.200
	2-Nitrophenol	0.02 mg/l	N	<0.800	<0.800	<0.800
	3- & 4-Methylphenol	0.02 mg/l	N	<0.800	<0.800	<0.800
	3-Nitroaniline	0.005 mg/l	N	<0.200	<0.200	<0.200
	4,6-Dinitro-2-methylphenol	0.05 mg/l	N	<2.00	<2.00	<2.00
	4-Bromophenyl-phenylether	0.005 mg/l	N	<0.200	<0.200	<0.200
	4-Chloro-3-methylphenol	0.005 mg/l	N	<0.200	<0.200	<0.200
	4-Chloroaniline	0.005 mg/l	N	<0.200	<0.200	<0.200
	4-Chlorophenol	0.02 mg/l	N	<0.800	<0.800	<0.800
	4-Chlorophenyl-phenylether	0.005 mg/l	N	<0.200	<0.200	<0.200
	4-Nitroaniline	0.005 mg/l	N	<0.200	<0.200	<0.200
	4-Nitrophenol	0.05 mg/l	N	<2.00	<2.00	<2.00
	Acenaphthene	0.002 mg/l	N	<0.080	<0.080	<0.080
	Acenaphthylene	0.002 mg/l	N	<0.080	<0.080	<0.080
	Anthracene	0.002 mg/l	N	<0.080	<0.080	<0.080
	Azobenzene	0.01 mg/l	N	<0.400	<0.400	<0.400
	Benzo[a]anthracene	0.002 mg/l	N	<0.080	<0.080	<0.080
	Benzo[a]pyrene	0.002 mg/l	N	<0.080	<0.080	<0.080
	Benzo[b]fluoranthene	0.002 mg/l	N	<0.080	<0.080	<0.080
	Benzo[g,h,i]perylene	0.002 mg/l	N	<0.080	<0.080	<0.080

Analysis Results

Analysis Results				SOCOTEC Sample ID:		25083959-001	25083959-002	25083959-003
				Sampling Date:		28/08/2025 12:25	28/08/2025 11:32	28/08/2025 11:50
				Customer ID:				
Method Code	Analysis	MDL	Accred.	BH1	BH2	BH3		
SVOCSW	Benzo[k]fluoranthene	0.002 mg/l	N	<0.080 ◌	<0.080 ◌	<0.080 ◌		
	Benzoic Acid	0.1 mg/l	N	<4.00 ◌	<4.00 ◌	<4.00 ◌		
	Benzyl alcohol	0.005 mg/l	N	<0.200 ◌	<0.200 ◌	<0.200 ◌		
	Biphenyl	0.002 mg/l	N	<0.080 ◌	<0.080 ◌	<0.080 ◌		
	bis(2-Chloroethoxy)methane	0.005 mg/l	N	<0.200 ◌	<0.200 ◌	<0.200 ◌		
	bis(2-Chloroethyl)ether	0.005 mg/l	N	<0.200 ◌	<0.200 ◌	<0.200 ◌		
	bis(2-Chloroisopropyl)ether	0.005 mg/l	N	<0.200 ◌	<0.200 ◌	<0.200 ◌		
	bis(2-Ethylhexyl)phthalate	0.005 mg/l	N	<0.200 ◌	<0.200 ◌	<0.200 ◌		
	Butylbenzylphthalate	0.005 mg/l	N	<0.200 ◌	<0.200 ◌	<0.200 ◌		
	Carbazole	0.01 mg/l	N	<0.400 ◌	<0.400 ◌	<0.400 ◌		
	Chrysene	0.002 mg/l	N	<0.080 ◌	<0.080 ◌	<0.080 ◌		
	Coronene	0.05 mg/l	N	<2.00 ◌	<2.00 ◌	<2.00 ◌		
	Dibenzo[a,h]anthracene	0.002 mg/l	N	<0.080 ◌	<0.080 ◌	<0.080 ◌		
	Dibenzofuran	0.005 mg/l	N	<0.200 ◌	<0.200 ◌	<0.200 ◌		
	Diethylphthalate	0.005 mg/l	N	<0.200 ◌	<0.200 ◌	<0.200 ◌		
	Dimethylphthalate	0.005 mg/l	N	<0.200 ◌	<0.200 ◌	<0.200 ◌		
	Di-n-butylphthalate	0.005 mg/l	N	<0.200 ◌	<0.200 ◌	<0.200 ◌		
	Di-n-octylphthalate	0.002 mg/l	N	<0.080 ◌	<0.080 ◌	<0.080 ◌		
	Diphenyl ether	0.002 mg/l	N	<0.080 ◌	<0.080 ◌	<0.080 ◌		
	Fluoranthene	0.002 mg/l	N	<0.080 ◌	<0.080 ◌	<0.080 ◌		
	Fluorene	0.002 mg/l	N	<0.080 ◌	<0.080 ◌	<0.080 ◌		
	Hexachlorobenzene	0.005 mg/l	N	<0.200 ◌	<0.200 ◌	<0.200 ◌		
	Hexachlorobutadiene	0.005 mg/l	N	<0.200 ◌	<0.200 ◌	<0.200 ◌		
	Hexachlorocyclopentadiene	0.005 mg/l	N	<0.200 ◌	<0.200 ◌	<0.200 ◌		
	Hexachloroethane	0.005 mg/l	N	<0.200 ◌	<0.200 ◌	<0.200 ◌		
	Indeno[1,2,3-cd]pyrene	0.002 mg/l	N	<0.080 ◌	<0.080 ◌	<0.080 ◌		
	Isophorone	0.005 mg/l	N	<0.200 ◌	<0.200 ◌	<0.200 ◌		
	Naphthalene	0.002 mg/l	N	<0.080 ◌	<0.080 ◌	<0.080 ◌		
	Nitrobenzene	0.005 mg/l	N	<0.200 ◌	<0.200 ◌	<0.200 ◌		
	N-Nitroso-di-n-propylamine	0.005 mg/l	N	<0.200 ◌	<0.200 ◌	<0.200 ◌		
	N-Nitrosodiphenylamine	0.005 mg/l	N	<0.200 ◌	<0.200 ◌	<0.200 ◌		
	Pentachlorophenol	0.05 mg/l	N	<2.00 ◌	<2.00 ◌	<2.00 ◌		
	Phenanthrene	0.002 mg/l	N	<0.080 ◌	<0.080 ◌	<0.080 ◌		
	Phenol	0.02 mg/l	N	<0.800 ◌	<0.800 ◌	<0.800 ◌		
	Pyrene	0.002 mg/l	N	<0.080 ◌	<0.080 ◌	<0.080 ◌		
VOCHSAW	1,1,1,2-Tetrachloroethane	1 µg/l	U	<1	<1	<1		
	1,1,1-Trichloroethane	1 µg/l	U	<1	<1	<1		
	1,1,2,2-Tetrachloroethane	1 µg/l	N	<1	<1	<1		
	1,1,2-Trichloroethane	1 µg/l	U	<1	<1	<1		
	1,1-Dichloroethane	1 µg/l	U	<1	<1	<1		
	1,1-Dichloroethene	1 µg/l	U	<1	<1	<1		
	1,1-Dichloropropene	1 µg/l	U	<1	<1	<1		
	1,2,3-Trichlorobenzene	5 µg/l	U	<5	<5	<5		
	1,2,3-Trichloropropane	1 µg/l	U	<1	<1	<1		
	1,2,4-Trichlorobenzene	5 µg/l	U	<5	<5	<5		
	1,2,4-Trimethylbenzene	1 µg/l	U	<1	<1	<1		
	1,2-Dibromo-3-chloropropane	5 µg/l	U	<5	<5	<5		
	1,2-Dibromoethane	1 µg/l	U	<1	<1	<1		
	1,2-Dichlorobenzene	5 µg/l	U	<5	<5	<5		
	1,2-Dichloroethane	1 µg/l	U	<1	<1	<1		
	1,2-Dichloropropane	1 µg/l	U	<1	<1	<1		
	1,3,5-Trimethylbenzene	0.6 µg/l	U	<0.6	<0.6	<0.6		
	1,3-Dichlorobenzene	1 µg/l	U	<1	<1	<1		
	1,3-Dichloropropane	1 µg/l	N	<1	<1	<1		
	1,4-Dichlorobenzene	1 µg/l	U	<1	<1	<1		
	2,2-Dichloropropane	1 µg/l	N	<1	<1	<1		
	2-Chlorotoluene	1 µg/l	U	<1	<1	<1		
	4-Chlorotoluene	1 µg/l	U	<1	<1	<1		
	Benzene	1 µg/l	U	<1	<1	<1		
	Bromobenzene	1 µg/l	U	<1	<1	<1		
	Bromochloromethane	1 µg/l	U	<1	<1	<1		
	Bromodichloromethane	1 µg/l	U	<1	<1	<1		
	Bromoform	1 µg/l	U	<1	<1	<1		
	Bromomethane	5 µg/l	N	<5	<5	<5		
	Carbon Tetrachloride	1 µg/l	U	<1	<1	<1		
	Chlorobenzene	1 µg/l	U	<1	<1	<1		
	Chloroethane	5 µg/l	U	<5	<5	<5		
	Chloroform	5 µg/l	U	<5	<5	<5		
	Chloromethane	1 µg/l	U	<1	<1	<1		
	cis 1,2-Dichloroethene	1 µg/l	U	<1	<1	<1		
cis 1,3-Dichloropropene	1 µg/l	N	<1	<1	<1			
Dibromochloromethane	1 µg/l	U	<1	<1	<1			
Dibromomethane	1 µg/l	U	<1	<1	<1			
Dichlorodifluoromethane	1 µg/l	N	<1	<1	<1			
Ethylbenzene	0.5 µg/l	U	<0.5	<0.5	<0.5			
Hexachlorobutadiene	5 µg/l	U	<5	<5	<5			
iso-Propylbenzene	1 µg/l	U	<1	<1	<1			
m and p-Xylene	1 µg/l	U	<1	<1	<1			
MTBE	1 µg/l	N	<1	<1	<1			

Analysis Results

		SOCOTEC Sample ID:		25083959-001	25083959-002	25083959-003
		Sampling Date:		28/08/2025 12:25	28/08/2025 11:32	28/08/2025 11:50
		Customer ID:		BH1	BH2	BH3
Method Code	Analysis	MDL	Accred.			
VOCHSAW	Naphthalene	5 µg/l	U	<5	<5	<5
	n-Butylbenzene	1 µg/l	U	<1	<1	<1
	o-Xylene	1 µg/l	U	<1	<1	<1
	p-Isopropyltoluene	1 µg/l	U	<1	<1	<1
	Propylbenzene	1 µg/l	U	<1	<1	<1
	sec-Butylbenzene	1 µg/l	U	<1	<1	<1
	Styrene	1 µg/l	U	<1	<1	<1
	tert-Butylbenzene	1 µg/l	U	<1	<1	<1
	Tetrachloroethene	5 µg/l	U	<5	<5	<5
	Toluene	1 µg/l	U	<1	<1	<1
	trans 1,2-Dichloroethene	1 µg/l	U	<1	<1	<1
	trans 1,3-Dichloropropene	1 µg/l	U	<1	<1	<1
	Trichloroethene	5 µg/l	U	<5	<5	<5
	Trichlorofluoromethane	1 µg/l	U	<1	<1	<1
	Vinyl Chloride	1 µg/l	U	<1	<1	<1

**Project Number: 25083959**

Client: Silkstone Environmental Ltd
Date Issued: 08/09/2025
Project Name: Silkstone Environmental Ltd - Ten Yards Lane

Deviating Sample Report

All samples received in an appropriate condition with no deviancies noted with the samples.

Analysis Method

<u>Method Code</u>	<u>Method Description</u>	<u>Analysis Method</u>
ICPMSW (Dissolved)	Arsenic (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Cadmium (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Chromium (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Copper (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Lead (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Manganese (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Mercury (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Nickel (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Selenium (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Zinc (Diss.) in Water by ICPMS	Filtered
ICPWATVAR (Dissolved)	Boron (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Calcium (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Iron (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Magnesium (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Potassium (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Sodium (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Total Sulphur as SO ₄ (Diss.) in Water	Filtered
ISEF	Fluoride by ISE	Unfiltered
KONENS	Ammoniacal Nitrogen as N	Filtered
KONENS	Chloride by Colorimetry	Filtered
KONENS	Nitrite as N by Colorimetry	Filtered
PAHMSW	16 PAHs by GCMS	Unfiltered
PHCONDW	Electrical Conductivity @ 20°C	Unfiltered
PHCONDW	pH	Unfiltered
SVOCSW	SVOCs (Target List) by GCMS	Unfiltered
TOCW	DOC: Dissolved Organic Carbon	Filtered
VOCHSAW	VOCs (Target List) by GCMS	Unfiltered
WSLM12	Total Alkalinity as CaCO ₃	Unfiltered
WSLM27	TDS: Total Dissolved Solids	Filtered



Project Number: [25083959](#)

Client: Silkstone Environmental Ltd

Date Issued: 08/09/2025

Project Name: Silkstone Environmental Ltd - Ten Yards Lane

[Result Report Notes](#)

Letters alongside results signify that the result has associated report notes.

The report notes are as follows:

[Letter](#)

[Note](#)

- | | |
|---|--|
| A | Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data. |
| B | The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised. |
| C | Due to matrix interference, the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data. |
| D | A non-standard volume or mass has been used for this test which has resulted in a raised detection limit. |
| E | Due to the parameter value being beyond our calibration range (and following the maximum size of dilution allowed, where applicable), the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only. |
| F | Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only. |
| G | The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only. |

[HWOL Acronym Key](#)

[Acronym](#)

[Description](#)

HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e everything extracted by the solvent(s)
CU	Clean up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
+	Operator to indicate cumulative e.g. EH_CU+HS_1D_Total

[SVOCSW - N-Nitrosodiphenylamine](#)

N-Nitrosodiphenylamine decomposes in the GC inlet and cannot be separated from diphenylamine. For this reason we will report a combined result for N-Nitrosodiphenylamine and Diphenylamine.



Project Number: 25083959

Client: Silkstone Environmental Ltd

Date Issued: 08/09/2025

Project Name: Silkstone Environmental Ltd - Ten Yards Lane

Additional Information

This report refers to samples as received. SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

The accreditation codes are as follows:

U = UKAS accredited analysis
M = MCERT accredited analysis
N = Unaccredited analysis

Any accreditation marked with ^ signify results are reported on a dry weight basis of 105 ° c.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35 ° c.

This report shall not be reproduced except in full, without written approval of the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any results marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

IS = Insufficient Sample to complete analysis
NA = Sample is not amenable for the required analysis
ND = Results cannot be determined

Items listed with a 'SUB' method code prefix have been carried out by another SOCOTEC department or by an external subcontracted laboratory. Further information is available upon request.

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the subcontracted lab for information regarding any deviancies for this analysis.

Summaries of analysis methods are available upon request.

End of Certificate of Analysis

Certificate of Analysis

Client: Silkstone Environmental Ltd

Project: 25092768

Quote: BEC250842160 V1.1

Project Ref: Ten Yards Lane

Site: Ten Yards Lane

Contact: Richard Drown

Address: 7 Hall Annex
Thornccliffe Park
Chapelton
Sheffield
S35 2PH

E-Mail: rdrown@silkstoneenvironmental.co.uk

Phone: 0114 257 3433

No. Samples Received: 3

Date Received: 18/09/2025

Analysis Completed: 09/10/2025

Date Issued: 09/10/2025

Report Type: Version 01

This report supersedes any versions previously issued by the laboratory



Reported by Customer Service Co-Ordinator
Julie Dickinson
01283 204 384
Julie.Dickinson@socotec.co.uk



Project Number: 25092768

Client: Silkstone Environmental Ltd
Date Issued: 09/10/2025
Project Name: Ten Yards Lane - Ten Yards Lane

Samples Analysed

<u>Text ID</u>	<u>Sample Reference</u>	<u>Sampling Date</u>	<u>Sample Type</u>	<u>Sample Description</u>
25092768-001	BH1	16/09/2025 13:35:00	WATER	Ground Water
25092768-002	BH2	16/09/2025 12:50:00	WATER	Ground Water
25092768-003	BH3	16/09/2025 13:05:00	WATER	Ground Water

Analysis Results

		SOCOTEC Sample ID:		25092768-001	25092768-002	25092768-003
		Sampling Date:		16/09/2025 13:35	16/09/2025 12:50	16/09/2025 13:05
		Customer ID:		BH1	BH2	BH3
Method Code	Analysis	MDL	Accred.			
PHCONDW	pH	1 pH units	U	7.1	7.4	7.3
PHCONDW	Conductivity at 20°C	90 µS/cm	U	484	375	163
WSLM12	Total Alkalinity	2 mg/l	U	238	136	41.8
WSLM27	TDS as mg/L	5 mg/l	N	411	299	133
TOCW	Dissolved Organic Carbon	0.4 mg/l	U	0.65	0.66	0.98
KONENS	Nitrite as N	0.01 mg/l	U	<0.01	<0.01	<0.01
KONENS	Ammoniacal Nitrogen as N	0.01 mg/l	U	0.04	<0.01	<0.01
KONENS	Chloride as Cl	1 mg/l	U	22	21	10
ISEF	Fluoride as F	0.1 mg/l	U	0.4	0.2	0.1
ICPMSW (Dissolved)	Arsenic as As	0.001 mg/l	U	<0.001	<0.001	<0.001
ICPWATVAR (Dissolved)	Boron as B	0.01 mg/l	U	0.03	0.02	0.02
ICPMSW (Dissolved)	Cadmium as Cd	0.00002 mg/l	U	0.00004	0.00004	0.00007
ICPWATVAR (Dissolved)	Calcium as Ca	1 mg/l	U	75	55	19
ICPMSW (Dissolved)	Total Chromium as Cr	0.001 mg/l	U	<0.001	<0.001	<0.001
ICPMSW (Dissolved)	Copper as Cu	0.001 mg/l	U	<0.001	<0.001	<0.001
ICPWATVAR (Dissolved)	Iron as Fe	0.01 mg/l	U	<0.01	<0.01	<0.01
ICPMSW (Dissolved)	Lead as Pb	0.0002 mg/l	U	<0.0002	<0.0002	<0.0002
ICPWATVAR (Dissolved)	Magnesium as Mg	1 mg/l	U	25	17	6
ICPMSW (Dissolved)	Manganese as Mn	0.002 mg/l	U	2.36	<0.002	0.071
ICPMSW (Dissolved)	Mercury as Hg	0.00003 mg/l	U	<0.00003	<0.00003	<0.00003
ICPMSW (Dissolved)	Nickel as Ni	0.001 mg/l	U	0.002	<0.001	<0.001
ICPWATVAR (Dissolved)	Potassium as K	1 mg/l	U	2	<1	<1
ICPMSW (Dissolved)	Selenium as Se	0.001 mg/l	U	<0.001	<0.001	<0.001
ICPWATVAR (Dissolved)	Sodium as Na	1 mg/l	U	12	12	5
ICPWATVAR (Dissolved)	Total Sulphur as SO4	3 mg/l	U	39	45	21
ICPMSW (Dissolved)	Zinc as Zn	0.002 mg/l	U	0.006	<0.002	0.005
PAHMSW	Acenaphthene	0.01 µg/l	U	<0.40	<0.20	<0.20
	Acenaphthylene	0.01 µg/l	U	<0.40	<0.20	<0.20
	Anthracene	0.01 µg/l	U	<0.40	<0.20	<0.20
	Benzo[a]anthracene	0.01 µg/l	U	<0.40	<0.20	<0.20
	Benzo[a]pyrene	0.01 µg/l	U	<0.40	<0.20	<0.20
	Benzo[b]fluoranthene	0.01 µg/l	U	<0.40	<0.20	<0.20
	Benzo[g,h,i]perylene	0.01 µg/l	U	<0.40	<0.20	<0.20
	Benzo[k]fluoranthene	0.01 µg/l	U	<0.40	<0.20	<0.20
	Chrysene	0.01 µg/l	U	<0.40	<0.20	<0.20
	Dibenzo[a,h]anthracene	0.01 µg/l	U	<0.40	<0.20	<0.20
	Fluoranthene	0.01 µg/l	U	<0.40	<0.20	<0.20
	Fluorene	0.01 µg/l	U	<0.40	<0.20	<0.20
	Indeno[1,2,3-cd]pyrene	0.01 µg/l	U	<0.40	<0.20	<0.20
	Naphthalene	0.01 µg/l	U	<0.40	<0.20	<0.20
	Phenanthrene	0.01 µg/l	U	<0.40	<0.20	<0.20
	Pyrene	0.01 µg/l	U	<0.40	<0.20	<0.20
	Total PAH 16	0.16 µg/l	U	<6.40	<3.20	<3.20
SVOCSW	1,2,4-Trichlorobenzene	0.005 mg/l	N	<1.00	<0.200	<0.200
	1,2-Dichlorobenzene	0.005 mg/l	N	<1.00	<0.200	<0.200
	1,3-Dichlorobenzene	0.005 mg/l	N	<1.00	<0.200	<0.200
	1,4-Dichlorobenzene	0.005 mg/l	N	<1.00	<0.200	<0.200
	1-Methylnaphthalene	0.002 mg/l	N	<0.400	<0.080	<0.080
	2,4,5-Trichlorophenol	0.02 mg/l	N	<4.00	<0.800	<0.800
	2,4,6-Trichlorophenol	0.02 mg/l	N	<4.00	<0.800	<0.800
	2,4-Dichlorophenol	0.02 mg/l	N	<4.00	<0.800	<0.800
	2,4-Dimethylphenol	0.02 mg/l	N	<4.00	<0.800	<0.800
	2,4-Dinitrophenol	0.01 mg/l	N	<2.00	<0.400	<0.400
	2,4-Dinitrotoluene	0.005 mg/l	N	<1.00	<0.200	<0.200
	2,6-Dinitrotoluene	0.005 mg/l	N	<1.00	<0.200	<0.200
	2-Chloronaphthalene	0.002 mg/l	N	<0.400	<0.080	<0.080
	2-Chlorophenol	0.02 mg/l	N	<4.00	<0.800	<0.800
	2-Methylnaphthalene	0.002 mg/l	N	<0.400	<0.080	<0.080
	2-Methylphenol	0.005 mg/l	N	<1.00	<0.200	<0.200
	2-Nitroaniline	0.005 mg/l	N	<1.00	<0.200	<0.200
	2-Nitrophenol	0.02 mg/l	N	<4.00	<0.800	<0.800
	3- & 4-Methylphenol	0.02 mg/l	N	<4.00	<0.800	<0.800
	3-Nitroaniline	0.005 mg/l	N	<1.00	<0.200	<0.200
	4,6-Dinitro-2-methylphenol	0.05 mg/l	N	<10.0	<2.00	<2.00
	4-Bromophenyl-phenylether	0.005 mg/l	N	<1.00	<0.200	<0.200
	4-Chloro-3-methylphenol	0.005 mg/l	N	<1.00	<0.200	<0.200
	4-Chloroaniline	0.005 mg/l	N	<1.00	<0.200	<0.200
	4-Chlorophenol	0.02 mg/l	N	<4.00	<0.800	<0.800
	4-Chlorophenyl-phenylether	0.005 mg/l	N	<1.00	<0.200	<0.200
	4-Nitroaniline	0.005 mg/l	N	<1.00	<0.200	<0.200
	4-Nitrophenol	0.05 mg/l	N	<10.0	<2.00	<2.00
	Acenaphthene	0.002 mg/l	N	<0.400	<0.080	<0.080
	Acenaphthylene	0.002 mg/l	N	<0.400	<0.080	<0.080
	Anthracene	0.002 mg/l	N	<0.400	<0.080	<0.080
	Azobenzene	0.01 mg/l	N	<2.00	<0.400	<0.400
	Benzo[a]anthracene	0.002 mg/l	N	<0.400	<0.080	<0.080
	Benzo[a]pyrene	0.002 mg/l	N	<0.400	<0.080	<0.080
	Benzo[b]fluoranthene	0.002 mg/l	N	<0.400	<0.080	<0.080
	Benzo[g,h,i]perylene	0.002 mg/l	N	<0.400	<0.080	<0.080

Analysis Results

SOCOTEC Sample ID:	25092768-001	25092768-002	25092768-003
Sampling Date:	16/09/2025 13:35	16/09/2025 12:50	16/09/2025 13:05
Customer ID:	BH1	BH2	BH3
Accred.			

Method Code	Analysis	MDL	Accred.	BH1	BH2	BH3
SVOCSW	Benzo[k]fluoranthene	0.002 mg/l	N	<0.400 ◻	<0.080 ◻	<0.080 ◻
	Benzoic Acid	0.1 mg/l	N	<20.0 ◻	<4.00 ◻	<4.00 ◻
	Benzyl alcohol	0.005 mg/l	N	<1.00 ◻	<0.200 ◻	<0.200 ◻
	Biphenyl	0.002 mg/l	N	<0.400 ◻	<0.080 ◻	<0.080 ◻
	bis(2-Chloroethoxy)methane	0.005 mg/l	N	<1.00 ◻	<0.200 ◻	<0.200 ◻
	bis(2-Chloroethyl)ether	0.005 mg/l	N	<1.00 ◻	<0.200 ◻	<0.200 ◻
	bis(2-Chloroisopropyl)ether	0.005 mg/l	N	<1.00 ◻	<0.200 ◻	<0.200 ◻
	bis(2-Ethylhexyl)phthalate	0.005 mg/l	N	<1.00 ◻	<0.200 ◻	<0.200 ◻
	Butylbenzylphthalate	0.005 mg/l	N	<1.00 ◻	<0.200 ◻	<0.200 ◻
	Carbazole	0.01 mg/l	N	<2.00 ◻	<0.400 ◻	<0.400 ◻
	Chrysene	0.002 mg/l	N	<0.400 ◻	<0.080 ◻	<0.080 ◻
	Coronene	0.05 mg/l	N	<10.0 ◻	<2.00 ◻	<2.00 ◻
	Dibenzo[a,h]anthracene	0.002 mg/l	N	<0.400 ◻	<0.080 ◻	<0.080 ◻
	Dibenzofuran	0.005 mg/l	N	<1.00 ◻	<0.200 ◻	<0.200 ◻
	Diethylphthalate	0.005 mg/l	N	<1.00 ◻	<0.200 ◻	<0.200 ◻
	Dimethylphthalate	0.005 mg/l	N	<1.00 ◻	<0.200 ◻	<0.200 ◻
	Di-n-butylphthalate	0.005 mg/l	N	<1.00 ◻	<0.200 ◻	<0.200 ◻
	Di-n-octylphthalate	0.002 mg/l	N	<0.400 ◻	<0.080 ◻	<0.080 ◻
	Diphenyl ether	0.002 mg/l	N	<0.400 ◻	<0.080 ◻	<0.080 ◻
	Fluoranthene	0.002 mg/l	N	<0.400 ◻	<0.080 ◻	<0.080 ◻
	Fluorene	0.002 mg/l	N	<0.400 ◻	<0.080 ◻	<0.080 ◻
	Hexachlorobenzene	0.005 mg/l	N	<1.00 ◻	<0.200 ◻	<0.200 ◻
	Hexachlorobutadiene	0.005 mg/l	N	<1.00 ◻	<0.200 ◻	<0.200 ◻
	Hexachlorocyclopentadiene	0.005 mg/l	N	<1.00 ◻	<0.200 ◻	<0.200 ◻
	Hexachloroethane	0.005 mg/l	N	<1.00 ◻	<0.200 ◻	<0.200 ◻
	Indeno[1,2,3-cd]pyrene	0.002 mg/l	N	<0.400 ◻	<0.080 ◻	<0.080 ◻
	Isophorone	0.005 mg/l	N	<1.00 ◻	<0.200 ◻	<0.200 ◻
	Naphthalene	0.002 mg/l	N	<0.400 ◻	<0.080 ◻	<0.080 ◻
	Nitrobenzene	0.005 mg/l	N	<1.00 ◻	<0.200 ◻	<0.200 ◻
	N-Nitroso-di-n-propylamine	0.005 mg/l	N	<1.00 ◻	<0.200 ◻	<0.200 ◻
	N-Nitrosodiphenylamine	0.005 mg/l	N	<1.00 ◻	<0.200 ◻	<0.200 ◻
	Pentachlorophenol	0.05 mg/l	N	<10.0 ◻	<2.00 ◻	<2.00 ◻
	Phenanthrene	0.002 mg/l	N	<0.400 ◻	<0.080 ◻	<0.080 ◻
	Phenol	0.02 mg/l	N	<4.00 ◻	<0.800 ◻	<0.800 ◻
	Pyrene	0.002 mg/l	N	<0.400 ◻	<0.080 ◻	<0.080 ◻
VOCHSAW	1,1,1,2-Tetrachloroethane	1 µg/l	U	<1	<1	<1
	1,1,1-Trichloroethane	1 µg/l	U	<1	<1	<1
	1,1,2,2-Tetrachloroethane	1 µg/l	N	<1	<1	<1
	1,1,2-Trichloroethane	1 µg/l	U	<1	<1	<1
	1,1-Dichloroethane	1 µg/l	U	<1	<1	<1
	1,1-Dichloroethene	1 µg/l	U	<1	<1	<1
	1,1-Dichloropropene	1 µg/l	U	<1	<1	<1
	1,2,3-Trichlorobenzene	5 µg/l	U	<5	<5	<5
	1,2,3-Trichloropropane	1 µg/l	U	<1	<1	<1
	1,2,4-Trichlorobenzene	5 µg/l	U	<5	<5	<5
	1,2,4-Trimethylbenzene	1 µg/l	U	<1	<1	<1
	1,2-Dibromo-3-chloropropane	5 µg/l	U	<5	<5	<5
	1,2-Dibromoethane	1 µg/l	U	<1	<1	<1
	1,2-Dichlorobenzene	5 µg/l	U	<5	<5	<5
	1,2-Dichloroethane	1 µg/l	U	<1	<1	<1
	1,2-Dichloropropane	1 µg/l	U	<1	<1	<1
	1,3,5-Trimethylbenzene	0.6 µg/l	U	<0.6	<0.6	<0.6
	1,3-Dichlorobenzene	1 µg/l	U	<1	<1	<1
	1,3-Dichloropropane	1 µg/l	N	<1	<1	<1
	1,4-Dichlorobenzene	1 µg/l	U	<1	<1	<1
	2,2-Dichloropropane	1 µg/l	N	<1	<1	<1
	2-Chlorotoluene	1 µg/l	U	<1	<1	<1
	4-Chlorotoluene	1 µg/l	U	<1	<1	<1
	Benzene	1 µg/l	U	<1	<1	<1
	Bromobenzene	1 µg/l	U	<1	<1	<1
	Bromochloromethane	1 µg/l	U	<1	<1	<1
	Bromodichloromethane	1 µg/l	U	<1	<1	<1
	Bromoform	1 µg/l	U	<1	<1	<1
	Bromomethane	5 µg/l	N	<5	<5	<5
	Carbon Tetrachloride	1 µg/l	U	<1	<1	<1
	Chlorobenzene	1 µg/l	U	<1	<1	<1
	Chloroethane	5 µg/l	U	<5	<5	<5
	Chloroform	5 µg/l	U	<5	<5	<5
	Chloromethane	1 µg/l	U	<1	<1	<1
	cis 1,2-Dichloroethene	1 µg/l	U	<1	<1	<1
	cis 1,3-Dichloropropene	1 µg/l	N	<1	<1	<1
	Dibromochloromethane	1 µg/l	U	<1	<1	<1
	Dibromomethane	1 µg/l	U	<1	<1	<1
	Dichlorodifluoromethane	1 µg/l	N	<1	<1	<1
	Ethylbenzene	0.5 µg/l	U	<0.5	<0.5	<0.5
	Hexachlorobutadiene	5 µg/l	U	<5	<5	<5
	iso-Propylbenzene	1 µg/l	U	<1	<1	<1
	m and p-Xylene	1 µg/l	U	<1	<1	<1
	MTBE	1 µg/l	N	<1	<1	<1

Analysis Results

		SOCOTEC Sample ID:		25092768-001	25092768-002	25092768-003
		Sampling Date:		16/09/2025 13:35	16/09/2025 12:50	16/09/2025 13:05
		Customer ID:		BH1	BH2	BH3
Method Code	Analysis	MDL	Accred.			
VOCHSAW	Naphthalene	5 µg/l	U	<5	<5	<5
	n-Butylbenzene	1 µg/l	U	<1	<1	<1
	o-Xylene	1 µg/l	U	<1	<1	<1
	p-Isopropyltoluene	1 µg/l	U	<1	<1	<1
	Propylbenzene	1 µg/l	U	<1	<1	<1
	sec-Butylbenzene	1 µg/l	U	<1	<1	<1
	Styrene	1 µg/l	U	<1	<1	<1
	tert-Butylbenzene	1 µg/l	U	<1	<1	<1
	Tetrachloroethene	5 µg/l	U	<5	<5	<5
	Toluene	1 µg/l	U	<1	<1	<1
	trans 1,2-Dichloroethene	1 µg/l	U	<1	<1	<1
	trans 1,3-Dichloropropene	1 µg/l	U	<1	<1	<1
	Trichloroethene	5 µg/l	U	<5	<5	<5
	Trichlorofluoromethane	1 µg/l	U	<1	<1	<1
	Vinyl Chloride	1 µg/l	U	<1	<1	<1

Deviating Sample Report

All samples received in an appropriate condition with no deviancies noted with the samples.

Analysis Method

<u>Method Code</u>	<u>Method Description</u>	<u>Analysis Method</u>
ICPMSW (Dissolved)	Arsenic (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Cadmium (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Chromium (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Copper (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Lead (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Manganese (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Mercury (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Nickel (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Selenium (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Zinc (Diss.) in Water by ICPMS	Filtered
ICPWATVAR (Dissolved)	Boron (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Calcium (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Iron (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Magnesium (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Potassium (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Sodium (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Total Sulphur as SO ₄ (Diss.) in Water	Filtered
ISEF	Fluoride by ISE	Unfiltered
KONENS	Ammoniacal Nitrogen as N	Filtered
KONENS	Chloride by Colorimetry	Filtered
KONENS	Nitrite as N by Colorimetry	Filtered
PAHMSW	16 PAHs by GCMS	Unfiltered
PHCONDW	Electrical Conductivity @ 20°C	Unfiltered
PHCONDW	pH	Unfiltered
SVOCSW	SVOCs (Target List) by GCMS	Unfiltered
TOCW	DOC: Dissolved Organic Carbon	Filtered
VOCHSAW	VOCs (Target List) by GCMS	Unfiltered
WSLM12	Total Alkalinity as CaCO ₃	Unfiltered
WSLM27	TDS: Total Dissolved Solids	Filtered



Project Number: 25092768

Client: Silkstone Environmental Ltd

Date Issued: 09/10/2025

Project Name: Ten Yards Lane - Ten Yards Lane

Result Report Notes

Letters alongside results signify that the result has associated report notes.

The report notes are as follows:

Letter

Note

- | | |
|---|--|
| A | Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data. |
| B | The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised. |
| C | Due to matrix interference, the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data. |
| D | A non-standard volume or mass has been used for this test which has resulted in a raised detection limit. |
| E | Due to the parameter value being beyond our calibration range (and following the maximum size of dilution allowed, where applicable), the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only. |
| F | Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only. |
| G | The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only. |

HWOL Acronym Key

Acronym

Description

HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e everything extracted by the solvent(s)
CU	Clean up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
+	Operator to indicate cumulative e.g. EH_CU+HS_1D_Total

SVOCSW - N-Nitrosodiphenylamine

N-Nitrosodiphenylamine decomposes in the GC inlet and cannot be separated from diphenylamine. For this reason we will report a combined result for N-Nitrosodiphenylamine and Diphenylamine.



Project Number: [25092768](#)

Client: Silkstone Environmental Ltd

Date Issued: 09/10/2025

Project Name: Ten Yards Lane - Ten Yards Lane

Additional Information

This report refers to samples as received. SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

The accreditation codes are as follows:

U = UKAS accredited analysis
M = MCERT accredited analysis
N = Unaccredited analysis

Any accreditation marked with ^ signify results are reported on a dry weight basis of 105 ° c.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35 ° c.

This report shall not be reproduced except in full, without written approval of the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any results marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

IS = Insufficient Sample to complete analysis
NA = Sample is not amenable for the required analysis
ND = Results cannot be determined

Items listed with a 'SUB' method code prefix have been carried out by another SOCOTEC department or by an external subcontracted laboratory. Further information is available upon request.

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the subcontracted lab for information regarding any deviancies for this analysis.

Summaries of analysis methods are available upon request.

End of Certificate of Analysis

Certificate of Analysis

Client: Silkstone Environmental Ltd

Project: 25103439

Quote: BEC250842160 V1.1

Project Ref: Scheduled Samples 10-2025

Site: Ten Yards Lane

Contact: Richard Drown

Address: 7 Hall Annex
Thornccliffe Park
Chapelton
Sheffield
S35 2PH

E-Mail: rdrown@silkstoneenvironmental.co.uk

Phone: 0114 257 3433

No. Samples Received: 3

Date Received: 23/10/2025

Analysis Completed: 04/11/2025

Date Issued: 04/11/2025

Report Type: Version 01

This report supersedes any versions previously issued by the laboratory



Reported by Account Manager
Lucy Bailey

Lucy.Bailey@socotec.co.uk



Project Number: 25103439

Client: Silkstone Environmental Ltd

Date Issued: 04/11/2025

Project Name: Scheduled Samples 10-2025 - Ten Yards Lane

Samples Analysed

<u>Text ID</u>	<u>Sample Reference</u>	<u>Sampling Date</u>	<u>Sample Type</u>	<u>Sample Description</u>
25103439-001	BH1	21/10/2025 13:00:00	WATER	Ground Water
25103439-002	BH2	21/10/2025 11:35:00	WATER	Ground Water
25103439-003	BH3	21/10/2025 12:00:00	WATER	Ground Water

Analysis Results

		SOCOTEC Sample ID:			
		25103439-001		25103439-002	25103439-003
		Sampling Date:		21/10/2025 13:00	21/10/2025 11:35
		Customer ID:		BH1	BH2
		MDL		BH3	
Method Code	Analysis	MDL	Accred.		
PHCONDW	pH	1 pH units	U	7.1	6.9
PHCONDW	Conductivity at 20°C	90 µS/cm	U	576	131
WSLM12	Total Alkalinity	2 mg/l	U	198	29.2
WSLM27	TDS as mg/L	5 mg/l	N	385	<5
TOCW	Dissolved Organic Carbon	0.4 mg/l	U	1.27	1.23
KONENS	Nitrite as N	0.01 mg/l	U	<0.01	<0.01
KONENS	Ammoniacal Nitrogen as N	0.01 mg/l	U	0.01	<0.01
KONENS	Chloride as Cl	1 mg/l	U	52	5
ISEF	Fluoride as F	0.1 mg/l	U	0.3	0.1
ICPMSW (Dissolved)	Arsenic as As	0.001 mg/l	U	<0.001	<0.001
ICPWATVAR (Dissolved)	Boron as B	0.01 mg/l	U	0.03	0.02
ICPMSW (Dissolved)	Cadmium as Cd	0.0002 mg/l	U	0.00030	<0.00002
ICPWATVAR (Dissolved)	Calcium as Ca	1 mg/l	U	71	15
ICPMSW (Dissolved)	Total Chromium as Cr	0.001 mg/l	U	<0.001	<0.001
ICPMSW (Dissolved)	Copper as Cu	0.001 mg/l	U	<0.001	0.001
ICPWATVAR (Dissolved)	Iron as Fe	0.01 mg/l	U	<0.01	<0.01
ICPMSW (Dissolved)	Lead as Pb	0.0002 mg/l	U	<0.0002	<0.0002
ICPWATVAR (Dissolved)	Magnesium as Mg	1 mg/l	U	19	5
ICPMSW (Dissolved)	Manganese as Mn	0.002 mg/l	U	0.752	0.003
ICPMSW (Dissolved)	Mercury as Hg	0.00003 mg/l	U	<0.00003	<0.00003
ICPMSW (Dissolved)	Nickel as Ni	0.001 mg/l	U	0.002	<0.001
ICPWATVAR (Dissolved)	Potassium as K	1 mg/l	U	2	<1
ICPMSW (Dissolved)	Selenium as Se	0.001 mg/l	U	<0.001	<0.001
ICPWATVAR (Dissolved)	Sodium as Na	1 mg/l	U	36	5
ICPWATVAR (Dissolved)	Total Sulphur as SO4	3 mg/l	U	59	19
ICPMSW (Dissolved)	Zinc as Zn	0.002 mg/l	U	0.007	<0.002
PAHMSW	Acenaphthene	0.01 µg/l	U	<0.40	<0.20
	Acenaphthylene	0.01 µg/l	U	<0.40	<0.20
	Anthracene	0.01 µg/l	U	<0.40	<0.20
	Benzo[a]anthracene	0.01 µg/l	U	<0.40	<0.20
	Benzo[a]pyrene	0.01 µg/l	U	<0.40	<0.20
	Benzo[b]fluoranthene	0.01 µg/l	U	<0.40	<0.20
	Benzo[g,h,i]perylene	0.01 µg/l	U	<0.40	<0.20
	Benzo[k]fluoranthene	0.01 µg/l	U	<0.40	<0.20
	Chrysene	0.01 µg/l	U	<0.40	<0.20
	Dibenzo[a,h]anthracene	0.01 µg/l	U	<0.40	<0.20
	Fluoranthene	0.01 µg/l	U	<0.40	<0.20
	Fluorene	0.01 µg/l	U	<0.40	<0.20
	Indeno[1,2,3-cd]pyrene	0.01 µg/l	U	<0.40	<0.20
	Naphthalene	0.01 µg/l	U	<0.40	0.22
	Phenanthrene	0.01 µg/l	U	0.63	<0.20
	Pyrene	0.01 µg/l	U	<0.40	<0.20
SVOCSW	Total PAH 16	0.16 µg/l	U	6.63	3.22
	1,2,4-Trichlorobenzene	0.005 mg/l	N	<0.200	<0.200
	1,2-Dichlorobenzene	0.005 mg/l	N	<0.200	<0.200
	1,3-Dichlorobenzene	0.005 mg/l	N	<0.200	<0.200
	1,4-Dichlorobenzene	0.005 mg/l	N	<0.200	<0.200
	1-Methylnaphthalene	0.002 mg/l	N	<0.080	<0.080
	2,4,5-Trichlorophenol	0.02 mg/l	N	<0.800	<0.800
	2,4,6-Trichlorophenol	0.02 mg/l	N	<0.800	<0.800
	2,4-Dichlorophenol	0.02 mg/l	N	<0.800	<0.800
	2,4-Dimethylphenol	0.02 mg/l	N	<0.800	<0.800
	2,4-Dinitrophenol	0.01 mg/l	N	<0.400	<0.400
	2,4-Dinitrotoluene	0.005 mg/l	N	<0.200	<0.200
	2,6-Dinitrotoluene	0.005 mg/l	N	<0.200	<0.200
	2-Chloronaphthalene	0.002 mg/l	N	<0.080	<0.080
	2-Chlorophenol	0.02 mg/l	N	<0.800	<0.800
	2-Methylnaphthalene	0.002 mg/l	N	<0.080	<0.080
	2-Methylphenol	0.005 mg/l	N	<0.200	<0.200
	2-Nitroaniline	0.005 mg/l	N	<0.200	<0.200
	2-Nitrophenol	0.02 mg/l	N	<0.800	<0.800
	3- & 4-Methylphenol	0.02 mg/l	N	<0.800	<0.800
	3-Nitroaniline	0.005 mg/l	N	<0.200	<0.200
	4,6-Dinitro-2-methylphenol	0.05 mg/l	N	<2.00	<2.00
	4-Bromophenyl-phenylether	0.005 mg/l	N	<0.200	<0.200
	4-Chloro-3-methylphenol	0.005 mg/l	N	<0.200	<0.200
	4-Chloroaniline	0.005 mg/l	N	<0.200	<0.200
	4-Chlorophenol	0.02 mg/l	N	<0.800	<0.800
	4-Chlorophenyl-phenylether	0.005 mg/l	N	<0.200	<0.200
	4-Nitroaniline	0.005 mg/l	N	<0.200	<0.200
	4-Nitrophenol	0.05 mg/l	N	<2.00	<2.00
	Acenaphthene	0.002 mg/l	N	<0.080	<0.080
	Acenaphthylene	0.002 mg/l	N	<0.080	<0.080
	Anthracene	0.002 mg/l	N	<0.080	<0.080
	Azobenzene	0.01 mg/l	N	<0.400	<0.400
	Benzo[a]anthracene	0.002 mg/l	N	<0.080	<0.080
	Benzo[a]pyrene	0.002 mg/l	N	<0.080	<0.080
	Benzo[b]fluoranthene	0.002 mg/l	N	<0.080	<0.080
	Benzo[g,h,i]perylene	0.002 mg/l	N	<0.080	<0.080

Analysis Results

SOCOTEC Sample ID:	25103439-001	25103439-002	25103439-003
Sampling Date:	21/10/2025 13:00	21/10/2025 11:35	21/10/2025 12:00
Customer ID:	BH1	BH2	BH3
Accred.			

Method Code	Analysis	MDL	Accred.	BH1	BH2	BH3
SVOCSW	Benzo[k]fluoranthene	0.002 mg/l	N	<0.080 ◻	<0.080 ◻	<0.080 ◻
	Benzoic Acid	0.1 mg/l	N	<4.00 ◻	<4.00 ◻	<4.00 ◻
	Benzyl alcohol	0.005 mg/l	N	<0.200 ◻	<0.200 ◻	<0.200 ◻
	Biphenyl	0.002 mg/l	N	<0.080 ◻	<0.080 ◻	<0.080 ◻
	bis(2-Chloroethoxy)methane	0.005 mg/l	N	<0.200 ◻	<0.200 ◻	<0.200 ◻
	bis(2-Chloroethyl)ether	0.005 mg/l	N	<0.200 ◻	<0.200 ◻	<0.200 ◻
	bis(2-Chloroisopropyl)ether	0.005 mg/l	N	<0.200 ◻	<0.200 ◻	<0.200 ◻
	bis(2-Ethylhexyl)phthalate	0.005 mg/l	N	<0.200 ◻	<0.200 ◻	<0.200 ◻
	Butylbenzylphthalate	0.005 mg/l	N	<0.200 ◻	<0.200 ◻	<0.200 ◻
	Carbazole	0.01 mg/l	N	<0.400 ◻	<0.400 ◻	<0.400 ◻
	Chrysene	0.002 mg/l	N	<0.080 ◻	<0.080 ◻	<0.080 ◻
	Coronene	0.05 mg/l	N	<2.00 ◻	<2.00 ◻	<2.00 ◻
	Dibenzo[a,h]anthracene	0.002 mg/l	N	<0.080 ◻	<0.080 ◻	<0.080 ◻
	Dibenzofuran	0.005 mg/l	N	<0.200 ◻	<0.200 ◻	<0.200 ◻
	Diethylphthalate	0.005 mg/l	N	<0.200 ◻	<0.200 ◻	<0.200 ◻
	Dimethylphthalate	0.005 mg/l	N	<0.200 ◻	<0.200 ◻	<0.200 ◻
	Di-n-butylphthalate	0.005 mg/l	N	<0.200 ◻	<0.200 ◻	<0.200 ◻
	Di-n-octylphthalate	0.002 mg/l	N	<0.080 ◻	<0.080 ◻	<0.080 ◻
	Diphenyl ether	0.002 mg/l	N	<0.080 ◻	<0.080 ◻	<0.080 ◻
	Fluoranthene	0.002 mg/l	N	<0.080 ◻	<0.080 ◻	<0.080 ◻
	Fluorene	0.002 mg/l	N	<0.080 ◻	<0.080 ◻	<0.080 ◻
	Hexachlorobenzene	0.005 mg/l	N	<0.200 ◻	<0.200 ◻	<0.200 ◻
	Hexachlorobutadiene	0.005 mg/l	N	<0.200 ◻	<0.200 ◻	<0.200 ◻
	Hexachlorocyclopentadiene	0.005 mg/l	N	<0.200 ◻	<0.200 ◻	<0.200 ◻
	Hexachloroethane	0.005 mg/l	N	<0.200 ◻	<0.200 ◻	<0.200 ◻
	Indeno[1,2,3-cd]pyrene	0.002 mg/l	N	<0.080 ◻	<0.080 ◻	<0.080 ◻
	Isophorone	0.005 mg/l	N	<0.200 ◻	<0.200 ◻	<0.200 ◻
	Naphthalene	0.002 mg/l	N	<0.080 ◻	<0.080 ◻	<0.080 ◻
	Nitrobenzene	0.005 mg/l	N	<0.200 ◻	<0.200 ◻	<0.200 ◻
	N-Nitroso-di-n-propylamine	0.005 mg/l	N	<0.200 ◻	<0.200 ◻	<0.200 ◻
	N-Nitrosodiphenylamine	0.005 mg/l	N	<0.200 ◻	<0.200 ◻	<0.200 ◻
	Pentachlorophenol	0.05 mg/l	N	<2.00 ◻	<2.00 ◻	<2.00 ◻
	Phenanthrene	0.002 mg/l	N	<0.080 ◻	<0.080 ◻	<0.080 ◻
	Phenol	0.02 mg/l	N	<0.800 ◻	<0.800 ◻	<0.800 ◻
	Pyrene	0.002 mg/l	N	<0.080 ◻	<0.080 ◻	<0.080 ◻
VOCHSAW	1,1,1,2-Tetrachloroethane	1 µg/l	U	<1	<1	<1
	1,1,1-Trichloroethane	1 µg/l	U	<1	<1	<1
	1,1,2,2-Tetrachloroethane	1 µg/l	N	<1	<1	<1
	1,1,2-Trichloroethane	1 µg/l	U	<1	<1	<1
	1,1-Dichloroethane	1 µg/l	U	<1	<1	<1
	1,1-Dichloroethene	1 µg/l	U	<1	<1	<1
	1,1-Dichloropropene	1 µg/l	U	<1	<1	<1
	1,2,3-Trichlorobenzene	5 µg/l	U	<5	<5	<5
	1,2,3-Trichloropropane	1 µg/l	U	<1	<1	<1
	1,2,4-Trichlorobenzene	5 µg/l	U	<5	<5	<5
	1,2,4-Trimethylbenzene	1 µg/l	U	<1	<1	<1
	1,2-Dibromo-3-chloropropane	5 µg/l	U	<5	<5	<5
	1,2-Dibromoethane	1 µg/l	U	<1	<1	<1
	1,2-Dichlorobenzene	5 µg/l	U	<5	<5	<5
	1,2-Dichloroethane	1 µg/l	U	<1	<1	<1
	1,2-Dichloropropane	1 µg/l	U	<1	<1	<1
	1,3,5-Trimethylbenzene	0.6 µg/l	U	<0.6	<0.6	<0.6
	1,3-Dichlorobenzene	1 µg/l	U	<1	<1	<1
	1,3-Dichloropropane	1 µg/l	N	<1	<1	<1
	1,4-Dichlorobenzene	1 µg/l	U	<1	<1	<1
	2,2-Dichloropropane	1 µg/l	N	<1	<1	<1
	2-Chlorotoluene	1 µg/l	U	<1	<1	<1
	4-Chlorotoluene	1 µg/l	U	<1	<1	<1
	Benzene	1 µg/l	U	<1	<1	<1
	Bromobenzene	1 µg/l	U	<1	<1	<1
	Bromochloromethane	1 µg/l	U	<1	<1	<1
	Bromodichloromethane	1 µg/l	U	<1	<1	<1
	Bromoform	1 µg/l	U	<1	<1	<1
	Bromomethane	5 µg/l	N	<5	<5	<5
	Carbon Tetrachloride	1 µg/l	U	<1	<1	<1
	Chlorobenzene	1 µg/l	U	<1	<1	<1
	Chloroethane	5 µg/l	U	<5	<5	<5
	Chloroform	5 µg/l	U	<5	<5	<5
	Chloromethane	1 µg/l	U	<1	<1	<1
	cis 1,2-Dichloroethene	1 µg/l	U	<1	<1	<1
	cis 1,3-Dichloropropene	1 µg/l	N	<1	<1	<1
	Dibromochloromethane	1 µg/l	U	<1	<1	<1
	Dibromomethane	1 µg/l	U	<1	<1	<1
	Dichlorodifluoromethane	1 µg/l	N	<1	<1	<1
	Ethylbenzene	0.5 µg/l	U	<0.5	<0.5	<0.5
	Hexachlorobutadiene	5 µg/l	U	<5	<5	<5
	iso-Propylbenzene	1 µg/l	U	<1	<1	<1
	m and p-Xylene	1 µg/l	U	<1	<1	2
	MTBE	1 µg/l	N	<1	<1	<1

Analysis Results

SOCOTEC Sample ID:				25103439-001	25103439-002	25103439-003
Sampling Date:				21/10/2025 13:00	21/10/2025 11:35	21/10/2025 12:00
Customer ID:				BH1	BH2	BH3
Method Code	Analysis	MDL	Accred.			
VOCHSAW	Naphthalene	5 µg/l	U	<5	<5	<5
	n-Butylbenzene	1 µg/l	U	<1	<1	<1
	o-Xylene	1 µg/l	U	<1	<1	<1
	p-Isopropyltoluene	1 µg/l	U	<1	<1	<1
	Propylbenzene	1 µg/l	U	<1	<1	<1
	sec-Butylbenzene	1 µg/l	U	<1	<1	<1
	Styrene	1 µg/l	U	<1	<1	<1
	tert-Butylbenzene	1 µg/l	U	<1	<1	<1
	Tetrachloroethene	5 µg/l	U	<5	<5	<5
	Toluene	1 µg/l	U	<1	<1	1
	trans 1,2-Dichloroethene	1 µg/l	U	<1	<1	<1
	trans 1,3-Dichloropropene	1 µg/l	U	<1	<1	<1
	Trichloroethene	5 µg/l	U	<5	<5	<5
	Trichlorofluoromethane	1 µg/l	U	<1	<1	<1
	Vinyl Chloride	1 µg/l	U	<1	<1	<1

**Project Number: 25103439**

Client: Silkstone Environmental Ltd
Date Issued: 04/11/2025
Project Name: Scheduled Samples 10-2025 - Ten Yards Lane

Deviating Sample Report

All samples received in an appropriate condition with no deviancies noted with the samples.

Analysis Method

<u>Method Code</u>	<u>Method Description</u>	<u>Analysis Method</u>
ICPMSW (Dissolved)	Arsenic (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Cadmium (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Chromium (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Copper (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Lead (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Manganese (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Mercury (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Nickel (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Selenium (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Zinc (Diss.) in Water by ICPMS	Filtered
ICPWATVAR (Dissolved)	Boron (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Calcium (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Iron (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Magnesium (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Potassium (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Sodium (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Total Sulphur as SO ₄ (Diss.) in Water	Filtered
ISEF	Fluoride by ISE	Unfiltered
KONENS	Ammoniacal Nitrogen as N	Filtered
KONENS	Chloride by Colorimetry	Filtered
KONENS	Nitrite as N by Colorimetry	Filtered
PAHMSW	16 PAHs by GCMS	Unfiltered
PHCONDW	Electrical Conductivity @ 20°C	Unfiltered
PHCONDW	pH	Unfiltered
SVOCSW	SVOCs (Target List) by GCMS	Unfiltered
TOCW	DOC: Dissolved Organic Carbon	Filtered
VOCHSAW	VOCs (Target List) by GCMS	Unfiltered
WSLM12	Total Alkalinity as CaCO ₃	Unfiltered
WSLM27	TDS: Total Dissolved Solids	Filtered



Project Number: [25103439](#)

Client: Silkstone Environmental Ltd

Date Issued: 04/11/2025

Project Name: Scheduled Samples 10-2025 - Ten Yards Lane

[Result Report Notes](#)

Letters alongside results signify that the result has associated report notes.

The report notes are as follows:

[Letter](#)

[Note](#)

- | | |
|---|--|
| A | Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data. |
| B | The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised. |
| C | Due to matrix interference, the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data. |
| D | A non-standard volume or mass has been used for this test which has resulted in a raised detection limit. |
| E | Due to the parameter value being beyond our calibration range (and following the maximum size of dilution allowed, where applicable), the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only. |
| F | Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only. |
| G | The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only. |

[HWOL Acronym Key](#)

[Acronym](#)

[Description](#)

HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e everything extracted by the solvent(s)
CU	Clean up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
+	Operator to indicate cumulative e.g. EH_CU+HS_1D_Total

[SVOCSW - N-Nitrosodiphenylamine](#)

N-Nitrosodiphenylamine decomposes in the GC inlet and cannot be separated from diphenylamine. For this reason we will report a combined result for N-Nitrosodiphenylamine and Diphenylamine.



Project Number: [25103439](#)

Client: Silkstone Environmental Ltd

Date Issued: 04/11/2025

Project Name: Scheduled Samples 10-2025 - Ten Yards Lane

Additional Information

This report refers to samples as received. SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

The accreditation codes are as follows:

U = UKAS accredited analysis
M = MCERT accredited analysis
N = Unaccredited analysis

Any accreditation marked with ^ signify results are reported on a dry weight basis of 105 ° c.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35 ° c.

This report shall not be reproduced except in full, without written approval of the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any results marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

IS = Insufficient Sample to complete analysis
NA = Sample is not amenable for the required analysis
ND = Results cannot be determined

Items listed with a 'SUB' method code prefix have been carried out by another SOCOTEC department or by an external subcontracted laboratory. Further information is available upon request.

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the subcontracted lab for information regarding any deviancies for this analysis.

Summaries of analysis methods are available upon request.

End of Certificate of Analysis

Certificate of Analysis

Client: Silkstone Environmental Ltd

Project: 25113250

Quote: BEC250842160 V1.1

Project Ref: Scheduled Samples 11-2025

Site: Ten Yards Lane

Contact: Richard Drown

Address: 7 Hall Annex
Thornccliffe Park
Chapelton
Sheffield
S35 2PH

E-Mail: rdrown@silkstoneenvironmental.co.uk

Phone: 0114 257 3433

No. Samples Received: 3

Date Received: 22/11/2025

Analysis Completed: 09/12/2025

Date Issued: 09/12/2025

Report Type: Version 01

This report supersedes any versions previously issued by the laboratory



Reported by Reporting Officer
Aniko Gondolne-Mantler
01283 554434
Aniko.Gondolne-Mantler@socotec.co.uk



Project Number: 25113250

Client: Silkstone Environmental Ltd

Date Issued: 09/12/2025

Project Name: Scheduled Samples 11-2025 - Ten Yards Lane

Samples Analysed

<u>Text ID</u>	<u>Sample Reference</u>	<u>Sampling Date</u>	<u>Sample Type</u>	<u>Sample Description</u>
25113250-001	BH1	19/11/2025 09:20:00	WATER	Ground Water
25113250-002	BH2	19/11/2025 10:00:00	WATER	Ground Water
25113250-003	BH3	19/11/2025 10:35:00	WATER	Ground Water

Analysis Results

		SOCOTEC Sample ID:		25113250-001	25113250-002	25113250-003
		Sampling Date:		19/11/2025 09:20	19/11/2025 10:00	19/11/2025 10:35
		Customer ID:		BH1	BH2	BH3
Method Code	Analysis	MDL	Accred.			
PHCONDW	pH	1 pH units	U	7.4	7.5	6.8
PHCONDW	Conductivity at 20°C	90 µS/cm	U	618	267	139
WSLM12	Total Alkalinity	2 mg/l	U	185	89.0	21.6
WSLM27	TDS as mg/L	5 mg/l	N	265	172	120
TOCW	Dissolved Organic Carbon	0.4 mg/l	U	1.77	1.58	1.41
KONENS	Nitrite as N	0.01 mg/l	U	<0.01	<0.01	<0.01
KONENS	Ammoniacal Nitrogen as N	0.01 mg/l	U	<0.01	<0.01	<0.01
KONENS	Chloride as Cl	1 mg/l	U	68	12	7
ISEF	Fluoride as F	0.1 mg/l	U	0.2	0.1	<0.1
ICPMSW (Dissolved)	Arsenic as As	0.001 mg/l	U	<0.001	<0.001	<0.001
ICPWATVAR (Dissolved)	Boron as B	0.01 mg/l	U	0.03	0.03	0.02
ICPMSW (Dissolved)	Cadmium as Cd	0.00002 mg/l	U	0.00007	<0.00002	<0.00002
ICPWATVAR (Dissolved)	Calcium as Ca	1 mg/l	U	76	30	13
ICPMSW (Dissolved)	Total Chromium as Cr	0.001 mg/l	U	<0.001	<0.001	<0.001
ICPMSW (Dissolved)	Copper as Cu	0.001 mg/l	U	<0.001	<0.001	<0.001
ICPWATVAR (Dissolved)	Iron as Fe	0.01 mg/l	U	<0.01	<0.01	0.01
ICPMSW (Dissolved)	Lead as Pb	0.0002 mg/l	U	<0.0002	<0.0002	<0.0002
ICPWATVAR (Dissolved)	Magnesium as Mg	1 mg/l	U	15	12	5
ICPMSW (Dissolved)	Manganese as Mn	0.002 mg/l	U	0.107	<0.002	0.006
ICPMSW (Dissolved)	Mercury as Hg	0.00003 mg/l	U	<0.00003	<0.00003	<0.00003
ICPMSW (Dissolved)	Nickel as Ni	0.001 mg/l	U	0.001	<0.001	<0.001
ICPWATVAR (Dissolved)	Potassium as K	1 mg/l	U	2	<1	<1
ICPMSW (Dissolved)	Selenium as Se	0.001 mg/l	U	<0.001	<0.001	<0.001
ICPWATVAR (Dissolved)	Sodium as Na	1 mg/l	U	51	10	6
ICPWATVAR (Dissolved)	Total Sulphur as SO4	3 mg/l	U	68	29	19
ICPMSW (Dissolved)	Zinc as Zn	0.002 mg/l	U	<0.002	0.003	<0.002
PAHMSW	Acenaphthene	0.01 µg/l	U	<0.40	<0.40	<0.40
	Acenaphthylene	0.01 µg/l	U	<0.40	<0.40	<0.40
	Anthracene	0.01 µg/l	U	<0.40	<0.40	<0.40
	Benzo[a]anthracene	0.01 µg/l	U	<0.40	<0.40	<0.40
	Benzo[a]pyrene	0.01 µg/l	U	<0.40	<0.40	<0.40
	Benzo[b]fluoranthene	0.01 µg/l	U	<0.40	<0.40	<0.40
	Benzo[g,h,i]perylene	0.01 µg/l	U	<0.40	<0.40	<0.40
	Benzo[k]fluoranthene	0.01 µg/l	U	<0.40	<0.40	<0.40
	Chrysene	0.01 µg/l	U	<0.40	<0.40	<0.40
	Dibenzo[a,h]anthracene	0.01 µg/l	U	<0.40	<0.40	<0.40
	Fluoranthene	0.01 µg/l	U	<0.40	<0.40	<0.40
	Fluorene	0.01 µg/l	U	<0.40	<0.40	<0.40
	Indeno[1,2,3-cd]pyrene	0.01 µg/l	U	<0.40	<0.40	<0.40
	Naphthalene	0.01 µg/l	U	<0.40	<0.40	<0.40
	Phenanthrene	0.01 µg/l	U	0.71	<0.40	<0.40
	Pyrene	0.01 µg/l	U	<0.40	<0.40	<0.40
	Total PAH 16	0.16 µg/l	U	6.71	<6.40	<6.40
SVOCSW	1,2,4-Trichlorobenzene	0.005 mg/l	N	<0.100	<0.100	<0.100
	1,2-Dichlorobenzene	0.005 mg/l	N	<0.100	<0.100	<0.100
	1,3-Dichlorobenzene	0.005 mg/l	N	<0.100	<0.100	<0.100
	1,4-Dichlorobenzene	0.005 mg/l	N	<0.100	<0.100	<0.100
	1-Methylnaphthalene	0.002 mg/l	N	<0.040	<0.040	<0.040
	2,4,5-Trichlorophenol	0.02 mg/l	N	<0.400	<0.400	<0.400
	2,4,6-Trichlorophenol	0.02 mg/l	N	<0.400	<0.400	<0.400
	2,4-Dichlorophenol	0.02 mg/l	N	<0.400	<0.400	<0.400
	2,4-Dimethylphenol	0.02 mg/l	N	<0.400	<0.400	<0.400
	2,4-Dinitrophenol	0.01 mg/l	N	<0.200	<0.200	<0.200
	2,4-Dinitrotoluene	0.005 mg/l	N	<0.100	<0.100	<0.100
	2,6-Dinitrotoluene	0.005 mg/l	N	<0.100	<0.100	<0.100
	2-Chloronaphthalene	0.002 mg/l	N	<0.040	<0.040	<0.040
	2-Chlorophenol	0.02 mg/l	N	<0.400	<0.400	<0.400
	2-Methylnaphthalene	0.002 mg/l	N	<0.040	<0.040	<0.040
	2-Methylphenol	0.005 mg/l	N	<0.100	<0.100	<0.100
	2-Nitroaniline	0.005 mg/l	N	<0.100	<0.100	<0.100
	2-Nitrophenol	0.02 mg/l	N	<0.400	<0.400	<0.400
	3- & 4-Methylphenol	0.02 mg/l	N	<0.400	<0.400	<0.400
	3-Nitroaniline	0.005 mg/l	N	<0.100	<0.100	<0.100
	4,6-Dinitro-2-methylphenol	0.05 mg/l	N	<1.00	<1.00	<1.00
	4-Bromophenyl-phenylether	0.005 mg/l	N	<0.100	<0.100	<0.100
	4-Chloro-3-methylphenol	0.005 mg/l	N	<0.100	<0.100	<0.100
	4-Chloroaniline	0.005 mg/l	N	<0.100	<0.100	<0.100
	4-Chlorophenol	0.02 mg/l	N	<0.400	<0.400	<0.400
	4-Chlorophenyl-phenylether	0.005 mg/l	N	<0.100	<0.100	<0.100
	4-Nitroaniline	0.005 mg/l	N	<0.100	<0.100	<0.100
	4-Nitrophenol	0.05 mg/l	N	<1.00	<1.00	<1.00
	Acenaphthene	0.002 mg/l	N	<0.040	<0.040	<0.040
	Acenaphthylene	0.002 mg/l	N	<0.040	<0.040	<0.040
	Anthracene	0.002 mg/l	N	<0.040	<0.040	<0.040
	Azobenzene	0.01 mg/l	N	<0.200	<0.200	<0.200
	Benzo[a]anthracene	0.002 mg/l	N	<0.040	<0.040	<0.040
	Benzo[a]pyrene	0.002 mg/l	N	<0.040	<0.040	<0.040
	Benzo[b]fluoranthene	0.002 mg/l	N	<0.040	<0.040	<0.040
	Benzo[g,h,i]perylene	0.002 mg/l	N	<0.040	<0.040	<0.040

Analysis Results

SOCOTEC Sample ID:	25113250-001	25113250-002	25113250-003
Sampling Date:	19/11/2025 09:20	19/11/2025 10:00	19/11/2025 10:35
Customer ID:	BH1	BH2	BH3
Accred.			

Method Code	Analysis	MDL	Accred.			
SVOCSW	Benzo[k]fluoranthene	0.002 mg/l	N	<0.040	<0.040	<0.040
	Benzoic Acid	0.1 mg/l	N	<2.00	<2.00	<2.00
	Benzyl alcohol	0.005 mg/l	N	<0.100	<0.100	<0.100
	Biphenyl	0.002 mg/l	N	<0.040	<0.040	<0.040
	bis(2-Chloroethoxy)methane	0.005 mg/l	N	<0.100	<0.100	<0.100
	bis(2-Chloroethyl)ether	0.005 mg/l	N	<0.100	<0.100	<0.100
	bis(2-Chloroisopropyl)ether	0.005 mg/l	N	<0.100	<0.100	<0.100
	bis(2-Ethylhexyl)phthalate	0.005 mg/l	N	<0.100	<0.100	<0.100
	Butylbenzylphthalate	0.005 mg/l	N	<0.100	<0.100	<0.100
	Carbazole	0.01 mg/l	N	<0.200	<0.200	<0.200
	Chrysene	0.002 mg/l	N	<0.040	<0.040	<0.040
	Coronene	0.05 mg/l	N	<1.00	<1.00	<1.00
	Dibenzo[a,h]anthracene	0.002 mg/l	N	<0.040	<0.040	<0.040
	Dibenzofuran	0.005 mg/l	N	<0.100	<0.100	<0.100
	Diethylphthalate	0.005 mg/l	N	<0.100	<0.100	<0.100
	Dimethylphthalate	0.005 mg/l	N	<0.100	<0.100	<0.100
	Di-n-butylphthalate	0.005 mg/l	N	<0.100	<0.100	<0.100
	Di-n-octylphthalate	0.002 mg/l	N	<0.040	<0.040	<0.040
	Diphenyl ether	0.002 mg/l	N	<0.040	<0.040	<0.040
	Fluoranthene	0.002 mg/l	N	<0.040	<0.040	<0.040
	Fluorene	0.002 mg/l	N	<0.040	<0.040	<0.040
	Hexachlorobenzene	0.005 mg/l	N	<0.100	<0.100	<0.100
	Hexachlorobutadiene	0.005 mg/l	N	<0.100	<0.100	<0.100
	Hexachlorocyclopentadiene	0.005 mg/l	N	<0.100	<0.100	<0.100
	Hexachloroethane	0.005 mg/l	N	<0.100	<0.100	<0.100
	Indeno[1,2,3-cd]pyrene	0.002 mg/l	N	<0.040	<0.040	<0.040
	Isophorone	0.005 mg/l	N	<0.100	<0.100	<0.100
	Naphthalene	0.002 mg/l	N	<0.040	<0.040	<0.040
	Nitrobenzene	0.005 mg/l	N	<0.100	<0.100	<0.100
	N-Nitroso-di-n-propylamine	0.005 mg/l	N	<0.100	<0.100	<0.100
	N-Nitrosodiphenylamine	0.005 mg/l	N	<0.100	<0.100	<0.100
	Pentachlorophenol	0.05 mg/l	N	<1.00	<1.00	<1.00
	Phenanthrene	0.002 mg/l	N	<0.040	<0.040	<0.040
	Phenol	0.02 mg/l	N	<0.400	<0.400	<0.400
	Pyrene	0.002 mg/l	N	<0.040	<0.040	<0.040
VOCHSAW	1,1,1,2-Tetrachloroethane	1 µg/l	U	<1	<1	<1
	1,1,1-Trichloroethane	1 µg/l	U	<1	<1	<1
	1,1,2,2-Tetrachloroethane	1 µg/l	N	<1	<1	<1
	1,1,2-Trichloroethane	1 µg/l	U	<1	<1	<1
	1,1-Dichloroethane	1 µg/l	U	<1	<1	<1
	1,1-Dichloroethene	1 µg/l	U	<1	<1	<1
	1,1-Dichloropropene	1 µg/l	U	<1	<1	<1
	1,2,3-Trichlorobenzene	5 µg/l	U	<5	<5	<5
	1,2,3-Trichloropropane	1 µg/l	U	<1	<1	<1
	1,2,4-Trichlorobenzene	5 µg/l	U	<5	<5	<5
	1,2,4-Trimethylbenzene	1 µg/l	U	<1	<1	<1
	1,2-Dibromo-3-chloropropane	5 µg/l	U	<5	<5	<5
	1,2-Dibromoethane	1 µg/l	U	<1	<1	<1
	1,2-Dichlorobenzene	5 µg/l	U	<5	<5	<5
	1,2-Dichloroethane	1 µg/l	U	<1	<1	<1
	1,2-Dichloropropane	1 µg/l	U	<1	<1	<1
	1,3,5-Trimethylbenzene	0.6 µg/l	U	<0.6	<0.6	<0.6
	1,3-Dichlorobenzene	1 µg/l	U	<1	<1	<1
	1,3-Dichloropropane	1 µg/l	N	<1	<1	<1
	1,4-Dichlorobenzene	1 µg/l	U	<1	<1	<1
	2,2-Dichloropropane	1 µg/l	N	<1	<1	<1
	2-Chlorotoluene	1 µg/l	U	<1	<1	<1
	4-Chlorotoluene	1 µg/l	U	<1	<1	<1
	Benzene	1 µg/l	U	<1	<1	<1
	Bromobenzene	1 µg/l	U	<1	<1	<1
	Bromochloromethane	1 µg/l	U	<1	<1	<1
	Bromodichloromethane	1 µg/l	U	<1	<1	<1
	Bromoform	1 µg/l	U	<1	<1	<1
	Bromomethane	5 µg/l	N	<5	<5	<5
	Carbon Tetrachloride	1 µg/l	U	<1	<1	<1
	Chlorobenzene	1 µg/l	U	<1	<1	<1
	Chloroethane	5 µg/l	U	<5	<5	<5
	Chloroform	5 µg/l	U	<5	<5	<5
	Chloromethane	1 µg/l	U	<1	<1	<1*
	cis 1,2-Dichloroethene	1 µg/l	U	<1	<1	<1
	cis 1,3-Dichloropropene	1 µg/l	N	<1	<1	<1
	Dibromochloromethane	1 µg/l	U	<1	<1	<1
	Dibromomethane	1 µg/l	U	<1	<1	<1
	Dichlorodifluoromethane	1 µg/l	N	<1	<1	<1
	Ethylbenzene	0.5 µg/l	U	<0.5	<0.5	<0.5
	Hexachlorobutadiene	5 µg/l	U	<5	<5	<5
	iso-Propylbenzene	1 µg/l	U	<1	<1	<1
	m and p-Xylene	1 µg/l	U	<1	<1	<1
	MTBE	1 µg/l	N	<1	<1	<1

Analysis Results

SOCOTEC Sample ID:				25113250-001	25113250-002	25113250-003
Sampling Date:				19/11/2025 09:20	19/11/2025 10:00	19/11/2025 10:35
Customer ID:				BH1	BH2	BH3
Method Code	Analysis	MDL	Accred.			
VOCHSAW	Naphthalene	5 µg/l	U	<5	<5	<5
	n-Butylbenzene	1 µg/l	U	<1	<1	<1
	o-Xylene	1 µg/l	U	<1	<1	<1
	p-Isopropyltoluene	1 µg/l	U	<1	<1	<1
	Propylbenzene	1 µg/l	U	<1	<1	<1
	sec-Butylbenzene	1 µg/l	U	<1	<1	<1
	Styrene	1 µg/l	U	<1	<1	<1
	tert-Butylbenzene	1 µg/l	U	<1	<1	<1
	Tetrachloroethene	5 µg/l	U	<5	<5	<5
	Toluene	1 µg/l	U	<1	<1	<1
	trans 1,2-Dichloroethene	1 µg/l	U	<1	<1	<1
	trans 1,3-Dichloropropene	1 µg/l	U	<1	<1	<1
	Trichloroethene	5 µg/l	U	<5	<5	<5 ^a
	Trichlorofluoromethane	1 µg/l	U	<1	<1	<1
	Vinyl Chloride	1 µg/l	U	<1	<1	<1

Deviating Sample Report

			Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time
<u>Sample Reference</u>	<u>Text ID</u>	<u>Method Code</u>						
BH1	25113250-001	PHCONDW						✓
BH2	25113250-002	PHCONDW						✓
BH3	25113250-003	PHCONDW						✓

Analysis Method

<u>Method Code</u>	<u>Method Description</u>	<u>Analysis Method</u>
ICPSMW (Dissolved)	Arsenic (Diss.) in Water by ICPMS	Filtered
ICPSMW (Dissolved)	Cadmium (Diss.) in Water by ICPMS	Filtered
ICPSMW (Dissolved)	Chromium (Diss.) in Water by ICPMS	Filtered
ICPSMW (Dissolved)	Copper (Diss.) in Water by ICPMS	Filtered
ICPSMW (Dissolved)	Lead (Diss.) in Water by ICPMS	Filtered
ICPSMW (Dissolved)	Manganese (Diss.) in Water by ICPMS	Filtered
ICPSMW (Dissolved)	Mercury (Diss.) in Water by ICPMS	Filtered
ICPSMW (Dissolved)	Nickel (Diss.) in Water by ICPMS	Filtered
ICPSMW (Dissolved)	Selenium (Diss.) in Water by ICPMS	Filtered
ICPSMW (Dissolved)	Zinc (Diss.) in Water by ICPMS	Filtered
ICPWATVAR (Dissolved)	Boron (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Calcium (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Iron (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Magnesium (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Potassium (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Sodium (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Total Sulphur as SO ₄ (Diss.) in Water	Filtered
ISEF	Fluoride by ISE	Unfiltered
KONENS	Ammoniacal Nitrogen as N	Filtered
KONENS	Chloride by Colorimetry	Filtered
KONENS	Nitrite as N by Colorimetry	Filtered
PAHMSW	16 PAHs by GCMS	Unfiltered
PHCONDW	Electrical Conductivity @ 20°C	Unfiltered
PHCONDW	pH	Unfiltered
SVOCSW	SVOCs (Target List) by GCMS	Unfiltered
TOCW	DOC: Dissolved Organic Carbon	Filtered
VOCHSAW	VOCs (Target List) by GCMS	Unfiltered
WSLM12	Total Alkalinity as CaCO ₃	Unfiltered
WSLM27	TDS: Total Dissolved Solids	Filtered



Project Number: [25113250](#)

Client: Silkstone Environmental Ltd

Date Issued: 09/12/2025

Project Name: Scheduled Samples 11-2025 - Ten Yards Lane

[Result Report Notes](#)

Letters alongside results signify that the result has associated report notes.

The report notes are as follows:

[Letter](#)

[Note](#)

- | | |
|---|--|
| A | Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data. |
| B | The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised. |
| C | Due to matrix interference, the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data. |
| D | A non-standard volume or mass has been used for this test which has resulted in a raised detection limit. |
| E | Due to the parameter value being beyond our calibration range (and following the maximum size of dilution allowed, where applicable), the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only. |
| F | Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only. |
| G | The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only. |

[HWOL Acronym Key](#)

[Acronym](#)

[Description](#)

HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e everything extracted by the solvent(s)
CU	Clean up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
+	Operator to indicate cumulative e.g. EH_CU+HS_1D_Total

[SVOCSW - N-Nitrosodiphenylamine](#)

N-Nitrosodiphenylamine decomposes in the GC inlet and cannot be separated from diphenylamine. For this reason we will report a combined result for N-Nitrosodiphenylamine and Diphenylamine.



Project Number: [25113250](#)

Client: Silkstone Environmental Ltd

Date Issued: 09/12/2025

Project Name: Scheduled Samples 11-2025 - Ten Yards Lane

Additional Information

This report refers to samples as received. SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

The accreditation codes are as follows:

U = UKAS accredited analysis
M = MCERT accredited analysis
N = Unaccredited analysis

Any accreditation marked with ^ signify results are reported on a dry weight basis of 105 ° c.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35 ° c.

This report shall not be reproduced except in full, without written approval of the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any results marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

IS = Insufficient Sample to complete analysis
NA = Sample is not amenable for the required analysis
ND = Results cannot be determined

Items listed with a 'SUB' method code prefix have been carried out by another SOCOTEC department or by an external subcontracted laboratory. Further information is available upon request.

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the subcontracted lab for information regarding any deviancies for this analysis.

Summaries of analysis methods are available upon request.

End of Certificate of Analysis

Certificate of Analysis

Client: Silkstone Environmental Ltd

Project: 25122978

Quote: BEC250842160 V1.1

Project Ref: Scheduled Samples 12-2025

Site: Ten Yards Lane

Contact: Richard Drown

Address: 7 Hall Annex
Thornccliffe Park
Chapelton
Sheffield
S35 2PH

E-Mail: rdrown@silkstoneenvironmental.co.uk

Phone: 0114 257 3433

No. Samples Received: 3

Date Received: 18/12/2025

Analysis Completed: 07/01/2026

Date Issued: 07/01/2026

Report Type: Version 01

This report supersedes any versions previously issued by the laboratory



Reported by Customer Service Co-Ordinator
Julie Dickinson
01283 204 384
Julie.Dickinson@socotec.co.uk



Project Number: 25122978

Client: Silkstone Environmental Ltd

Date Issued: 07/01/2026

Project Name: Scheduled Samples 12-2025 - Ten Yards Lane

Samples Analysed

<u>Text ID</u>	<u>Sample Reference</u>	<u>Sampling Date</u>	<u>Sample Type</u>	<u>Sample Description</u>
25122978-001	BH1	16/12/2025 12:54:00	WATER	Ground Water
25122978-002	BH2	16/12/2025 13:26:00	WATER	Ground Water
25122978-003	BH3	16/12/2025 13:51:00	WATER	Ground Water

Analysis Results

		SOCOTEC Sample ID:		25122978-001	25122978-002	25122978-003
		Sampling Date:		16/12/2025 12:54	16/12/2025 13:26	16/12/2025 13:51
		Customer ID:		BH1	BH2	BH3
Method Code	Analysis	MDL	Accred.			
PHCONDW	pH	1 pH units	U	7.3	7.8	7.5
PHCONDW	Conductivity at 20°C	90 µS/cm	U	718	280	147
WSLM12	Total Alkalinity	2 mg/l	U	162	93.1	22.0
WSLM27	TDS as mg/L	5 mg/l	N	435	147	139
TOCW	Dissolved Organic Carbon	0.4 mg/l	U	1.36	1.14	1.05
KONENS	Nitrite as N	0.01 mg/l	U	0.02	0.01	0.01
KONENS	Ammoniacal Nitrogen as N	0.01 mg/l	U	<0.01	<0.01	<0.01
KONENS	Chloride as Cl	1 mg/l	U	109	13	6
ISEF	Fluoride as F	0.1 mg/l	U	0.3	0.2	0.1
ICPMSW (Dissolved)	Arsenic as As	0.001 mg/l	U	<0.001	<0.001	<0.001
ICPWATVAR (Dissolved)	Boron as B	0.01 mg/l	U	0.03	0.03	0.01
ICPMSW (Dissolved)	Cadmium as Cd	0.00002 mg/l	U	0.00005	<0.00002	<0.00002
ICPWATVAR (Dissolved)	Calcium as Ca	1 mg/l	U	74	32	14
ICPMSW (Dissolved)	Total Chromium as Cr	0.001 mg/l	U	<0.001	<0.001	<0.001
ICPMSW (Dissolved)	Copper as Cu	0.001 mg/l	U	<0.001	<0.001	<0.001
ICPWATVAR (Dissolved)	Iron as Fe	0.01 mg/l	U	<0.01	<0.01	<0.01
ICPMSW (Dissolved)	Lead as Pb	0.0002 mg/l	U	<0.0002	<0.0002	<0.0002
ICPWATVAR (Dissolved)	Magnesium as Mg	1 mg/l	U	14	13	5
ICPMSW (Dissolved)	Manganese as Mn	0.002 mg/l	U	<0.002	<0.002	0.004
ICPMSW (Dissolved)	Mercury as Hg	0.00003 mg/l	U	<0.00003	<0.00003	<0.00003
ICPMSW (Dissolved)	Nickel as Ni	0.001 mg/l	U	<0.001	<0.001	<0.001
ICPWATVAR (Dissolved)	Potassium as K	1 mg/l	U	2	<1	<1
ICPMSW (Dissolved)	Selenium as Se	0.001 mg/l	U	<0.001	<0.001	<0.001
ICPWATVAR (Dissolved)	Sodium as Na	1 mg/l	U	74	10	5
ICPWATVAR (Dissolved)	Total Sulphur as SO4	3 mg/l	U	81	26	17
ICPMSW (Dissolved)	Zinc as Zn	0.002 mg/l	U	<0.002	<0.002	<0.002
PAHMSW	Acenaphthene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Acenaphthylene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Anthracene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Benzo[a]anthracene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Benzo[a]pyrene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Benzo[b]fluoranthene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Benzo[g,h,i]perylene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Benzo[k]fluoranthene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Chrysene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Dibenzo[a,h]anthracene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Fluoranthene	0.01 µg/l	U	0.01	<0.01	<0.01
	Fluorene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Indeno[1,2,3-cd]pyrene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Naphthalene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Phenanthrene	0.01 µg/l	U	0.04	<0.01	<0.01
	Pyrene	0.01 µg/l	U	0.02	<0.01	<0.01
	Total PAH 16	0.16 µg/l	U	0.20	<0.16	<0.16
SVOCSW	1,2,4-Trichlorobenzene	0.005 mg/l	N	<0.100	<0.100	<0.100
	1,2-Dichlorobenzene	0.005 mg/l	N	<0.100	<0.100	<0.100
	1,3-Dichlorobenzene	0.005 mg/l	N	<0.100	<0.100	<0.100
	1,4-Dichlorobenzene	0.005 mg/l	N	<0.100	<0.100	<0.100
	1-Methylnaphthalene	0.002 mg/l	N	<0.040	<0.040	<0.040
	2,4,5-Trichlorophenol	0.02 mg/l	N	<0.400	<0.400	<0.400
	2,4,6-Trichlorophenol	0.02 mg/l	N	<0.400	<0.400	<0.400
	2,4-Dichlorophenol	0.02 mg/l	N	<0.400	<0.400	<0.400
	2,4-Dimethylphenol	0.02 mg/l	N	<0.400	<0.400	<0.400
	2,4-Dinitrophenol	0.01 mg/l	N	<0.200	<0.200	<0.200
	2,4-Dinitrotoluene	0.005 mg/l	N	<0.100	<0.100	<0.100
	2,6-Dinitrotoluene	0.005 mg/l	N	<0.100	<0.100	<0.100
	2-Chloronaphthalene	0.002 mg/l	N	<0.040	<0.040	<0.040
	2-Chlorophenol	0.02 mg/l	N	<0.400	<0.400	<0.400
	2-Methylnaphthalene	0.002 mg/l	N	<0.040	<0.040	<0.040
	2-Methylphenol	0.005 mg/l	N	<0.100	<0.100	<0.100
	2-Nitroaniline	0.005 mg/l	N	<0.100	<0.100	<0.100
	2-Nitrophenol	0.02 mg/l	N	<0.400	<0.400	<0.400
	3- & 4-Methylphenol	0.02 mg/l	N	<0.400	<0.400	<0.400
	3-Nitroaniline	0.005 mg/l	N	<0.100	<0.100	<0.100
	4,6-Dinitro-2-methylphenol	0.05 mg/l	N	<1.00	<1.00	<1.00
	4-Bromophenyl-phenylether	0.005 mg/l	N	<0.100	<0.100	<0.100
	4-Chloro-3-methylphenol	0.005 mg/l	N	<0.100	<0.100	<0.100
	4-Chloroaniline	0.005 mg/l	N	<0.100	<0.100	<0.100
	4-Chlorophenol	0.02 mg/l	N	<0.400	<0.400	<0.400
	4-Chlorophenyl-phenylether	0.005 mg/l	N	<0.100	<0.100	<0.100
	4-Nitroaniline	0.005 mg/l	N	<0.100	<0.100	<0.100
	4-Nitrophenol	0.05 mg/l	N	<1.00	<1.00	<1.00
	Acenaphthene	0.002 mg/l	N	<0.040	<0.040	<0.040
	Acenaphthylene	0.002 mg/l	N	<0.040	<0.040	<0.040
	Anthracene	0.002 mg/l	N	<0.040	<0.040	<0.040
	Azobenzene	0.01 mg/l	N	<0.200	<0.200	<0.200
	Benzo[a]anthracene	0.002 mg/l	N	<0.040	<0.040	<0.040
	Benzo[a]pyrene	0.002 mg/l	N	<0.040	<0.040	<0.040
	Benzo[b]fluoranthene	0.002 mg/l	N	<0.040	<0.040	<0.040
	Benzo[g,h,i]perylene	0.002 mg/l	N	<0.040	<0.040	<0.040

Analysis Results

				SOCOTEC Sample ID:		25122978-001	25122978-002	25122978-003
				Sampling Date:		16/12/2025 12:54	16/12/2025 13:26	16/12/2025 13:51
				Customer ID:				
Method Code		Analysis		MDL	Accred.	BH1	BH2	BH3
SVOCSW	Benzo[k]fluoranthene		0.002 mg/l	N		<0.040 ◌	<0.040 ◌	<0.040 ◌
	Benzoic Acid		0.1 mg/l	N		<2.00 ◌	<2.00 ◌	<2.00 ◌
	Benzyl alcohol		0.005 mg/l	N		<0.100 ◌	<0.100 ◌	<0.100 ◌
	Biphenyl		0.002 mg/l	N		<0.040 ◌	<0.040 ◌	<0.040 ◌
	bis(2-Chloroethoxy)methane		0.005 mg/l	N		<0.100 ◌	<0.100 ◌	<0.100 ◌
	bis(2-Chloroethyl)ether		0.005 mg/l	N		<0.100 ◌	<0.100 ◌	<0.100 ◌
	bis(2-Chloroisopropyl)ether		0.005 mg/l	N		<0.100 ◌	<0.100 ◌	<0.100 ◌
	bis(2-Ethylhexyl)phthalate		0.005 mg/l	N		<0.100 ◌	<0.100 ◌	<0.100 ◌
	Butylbenzylphthalate		0.005 mg/l	N		<0.100 ◌	<0.100 ◌	<0.100 ◌
	Carbazole		0.01 mg/l	N		<0.200 ◌	<0.200 ◌	<0.200 ◌
	Chrysene		0.002 mg/l	N		<0.040 ◌	<0.040 ◌	<0.040 ◌
	Coronene		0.05 mg/l	N		<1.00 ◌	<1.00 ◌	<1.00 ◌
	Dibenzo[a,h]anthracene		0.002 mg/l	N		<0.040 ◌	<0.040 ◌	<0.040 ◌
	Dibenzofuran		0.005 mg/l	N		<0.100 ◌	<0.100 ◌	<0.100 ◌
	Diethylphthalate		0.005 mg/l	N		<0.100 ◌	<0.100 ◌	<0.100 ◌
	Dimethylphthalate		0.005 mg/l	N		<0.100 ◌	<0.100 ◌	<0.100 ◌
	Di-n-butylphthalate		0.005 mg/l	N		<0.100 ◌	<0.100 ◌	<0.100 ◌
	Di-n-octylphthalate		0.002 mg/l	N		<0.040 ◌	<0.040 ◌	<0.040 ◌
	Diphenyl ether		0.002 mg/l	N		<0.040 ◌	<0.040 ◌	<0.040 ◌
	Fluoranthene		0.002 mg/l	N		<0.040 ◌	<0.040 ◌	<0.040 ◌
	Fluorene		0.002 mg/l	N		<0.040 ◌	<0.040 ◌	<0.040 ◌
	Hexachlorobenzene		0.005 mg/l	N		<0.100 ◌	<0.100 ◌	<0.100 ◌
	Hexachlorobutadiene		0.005 mg/l	N		<0.100 ◌	<0.100 ◌	<0.100 ◌
	Hexachlorocyclopentadiene		0.005 mg/l	N		<0.100 ◌	<0.100 ◌	<0.100 ◌
	Hexachloroethane		0.005 mg/l	N		<0.100 ◌	<0.100 ◌	<0.100 ◌
	Indeno[1,2,3-cd]pyrene		0.002 mg/l	N		<0.040 ◌	<0.040 ◌	<0.040 ◌
	Isophorone		0.005 mg/l	N		<0.100 ◌	<0.100 ◌	<0.100 ◌
	Naphthalene		0.002 mg/l	N		<0.040 ◌	<0.040 ◌	<0.040 ◌
	Nitrobenzene		0.005 mg/l	N		<0.100 ◌	<0.100 ◌	<0.100 ◌
	N-Nitroso-di-n-propylamine		0.005 mg/l	N		<0.100 ◌	<0.100 ◌	<0.100 ◌
	N-Nitrosodiphenylamine		0.005 mg/l	N		<0.100 ◌	<0.100 ◌	<0.100 ◌
	Pentachlorophenol		0.05 mg/l	N		<1.00 ◌	<1.00 ◌	<1.00 ◌
	Phenanthrene		0.002 mg/l	N		<0.040 ◌	<0.040 ◌	<0.040 ◌
	Phenol		0.02 mg/l	N		<0.400 ◌	<0.400 ◌	<0.400 ◌
	Pyrene		0.002 mg/l	N		<0.040 ◌	<0.040 ◌	<0.040 ◌
VOCHSAW	1,1,1,2-Tetrachloroethane		1 µg/l	U		<1	<1	<1
	1,1,1-Trichloroethane		1 µg/l	U		<1	<1	<1
	1,1,2,2-Tetrachloroethane		1 µg/l	N		<1	<1	<1
	1,1,2-Trichloroethane		1 µg/l	U		<1	<1	<1
	1,1-Dichloroethane		1 µg/l	U		<1	<1	<1
	1,1-Dichloroethene		1 µg/l	U		<1	<1	<1
	1,1-Dichloropropene		1 µg/l	U		<1	<1	<1
	1,2,3-Trichlorobenzene		5 µg/l	U		<5	<5	<5
	1,2,3-Trichloropropane		1 µg/l	U		<1	<1	<1
	1,2,4-Trichlorobenzene		5 µg/l	U		<5	<5	<5
	1,2,4-Trimethylbenzene		1 µg/l	U		<1	<1	<1
	1,2-Dibromo-3-chloropropane		5 µg/l	U		<5	<5	<5
	1,2-Dibromoethane		1 µg/l	U		<1	<1	<1
	1,2-Dichlorobenzene		5 µg/l	U		<5	<5	<5
	1,2-Dichloroethane		1 µg/l	U		<1	<1	<1
	1,2-Dichloropropane		1 µg/l	U		<1	<1	<1
	1,3,5-Trimethylbenzene		0.6 µg/l	U		<0.6	<0.6	<0.6
	1,3-Dichlorobenzene		1 µg/l	U		<1	<1	<1
	1,3-Dichloropropane		1 µg/l	N		<1	<1	<1
	1,4-Dichlorobenzene		1 µg/l	U		<1	<1	<1
	2,2-Dichloropropane		1 µg/l	N		<1	<1	<1
	2-Chlorotoluene		1 µg/l	U		<1	<1	<1
	4-Chlorotoluene		1 µg/l	U		<1	<1	<1
	Benzene		1 µg/l	U		<1	<1	<1
	Bromobenzene		1 µg/l	U		<1	<1	<1
	Bromochloromethane		1 µg/l	U		<1	<1	<1
	Bromodichloromethane		1 µg/l	U		<1	<1	<1
	Bromoform		1 µg/l	U		<1	<1	<1
	Bromomethane		5 µg/l	N		<5	<5	<5
	Carbon Tetrachloride		1 µg/l	U		<1	<1	<1
	Chlorobenzene		1 µg/l	U		<1	<1	<1
	Chloroethane		5 µg/l	U		<5	<5	<5
	Chloroform		5 µg/l	U		<5	<5	<5
	Chloromethane		1 µg/l	U		<1	<1	<1
	cis 1,2-Dichloroethene		1 µg/l	U		<1	<1	<1
cis 1,3-Dichloropropene		1 µg/l	N		<1	<1	<1	
Dibromochloromethane		1 µg/l	U		<1	<1	<1	
Dibromomethane		1 µg/l	U		<1	<1	<1	
Dichlorodifluoromethane		1 µg/l	N		<1	<1	<1	
Ethylbenzene		0.5 µg/l	U		<0.5	<0.5	<0.5	
Hexachlorobutadiene		5 µg/l	U		<5	<5	<5	
iso-Propylbenzene		1 µg/l	U		<1	<1	<1	
m and p-Xylene		1 µg/l	U		<1	<1	<1	
MTBE		1 µg/l	N		<1	<1	<1	

Analysis Results

		SOCOTEC Sample ID:		25122978-001	25122978-002	25122978-003
		Sampling Date:		16/12/2025 12:54	16/12/2025 13:26	16/12/2025 13:51
		Customer ID:		BH1	BH2	BH3
Method Code	Analysis	MDL	Accred.			
VOCHSAW	Naphthalene	5 µg/l	U	<5	<5	<5
	n-Butylbenzene	1 µg/l	U	<1	<1	<1
	o-Xylene	1 µg/l	U	<1	<1	<1
	p-Isopropyltoluene	1 µg/l	U	<1	<1	<1
	Propylbenzene	1 µg/l	U	<1	<1	<1
	sec-Butylbenzene	1 µg/l	U	<1	<1	<1
	Styrene	1 µg/l	U	<1	<1	<1
	tert-Butylbenzene	1 µg/l	U	<1	<1	<1
	Tetrachloroethene	5 µg/l	U	<5	<5	<5
	Toluene	1 µg/l	U	<1	<1	<1
	trans 1,2-Dichloroethene	1 µg/l	U	<1	<1	<1
	trans 1,3-Dichloropropene	1 µg/l	U	<1	<1	<1
	Trichloroethene	5 µg/l	U	<5	<5	<5
	Trichlorofluoromethane	1 µg/l	U	<1	<1	<1
	Vinyl Chloride	1 µg/l	U	<1	<1	<1



Project Number: 25122978

Client: Silkstone Environmental Ltd

Date Issued: 07/01/2026

Project Name: Scheduled Samples 12-2025 - Ten Yards Lane

Deviating Sample Report

Sample Reference	Text ID	Method Code	Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time
BH2	25122978-002	PAHMSW						✓
BH2	25122978-002	PHCONDW						✓
BH3	25122978-003	PAHMSW						✓
BH3	25122978-003	PHCONDW						✓

Analysis Method

Method Code

ICPMSW (Dissolved)
ICPMSW (Dissolved)
ICPMSW (Dissolved)
ICPMSW (Dissolved)
ICPMSW (Dissolved)
ICPMSW (Dissolved)
ICPMSW (Dissolved)
ICPMSW (Dissolved)
ICPMSW (Dissolved)
ICPMSW (Dissolved)
ICPMSW (Dissolved)
ICPWATVAR (Dissolved)
ICPWATVAR (Dissolved)
ICPWATVAR (Dissolved)
ICPWATVAR (Dissolved)
ICPWATVAR (Dissolved)
ICPWATVAR (Dissolved)
ICPWATVAR (Dissolved)
ISEF
KONENS
KONENS
KONENS
PAHMSW
PHCONDW
PHCONDW
SVOCsW
TOCW
VOCHSAW
WSLM12
WSLM27

Method Description

Arsenic (Diss.) in Water by ICPMS
Cadmium (Diss.) in Water by ICPMS
Chromium (Diss.) in Water by ICPMS
Copper (Diss.) in Water by ICPMS
Lead (Diss.) in Water by ICPMS
Manganese (Diss.) in Water by ICPMS
Mercury (Diss.) in Water by ICPMS
Nickel (Diss.) in Water by ICPMS
Selenium (Diss.) in Water by ICPMS
Zinc (Diss.) in Water by ICPMS
Boron (Diss.) in Water by ICPOES
Calcium (Diss.) in Water by ICPOES
Iron (Diss.) in Water by ICPOES
Magnesium (Diss.) in Water by ICPOES
Potassium (Diss.) in Water by ICPOES
Sodium (Diss.) in Water by ICPOES
Total Sulphur as SO₄ (Diss.) in Water
Fluoride by ISE
Ammoniacal Nitrogen as N
Chloride by Colorimetry
Nitrite as N by Colorimetry
16 PAHs by GCMS
Electrical Conductivity @ 20°C
pH
SVOCs (Target List) by GCMS
DOC: Dissolved Organic Carbon
VOCs (Target List) by GCMS
Total Alkalinity as CaCO₃
TDS: Total Dissolved Solids

Analysis Method

Filtered
Filtered
Filtered
Filtered
Filtered
Filtered
Filtered
Filtered
Filtered
Filtered
Filtered
Filtered
Filtered
Filtered
Filtered
Filtered
Filtered
Filtered
Unfiltered
Filtered
Filtered
Filtered
Unfiltered
Unfiltered
Unfiltered
Unfiltered
Filtered
Unfiltered
Unfiltered
Filtered



Project Number: [25122978](#)

Client: Silkstone Environmental Ltd

Date Issued: 07/01/2026

Project Name: Scheduled Samples 12-2025 - Ten Yards Lane

[Result Report Notes](#)

Letters alongside results signify that the result has associated report notes.

The report notes are as follows:

[Letter](#)

[Note](#)

- | | |
|---|--|
| A | Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data. |
| B | The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised. |
| C | Due to matrix interference, the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data. |
| D | A non-standard volume or mass has been used for this test which has resulted in a raised detection limit. |
| E | Due to the parameter value being beyond our calibration range (and following the maximum size of dilution allowed, where applicable), the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only. |
| F | Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only. |
| G | The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only. |

[HWOL Acronym Key](#)

[Acronym](#)

[Description](#)

HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e everything extracted by the solvent(s)
CU	Clean up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
+	Operator to indicate cumulative e.g. EH_CU+HS_1D_Total

[SVOCSW - N-Nitrosodiphenylamine](#)

N-Nitrosodiphenylamine decomposes in the GC inlet and cannot be separated from diphenylamine. For this reason we will report a combined result for N-Nitrosodiphenylamine and Diphenylamine.



Project Number: [25122978](#)

Client: Silkstone Environmental Ltd

Date Issued: 07/01/2026

Project Name: Scheduled Samples 12-2025 - Ten Yards Lane

Additional Information

This report refers to samples as received. SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

The accreditation codes are as follows:

U = UKAS accredited analysis
M = MCERT accredited analysis
N = Unaccredited analysis

Any accreditation marked with ^ signify results are reported on a dry weight basis of 105 ° c.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35 ° c.

This report shall not be reproduced except in full, without written approval of the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any results marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

IS = Insufficient Sample to complete analysis
NA = Sample is not amenable for the required analysis
ND = Results cannot be determined

Items listed with a 'SUB' method code prefix have been carried out by another SOCOTEC department or by an external subcontracted laboratory. Further information is available upon request.

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the subcontracted lab for information regarding any deviancies for this analysis.

Summaries of analysis methods are available upon request.

End of Certificate of Analysis

Certificate of Analysis

Client: Silkstone Environmental Ltd

Project: 26013437

Quote: BEC251143671 V1.1

Project Ref: Scheduled Samples 01-2026

Site: Ten Yards Lane

Contact: Richard Drown

Address: 7 Hall Annex
Thornccliffe Park
Chapelton
Sheffield
S35 2PH

E-Mail: rdrown@silkstoneenvironmental.co.uk

Phone: 0114 257 3433

No. Samples Received: 3

Date Received: 28/01/2026

Analysis Completed: 16/02/2026

Date Issued: 16/02/2026

Report Type: Version 01

This report supersedes any versions previously issued by the laboratory



Reported by Customer Service Co-Ordinator
Julie Dickinson
01283 204 384
Julie.Dickinson@socotec.co.uk



Project Number: 26013437

Client: Silkstone Environmental Ltd
Date Issued: 16/02/2026
Project Name: Scheduled Samples 01-2026 - Ten Yards Lane

Samples Analysed

<u>Text ID</u>	<u>Sample Reference</u>	<u>Sampling Date</u>	<u>Sample Type</u>	<u>Sample Description</u>
26013437-001	BH1	26/01/2026 13:25:00	WATER	Ground Water
26013437-002	BH2	26/01/2026 14:00:00	WATER	Ground Water
26013437-003	BH3	26/01/2026 14:25:00	WATER	Ground Water

Analysis Results

		SOCOTEC Sample ID:		26013437-001	26013437-002	26013437-003
		Sampling Date:		26/01/2026 13:25	26/01/2026 14:00	26/01/2026 14:25
		Customer ID:		BH1	BH2	BH3
Method Code	Analysis	MDL	Accred.			
PHCONDW	pH	1 pH units	U	7.3	7.3	7.2
PHCONDW	Conductivity at 20°C	90 µS/cm	U	640	273	185
WSLM12	Total Alkalinity	2 mg/l	U	170	92.4	26.2
WSLM27	TDS as mg/L	5 mg/l	N	399	203	110
TOCW	Dissolved Organic Carbon	0.4 mg/l	U	1.58	1.21	0.98
KONENS	Nitrite as N	0.01 mg/l	U	0.01	<0.01	<0.01
KONENS	Ammoniacal Nitrogen as N	0.01 mg/l	U	<0.01	<0.01	<0.01
KONENS	Chloride as Cl	1 mg/l	U	87	16	7
ISEF	Fluoride as F	0.1 mg/l	U	0.1	<0.1	<0.1
ICPMSW (Dissolved)	Arsenic as As	0.001 mg/l	U	<0.001	<0.001	<0.001
ICPWATVAR (Dissolved)	Boron as B	0.01 mg/l	U	0.02	0.02	0.01
ICPMSW (Dissolved)	Cadmium as Cd	0.0002 mg/l	U	0.00020	0.00003	<0.00002
ICPWATVAR (Dissolved)	Calcium as Ca	1 mg/l	U	71	31	19
ICPMSW (Dissolved)	Total Chromium as Cr	0.001 mg/l	U	<0.001	<0.001	<0.001
ICPMSW (Dissolved)	Copper as Cu	0.001 mg/l	U	<0.001	<0.001	<0.001
ICPWATVAR (Dissolved)	Iron as Fe	0.01 mg/l	U	<0.01	<0.01	<0.01
ICPMSW (Dissolved)	Lead as Pb	0.0002 mg/l	U	<0.0002	<0.0002	<0.0002
ICPWATVAR (Dissolved)	Magnesium as Mg	1 mg/l	U	13	13	8
ICPMSW (Dissolved)	Manganese as Mn	0.002 mg/l	U	0.223	0.003	0.002
ICPMSW (Dissolved)	Mercury as Hg	0.00003 mg/l	U	<0.00003	<0.00003	<0.00003
ICPMSW (Dissolved)	Nickel as Ni	0.001 mg/l	U	0.001	<0.001	<0.001
ICPWATVAR (Dissolved)	Potassium as K	1 mg/l	U	1	<1	<1
ICPMSW (Dissolved)	Selenium as Se	0.001 mg/l	U	<0.001	<0.001	<0.001
ICPWATVAR (Dissolved)	Sodium as Na	1 mg/l	U	60	10	5
ICPWATVAR (Dissolved)	Total Sulphur as SO4	3 mg/l	U	69	25	19
ICPMSW (Dissolved)	Zinc as Zn	0.002 mg/l	U	0.005	0.003	0.005
PAHMSW	Acenaphthene	0.01 µg/l	U	0.01	<0.01	<0.01
	Acenaphthylene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Anthracene	0.01 µg/l	U	<0.01	<0.01	<0.01
	Benzo[a]anthracene	0.01 µg/l	U	0.03	<0.01	0.01
	Benzo[a]pyrene	0.01 µg/l	U	0.07	0.01	0.02
	Benzo[b]fluoranthene	0.01 µg/l	U	0.08	0.02	0.04
	Benzo[g,h,i]perylene	0.01 µg/l	U	0.05	0.01	0.02
	Benzo[k]fluoranthene	0.01 µg/l	U	0.03	<0.01	0.01
	Chrysene	0.01 µg/l	U	0.04	0.01	0.02
	Dibenzo[a,h]anthracene	0.01 µg/l	U	0.01	<0.01	<0.01
	Fluoranthene	0.01 µg/l	U	0.10	0.02	0.04
	Fluorene	0.01 µg/l	U	0.03	<0.01	<0.01
	Indeno[1,2,3-cd]pyrene	0.01 µg/l	U	0.04	<0.01	0.01
	Naphthalene	0.01 µg/l	U	0.05	0.03	0.01
	Phenanthrene	0.01 µg/l	U	0.28	0.04	0.03
	Pyrene	0.01 µg/l	U	0.12	0.03	0.05
	Total PAH 16	0.16 µg/l	U	0.98	0.26	0.31
SVOCSW	1,2,4-Trichlorobenzene	0.005 mg/l	N	<0.100	<0.100	<0.100
	1,2-Dichlorobenzene	0.005 mg/l	N	<0.100	<0.100	<0.100
	1,3-Dichlorobenzene	0.005 mg/l	N	<0.100	<0.100	<0.100
	1,4-Dichlorobenzene	0.005 mg/l	N	<0.100	<0.100	<0.100
	1-Methylnaphthalene	0.002 mg/l	N	<0.040	<0.040	<0.040
	2,4,5-Trichlorophenol	0.02 mg/l	N	<0.400	<0.400	<0.400
	2,4,6-Trichlorophenol	0.02 mg/l	N	<0.400	<0.400	<0.400
	2,4-Dichlorophenol	0.02 mg/l	N	<0.400	<0.400	<0.400
	2,4-Dimethylphenol	0.02 mg/l	N	<0.400	<0.400	<0.400
	2,4-Dinitrophenol	0.01 mg/l	N	<0.200	<0.200	<0.200
	2,4-Dinitrotoluene	0.005 mg/l	N	<0.100	<0.100	<0.100
	2,6-Dinitrotoluene	0.005 mg/l	N	<0.100	<0.100	<0.100
	2-Chloronaphthalene	0.002 mg/l	N	<0.040	<0.040	<0.040
	2-Chlorophenol	0.02 mg/l	N	<0.400	<0.400	<0.400
	2-Methylnaphthalene	0.002 mg/l	N	<0.040	<0.040	<0.040
	2-Methylphenol	0.005 mg/l	N	<0.100	<0.100	<0.100
	2-Nitroaniline	0.005 mg/l	N	<0.100	<0.100	<0.100
	2-Nitrophenol	0.02 mg/l	N	<0.400	<0.400	<0.400
	3- & 4-Methylphenol	0.02 mg/l	N	<0.400	<0.400	<0.400
	3-Nitroaniline	0.005 mg/l	N	<0.100	<0.100	<0.100
	4,6-Dinitro-2-methylphenol	0.05 mg/l	N	<1.00	<1.00	<1.00
	4-Bromophenyl-phenylether	0.005 mg/l	N	<0.100	<0.100	<0.100
	4-Chloro-3-methylphenol	0.005 mg/l	N	<0.100	<0.100	<0.100
	4-Chloroaniline	0.005 mg/l	N	<0.100	<0.100	<0.100
	4-Chlorophenol	0.02 mg/l	N	<0.400	<0.400	<0.400
	4-Chlorophenyl-phenylether	0.005 mg/l	N	<0.100	<0.100	<0.100
	4-Nitroaniline	0.005 mg/l	N	<0.100	<0.100	<0.100
	4-Nitrophenol	0.05 mg/l	N	<1.00	<1.00	<1.00
	Acenaphthene	0.002 mg/l	N	<0.040	<0.040	<0.040
	Acenaphthylene	0.002 mg/l	N	<0.040	<0.040	<0.040
	Anthracene	0.002 mg/l	N	<0.040	<0.040	<0.040
	Azobenzene	0.01 mg/l	N	<0.200	<0.200	<0.200
	Benzo[a]anthracene	0.002 mg/l	N	<0.040	<0.040	<0.040
	Benzo[a]pyrene	0.002 mg/l	N	<0.040	<0.040	<0.040
	Benzo[b]fluoranthene	0.002 mg/l	N	<0.040	<0.040	<0.040
	Benzo[g,h,i]perylene	0.002 mg/l	N	<0.040	<0.040	<0.040

Analysis Results

SOCOTEC Sample ID:	26013437-001	26013437-002	26013437-003
Sampling Date:	26/01/2026 13:25	26/01/2026 14:00	26/01/2026 14:25
Customer ID:	BH1	BH2	BH3
Accred.			

Method Code	Analysis	MDL	Accred.	BH1	BH2	BH3
SVOCSW	Benzo[k]fluoranthene	0.002 mg/l	N	<0.040 ◻	<0.040 ◻	<0.040 ◻
	Benzoic Acid	0.1 mg/l	N	<2.00 ◻	<2.00 ◻	<2.00 ◻
	Benzyl alcohol	0.005 mg/l	N	<0.100 ◻	<0.100 ◻	<0.100 ◻
	Biphenyl	0.002 mg/l	N	<0.040 ◻	<0.040 ◻	<0.040 ◻
	bis(2-Chloroethoxy)methane	0.005 mg/l	N	<0.100 ◻	<0.100 ◻	<0.100 ◻
	bis(2-Chloroethyl)ether	0.005 mg/l	N	<0.100 ◻	<0.100 ◻	<0.100 ◻
	bis(2-Chloroisopropyl)ether	0.005 mg/l	N	<0.100 ◻	<0.100 ◻	<0.100 ◻
	bis(2-Ethylhexyl)phthalate	0.005 mg/l	N	<0.100 ◻	<0.100 ◻	<0.100 ◻
	Butylbenzylphthalate	0.005 mg/l	N	<0.100 ◻	<0.100 ◻	<0.100 ◻
	Carbazole	0.01 mg/l	N	<0.200 ◻	<0.200 ◻	<0.200 ◻
	Chrysene	0.002 mg/l	N	<0.040 ◻	<0.040 ◻	<0.040 ◻
	Coronene	0.05 mg/l	N	<1.00 ◻	<1.00 ◻	<1.00 ◻
	Dibenzo[a,h]anthracene	0.002 mg/l	N	<0.040 ◻	<0.040 ◻	<0.040 ◻
	Dibenzofuran	0.005 mg/l	N	<0.100 ◻	<0.100 ◻	<0.100 ◻
	Diethylphthalate	0.005 mg/l	N	<0.100 ◻	<0.100 ◻	<0.100 ◻
	Dimethylphthalate	0.005 mg/l	N	<0.100 ◻	<0.100 ◻	<0.100 ◻
	Di-n-butylphthalate	0.005 mg/l	N	<0.100 ◻	<0.100 ◻	<0.100 ◻
	Di-n-octylphthalate	0.002 mg/l	N	<0.040 ◻	<0.040 ◻	<0.040 ◻
	Diphenyl ether	0.002 mg/l	N	<0.040 ◻	<0.040 ◻	<0.040 ◻
	Fluoranthene	0.002 mg/l	N	<0.040 ◻	<0.040 ◻	<0.040 ◻
	Fluorene	0.002 mg/l	N	<0.040 ◻	<0.040 ◻	<0.040 ◻
	Hexachlorobenzene	0.005 mg/l	N	<0.100 ◻	<0.100 ◻	<0.100 ◻
	Hexachlorobutadiene	0.005 mg/l	N	<0.100 ◻	<0.100 ◻	<0.100 ◻
	Hexachlorocyclopentadiene	0.005 mg/l	N	<0.100 ◻	<0.100 ◻	<0.100 ◻
	Hexachloroethane	0.005 mg/l	N	<0.100 ◻	<0.100 ◻	<0.100 ◻
	Indeno[1,2,3-cd]pyrene	0.002 mg/l	N	<0.040 ◻	<0.040 ◻	<0.040 ◻
	Isophorone	0.005 mg/l	N	<0.100 ◻	<0.100 ◻	<0.100 ◻
	Naphthalene	0.002 mg/l	N	<0.040 ◻	<0.040 ◻	<0.040 ◻
	Nitrobenzene	0.005 mg/l	N	<0.100 ◻	<0.100 ◻	<0.100 ◻
	N-Nitroso-di-n-propylamine	0.005 mg/l	N	<0.100 ◻	<0.100 ◻	<0.100 ◻
	N-Nitrosodiphenylamine	0.005 mg/l	N	<0.100 ◻	<0.100 ◻	<0.100 ◻
	Pentachlorophenol	0.05 mg/l	N	<1.00 ◻	<1.00 ◻	<1.00 ◻
	Phenanthrene	0.002 mg/l	N	<0.040 ◻	<0.040 ◻	<0.040 ◻
	Phenol	0.02 mg/l	N	<0.400 ◻	<0.400 ◻	<0.400 ◻
	Pyrene	0.002 mg/l	N	<0.040 ◻	<0.040 ◻	<0.040 ◻
VOCHSAW	1,1,1,2-Tetrachloroethane	1 µg/l	U	<1	<1	<1
	1,1,1-Trichloroethane	1 µg/l	U	<1	<1	<1
	1,1,2,2-Tetrachloroethane	1 µg/l	N	<1	<1	<1
	1,1,2-Trichloroethane	1 µg/l	U	<1	<1	<1
	1,1-Dichloroethane	1 µg/l	U	<1	<1	<1
	1,1-Dichloroethene	1 µg/l	U	<1	<1	<1
	1,1-Dichloropropene	1 µg/l	U	<1	<1	<1
	1,2,3-Trichlorobenzene	5 µg/l	U	<5	<5	<5
	1,2,3-Trichloropropane	1 µg/l	U	<1	<1	<1
	1,2,4-Trichlorobenzene	5 µg/l	U	<5	<5	<5
	1,2,4-Trimethylbenzene	1 µg/l	U	<1	<1	<1
	1,2-Dibromo-3-chloropropane	5 µg/l	U	<5	<5	<5
	1,2-Dibromoethane	1 µg/l	U	<1	<1	<1
	1,2-Dichlorobenzene	5 µg/l	U	<5	<5	<5
	1,2-Dichloroethane	1 µg/l	U	<1	<1	<1
	1,2-Dichloropropane	1 µg/l	U	<1	<1	<1
	1,3,5-Trimethylbenzene	0.6 µg/l	U	<0.6	<0.6	<0.6
	1,3-Dichlorobenzene	1 µg/l	U	<1	<1	<1
	1,3-Dichloropropane	1 µg/l	N	<1	<1	<1
	1,4-Dichlorobenzene	1 µg/l	U	<1	<1	<1
	2,2-Dichloropropane	1 µg/l	N	<1	<1	<1
	2-Chlorotoluene	1 µg/l	U	<1	<1	<1
	4-Chlorotoluene	1 µg/l	U	<1	<1	<1
	Benzene	1 µg/l	U	<1	<1	<1
	Bromobenzene	1 µg/l	U	<1	<1	<1
	Bromochloromethane	1 µg/l	U	<1	<1	<1
	Bromodichloromethane	1 µg/l	U	<1	<1	<1
	Bromoform	1 µg/l	U	<1	<1	<1
	Bromomethane	5 µg/l	N	<5	<5	<5
	Carbon Tetrachloride	1 µg/l	U	<1	<1	<1
	Chlorobenzene	1 µg/l	U	<1	<1	<1
	Chloroethane	5 µg/l	U	<5	<5	<5
	Chloroform	5 µg/l	U	<5	<5	<5
	Chloromethane	1 µg/l	U	<1	<1	<1
	cis 1,2-Dichloroethene	1 µg/l	U	<1	<1	<1
	cis 1,3-Dichloropropene	1 µg/l	N	<1	<1	<1
	Dibromochloromethane	1 µg/l	U	<1	<1	<1
	Dibromomethane	1 µg/l	U	<1	<1	<1
	Dichlorodifluoromethane	1 µg/l	N	<1	<1	<1
	Ethylbenzene	0.5 µg/l	U	<0.5	<0.5	<0.5
	Hexachlorobutadiene	5 µg/l	U	<5	<5	<5
	iso-Propylbenzene	1 µg/l	U	<1	<1	<1
	m and p-Xylene	1 µg/l	U	<1	<1	<1
	MTBE	1 µg/l	N	<1	<1	<1

Analysis Results

		SOCOTEC Sample ID:		26013437-001	26013437-002	26013437-003
		Sampling Date:		26/01/2026 13:25	26/01/2026 14:00	26/01/2026 14:25
		Customer ID:		BH1	BH2	BH3
Method Code	Analysis	MDL	Accred.			
VOCHSAW	Naphthalene	5 µg/l	U	<5	<5	<5
	n-Butylbenzene	1 µg/l	U	<1	<1	<1
	o-Xylene	1 µg/l	U	<1	<1	<1
	p-Isopropyltoluene	1 µg/l	U	<1	<1	<1
	Propylbenzene	1 µg/l	U	<1	<1	<1
	sec-Butylbenzene	1 µg/l	U	<1	<1	<1
	Styrene	1 µg/l	U	<1	<1	<1
	tert-Butylbenzene	1 µg/l	U	<1	<1	<1
	Tetrachloroethene	5 µg/l	U	<5	<5	<5
	Toluene	1 µg/l	U	<1	<1	<1
	trans 1,2-Dichloroethene	1 µg/l	U	<1	<1	<1
	trans 1,3-Dichloropropene	1 µg/l	U	<1	<1	<1
	Trichloroethene	5 µg/l	U	<5	<5	<5
	Trichlorofluoromethane	1 µg/l	U	<1	<1	<1
	Vinyl Chloride	1 µg/l	U	<1	<1	<1

Deviating Sample Report

			Inadequate Transit Cooling	Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time
Sample Reference	Text ID	Method Code							
BH1	26013437-001	PHCONDW							✓
BH2	26013437-002	PHCONDW							✓
BH3	26013437-003	PHCONDW							✓

Analysis Method

<u>Method Code</u>	<u>Method Description</u>	<u>Analysis Method</u>
ICPMSW (Dissolved)	Arsenic (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Cadmium (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Chromium (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Copper (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Lead (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Manganese (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Mercury (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Nickel (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Selenium (Diss.) in Water by ICPMS	Filtered
ICPMSW (Dissolved)	Zinc (Diss.) in Water by ICPMS	Filtered
ICPWATVAR (Dissolved)	Boron (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Calcium (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Iron (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Magnesium (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Potassium (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Sodium (Diss.) in Water by ICPOES	Filtered
ICPWATVAR (Dissolved)	Total Sulphur as SO4 (Diss.) in Water	Filtered
ISEF	Fluoride by ISE	Unfiltered
KONENS	Ammoniacal Nitrogen as N	Filtered
KONENS	Chloride by Colorimetry	Filtered
KONENS	Nitrite as N by Colorimetry	Filtered
PAHMSW	16 PAHs by GCMS	Unfiltered
PHCONDW	Electrical Conductivity @ 20°C	Unfiltered
PHCONDW	pH	Unfiltered
SVOCSW	SVOCs (Target List) by GCMS	Unfiltered
TOCW	DOC: Dissolved Organic Carbon	Filtered
VOCHSAW	VOCs (Target List) by GCMS	Unfiltered
WSLM12	Total Alkalinity as CaCO3	Unfiltered
WSLM27	TDS: Total Dissolved Solids	Filtered



Project Number: 26013437

Client: Silkstone Environmental Ltd

Date Issued: 16/02/2026

Project Name: Scheduled Samples 01-2026 - Ten Yards Lane

Result Report Notes

Letters alongside results signify that the result has associated report notes.

The report notes are as follows:

Letter

Note

- | | |
|---|--|
| A | Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data. |
| B | The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised. |
| C | Due to matrix interference, the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data. |
| D | A non-standard volume or mass has been used for this test which has resulted in a raised detection limit. |
| E | Due to the parameter value being beyond our calibration range (and following the maximum size of dilution allowed, where applicable), the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only. |
| F | Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only. |
| G | The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only. |

HWOL Acronym Key

Acronym

Description

HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e everything extracted by the solvent(s)
CU	Clean up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
+	Operator to indicate cumulative e.g. EH_CU+HS_1D_Total

SVOCSW - N-Nitrosodiphenylamine

N-Nitrosodiphenylamine decomposes in the GC inlet and cannot be separated from diphenylamine. For this reason we will report a combined result for N-Nitrosodiphenylamine and Diphenylamine.



Project Number: [26013437](#)

Client: Silkstone Environmental Ltd

Date Issued: 16/02/2026

Project Name: Scheduled Samples 01-2026 - Ten Yards Lane

Additional Information

This report refers to samples as received. SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

The accreditation codes are as follows:

U = UKAS accredited analysis
M = MCERT accredited analysis
N = Unaccredited analysis

Any accreditation marked with ^ signify results are reported on a dry weight basis of 105 ° c.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35 ° c.

This report shall not be reproduced except in full, without written approval of the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any results marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

IS = Insufficient Sample to complete analysis
NA = Sample is not amenable for the required analysis
ND = Results cannot be determined

Items listed with a 'SUB' method code prefix have been carried out by another SOCOTEC department or by an external subcontracted laboratory. Further information is available upon request.

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the subcontracted lab for information regarding any deviancies for this analysis.

Summaries of analysis methods are available upon request.

End of Certificate of Analysis

Appendix D

LandSim configuration and results

Calculation Settings

Number of iterations: 1001
Results calculated using sampled PDFs
Full Calculation

Clay Liner:
Retarded values used for simulation
No Biodegradation

Unsaturated Pathway:
Retarded values used for simulation
No Biodegradation

Saturated Vertical Pathway:
No Vertical Pathway

Aquifer Pathway:
Retarded values used for simulation
No Biodegradation

Timeslices at: 30, 100, 300, 1000

Decline in Contaminant Concentration in Leachate

Cadmium	Non-Volatile
c (kg/l): 0.1589	m (kg/l): 0.0823
Lead	Non-Volatile
c (kg/l): 0.0171	m (kg/l): 0.0443
Sulphate	Non-Volatile
c (kg/l): 0.1209	m (kg/l): 0.0166

Background Concentrations of Contaminants

Justification for Contaminant Properties
Unjustified value

All units in milligrams per litre

Phase: Phase 1

Infiltration Information

Cap design infiltration (mm/year):	SINGLE(50)
Infiltration to waste (mm/year):	SINGLE(100)
End of filling (years from start of waste deposit):	10

Justification for Specified Infiltration
Unjustified value

Duration of management control (years from the start of waste disposal): 10

Cell dimensions

Cell width (m):	250
Cell length (m):	150
Cell top area (ha):	6
Cell base area (ha):	3.75
Number of cells:	1
Total base area (ha):	3.75
Total top area (ha):	6
Head of Leachate when surface water breakout occurs (m)	SINGLE(5)
Waste porosity (fraction)	TRIANGULAR(0.639,0.64,0.642)
Final waste thickness (m):	UNIFORM(5,20)
Field capacity (fraction):	TRIANGULAR(0.2,0.3,0.35)
Waste dry density (kg/l)	TRIANGULAR(1.58,1.59,1.6)

Justification for Landfill Geometry
Unjustified value

Source concentrations of contaminants

All units in milligrams per litre

Declining source term

Cadmium	SINGLE(0.004) Substance to be treated as List 1
Lead	SINGLE(0.05) Data are spot measurements of Leachate Quality
Sulphate	SINGLE(690) Data are spot measurements of Leachate Quality

Justification for Species Concentration in Leachate
Unjustified value

Drainage Information

Fixed Head.	
Head on EBS is given as (m):	SINGLE(0.1)

Justification for Specified Head
Unjustified value

Barrier Information

There is no barrier

Justification for Engineered Barrier Type
Unjustified value

Elland Flags pathway parameters

Modelled as unsaturated pathway

Pathway length (m): UNIFORM(9,20)

Flow Model: porous medium

Pathway moisture content (fraction): SINGLE(0.4)

Pathway Density (kg/l): SINGLE(1.6)

Justification for Unsat Zone Geometry

Unjustified value

Pathway hydraulic conductivity values (m/s): UNIFORM(4.6e-006,4.6e-005)

Justification for Unsat Zone Hydraulics Properties

Unjustified value

Pathway longitudinal dispersivity (m): SINGLE(0.3)

Justification for Unsat Zone Dispersion Properties

Unjustified value

Retardation parameters for Elland Flags pathway

Modelled as unsaturated pathway

Uncertainty in Kd (l/kg):

Cadmium SINGLE(1500)

Lead UNIFORM(27,270000)

Sulphate SINGLE(0)

Justification for Kd Values by Species

Unjustified value

Aquifer Pathway Dimensions for Phase

Pathway length (m): UNIFORM(160,360)

Pathway width (m): SINGLE(300)

pathway parameters

No Vertical Pathway

Elland Flags pathway parameters

Modelled as aquifer pathway.

Mixing zone (m): UNIFORM(2,9)

Justification for Aquifer Geometry

Unjustified value

Pathway regional gradient (-): SINGLE(0.01)

Pathway hydraulic conductivity values (m/s): SINGLE(4.6e-005)

Pathway porosity (fraction): SINGLE(0.25)

Justification for Aquifer Hydraulics Properties

Unjustified value

Pathway longitudinal dispersivity (m): SINGLE(30)

Pathway transverse dispersivity (m): SINGLE(3)

Justification for Aquifer Dispersion Details

Unjustified value

Retardation parameters for Elland Flags pathway

Modelled as aquifer pathway.

Uncertainty in Kd (l/kg):

Cadmium SINGLE(1.6)

Lead SINGLE(27)

Sulphate SINGLE(0)

Justification for Aquifer Kd Values by Species

Unjustified value

Pathway Density (kg/l): SINGLE(1.6)

Concentration of Cadmium in groundwater [mg/l]

At 30 years

- 01% of values less than 0
- 05% of values less than 0
- 10% of values less than 0
- 50% of values less than 0
- 90% of values less than 0
- 95% of values less than 0
- 99% of values less than 0

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 100 years

- 01% of values less than 0
- 05% of values less than 0
- 10% of values less than 0
- 50% of values less than 0
- 90% of values less than 0
- 95% of values less than 0
- 99% of values less than 0

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 300 years

- 01% of values less than 0
- 05% of values less than 0
- 10% of values less than 0
- 50% of values less than 0
- 90% of values less than 0
- 95% of values less than 0
- 99% of values less than 0

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1000 years

- 01% of values less than 0
- 05% of values less than 0
- 10% of values less than 0
- 50% of values less than 0
- 90% of values less than 0
- 95% of values less than 0
- 99% of values less than 0

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Concentration of Cadmium in groundwater [mg/l]

At infinity

- 01% of values less than 0
- 05% of values less than 0
- 10% of values less than 0
- 50% of values less than 0
- 90% of values less than 0
- 95% of values less than 0
- 99% of values less than 0

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Concentration of Lead in groundwater [mg/l]			
At 30 years			
01% of values less than 0			
05% of values less than 0			
10% of values less than 0			
50% of values less than 0			
90% of values less than 0			
95% of values less than 0			
99% of values less than 0			
Minimum 0	Maximum 0		
Mean 0	Std. Dev. 0	Variance 0	
At 100 years			
01% of values less than 0			
05% of values less than 0			
10% of values less than 0			
50% of values less than 0			
90% of values less than 0			
95% of values less than 0			
99% of values less than 0			
Minimum 0	Maximum 0		
Mean 0	Std. Dev. 0	Variance 0	
At 300 years			
01% of values less than 0			
05% of values less than 0			
10% of values less than 0			
50% of values less than 0			
90% of values less than 0			
95% of values less than 0			
99% of values less than 0			
Minimum 0	Maximum 0		
Mean 0	Std. Dev. 0	Variance 0	
At 1000 years			
01% of values less than 0			
05% of values less than 0			
10% of values less than 0			
50% of values less than 0			
90% of values less than 0			
95% of values less than 0			
99% of values less than 0			
Minimum 0	Maximum 0		
Mean 0	Std. Dev. 0	Variance 0	

Concentration of Lead in groundwater [mg/l]			
At infinity			
01% of values less than 0			
05% of values less than 0			
10% of values less than 0			
50% of values less than 0			
90% of values less than 0			
95% of values less than 0			
99% of values less than 0			
Minimum 0	Maximum 0		
Mean 0	Std. Dev. 0	Variance 0	

Concentration of Sulphate in groundwater [mg/l]

At 30 years

- 01% of values less than 0
- 05% of values less than 0
- 10% of values less than 0
- 50% of values less than 0
- 90% of values less than 0
- 95% of values less than 0
- 99% of values less than 0

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 100 years

- 01% of values less than 0
- 05% of values less than 0
- 10% of values less than 0
- 50% of values less than 0
- 90% of values less than 0
- 95% of values less than 0
- 99% of values less than 0

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 300 years

- 01% of values less than 0
- 05% of values less than 0
- 10% of values less than 0
- 50% of values less than 0
- 90% of values less than 0
- 95% of values less than 0
- 99% of values less than 0

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1000 years

- 01% of values less than 0
- 05% of values less than 0
- 10% of values less than 0
- 50% of values less than 0
- 90% of values less than 0
- 95% of values less than 0
- 99% of values less than 0

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Concentration of Sulphate in groundwater [mg/l]

At infinity

- 01% of values less than 0
- 05% of values less than 0
- 10% of values less than 0
- 50% of values less than 0
- 90% of values less than 0
- 95% of values less than 0
- 99% of values less than 0

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Phase 1

Concentration of Cadmium at base of Unsaturated Zone [mg/l]

At 30 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 100 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 300 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1000 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Phase 1

Concentration of Cadmium at base of Unsaturated Zone [mg/l]

At infinity		
01% of values less than 8.1531E-017		
05% of values less than 3.27518E-016		
10% of values less than 2.88922E-015		
50% of values less than 5.47568E-010		
90% of values less than 6.36205E-007		
95% of values less than 1.18812E-006		
99% of values less than 1.94102E-006		
Minimum 3.87485E-017	Maximum 2.73925E-006	
Mean 1.769E-007	Std. Dev. 4.15202E-007	Variance 1.72393E-013

Phase: Phase 1

Concentration of Lead at base of Unsaturated Zone [mg/l]

At 30 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 100 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 300 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1000 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Phase 1

Concentration of Lead at base of Unsaturated Zone [mg/l]

At infinity		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 6.83132E-017		
Minimum 0	Maximum 6.83434E-005	
Mean 6.82751E-008	Std. Dev. 2.16013E-006	Variance 4.66615E-012

Phase: Phase 1

Concentration of Sulphate at base of Unsaturated Zone [mg/l]

At 30 years			
01% of values less than 524.187			
05% of values less than 545.281			
10% of values less than 561.764			
50% of values less than 618.99			
90% of values less than 642.149			
95% of values less than 646.219			
99% of values less than 650.592			
Minimum 513.636	Maximum 655.118		
Mean 609.74	Std. Dev. 32.1252	Variance 1032.03	

At 100 years			
01% of values less than 159.89			
05% of values less than 183.272			
10% of values less than 217.166			
50% of values less than 372.572			
90% of values less than 459.027			
95% of values less than 465.729			
99% of values less than 471.753			
Minimum 152.908	Maximum 473.184		
Mean 354.143	Std. Dev. 89.8203	Variance 8067.68	

At 300 years			
01% of values less than 6.24043			
05% of values less than 9.67659			
10% of values less than 16.6854			
50% of values less than 94.9497			
90% of values less than 185.774			
95% of values less than 194.711			
99% of values less than 202.891			
Minimum 5.40309	Maximum 204.917		
Mean 98.1437	Std. Dev. 61.6734	Variance 3803.6	

At 1000 years			
01% of values less than 0.000100564			
05% of values less than 0.000395958			
10% of values less than 0.00244189			
50% of values less than 0.855911			
90% of values less than 8.24471			
95% of values less than 9.65909			
99% of values less than 11.0986			
Minimum 6.36909E-005	Maximum 11.4778		
Mean 2.55751	Std. Dev. 3.23252	Variance 10.4492	

Phase: Phase 1

Concentration of Sulphate at base of Unsaturated Zone [mg/l]

At infinity			
01% of values less than 0			
05% of values less than 0			
10% of values less than 1.12941E-013			
50% of values less than 1.58499E-012			
90% of values less than 5.55207E-012			
95% of values less than 7.65531E-012			
99% of values less than 1.36548E-011			
Minimum 0	Maximum 4.34095E-011		
Mean 2.50773E-012	Std. Dev. 3.14733E-012	Variance 9.90571E-024	

Phase: Phase 1

Concentration of Cadmium at Phase Monitor Well [mg/l]

At 30 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 100 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 300 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1000 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Phase 1

Concentration of Cadmium at Phase Monitor Well [mg/l]

At infinity		
01% of values less than 0		
05% of values less than 1.92592E-018		
10% of values less than 2.06305E-017		
50% of values less than 2.7602E-011		
90% of values less than 1.64231E-007		
95% of values less than 3.54972E-007		
99% of values less than 6.20341E-007		
Minimum 0	Maximum 1.1877E-006	
Mean 4.87163E-008	Std. Dev. 1.30103E-007	Variance 1.69267E-014

Phase: Phase 1

Concentration of Lead at Phase Monitor Well [mg/l]

At 30 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 100 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 300 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1000 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Phase 1

Concentration of Lead at Phase Monitor Well [mg/l]

At infinity		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 6.50445E-005	
Mean 6.49796E-008	Std. Dev. 2.05586E-006	Variance 4.22657E-012

Phase: Phase 1

Concentration of Sulphate at Phase Monitor Well [mg/l]

At 30 years		
01% of values less than 47.2707		
05% of values less than 50.6879		
10% of values less than 53.3329		
50% of values less than 71.6747		
90% of values less than 131.419		
95% of values less than 143.364		
99% of values less than 164.048		
Minimum 44.8831	Maximum 172.229	
Mean 82.7202	Std. Dev. 30.0008	Variance 900.047

At 100 years		
01% of values less than 17.9522		
05% of values less than 22.1309		
10% of values less than 25.9308		
50% of values less than 44.2359		
90% of values less than 80.458		
95% of values less than 96.8039		
99% of values less than 116.558		
Minimum 15.2882	Maximum 124.391	
Mean 49.7047	Std. Dev. 22.0805	Variance 487.548

At 300 years		
01% of values less than 1.05477		
05% of values less than 1.66037		
10% of values less than 2.70874		
50% of values less than 13.212		
90% of values less than 30.8823		
95% of values less than 37.7657		
99% of values less than 50.6928		
Minimum 0.731901	Maximum 57.284	
Mean 15.2095	Std. Dev. 11.2521	Variance 126.61

At 1000 years		
01% of values less than 5.23683E-005		
05% of values less than 0.00022276		
10% of values less than 0.000899675		
50% of values less than 0.203623		
90% of values less than 1.52712		
95% of values less than 2.04054		
99% of values less than 3.15353		
Minimum 2.48836E-005	Maximum 4.05357	
Mean 0.539164	Std. Dev. 0.728502	Variance 0.530715

Phase: Phase 1

Concentration of Sulphate at Phase Monitor Well [mg/l]

At infinity		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 1.92848E-012		
90% of values less than 6.90043E-012		
95% of values less than 9.62077E-012		
99% of values less than 2.27337E-011		
Minimum 0	Maximum 1.19802E-010	
Mean 3.25065E-012	Std. Dev. 5.98126E-012	Variance 3.57755E-023

Concentration of Cadmium in groundwater [mg/l]

At 30 years			
01% of values less than 0			
05% of values less than 0			
10% of values less than 0			
50% of values less than 0			
90% of values less than 0			
95% of values less than 0			
99% of values less than 0			
Minimum 0	Maximum 0		
Mean 0	Std. Dev. 0	Variance 0	

At 100 years			
01% of values less than 0			
05% of values less than 0			
10% of values less than 0			
50% of values less than 0			
90% of values less than 0			
95% of values less than 0			
99% of values less than 0			
Minimum 0	Maximum 0		
Mean 0	Std. Dev. 0	Variance 0	

At 300 years			
01% of values less than 0			
05% of values less than 0			
10% of values less than 0			
50% of values less than 0			
90% of values less than 0			
95% of values less than 0			
99% of values less than 0			
Minimum 0	Maximum 0		
Mean 0	Std. Dev. 0	Variance 0	

At 1000 years			
01% of values less than 0			
05% of values less than 0			
10% of values less than 0			
50% of values less than 0			
90% of values less than 0			
95% of values less than 0			
99% of values less than 0			
Minimum 0	Maximum 0		
Mean 0	Std. Dev. 0	Variance 0	

Concentration of Cadmium in groundwater [mg/l]

At infinity			
01% of values less than 0			
05% of values less than 0			
10% of values less than 0			
50% of values less than 0			
90% of values less than 0			
95% of values less than 0			
99% of values less than 0			
Minimum 0	Maximum 0		
Mean 0	Std. Dev. 0	Variance 0	

Concentration of Lead in groundwater [mg/l]

At 30 years

- 01% of values less than 0
- 05% of values less than 0
- 10% of values less than 0
- 50% of values less than 0
- 90% of values less than 0
- 95% of values less than 0
- 99% of values less than 0

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 100 years

- 01% of values less than 0
- 05% of values less than 0
- 10% of values less than 0
- 50% of values less than 0
- 90% of values less than 0
- 95% of values less than 0
- 99% of values less than 0

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 300 years

- 01% of values less than 0
- 05% of values less than 0
- 10% of values less than 0
- 50% of values less than 0
- 90% of values less than 0
- 95% of values less than 0
- 99% of values less than 0

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1000 years

- 01% of values less than 0
- 05% of values less than 0
- 10% of values less than 0
- 50% of values less than 0
- 90% of values less than 0
- 95% of values less than 0
- 99% of values less than 0

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Concentration of Lead in groundwater [mg/l]

At infinity

- 01% of values less than 0
- 05% of values less than 0
- 10% of values less than 0
- 50% of values less than 0
- 90% of values less than 0
- 95% of values less than 0
- 99% of values less than 0

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Concentration of Sulphate in groundwater [mg/l]

At 30 years

- 01% of values less than 0
- 05% of values less than 0
- 10% of values less than 0
- 50% of values less than 0
- 90% of values less than 0
- 95% of values less than 0
- 99% of values less than 0

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 100 years

- 01% of values less than 0
- 05% of values less than 0
- 10% of values less than 0
- 50% of values less than 0
- 90% of values less than 0
- 95% of values less than 0
- 99% of values less than 0

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 300 years

- 01% of values less than 0
- 05% of values less than 0
- 10% of values less than 0
- 50% of values less than 0
- 90% of values less than 0
- 95% of values less than 0
- 99% of values less than 0

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1000 years

- 01% of values less than 0
- 05% of values less than 0
- 10% of values less than 0
- 50% of values less than 0
- 90% of values less than 0
- 95% of values less than 0
- 99% of values less than 0

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Concentration of Sulphate in groundwater [mg/l]

At infinity

- 01% of values less than 0
- 05% of values less than 0
- 10% of values less than 0
- 50% of values less than 0
- 90% of values less than 0
- 95% of values less than 0
- 99% of values less than 0

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Phase 1

Concentration of Cadmium at base of Unsaturated Zone [mg/l]

At 30 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 100 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 2.3174E-006	
Mean 2.33253E-009	Std. Dev. 7.3247E-008	Variance 5.36513E-015

At 300 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 3.62367E-007		
Minimum 0	Maximum 0.00203671	
Mean 6.67897E-006	Std. Dev. 0.000100375	Variance 1.00752E-008

At 1000 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 7.46137E-017		
95% of values less than 3.5282E-007		
99% of values less than 0.000396997		
Minimum 0	Maximum 0.00138012	
Mean 1.36983E-005	Std. Dev. 0.000107983	Variance 1.16603E-008

Phase: Phase 1

Concentration of Cadmium at base of Unsaturated Zone [mg/l]

At infinity		
01% of values less than 0		
05% of values less than 3.08218E-017		
10% of values less than 5.31452E-015		
50% of values less than 1.95908E-007		
90% of values less than 5.25781E-006		
95% of values less than 6.88008E-006		
99% of values less than 9.27606E-006		
Minimum 0	Maximum 1.0919E-005	
Mean 1.52744E-006	Std. Dev. 2.32951E-006	Variance 5.42663E-012

Phase: Phase 1

Concentration of Lead at base of Unsaturated Zone [mg/l]

At 30 years			
01% of values less than 0			
05% of values less than 0			
10% of values less than 0			
50% of values less than 0			
90% of values less than 0			
95% of values less than 0			
99% of values less than 0			
Minimum 0	Maximum 0		
Mean 0	Std. Dev. 0	Variance 0	
At 100 years			
01% of values less than 0			
05% of values less than 0			
10% of values less than 0			
50% of values less than 0			
90% of values less than 0			
95% of values less than 0			
99% of values less than 0			
Minimum 0	Maximum 0		
Mean 0	Std. Dev. 0	Variance 0	
At 300 years			
01% of values less than 0			
05% of values less than 0			
10% of values less than 0			
50% of values less than 0			
90% of values less than 0			
95% of values less than 0			
99% of values less than 0			
Minimum 0	Maximum 0		
Mean 0	Std. Dev. 0	Variance 0	
At 1000 years			
01% of values less than 0			
05% of values less than 0			
10% of values less than 0			
50% of values less than 0			
90% of values less than 0			
95% of values less than 0			
99% of values less than 0			
Minimum 0	Maximum 2.48067E-008		
Mean 2.4782E-011	Std. Dev. 7.84066E-010	Variance 6.1476E-019	

Phase: Phase 1

Concentration of Lead at base of Unsaturated Zone [mg/l]

At infinity			
01% of values less than 0			
05% of values less than 0			
10% of values less than 0			
50% of values less than 0			
90% of values less than 0			
95% of values less than 0			
99% of values less than 8.23034E-014			
Minimum 0	Maximum 6.36587E-005		
Mean 6.39001E-008	Std. Dev. 2.01206E-006	Variance 4.04839E-012	

Phase: Phase 1

Concentration of Sulphate at base of Unsaturated Zone [mg/l]

At 30 years		
01% of values less than 529.122		
05% of values less than 551.153		
10% of values less than 565.002		
50% of values less than 622.033		
90% of values less than 642.552		
95% of values less than 646.79		
99% of values less than 651.395		
Minimum 517.65	Maximum 654.875	
Mean 612.352	Std. Dev. 29.7065	Variance 882.476

At 100 years		
01% of values less than 160.961		
05% of values less than 195.783		
10% of values less than 222.716		
50% of values less than 379.497		
90% of values less than 458.98		
95% of values less than 465.958		
99% of values less than 471.765		
Minimum 153.345	Maximum 473.503	
Mean 360.542	Std. Dev. 86.6579	Variance 7509.59

At 300 years		
01% of values less than 6.37497		
05% of values less than 11.9687		
10% of values less than 18.1109		
50% of values less than 100.723		
90% of values less than 185.781		
95% of values less than 195.008		
99% of values less than 202.926		
Minimum 5.45267	Maximum 205.383	
Mean 101.992	Std. Dev. 60.7704	Variance 3693.04

At 1000 years		
01% of values less than 0.00010499		
05% of values less than 0.000857752		
10% of values less than 0.00327256		
50% of values less than 1.04493		
90% of values less than 8.24412		
95% of values less than 9.70977		
99% of values less than 11.1051		
Minimum 6.64041E-005	Maximum 11.5643	
Mean 2.6904	Std. Dev. 3.26811	Variance 10.6806

Phase: Phase 1

Concentration of Sulphate at base of Unsaturated Zone [mg/l]

At infinity		
01% of values less than 0		
05% of values less than 0		
10% of values less than 1.16665E-013		
50% of values less than 1.60427E-012		
90% of values less than 6.03052E-012		
95% of values less than 8.37166E-012		
99% of values less than 1.73289E-011		
Minimum 0	Maximum 1.09052E-010	
Mean 2.64677E-012	Std. Dev. 4.5283E-012	Variance 2.05055E-023

Phase: Phase 1

Concentration of Cadmium at Phase Monitor Well [mg/l]

At 30 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 100 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 8.93539E-009	
Mean 8.97025E-012	Std. Dev. 2.82422E-010	Variance 7.97623E-020

At 300 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 7.70739E-009		
Minimum 0	Maximum 0.000183012	
Mean 6.53829E-007	Std. Dev. 9.91169E-006	Variance 9.82416E-011

At 1000 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 1.04064E-008		
99% of values less than 4.58844E-005		
Minimum 0	Maximum 0.000285575	
Mean 1.58149E-006	Std. Dev. 1.39968E-005	Variance 1.9591E-010

Phase: Phase 1

Concentration of Cadmium at Phase Monitor Well [mg/l]

At infinity		
01% of values less than 7.81163E-019		
05% of values less than 7.8618E-017		
10% of values less than 1.56842E-015		
50% of values less than 8.13031E-008		
90% of values less than 3.15989E-006		
95% of values less than 4.31314E-006		
99% of values less than 6.04626E-006		
Minimum 0	Maximum 8.32779E-006	
Mean 9.06553E-007	Std. Dev. 1.49098E-006	Variance 2.22303E-012

Phase: Phase 1

Concentration of Lead at Phase Monitor Well [mg/l]

At 30 years			
01% of values less than 0			
05% of values less than 0			
10% of values less than 0			
50% of values less than 0			
90% of values less than 0			
95% of values less than 0			
99% of values less than 0			
Minimum 0	Maximum 0		
Mean 0	Std. Dev. 0	Variance 0	
At 100 years			
01% of values less than 0			
05% of values less than 0			
10% of values less than 0			
50% of values less than 0			
90% of values less than 0			
95% of values less than 0			
99% of values less than 0			
Minimum 0	Maximum 0		
Mean 0	Std. Dev. 0	Variance 0	
At 300 years			
01% of values less than 0			
05% of values less than 0			
10% of values less than 0			
50% of values less than 0			
90% of values less than 0			
95% of values less than 0			
99% of values less than 0			
Minimum 0	Maximum 0		
Mean 0	Std. Dev. 0	Variance 0	
At 1000 years			
01% of values less than 0			
05% of values less than 0			
10% of values less than 0			
50% of values less than 0			
90% of values less than 0			
95% of values less than 0			
99% of values less than 0			
Minimum 0	Maximum 1.11024E-011		
Mean 1.10913E-014	Std. Dev. 3.50913E-013	Variance 1.2314E-025	

Phase: Phase 1

Concentration of Lead at Phase Monitor Well [mg/l]

At infinity			
01% of values less than 0			
05% of values less than 0			
10% of values less than 0			
50% of values less than 0			
90% of values less than 0			
95% of values less than 0			
99% of values less than 2.70071E-015			
Minimum 0	Maximum 2.12632E-005		
Mean 2.1266E-008	Std. Dev. 6.72063E-007	Variance 4.51669E-013	

Phase: Phase 1

Concentration of Sulphate at Phase Monitor Well [mg/l]

At 30 years			
01% of values less than 47.7283			
05% of values less than 51.4526			
10% of values less than 53.5886			
50% of values less than 70.5892			
90% of values less than 131.629			
95% of values less than 145.038			
99% of values less than 160.939			
Minimum 44.3823		Maximum 171.357	
Mean 82.4642		Std. Dev. 29.8282	
		Variance 889.724	

At 100 years			
01% of values less than 18.3617			
05% of values less than 23.403			
10% of values less than 26.778			
50% of values less than 44.3321			
90% of values less than 84.8312			
95% of values less than 95.1486			
99% of values less than 115.813			
Minimum 15.2832		Maximum 125.684	
Mean 50.201		Std. Dev. 22.0225	
		Variance 484.99	

At 300 years			
01% of values less than 0.963798			
05% of values less than 2.11476			
10% of values less than 3.11085			
50% of values less than 13.8602			
90% of values less than 31.2537			
95% of values less than 37.9641			
99% of values less than 49.4746			
Minimum 0.728943		Maximum 57.1841	
Mean 15.6779		Std. Dev. 11.1301	
		Variance 123.88	

At 1000 years			
01% of values less than 4.63522E-005			
05% of values less than 0.000376443			
10% of values less than 0.00132663			
50% of values less than 0.235396			
90% of values less than 1.57495			
95% of values less than 2.13463			
99% of values less than 3.20428			
Minimum 2.41992E-005		Maximum 3.89795	
Mean 0.563439		Std. Dev. 0.732211	
		Variance 0.536134	

Phase: Phase 1

Concentration of Sulphate at Phase Monitor Well [mg/l]

At infinity			
01% of values less than 0			
05% of values less than 0			
10% of values less than 0			
50% of values less than 2.05456E-012			
90% of values less than 7.69898E-012			
95% of values less than 1.19317E-011			
99% of values less than 2.12403E-011			
Minimum 0		Maximum 1.13564E-010	
Mean 3.38661E-012		Std. Dev. 5.4712E-012	
		Variance 2.9934E-023	