



Geotechnical and Geo-environmental Consultants

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Our Ref: 2220/230202/L1

Your Ref:

15th March 2023

A/o Hannah Archer
Netherdown (Herts) Ltd
58 Bridge Road East
Welwyn Garden City
Hertfordshire
AL7 1JU

Dear Hannah

Re: Maydencroft Gardens, Maydencroft Lane, Gosmore, Hertfordshire

It is our understanding that a planning application will be submitted for the development of a pair of semi-detached houses on a parcel of land on Maydencroft Gardens, Gosmore. The proposed development is presented as Attachment 1.

The subject land was formally part of the Former Paul Bromfield Aquatics site. the Former Paul Bromfield Aquatics site, with the exception of the subject land parcel was redeveloped as residential under planning consent 17/02289/1. As part of the application a contaminated land assessment was undertaken. This work consisted of a Phase 1 Desk Study and a Phase 2 intrusive site investigation. As part of the desk study, the subject land parcel was considered. During the Phase 2 site investigation only one sample location was established on the edge of subject land. The findings of the Phase 1 Desk Study were presented in the following report:

- Prepared by Go Contaminated Land Solutions, Phase 1 Environmental Report of a site at Paul Bromfield Aquatics, Maydencroft Lane, Hertfordshire; Report ref 1118-PE-1-B, dated 16th July 2018.

A copy of the report is attached (Attachment 2)

This letter has been prepared to provide an update to the report. A revised conceptual model is presented, together with recommendations for a site investigation.

The subject site was located within the north west corner of the former aquatic site. The area was formally occupied by a series of shallow ponds/basins that were used for the growing of aquatic plants. As part of the site clearance, the whole of the Paul Bromfield Aquatics site including these ponds were removed. The subject land now consisted of an open parcel of land and was used as the compounds for the development of the rest of the site. Photographs of the subject site are presented in Attachment 3.

The investigation that was completed for the previous planning application identified the presence of localised areas of contamination within the made ground. Immediately adjacent to the western boundary of the subject land, within made ground that used to backfill some

deeper fish ponds, low concentrations of asbestos were identified. As part of the development, remediation was undertaken that consisted of the removal of the made ground. Verification of the remediation was presented in the following report:

- Prepared by Brown 2 Green Associates Ltd, Verification Report, Former Paul Bromfield Aquatics, Maydencroft Lane, Gosmore, Hertfordshire; Ref 2220/Rpt 5 v1, dated October 2021.

A copy of the report is presented as Attachment 4.

Based on the findings of the up-date of the previous Phase 1 Desk Study and review of the previous works undertaken on site, a conceptual site model has been prepared. The following sources of potential contaminants that may plausibly impact the site were identified:

- General quality of the made ground. Previous investigation of land to the west and south that was also part of the aquatic centre identified localised areas that required remediation.

The following receptors have been identified:

- Human health - future users of the site (residential with private gardens).
- Human health - construction workers.
- Controlled water (groundwater and surface water).
- Buildings and construction materials (concrete).
- Water supply pipework.

Potential pollution linkages identified are presented in the initial site conceptual model are detailed overleaf.

Conceptual Site Model

Potential Contaminant	Potential migration pathway	Potential Receptors	Likelihood	Severity	Risk Classification	Comments Active/Inactive
General Quality of the made ground and use of site as a contractors yard						
Metals (As, Cd, Cr, Pb, Hg, Se, Ni, V)	Ingestion of contaminated soil and dust by direct contact and soil attached to home grown vegetables.	Future site users	High likelihood	Medium	High	Potentially active in areas of soft landscaping in private gardens. Further assessment required.
	Inhalation of dust (indoor and outdoor).					
	Ingestion of contaminated soils by direct.	Construction workers	Likely	Minor	Low	Potentially active but short term exposure. General site practices and site PPE (gloves) will reduce exposure.
	Inhalation of dust (indoor and outdoor).					
Metals (Cu, Ni, Zn)	Uptake by plants	Planting and soft landscape areas	Likely	Minor	Low	Potentially active in areas to be developed as soft landscaping in gardens. Further assessment required.
PAHs and TPH	Ingestion of contaminated soil and dust by direct contact and soil attached to home grown vegetables.	Future site users	Likely	Medium	Moderate	Potentially active in areas of soft landscaping in private gardens. Further assessment required.
	Inhalation of dust (indoor and outdoor).					
	Ingestion of contaminated soil and dust by direct contact.	Construction workers	Likely	Minor	Low	Potentially active but short term exposure. General site practices and site PPE (gloves) will reduce exposure.
	Inhalation of dust (indoor and outdoor).					
	Downward and lateral migration.	Groundwater Surface Water	Low likelihood	Medium	Moderate/Low	Potentially active.
Asbestos	Inhalation of fibres.	Future site users and construction workers	Likely	Severe	Moderate	Potentially active.

Based on the findings of the review of the Phase 1 Desk Study and the revised preliminary risk assessment it is concluded that the redevelopment of the site as residential will introduce active pollution pathways to the identified sources of potential contamination. From the assessment it is considered that contamination may potentially result in an unacceptable level of risk to the identified receptors.

From the results of this review, it is recommended that a Phase 2 Intrusive Investigation should be completed in accordance with current best practice. As required by current best practice, including the National Planning Policy Framework, all site works should be undertaken under the direct supervision of an experienced Contaminated Land Consultant.

The investigation should assess the potential pollution linkages identified within the Conceptual Model. In general, samples of the made ground should be obtained from the areas of proposed gardens and analysed for the following suite:

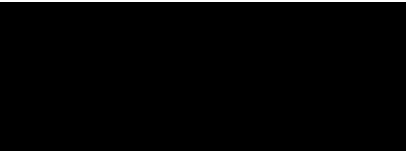
- Petrol and diesel range hydrocarbons;
- Polycyclic aromatic hydrocarbons;
- Metals;
- pH;
- Asbestos fibres in soil.

In addition, sample locations should also be obtained from the rest of the site and analysed for asbestos.

The proposed sample locations are contained in Attachment 5.

On completion of the site work and laboratory analysis a Quantitative Risk Assessment should be undertaken.

Yours sincerely
For and on behalf of Brown 2 Green Associates Ltd



Philip Miles
Director

Attachment 1
Proposed Development Layout

Attachment 2

Previous Phase 1 Desk Study

Prepared by Go Contaminated Land Solutions, Phase 1 Environmental Report of a site at Paul Bromfield Aquatics, Maydencroft Lane, Hertfordshire; Report ref 1118-PE-1-B, dated 16th July 2018

PHASE 1 ENVIRONMENTAL REPORT
of a site at
Paul Bromfield Aquatics, Maydencroft Lane,
Hertfordshire
for
Netherdown (Herts) Ltd

Contaminated Land Solutions

4 De Frene Rd, London, SE26 4AB
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Project No 1118
Report ref: 1118-P1E-1-B
Issued: 16 July 2018
Revision: B

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1 EXECUTIVE SUMMARY

Details	Summary	
Proposed Development	Areas A and B to comprise of residential land use with soft landscaping and Area C is to be reinstated as pasture/meadow land.	
Current Site Use	Commercial use	
Site History	Historical mapping shows the site first developed in 1981 for the existing development. Demolition of some buildings at the site is also indicated by the historical maps.	
Surrounding Area	The surrounding area has comprised of agricultural land and residential properties	
Environmental Setting	Geology	Superficial: Glaciofluvial Deposits, Mid Pleistocene Bedrock: Zig Zag Chalk Formation/ Melbourne Rock Member
	Hydrogeology	Superficial: Secondary A Aquifer Bedrock: Principal Aquifer
		Source Protection Zone: SPZ 3
Potential Contamination Sources	The site walkover, historical mapping and environmental searches have identified the following potential sources of contamination. • Commercial site uses • Hardcore under foundations and ground slabs and demolition debris • Naturally occurring contaminants • Maydencroft Farm (former offsite land use)	
Risk Assessment Findings	Risk ratings of moderate or greater indicate potentially complete source-pathway-receptor linkages that can require further investigation and remedial measures. The following moderate or greater risks have been identified at the site. • Site users, and workers in direct contact with contaminated soil • Site users, neighbours and workers inhaling fibres (asbestos)	
Recommendations	Some preliminary intrusive environmental site investigation is recommended to determine if contamination is present on the property. An upgraded water supply pipe may be required by the water supply company. It is recommended that this report is provided to the water supplier with a request for the testing, if any, that they require. It is considered that provided the recommendations of this report are implemented there is no increased risk to human health from redevelopment of the site for the proposed use.	

Risk Summary

Very Low	Low	Moderate / Low	Moderate	High
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		Receptors				
		Residents & Site Users	Construction & Maintenance Operatives	Neighbours	Proposed Building	Aquifer
Sources	Commercial site uses					
	Hardcore under foundations and ground slabs and demolition debris (asbestos)					
	Naturally occurring contaminants					
	Maydencroft Farm (former offsite land use)					

2 BRIEF

Mrs Paulina Craig of Netherdown (Herts) Ltd requested a phase 1 environmental desk top study for a site at Paul Bromfield Aquatics, Maydencroft Lane, Gosmore, St Ippolyts, Hertfordshire, SG4 7QD.

The purpose of this report is to assess the risks to sensitive receptors both on and off-site due to soil and groundwater contamination as a result of the proposed development. It is based upon information provided by the client, a site visit and walk over, and a Landmark Envirocheck, historical aerial photographs and maps.

This report is based upon available factual data for the site obtained only from the sources described in the text and related to the site on the basis of the location information provided by the Client. The desk study information is not necessarily exhaustive and further information relevant to the site may be available from other sources.

3 SITE VISIT

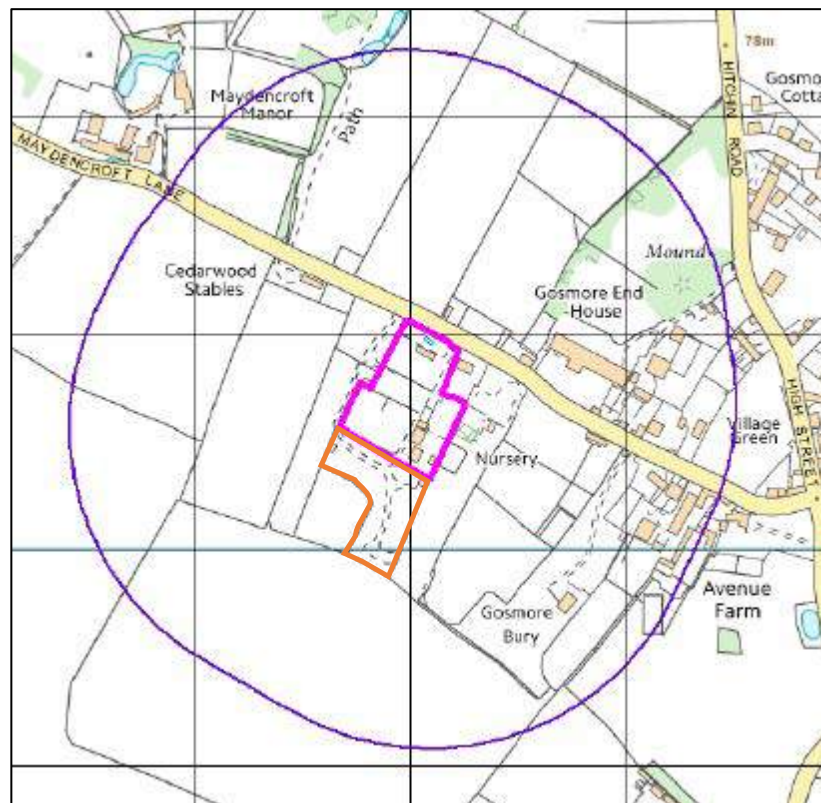
The site was visited on Tuesday 30th May 2017. The weather was Dry and warm with an overcast sky and some sunshine. Access was available to most areas of the site and a visual inspection was undertaken. A photographic record was made during the visit and this is contained in appendix C.

The client's confidentiality was maintained at all times during discussion with third parties.

4 SITE LOCATION

The site is situated on the southern side of Maydencroft Lane, to the west of the junction with High Street and Waterdell Lane and to the east of the junction with Charlton Road. The B656 London Road and the A602 Park Way lie to the north of the site. Refer to Figure 1.

The National Grid Reference for the approximate site centre is 518400, 227140



- Site Outline, Area A & B
- Site Outline, Area C
- 250m from the Site Boundary

Figure 1: Site Location Plan

5 SITE DESCRIPTION

The site is an irregular shape in plan and covers an area of approximately 1.60ha. The site is generally flat and has a downward gradient from south to north.

The northern boundary is formed in part by the site access gates, wire mesh fencing and barbed wire fencing. The eastern boundary is formed in part by a conifer hedge, barbed wire fencing, hedgerow and is undefined at the southern end. The southern boundary is formed in part by hedgerow, pig wire fencing and electric tape. The west boundary is formed in part by steel security fencing, an access gate to the adjoining land, a conifer hedge and hedgerow.

Beyond the northern boundary is the roadway of Maydencroft Lane, then open land used for grazing horses. Beyond the eastern boundary are the private gardens and buildings of Maydencroft Cottage, a nursery and open fields used as grazing land. Beyond to the south and west is more open land used for grazing.

The northern part of the site is occupied by a workshop or store building constructed in brickwork under a concrete tile roof, with an attached single garage constructed in rendered masonry under a corrugated cement sheet roof, a timber shed, a plastic covered polytunnel, a glasshouse. Adjacent to the glasshouse there are two boats. There are grassed areas between the northern boundary and the workshop building and the access road and the western boundary and a concrete surfaced roadway leading into the site and up to the western end of the workshop. There are two lined ponds in the grassed area on the north side of the workshop one is empty the other contains aquatic plants. To the south of the workshop is a stone surfaced hardstanding area. A stone surfaced access road continues southwards from the concrete roadway

The workshop provides the premises for a property maintenance company. Access was not available to the workshop or garage but from inspection through the windows the workshop it would appear to contain tools and equipment. The polytunnel contains stockpiled timber and some old furniture. The glass house is empty.

On the south side of the workshop there is a skip containing general building waste and some stockpiled building materials. On the southern edge of the stoned hardstanding there is a stockpile of decorative rocks and the remains of a bonfire which contains burnt timber and vegetation. One of the boats is supported on empty steel drums which formerly contained orange peel oil and essential oil aromatic chemicals.

The central part of the site is occupied by the premises of Paul Broomfield Aquatics, which comprises a number of rendered masonry buildings some of which have corrugated cement sheet roofs, several polytunnels covered either by netting or plastic sheeting and open areas containing concrete planting beds for aquatic plants. In the south east corner of the central area there are several garages constructed either in rendered masonry or from pre-cast units. Most of the garages appear to have concrete floor slabs and some also have corrugated cement sheet roofs. There is both concrete and stone surfaced hardstanding in the garage area. The western part of the central area is a raised plateau to accommodate a large polytunnel, and the north-west part of the central area is mainly stone surfaced hardstanding providing parking and display facilities. The open planting areas are mainly unsurfaced and there is some grass and vegetation to the margins. The stone surfaced access road continues through the central area.

The rendered masonry buildings provide office and welfare facilities, a cold store, customer toilets, a potting room, a store room for pump equipment and a mail order packing room. The polytunnels mainly contain either raised planters or concrete planting beds for aquatic plants. There is some general debris and stockpiled building materials in the display areas and the garage area. Access was available to one of the garages which was in use as a plant potting facility. The client advised that most of the garages were used for storage purposes, but at least one contained a vehicle. There are also several vehicles parked in the garage area.

The southern part of the site provides a storage facility for a groundworks, landscaping and plant hire contractor on the eastern side and the premises for a garden maintenance company on the western side. The western side is mainly covered by blacktop surfacing which is in poor condition. The eastern side is unsurfaced and there are some areas overgrown with grass and vegetation.

The eastern side provides a parking area for excavators, other vehicles and some plant and equipment. There are stockpiles of building rubble, excavated material, scrap metal which includes car parts & a fridge/freezer, logs, chopped wood, soil, timber and building materials. There are also some abandoned vehicles and dilapidated pieces of plant and in the south-east corner there are some steel oil tanks.

The western side is occupied by a portacabin, some steel storage containers, a timber stable, an old railway carriage and some stockpiled building materials. There is also a parking area for mechanical plant, trailers and other equipment. Access was not available to the buildings and containers.

There is much debris and general rubbish around the southern part of the site. There are also a number of empty steel drums which formerly contained gas oil and lubricating oil. Some empty plastic containers for transmission fluid, mortar plasticiser and plant growth regulator (Stabilan 750) were also noted.

There are overhead power cables crossing the site. There is a drainage manhole to the south of the customer toilets and a yard gulley at the northern end of the garage area. There are telegraph poles on the eastern boundary with overhead wires to the workshop building and the aquatics offices. In Maydencroft lane there are drainage manholes, a fire hydrant and telegraph poles. There is an electricity sub-station at the Old Coach House to the east of the site. There is a shallow drainage ditch on the far side of Maydencroft Lane.

The site lies in a semi-rural location with some residential and commercial properties in close proximity.

No visual or olfactory evidence of contamination was noted during the visit.



6 GROUND CONDITIONS

6.1 Geology

Reference to the geological survey of Great Britain indicates that beneath made ground, the area generally is underlain by superficial deposits comprising of Sand and Gravel which is described as Glaciofluvial Deposits, Mid Pleistocene.

Across the majority of the site the superficial deposits are underlain by bedrock comprising of Chalk described as The Zig Zag Chalk Formation. At the southwest corner of the site bedrock is shown to comprise of Chalk and is described as the Melbourne Rock Member.

6.2 Hydrogeology

The Environment Agency maps show the site to be located over a Secondary A Aquifer in the superficial or drift deposits, in the bedrock they show the site to be over a Principal Aquifer.

Secondary A Aquifers comprise permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers.

Principal Aquifers comprise layers of rock or drift deposits that have either high intergranular or fracture permeability, meaning they usually provide a high level of water storage. They may support either water supply or river base flow on a strategic scale. In most cases, principal aquifers are aquifers previously designated as major aquifer.

The soils overlying the aquifers are shown to have an Intermediate leaching potential (I1), which are defined as soils which can possibly transmit a wide range of pollutants.

The Environment Agency maps show the site to be located within a source protection zone, SPZ 3 of a borehole abstraction point.

The Environment Agency define a zone according to how the groundwater behaves in that area. From this a model of the groundwater environment is developed on which to define the zones.

Groundwater source catchments are divided into three zones:

SPZ1 – Inner protection zone

Defined as the 50 day travel time from any point below the water table to the source. This zone has a minimum radius of 50 metres.

SPZ2 – Outer protection zone

Defined by a 400 day travel time from a point below the water table. This zone has a minimum radius of 250 or 500 metres around the source, depending on the size of the abstraction.

SPZ3 – Source catchment protection zone

Defined as the area around a source within which all groundwater recharge is presumed to be discharged at the source. In confined aquifers, the source catchment may be displaced some distance from the source. For heavily exploited aquifers, the final Source Catchment Protection Zone can be defined as the whole aquifer recharge area where the ratio of groundwater abstraction to aquifer recharge (average recharge multiplied by outcrop area) is >0.75 .

6.3 Hydrology

A pond is located at the site, it is understood that this is an ornamental feature and therefore not considered to be in hydraulic continuity with any other nearby water courses. A river is shown to be approximately 314 metres to the north of the site. This is considered to be too distant to be significantly impacted by the site.

The Environment Agency maps show the site is not located within a flood zone.

The British Geological Society data shows the site lies in an area with limited potential for groundwater flooding to occur.

Copy of extracts from the Landmark report are contained in appendix D.

6.4 Ground Stability Hazards

An area of worked ground is shown to be located 195 metres to north of the site.

The ground beneath the site has been identified as having a very low risk of potential ground instability due to Collapsible Ground, Landslide Ground and Running Sand Ground Stability Hazards. Potential Ground instability due to compressible Ground, Ground Dissolution and Shrinking or Swelling Clay Ground is identified as having no hazard potential. These risks would be expected to manifest themselves as excessive settlement in the buildings on the site. However, the risks identified are considered unlikely to be of concern to any new buildings, as the foundation design will be based upon geotechnical information obtained from a site-specific intrusive investigation.

6.5 Mining Activities

Reference to the Coal Authority data indicates that the site is not within an area of known coal mining. There is no other known mining in the area.

6.6 Radon Gas

The Landmark Envirocheck Data also advises that the site lies within an area where less than 1% of properties are above the action level and that no protection measures are required in the construction of new properties.

6.7 Sensitive Land Use

Environmentally Sensitive Areas include Nitrate Sensitive Areas, Sites of Special Scientific Interest (SSSI's), Areas of Outstanding Natural Beauty (AONB), National Parks, National Nature Reserves, Special Areas of Conservation, Special Protection Areas and RAMSAR sites. According to the Landmark Envirocheck Data, the Site is located on an area of adopted green belt and a nitrate vulnerable zone.

7 SITE HISTORY

Copies of the Historical Ordnance Survey maps that have been obtained from The Landmark information group are contained in appendix E.

The maps have been reviewed and items of interest and potential sources of contamination, both on the site and within the surrounding area up to 500 metres from the site boundary are noted hereunder.

Site Usage

From	To	Description
1881	1976	The site is shown as open land
1981	1992	A nursery is labelled with few buildings shown to occupy the site
1999	2006	Some buildings are no longer shown at the nursery
2017	Present	Additional building are shown across the site

Surrounding Area

From	To	Name	Direction	Distance (m)
1881	1976	Maydencroft Farm	N	6
1981	2017	Avenue Farm	E	249

8 PROPOSED DEVELOPMENT

Plan details for the proposed redevelopment of the site are shown on the Netherdown Limited drawings contained in appendix B.

The proposed development is for the construction of eight residential dwellings with private gardens and communal landscaping within areas A and B. Area C is to be reinstated as pasture or meadow land.

9 POTENTIAL CONTAMINATION

9.1 General

From observations made during the site visit, review of the historical maps and the Landmark information, potential sources of on-site contamination and off-site contamination have been identified.

No significant potential sources of contamination have been identified beyond a 250 metre boundary which are considered likely to have any impact on the site. Where there are similar industries and activities in the same direction, only the nearest has been listed.

Copies of the relevant extracts are contained in appendix D.

The legislative framework for the regulation of contaminated land is embodied in Part IIA of the Environmental Protection Act 1990, implemented in the Contaminated Land (England) Regulations 2000. This legislation allows for the identification and remediation of land where contamination is causing unacceptable risks to human health or the wider environment. The approach adopted by UK contaminated land policy is that of “suitability for use” which implies that the land should be suitable for its current use and made suitable for any proposed future use.

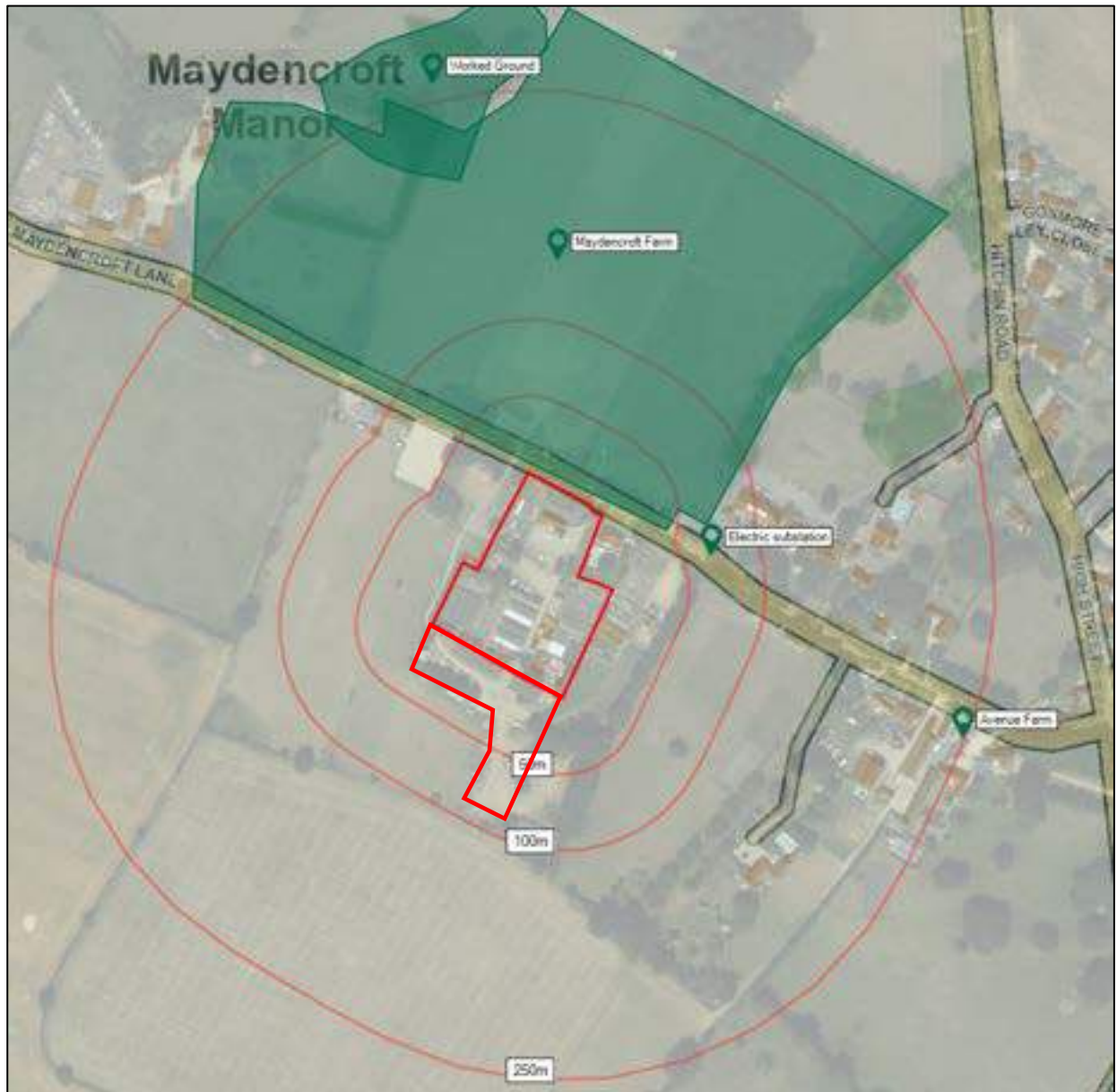
In this preliminary contamination assessment, the site has been modelled using the Source-Pathway-Receptor approach to produce a site specific conceptual model.

- **Source** - substances or potential contaminants which may cause harm
- **Pathway** - a linkage or route between a source and receptor
- **Receptor** - humans, plant life, groundwater etc., which could be harmed by a contaminant

Geological records indicate that the site is underlain by an aquifer in the superficial stratum and within the bedrock, therefore there is a potential for contaminants to be transported both to and from site in the groundwater.

9.2 Off Site Contamination

Description	Direction	Distance (m)
Discharge Consents:		
None identified.	-	-
Local Authority Pollution Prevention & Controls:		
None identified		
Category 1 and 2 Pollution Incidents to Controlled Waters:		
None identified		
Prosecutions Relating to Authorised Processes:		
None identified		
Substantiated Category 1 and 2 Pollution Incidents:		
None identified		
Control of Major Accident Hazards Sites (COMAH) & Planning Hazardous Substance Consents		
None identified		
Landfill and Other Waste Sites:		
None identified within 250m		
Historical and Current Land Uses:		
None identified within 250m	-	-
Artificial Ground and Made Ground:		
LEX Code: WGR	N	195
Rock Name: Worked Ground (Undivided)		
Rock Type: Void		
Min Age: Holocene		
Max Age: Holocene		



Potentially contaminating commercial activities have been identified in the vicinity, the topography of the area falls to the east and this is assumed to be the general direction of the hydraulic gradient. Therefore, sources to the west and within close proximity of the site are considered further as potentially impacting the site. There are no potential sources to the west of the site. However, Maydencroft Farm once neighboured the site and therefore this is considered a potential offsite source of contamination to the site. Potential sources of contamination may include the use of pesticides or application of sewage sludge to the land which may allow for contaminants to be transported by surface water runoff and groundwater to the site.

The Landmark report shows an area of worked ground is located 195 metres to the north of the site. From reviewing the historic maps no former land uses have been identified which would suggest any significant infilling of the land may have occurred. Furthermore, given the distance from the site, it is considered unlikely that any significant levels of ground gas could migrate to the site.

9.3 On Site Contamination

Within areas A and B of the site there is an aquatic nursery, a workshop, garages and soft landscaped areas used for parking. It is considered there is potential for contamination of this area of the site from fuel spillages or leakages from onsite parking and from potential spillage or leakage of fuel which may have been stored within the workshop and garages. The site's use as a nursery may also allow for contamination from former use of pesticides at the site.

Area C of the site appeared to be in use as a storage facility for a groundworks, landscaping and plant hire contractor and a garden maintenance company. This area of the site comprised of heavy plant and equipment, stockpiled building materials and soil, steel oil tanks, steel oil drums formerly used to store gas oil and lubricating oil, trailers and plastic containers used to store transmission fluid, mortar plasticiser and plant growth regulator (stabling 750). This area was in part soft landscaped and in part surfaced by a black top surfacing which was in a poor condition. It is therefore considered there potential for contamination to be present within this area of the site.

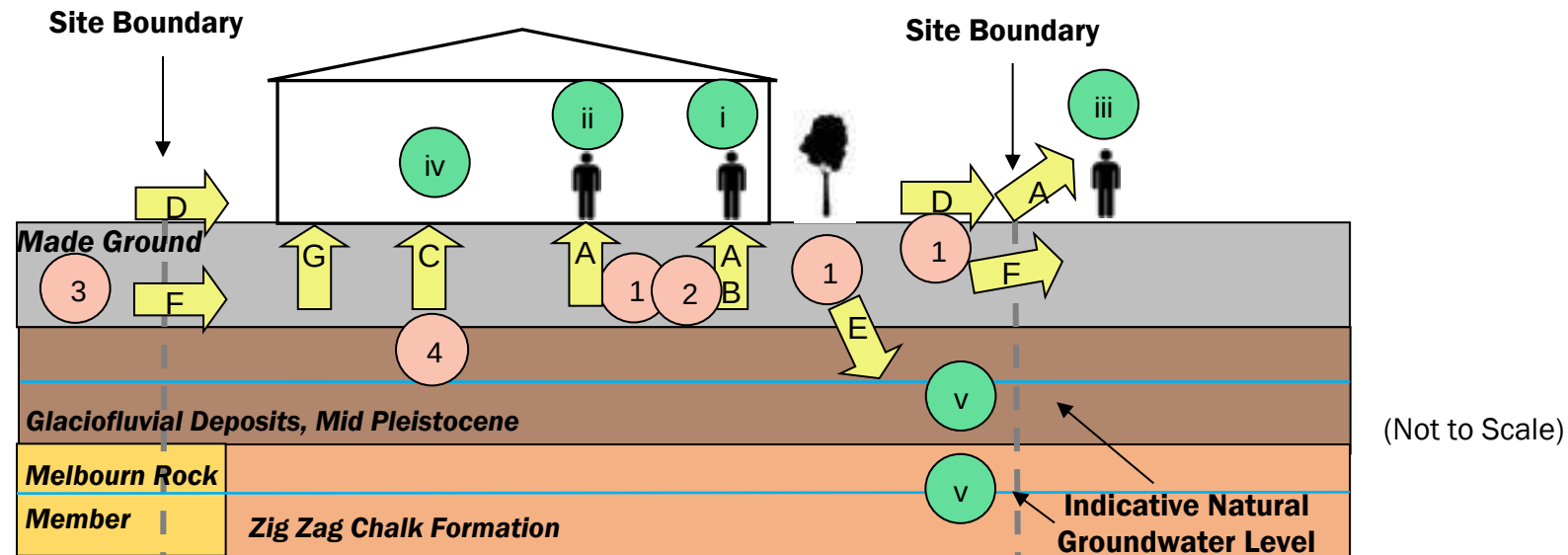
Given the age of the property, asbestos may be present within hardcore under foundations and ground slabs across areas of the site. The historic maps have also indicated that demolition of some buildings of the site may have occurred and therefore demolition debris may comprise a source of asbestos at the site.

No olfactory or visual evidence of contamination was noted on site.

9.4 Preliminary Conceptual Model

		Potential pathways												
		Inhalation of contaminated vapour	Inhalation of contaminated dust	Direct Soil Ingestion	Direct dermal contact	Inhalation of asbestos	Drinking contaminated water supply	Direct contact of soil with building materials	Surface water run-off	Surface water percolation to groundwater	Migration via groundwater	Build-up of ground gas		
		Comments on discounted pathways												
Receptors	Site Users / Residents	Y	Y	Y	Y	Y	Y					N		No potentially significant sources of land gas identified. This is to be reviewed if significant organic containing material is identified on site.
	Construction / Maintenance Operatives	Y	Y	Y	Y	Y						N		
	Neighbours	Y	Y			Y			Y		Y	N		
	Proposed Building							Y				N		
	Watercourse								N		N		Nearest watercourse too distant	
	Aquifer									Y				

Schematic Conceptual Model



Sources	Pathways	Receptors
1 Commercial site uses	A Inhalation, ingestion, dermal contact, vapours	i Residents & Site Users
2 Hardcore under foundations and ground slabs and demolition debris	B Drinking contaminated water supply	ii Construction & Maintenance Operatives
3 Maydencroft Farm (former offsite land use)	C Direct contact of soil with building materials	iii Neighbours
4 Naturally occurring contaminants	D Surface water run-off	iv Proposed Building
	E Surface water percolation to groundwater	v Groundwater (Secondary A Aquifer & Principal Aquifer)
	F Migration via groundwater	

10 RISK ASSESSMENT

The level of information provided by the Landmark report and historic Ordnance Survey maps, together with the other information within the report is considered suitable to provide the data for a satisfactory risk assessment for the site. While there will always be uncertainties due to known or unknown gaps in information it is considered that sufficient information is available to reduce those uncertainties to within acceptable limits for the nature of the site under review.

An asbestos survey of existing structures and infrastructure (as defined under Section 5(a) of the Control of Asbestos Regulations 2012) was beyond the brief of this report. The risk assessment has been undertaken on the basis that should asbestos be identified within buildings or infrastructure, these materials will be removed appropriately by licensed contractors and asbestos materials disposed of in accordance with legal requirements prior to demolition or other works in order to avoid contaminating soils at the site.

Sources	Potential pollutant	Receptor	Pathway	Hazard severity	Likelihood of occurrence	Risk / Significance	Comment & control measures
Commercial site uses	Metals, Hydrocarbons, PAHs, Pesticides	Residents & Site Users	Dermal contact	Mild	Likely	Moderate/Low risk	Contamination testing
			Inhalation of vapours, indoors and outdoors	Mild	Low Likelihood	Low risk	No further action required
			Soil Ingestion and Home Produce Consumption	Medium	Likely	Moderate risk	Contamination testing
			Inhalation of contaminated dust	Medium	Likely	Moderate risk	Contamination testing
			Drinking of water from supply impacted by contaminated soil	Medium	Low likelihood	Moderate/Low risk	Upgraded water supply pipe may be required by water supply company. It is recommended that this report is provided to the water supplier with a request for the testing, if any, that they require.

Sources	Potential pollutant	Receptor	Pathway	Hazard severity	Likelihood of occurrence	Risk / Significance	Comment & control measures
Commercial site uses	Metals, Hydrocarbons, PAHs, Pesticides	Construction operatives	Dermal contact	Mild	Likely	Moderate/Low risk	Information to be contained in site Health & Safety Plan. Use of appropriate ppe and normal good hygiene measures. Appropriate dust control measures during construction.
			Inhalation of contaminated dust	Medium	Likely	Moderate risk	
			Soil Ingestion	Medium	Likely	Moderate risk	
			Inhalation of vapours, indoors and outdoors	Mild	Low likelihood	Low risk	No further action required
Commercial site uses	Metals, Hydrocarbons, PAHs, Pesticides	Maintenance Operatives	Dermal contact	Minor	Likely	Low risk	Information to be contained in site Health & Safety Plan.
			Soil Ingestion	Mild	Low likelihood	Low risk	
			Inhalation of contaminated dust	Mild	Low likelihood	Low risk	
			Inhalation of vapours, indoors and outdoors	Minor	Low likelihood	Very low risk	No further action required

Sources	Potential pollutant	Receptor	Pathway	Hazard severity	Likelihood of occurrence	Risk / Significance	Comment & control measures
Commercial site uses	Metals, Hydrocarbons, PAHs, Pesticides	Neighbours	Inhalation of Contaminated dust (during construction)	Medium	Low likelihood	Moderate/Low risk	Appropriate dust control measures during construction.
			Inhalation of Contaminated dust (post construction)	Medium	Low likelihood	Moderate/Low risk	Contamination testing
			Lateral migration of groundwater transporting contaminants to made ground/soil offsite	Mild	Likely	Moderate/Low risk	Contamination testing
			Surface water runoff	Mild	Likely	Moderate/Low risk	Contamination testing

Sources	Potential pollutant	Receptor	Pathway	Hazard severity	Likelihood of occurrence	Risk / Significance	Comment & control measures
Commercial site uses	Metals, Hydrocarbons, PAHs, Pesticides	Aquifer	Vertical percolation to groundwater via Foundations & Drainage	Medium	Low likelihood	Moderate/Low risk	Foundations and drainage should be designed in such a way that they do not create a pathway for surface water percolation.
			Vertical percolation to groundwater via soft landscaped and permeable areas	Mild	Likely	Moderate/Low risk	Contamination testing

Sources	Potential pollutant	Receptor	Pathway	Hazard severity	Likelihood of occurrence	Risk / Significance	Comment & control measures
Hardcore under foundations and ground slabs and demolition debris	Asbestos	Construction Operatives	Inhalation (during construction)	Severe	Likely	High risk	Information to be contained in site Health & Safety Plan. Use of appropriate ppe and normal good hygiene measures. Appropriate dust control measures during construction.
		Maintenance Operatives		Severe	Likely	High risk	
		Neighbours		Severe	Low likelihood	Moderate risk	Appropriate dust control measures during construction.
		Residents, site users and neighbours	Inhalation (post construction)	Severe	Low likelihood	Moderate risk	Contamination testing

Sources	Potential pollutant	Receptor	Pathway	Hazard severity	Likelihood of occurrence	Risk / Significance	Comment & control measures
Maydencroft Farm (former offsite land use)	Metals, Pesticides	Residents & Site Users	Surface water run off	Mild	Low likelihood	Low risk	No further action required
			Lateral migration of groundwater transporting contaminants to made ground/soil on site	Mild	Low likelihood	Low risk	No further action required
		Construction Operatives	Surface water run off	Minor	Low likelihood	Very low risk	No further action required
			Lateral migration of groundwater transporting contaminants to made ground/soil on site	Minor	Low likelihood	Very low risk	No further action required

Sources	Potential pollutant	Receptor	Pathway	Hazard severity	Likelihood of occurrence	Risk / Significance	Comment & control measures
Maydencroft Farm (former offsite land use)	Metals, Pesticides	Maintenance Operatives	Surface water run off	Minor	Low likelihood	Very low risk	No further action required
			Lateral migration of groundwater transporting contaminants to made ground/soil on site	Minor	Low likelihood	Very low risk	No further action required
Naturally occurring contaminants	Sulphates pH	Proposed Building	Direct contact of soil with building materials	Medium	Likely	Moderate Risk	As the protection of concrete is normally resolved in the building design process, the designer of the foundations should determine the requirement to undertake any investigation.

Although the Home Produce Consumption would not apply to area C other pathways exist which require contamination testing in this area. Any visual or olfactory evidence of contamination noted during works should be investigated by a suitably qualified person and their recommendations implemented.

11 SITE WORK

11.1 Investigations

11.1.1 In order to determine if the current use of the site is a potential cause of contamination it is recommended that some site investigation should be undertaken based upon the requirements of BS 10175: 2001 which is the code of practice for the investigation of potentially contaminated sites. This may need to be phased with a preliminary investigation to determine if any further, or more detailed investigation is required. It is proposed that soil samples be taken from representative locations around the site and tested for a typical range of determinands, comprising asbestos, heavy metals, pH, speciated aromatic and aliphatic hydrocarbons, speciated PAHs and pesticides.

11.1.2 If significant organic containing material is identified within the made ground, then monitoring of potential ground gases, over a suitable period of time, will be required in order to determine the requirement for gas mitigation measures. Information to be contained in site Health & Safety Plan.

11.2 Site Preparation

During the works a watching brief should be maintained by an experienced person. Should any visual or olfactory evidence of contamination be noted during the works GO Contaminated Solution Ltd and the local authority Environmental Health Officer (EHO) should be contacted. GO Contaminated Solution Ltd shall assess if further intrusive investigation and remediation is required. Proposals will be issued to the EHO for comment prior to undertaking the additional investigation or implementing the remediation strategy.

The form of investigation proposed in 11.1.1 will indicate if there is any contamination present and if it is necessary will enable remedial works to be formulated.

If any potentially contaminated spoil is to be removed from site, the Waste Acceptance Criteria (WAC) testing should be agreed with the facility to which the spoil is being transported. It is recommended that consideration is given to this testing as part of the phase 2 investigation. Guidance can be obtained from Environment Agency document *Waste Sampling and Testing for Disposal to Landfill*.

11.3 External Works

In regard to water supply reference should be made to the UK Water Industry Research (UKWIR) publication "*Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites*" (Ref 10/WM/03/21; the '*UKWIR Guidance*'). This document provides guidance to ensure that water quality is safeguarded by identifying suitable pipe materials and components to be used below ground in potentially contaminated sites. An upgraded water supply pipe may be required by the water supply company. It is recommended that this report is provided to the water supplier with a request for the testing, if any, that they require.

12 SITE DEVELOPMENT CONSIDERATIONS

During the course of the site visit and preparation of this report the following items, whilst not within the scope of this report, have come to our attention and should be considered. This is not necessarily an exhaustive list.

12.1 An intrusive geotechnical investigation may be required to provide detailed information about the engineering nature of the ground, in order to allow the most suitable foundations in terms of economy and performance to be designed. This should follow the recommendations of BS 5930, the Code of Practice for site investigations with tests carried out to satisfy the requirements of BS 1377, the Code of Practice for methods of tests for soils for civil engineering purposes. It is recommended that this includes testing for sulphates.

12.2 As redevelopment of the property is proposed it is recommended that a full topographical survey is undertaken, if one is not available. This should identify all relevant features, boundaries and levels relating to the site and should also include ground levels on the adjacent properties and roads.

12.3 If it is proposed to make use of the existing drainage system, or any existing connections to the mains sewers. A CCTV survey should be considered in order to determine both the general condition and suitability for the proposed use.

12.4 If any excavation works are proposed, it is recommended that all the relevant utility companies are contacted to ascertain what pipes, cables, wires, lines and other apparatus exist close to where the work is to take place.

12.5 An asbestos survey of existing structures and infrastructure (as defined under Section 5(a) of the Control of Asbestos Regulations 2012) was beyond the brief of this report. Advice should be sought regarding the potential presence and management of asbestos within existing structures and infrastructure.

13 CONCLUSIONS

Based upon the information currently available, there would in principle, appear to be some significant contamination issues associated with the site and the following should be considered at this stage. It is considered that provided the recommendations of this report are implemented there is no increased risk to human health from redevelopment of the site for the proposed use.

13.1 There is potential contamination of the site from its current commercial uses.

13.2 It is recommended that some preliminary intrusive environmental site investigation is undertaken to determine if contamination is present on the property

13.3 .If significant organic containing material is identified within the made ground, then monitoring of potential ground gases, over a suitable period of time, may be required in order to determine the requirement for gas mitigation measures. Information to be contained in site Health & Safety Plan.

13.5 An upgraded water supply pipe may be required by the water supply company. It is recommended that this report is provided to the water supplier with a request for the testing, if any, that they require.

13.6 Should any visual or olfactory evidence of contamination be noted during the works this should be investigated by a suitably qualified person and their recommendations implemented.

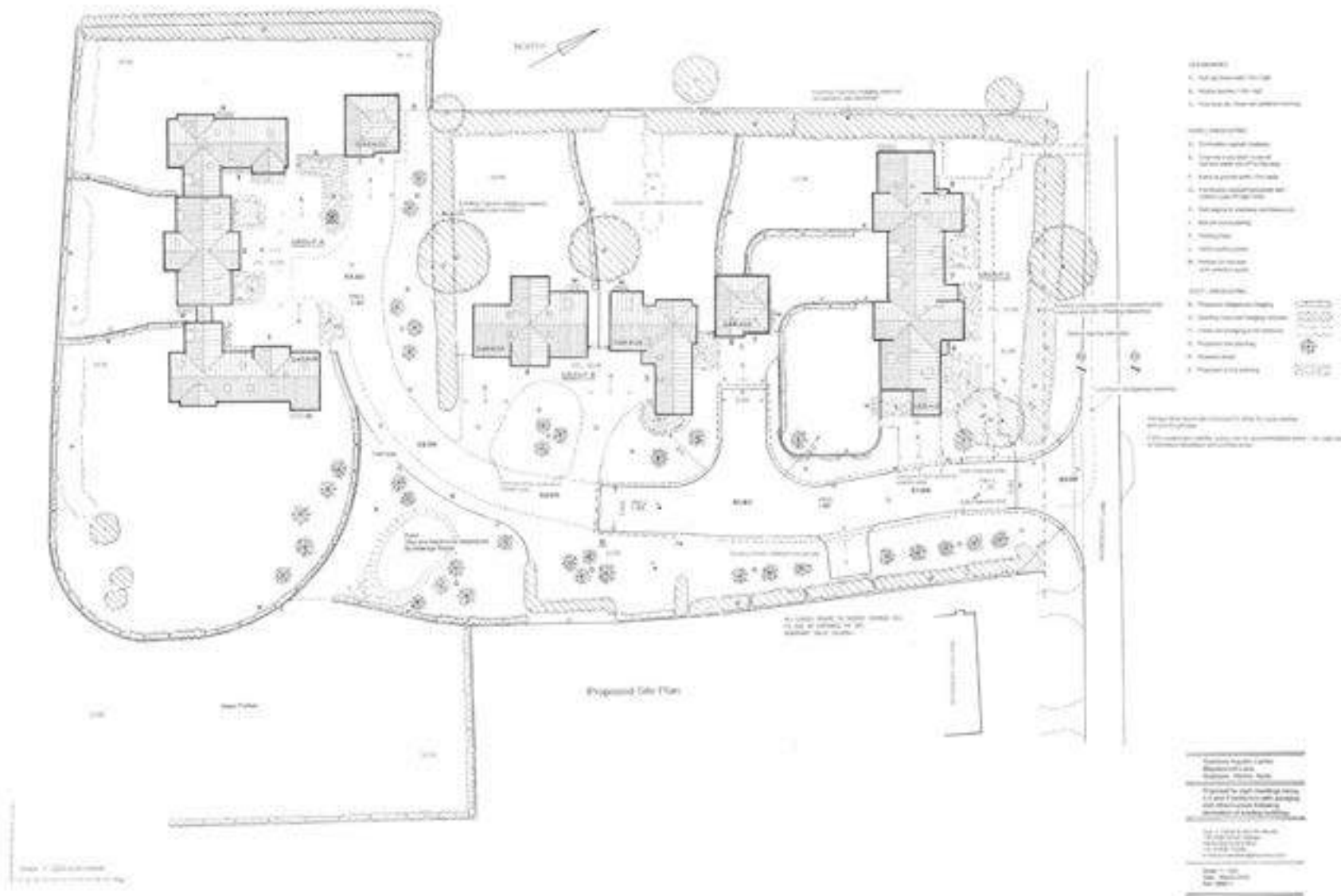
13.7 If any potentially contaminated spoil is to be removed from site, the Waste Acceptance Criteria (WAC) testing should be agreed with the facility to which the spoil is being transported.

14 REFERENCES

- Card, G. B., Wilson, S., & Mortimer, S. (2012). *A Pragmatic Approach to Ground Gas Risk Assessment*. London, UK: Contaminated Land: Applications in Real Environments.
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- Health and Safety Executive in the United Kingdom. (2012). *The Control of Asbestos Regulations 2012*.
- NHBC and Environment Agency. (2008). *Guidance for the Safe Development of Housing on Land Affected by Contamination*. NHBC and Environment Agency.
- UK Water Industry Research Ltd. (2010). *Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites*. UKWIR.
- Wilson, S., Oliver, S., Mallet, H., Hutchings, H., & Card, G. (2007). *CIRIA Report C665. Assessing risks posed by hazardous gases to buildings*. London, UK: Construction Industry Research and Information Association.

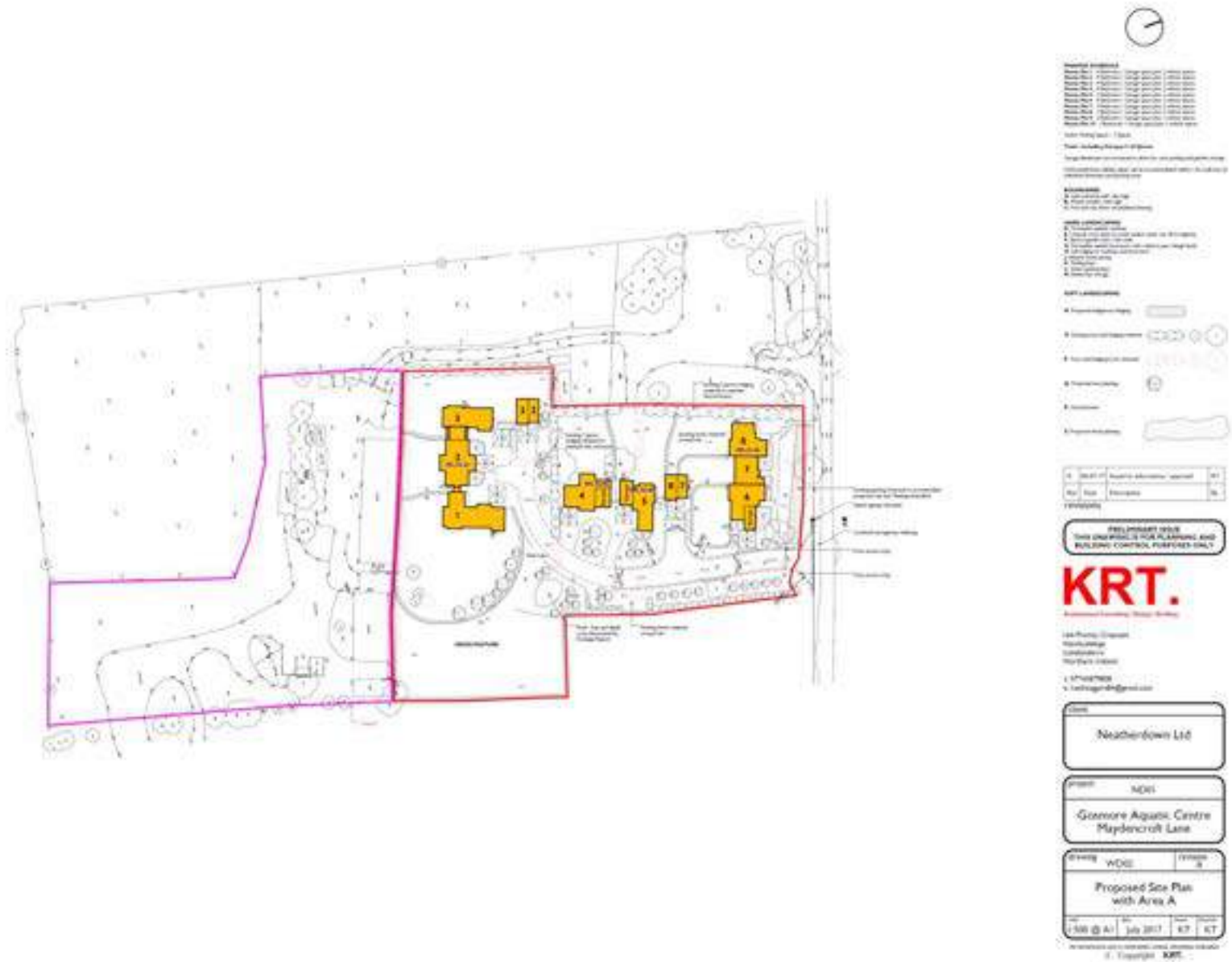
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Appendix A – Site Location Plan



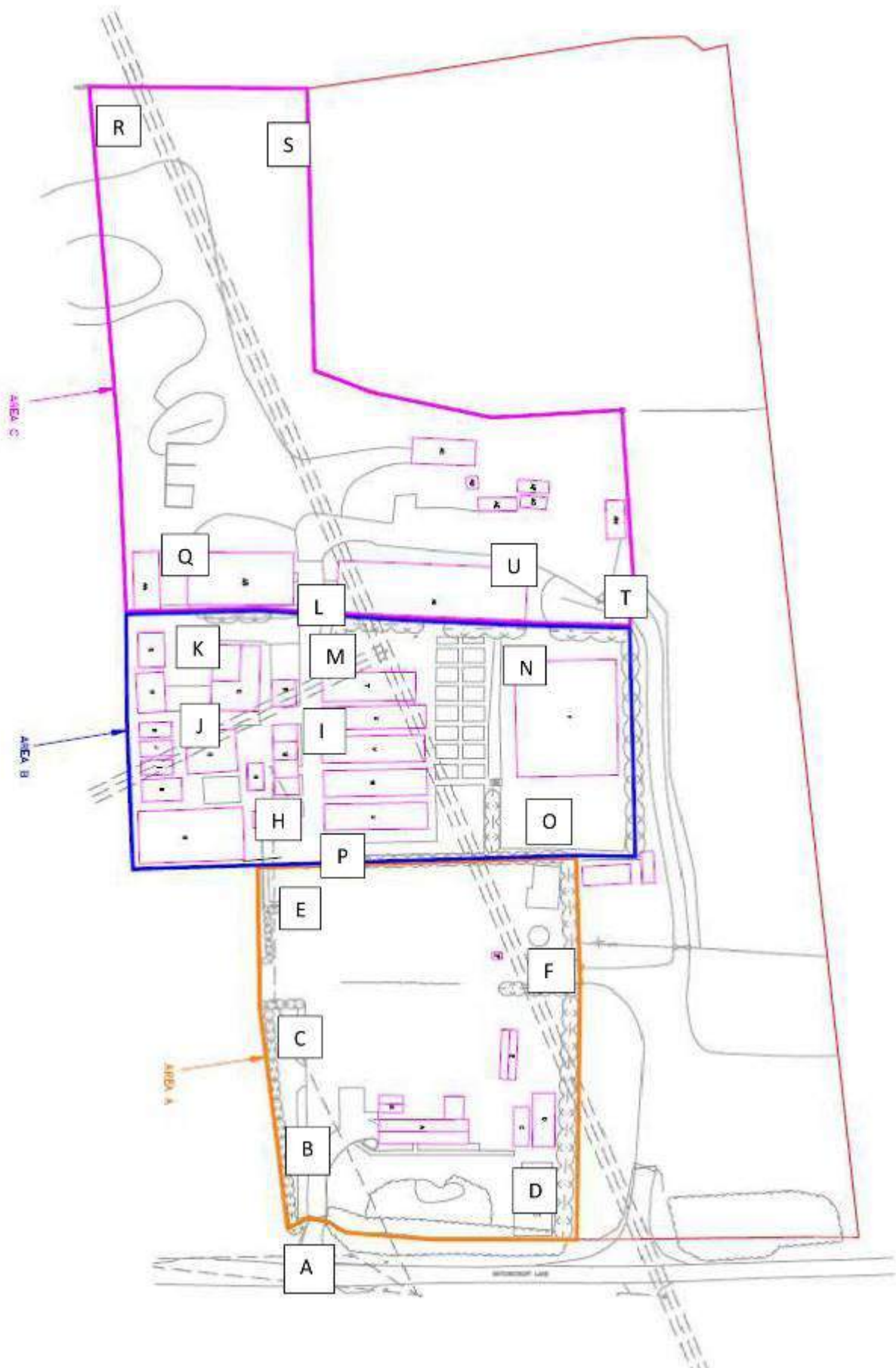
**1118-P1E-1-B: Paul Bromfield Aquatics, Hertfordshire
Netherdown (Herts) Ltd**

Appendix B – Proposed Site Plan



**1118-P1E-1-B: Paul Bromfield Aquatics, Hertfordshire
Netherdown (Herts) Ltd**

Appendix C –Photo Location Plan and Photographs





View looking south towards site entrance from location A



View looking west along Maydencroft Lane from location A



View looking east along Maydencroft Lane from location A



View looking south along site access road from Location B



View looking north from location C



View looking northwest from location C



View looking west from location C



View looking south from location D



View looking east from location D



View looking west from location E



View looking east from location F



View looking east from location H



View looking south from location H



View looking east from location I



View looking south from location J



View looking south west from location J



View looking west from location K



View looking north from location L



View looking west from location M



View looking northeast from location N



View looking southeast from location O



View looking east from location O



View looking south from location P



View looking north from location Q



View looking west from location Q



View looking southwest from location Q



View looking south from location Q



View looking north from location R



View looking west from location R



View looking northeast from location S



View looking north from location S



View looking east from location T



View looking southeast from location T



View looking south from location T



View looking south west from location U

Appendix D – Landmark Report Extracts

Where the overview indicates that no data has been found the relevant detail report sections may have been omitted.



Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

126080223_1_1

Customer Reference:

1118

National Grid Reference:

518400, 227140

Slice:

A

Site Area (Ha):

0.95

Search Buffer (m):

1000

Site Details:

Paul Bromfield Aquatics

Maydencroft Lane

Gosmore

St Ippolyts

Hertfordshire

SG4 7QD

Client Details:

Mr P George

GO Contaminated Land Solutions Ltd

4 De Frene Road

Sydenham

London

SE26 4AB

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	12
Hazardous Substances	-
Geological	14
Industrial Land Use	21
Sensitive Land Use	22
Data Currency	23
Data Suppliers	29
Useful Contacts	30

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 the attached 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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Report Version v53.0

Summary

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					
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 1	Yes			
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 1				1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 1				1
Water Abstractions	pg 2			1	5 (*25)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 9	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 9	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 9	Yes	n/a	n/a	n/a
Source Protection Zones	pg 9	2	1		1
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				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 10			1	13

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 12			3	2
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 13	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 13			2	1
Potentially Infilled Land (Non-Water)	pg 13			1	1
Potentially Infilled Land (Water)					
Registered Landfill Sites					
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					

Summary

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 14	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 14	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 17			4	8
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 18	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 19	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 19		Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 19	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 20	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 20		Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 21				5
Fuel Station Entries					
Points of Interest - Commercial Services	pg 21				1
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 21				4
Points of Interest - Public Infrastructure					
Points of Interest - Recreational and Environmental	pg 21				2
Gas Pipelines					
Underground Electrical Cables					

Summary

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 22	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	pg 22	2			
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Agency & Hydrological

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	A13SE (SW)	0	1	518399 227137
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	16	1	518450 227200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	123	1	518550 227250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14NW (NE)	326	1	518750 227300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	327	1	518750 227000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	374	1	518800 227000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A19SW (NE)	439	1	518750 227500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (NE)	443	1	518800 227450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (NE)	445	1	518700 227550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	448	1	518900 227137
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (NE)	458	1	518850 227400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SE (NE)	481	1	518850 227600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A19SW (NE)	475	1	518800 227500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (NE)	484	1	518900 227350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	485	1	518900 226950
	Nearest Surface Water Feature	A13NE (N)	0	-	518418 227189
	River Quality Name: Hiz GQA Grade: River Quality C Reach: Charlton Ph Confl. R. Oughton Estimated Distance (km): 4 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A17NE (NW)	932	2	517900 228000
1	Substantiated Pollution Incident Register Authority: Environment Agency - Thames Region, North East Area Incident Date: 9th December 2001 Incident Reference: 47360 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage	A19SE (E)	991	2	519387 227494

Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Water Abstractions Operator: Mr D Pearson Licence Number: 6/33/13/*G/063 Permit Version: Not Supplied Location: IPPOLLITTS Authority: Environment Agency, Anglian Region Abstraction: Domestic & Agriculture Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 2 Yearly Rate (m3): 4550 Details: C Chalk 2; Status: Revoked 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 10m	A8NE (SE)	427	2	518640 226700
3	Water Abstractions Operator: Affinity Water Limited Licence Number: 6/33/13/*G/0010 Permit Version: 102 Location: Well Head Charlton Authority: Environment Agency, Anglian Region Abstraction: Public Water Supply: Potable Water Supply - Direct 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 January Authorised End: 31 December Permit Start Date: 14th November 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	838	2	517800 227800
3	Water Abstractions Operator: Veolia Water Central Limited Licence Number: 6/33/13/*G/0010 Permit Version: 101 Location: Well Head Charlton Authority: Environment Agency, Anglian Region Abstraction: Public Water Supply: Potable Water Supply - Direct 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 January Authorised End: 31 December Permit Start Date: 20th July 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	838	2	517800 227800
3	Water Abstractions Operator: Three Valleys Water Plc Licence Number: 6/33/13/*G/0010 Permit Version: 100 Location: Well Head Charlton Authority: Environment Agency, Anglian Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: C Chalk 2; Status: Perpetuity Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st March 1994 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	838	2	517800 227800

Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Letchworth Garden City Licence Number: 6/33/13/*s/034 Permit Version: Not Supplied Location: Watercourse Southwest Of Great Wymondley, WYMONDLEY, Hertfordshire Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 2 Yearly Rate (m3): 727270 Details: Status: Perpetuity 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 10m	(E)	1848	2	520205 227750
	Water Abstractions Operator: William Ransom & Son Plc Licence Number: 6/33/13/*s/055 Permit Version: Not Supplied Location: River Hiz, HITCHIN CENTRE Authority: Environment Agency, Anglian Region Abstraction: Cooling Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 48 Yearly Rate (m3): 200000 Details: Status: Perpetuity 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 10m	(N)	1891	2	518500 229100
	Water Abstractions Operator: William Ransom & Son Plc Licence Number: 6/33/13/*s/055 Permit Version: Not Supplied Location: River Hiz, HITCHIN CENTRE Authority: Environment Agency, Anglian Region Abstraction: Cooling Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 48 Yearly Rate (m3): 200000 Details: Status: Perpetuity 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 10m	(N)	1993	2	518600 229195
	Groundwater Vulnerability Soil Classification: Soils of Intermediate Leaching Potential (I1) - Soils which can possibly transmit a wide range of pollutants. Map Sheet: Sheet 31 Bedfordshire Scale: 1:100,000	A13SE (SW)	0	2	518399 227137
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A13SE (SW)	0	1	518399 227137
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SE (SW)	0	1	518399 227137
5	Source Protection Zones Name: Various Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	A13SE (SW)	0	2	518399 227137
6	Source Protection Zones Name: Various Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	A13SE (SW)	0	2	518399 227137

Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Source Protection Zones Name: Various Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone 1 (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	A13NW (NW)	250	2	518238 227407
8	Source Protection Zones Name: Well Head, Charlton Source: Environment Agency, Head Office Reference: An118 Type: Groundwater Source	A17NE (NW)	888	2	517780 227830
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
9	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 218.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A18SE (N)	314	3	518411 227525
10	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 59.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 2	A17SW (NW)	896	3	517620 227666
11	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 144.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Hiz Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A17SW (NW)	900	3	517659 227727
12	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Hiz Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A17SW (NW)	911	3	517618 227688
13	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 241.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Hiz Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A17SW (NW)	913	3	517605 227675
14	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 154.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Hiz Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A17SW (NW)	933	3	517693 227812

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	Historical Landfill Sites Licence Holder: Not Supplied Location: Gosmore, Hitchin Name: Maydencroft Manor Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD00778 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Not Supplied EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: 179/PRE-76, HCC/179, 1900/5106	A13NE (NE)	285	2	518548 227456
24	Historical Landfill Sites Licence Holder: C T Micklem Esquire Location: Gosmore, Hitchin Name: Maydencroft Manor Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD00776 First Input Date: 31st December 1970 Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 1900/0081 BGS Ref: Not Supplied Other Ref: HCC/179, 179/PRE-76, 1900/5106	A13NW (NW)	382	2	518058 227394
25	Historical Landfill Sites Licence Holder: Not Supplied Location: Gosmore, Hitchin Name: Maydencroft Manor Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD00777 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Not Supplied EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: HCC/179, 179/PRE-76, 1900/5107	A18SW (N)	404	2	518381 227616
26	Historical Landfill Sites Licence Holder: Not Supplied Location: Gosmore, Hitchin Name: Maydencroft Manor Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD00780 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Not Supplied EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: HCC/179, 179/PRE-76, 1900/5104	A18SE (N)	526	2	518567 227710
27	Historical Landfill Sites Licence Holder: Not Supplied Location: Gosmore, Hitchin Name: Maydencroft Manor Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD00779 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Not Supplied EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: HCC/179, 179/PRE-76, 1900/5105	A18SE (N)	541	2	518433 227752

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Hertfordshire County Council - Has supplied landfill data		0	4	518399 227137
	Local Authority Landfill Coverage Name: North Hertfordshire District Council - Has supplied landfill data		0	5	518399 227137
28	Local Authority Recorded Landfill Sites Location: Maydencroft Manor, Reference: 179 Authority: North Hertfordshire District Council, Environmental Health Department Last Reported: Closed Status: Types of Waste: Non-Putrescible Date of Closure: 03/09/1980 Positional Accuracy: Located by supplier to within 10m Boundary Quality: Not Applicable	A18SE (N)	306	5	518500 227500
29	Local Authority Recorded Landfill Sites Location: Maydencroft Manor, South Of Hitchin Reference: 271 Authority: Hertfordshire County Council, Spatial Planning and Economy Unit Last Reported: Unknown Status: Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Applicable	A18SE (N)	499	4	518500 227700
30	Local Authority Recorded Landfill Sites Location: Priory Park Reference: 477 Authority: Hertfordshire County Council, Spatial Planning and Economy Unit Last Reported: Not Supplied Status: Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Located by supplier to within 10m Boundary Quality: Not Applicable	A23SE (N)	951	4	518444 228162
31	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A12NE (NW)	384	-	518045 227380
32	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14NW (E)	550	-	518967 227358

Geological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Grey Chalk Subgroup	A13SE (SW)	0	1	518399 227137
	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: 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SW (SW)	0	1	518346 227113
	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: 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A13SE (SW)	0	1	518399 227137
	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: 30 - 45 mg/kg Concentration:	A13SE (S)	77	1	518446 226984
	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: 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SE (S)	150	1	518426 226915
	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: 30 - 45 mg/kg Concentration:	A13NE (N)	185	1	518408 227387
	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: 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SW (SW)	234	1	518132 226997

Geological

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: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A14SE (E)	834	1	519223 226817
	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: 30 - 45 mg/kg Concentration:	A14NE (E)	864	1	519316 227147
	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: 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A17NE (NW)	987	1	517837 228000
33	BGS Recorded Mineral Sites Site Name: Maidencroft Pits Location: Brick Kiln Lane, Gosmore, Hitchin, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 164108 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Head Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13NW (N)	263	1	518344 227469
34	BGS Recorded Mineral Sites Site Name: Maidencroft Pits Location: Brick Kiln Lane, Gosmore, Hitchin, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 164107 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Head Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A18SE (N)	339	1	518512 227531
35	BGS Recorded Mineral Sites Site Name: Maidencroft Pits Location: Brick Kiln Lane, Gosmore, Hitchin, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 164109 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Head Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A18SE (N)	418	1	518401 227630

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
42	BGS Recorded Mineral Sites Site Name: Maidencroft Pits Location: Brick Kiln Lane, Gosmore, Hitchin, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 164112 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Head Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A18SW (N)	606	1	518244 227798
43	BGS Recorded Mineral Sites Site Name: Maidencroft Pits Location: Brick Kiln Lane, Gosmore, Hitchin, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 164114 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Head Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A18NW (N)	726	1	518169 227901
44	BGS Recorded Mineral Sites Site Name: Maidencroft Pits Location: Brick Kiln Lane, Gosmore, Hitchin, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 164113 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Head Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A18NW (N)	737	1	518267 227937
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	518399 227137
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	518399 227137
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	518399 227137
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	518399 227137
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	21	1	518312 227129
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	123	1	518215 227090
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	234	1	518132 228997
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	518399 227137

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	123	1	518215 227090
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	234	1	518132 226997
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	518399 227137
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	123	1	518215 227090
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	234	1	518132 226997
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	518399 227137
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	77	1	518446 226994
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	185	1	518408 227387
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	207	1	518172 227249
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	518399 227137
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	518399 227137

Sensitive Land Use

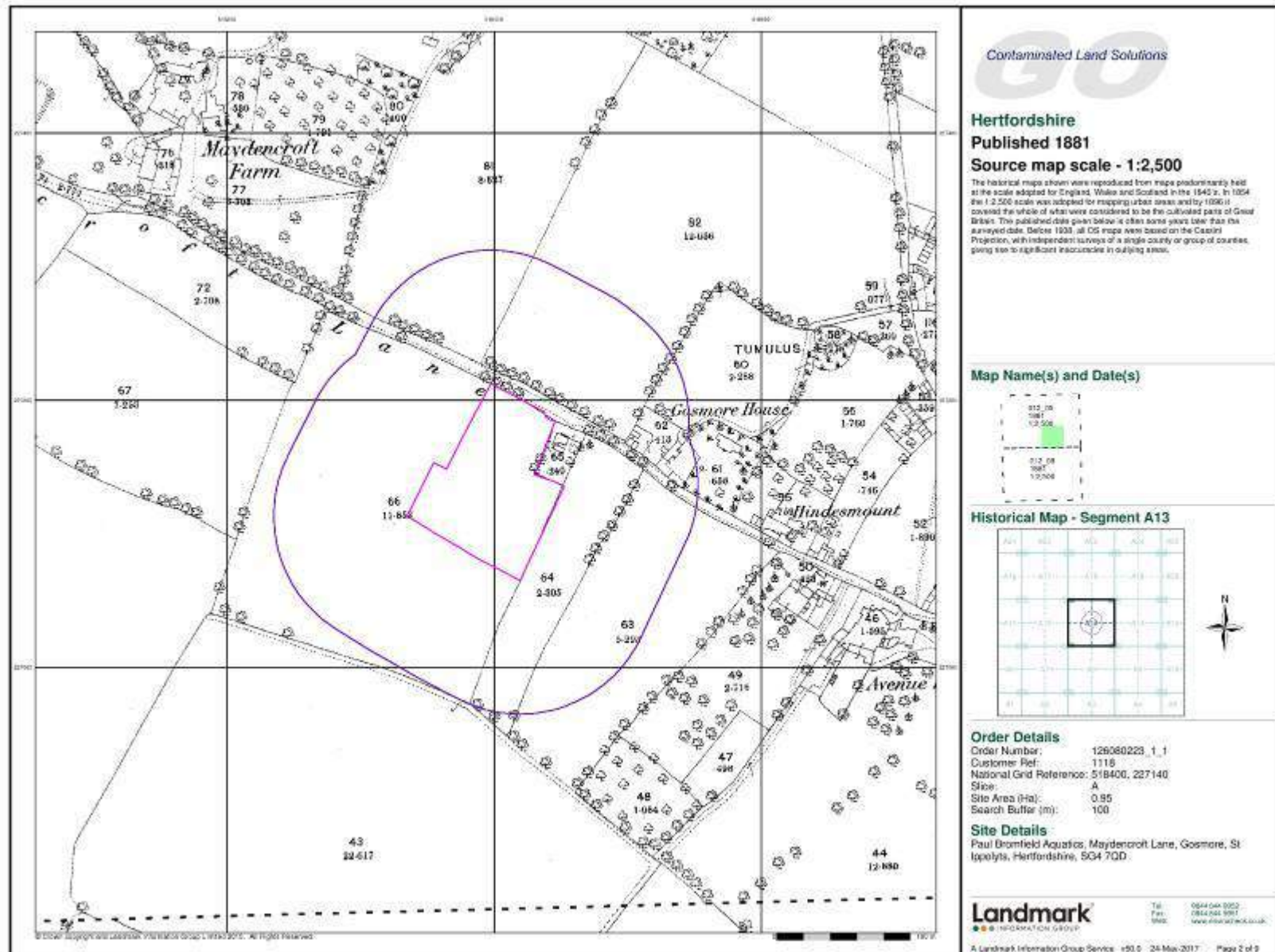
Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
54	Areas of Adopted Green Belt Authority: North Hertfordshire District Council Plan Name: North Hertfordshire District Local Plan Status: Adopted Plan Date: 30th April 1996	A13SE (SW)	0	8	518399 227137
55	Nitrate Vulnerable Zones Name: Not Supplied Description: Surface Water Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A13SE (SW)	0	9	518399 227137
56	Nitrate Vulnerable Zones Name: Not Supplied Description: Groundwater Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A13SE (SW)	0	9	518399 227137

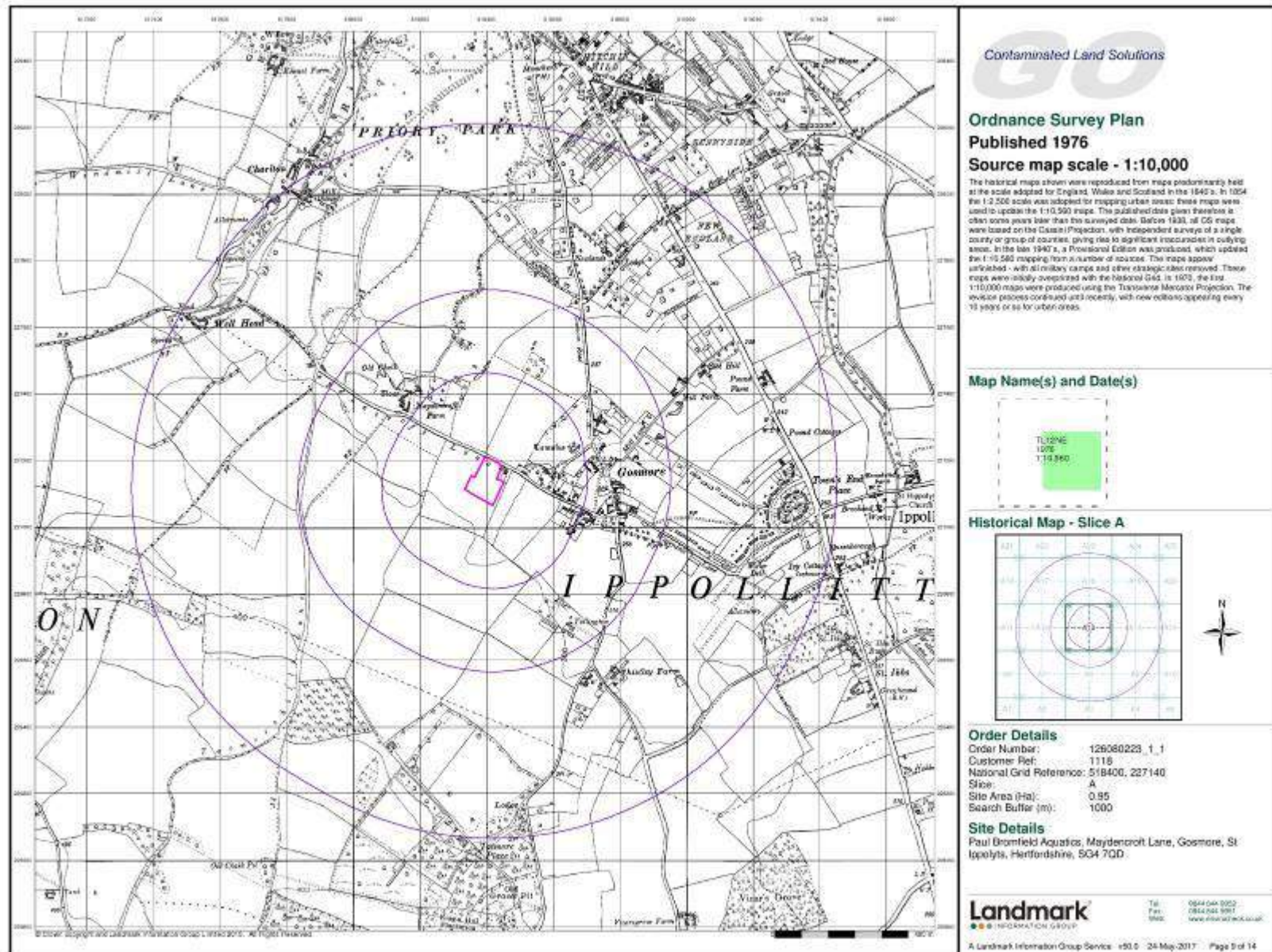
Data Currency

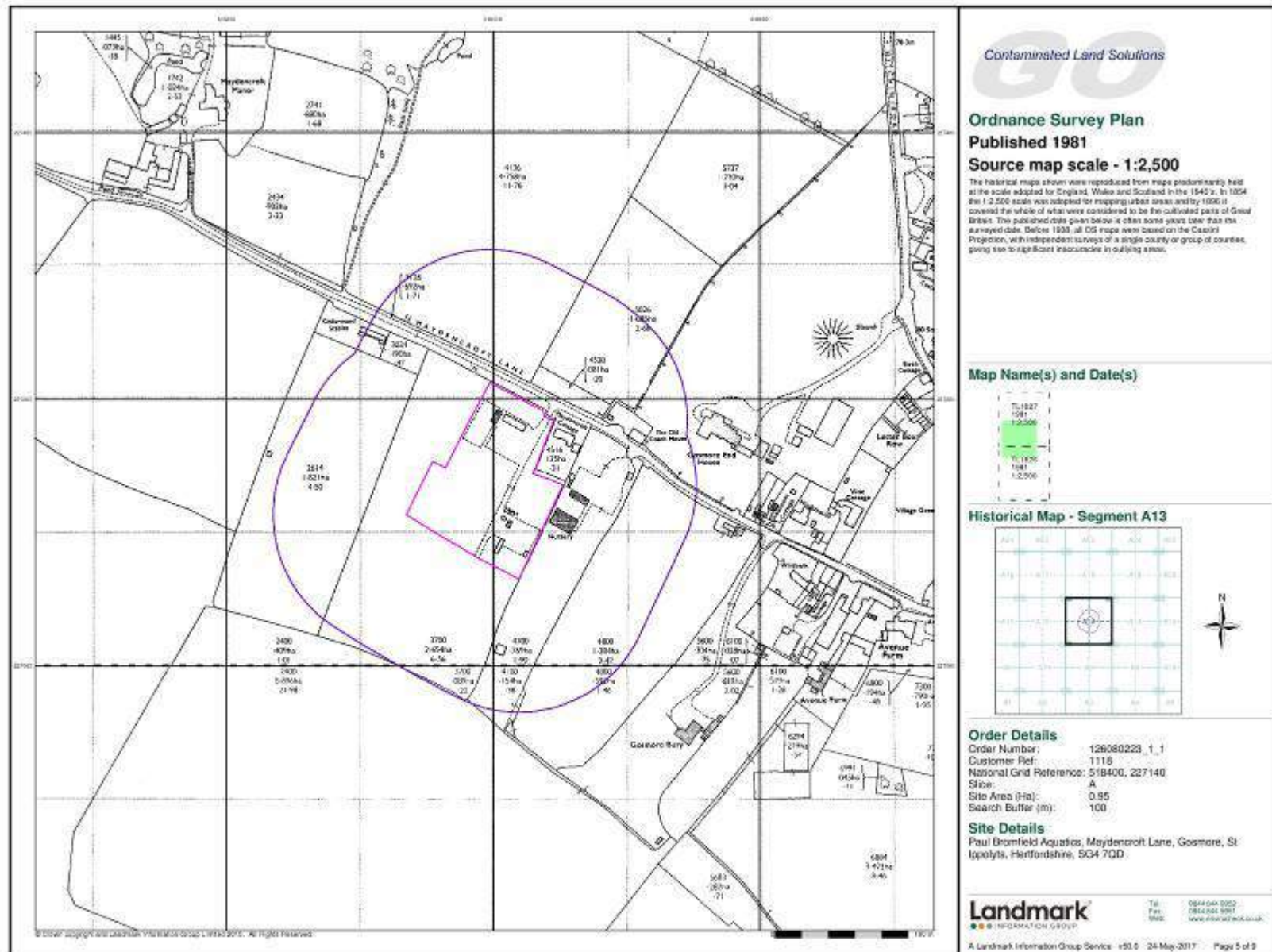
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	March 2017	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2017	Quarterly
Gas Pipelines National Grid	July 2014	Quarterly
Points of Interest - Commercial Services PointX	December 2016	Quarterly
Points of Interest - Education and Health PointX	December 2016	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2016	Quarterly
Points of Interest - Public Infrastructure PointX	December 2016	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2016	Quarterly
Underground Electrical Cables National Grid	December 2015	Bi-Annually

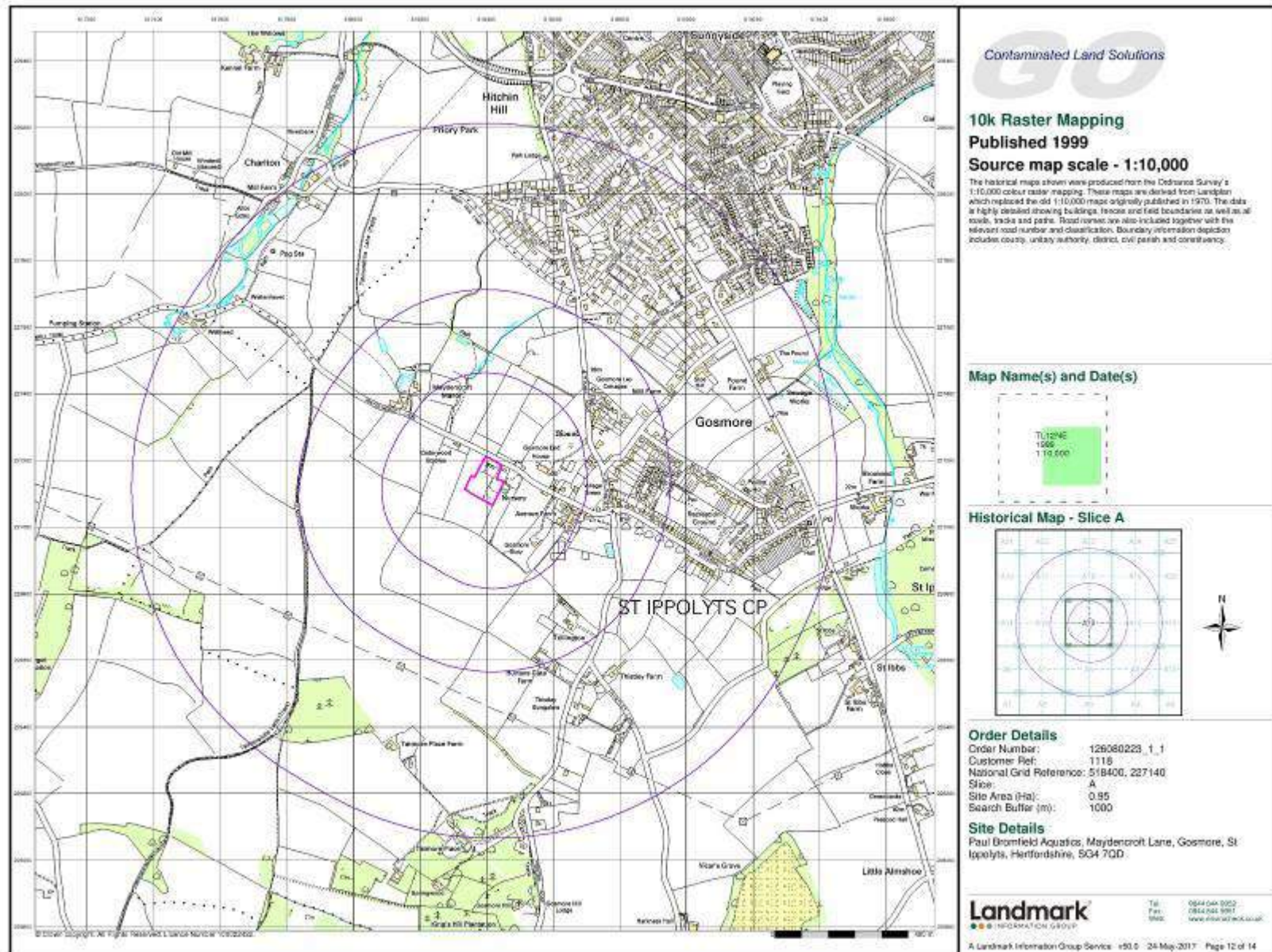
Appendix E – Historical Maps

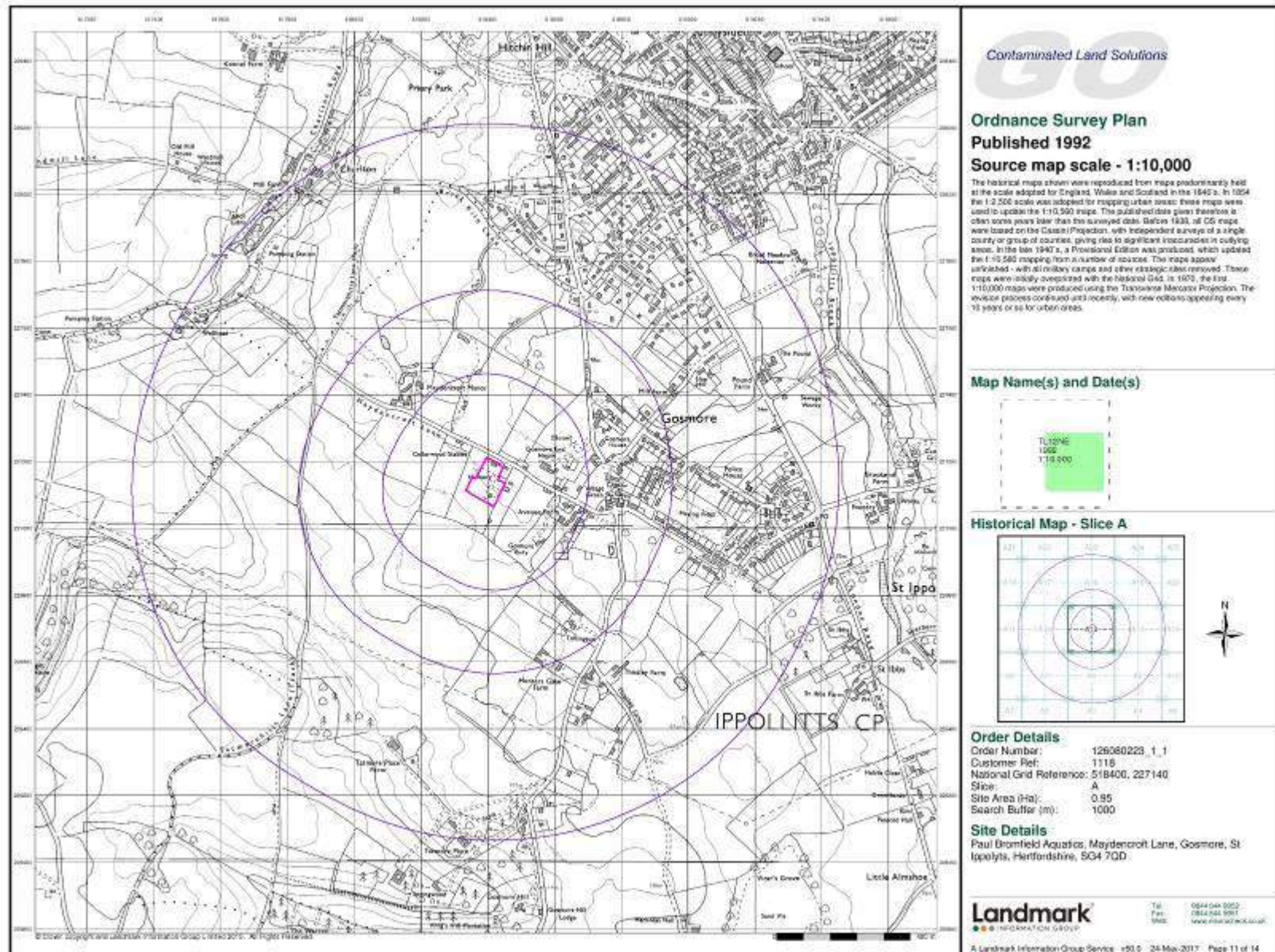
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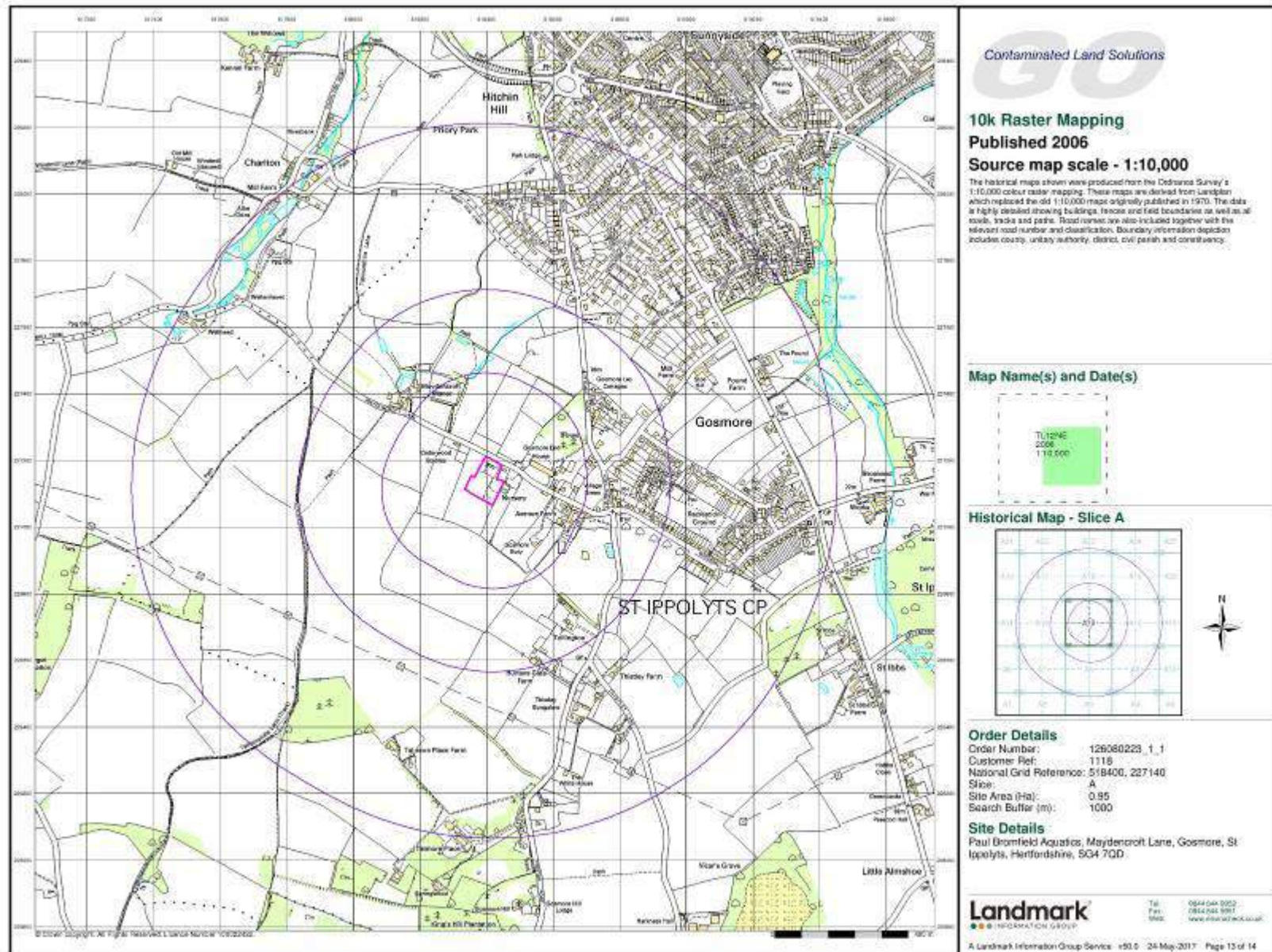


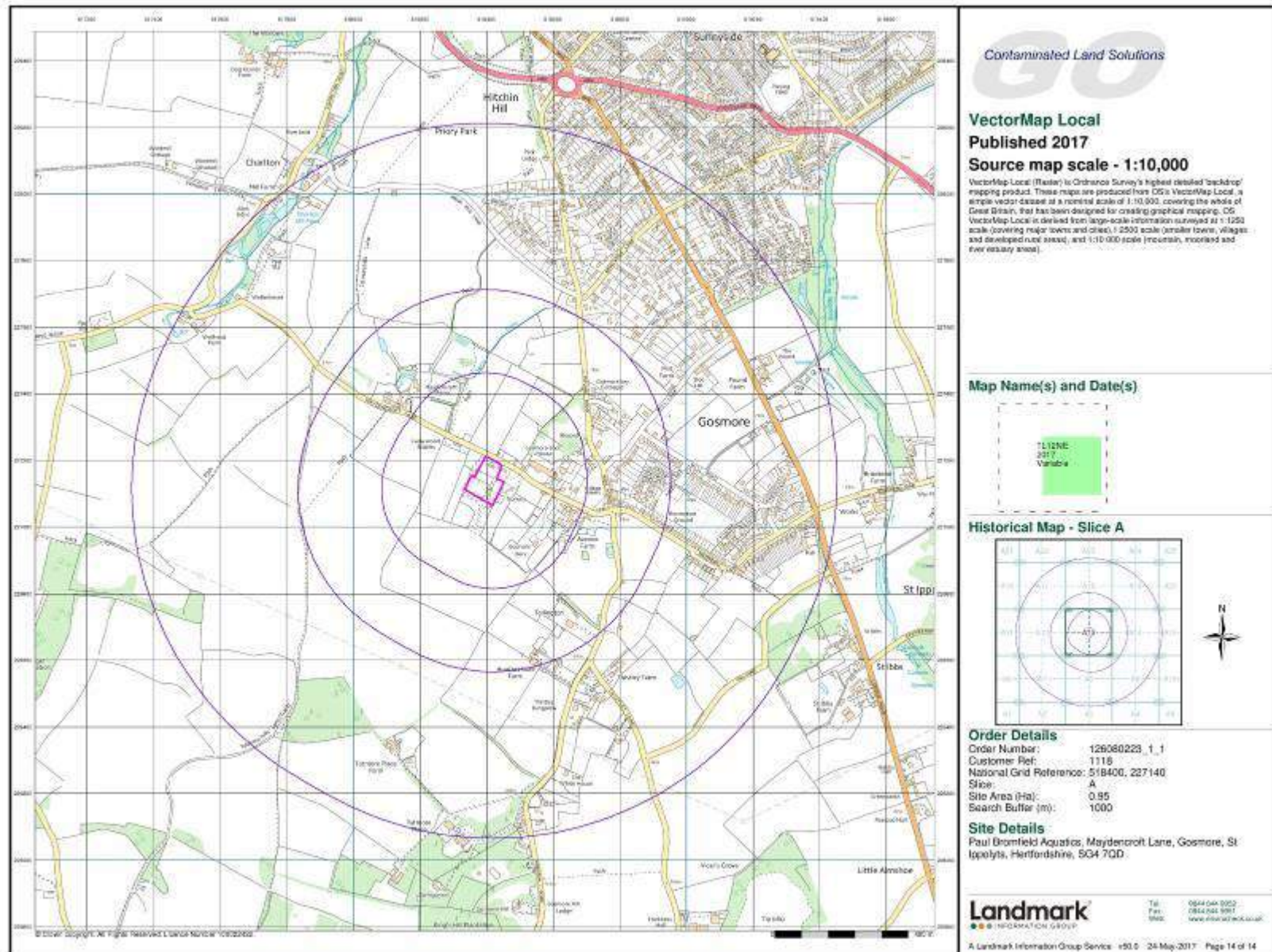












**1118-P1E-1-B: Paul Bromfield Aquatics, Hertfordshire
Netherdown (Herts) Ltd**

Appendix F – Owner’s Questionnaire

Questionnaire, for completion by current or previous owner or manager, please enter Not Known where you are unable to provide an answer.

Paul Bromfield Aquatics, Maydencroft Lane, Hertfordshire

I have owned/managed* the above site from 2007 to 2017
(*delete as appropriate)

Existing site & property details:

Site use:	<u>Garden Centre</u>
Number of Buildings:	<u>20</u>
Building 'A', Nature of Use: (insert lines as required)	<u>Aquatic Garden Centre</u>
Date of Construction	<u>1972</u>
Land Area (ha):	<u>0 - 80 ha</u>
Current Tenants:	<u>Colin Boggis, Hales.</u>
Any asbestos containing materials?	<u>Not known</u>
Asbestos Survey available?	<u>No</u>
Any archaeological, geotechnical or environmental reports?	<u>No</u>

Current site utilities:

Commercial/Household Waste Disposal	<u>NHDC</u>
Sewage Discharge and Disposal	<u>to main drainage, yes/no, if other please specify</u> <u>NO</u>
Surface Water Drainage	<u>to main drainage/soakaway, if other please specify</u> <u>Soakaway</u>
Source of heating and cooling	<u>e.g. oil fired</u> <u>stand alone oil heaters to office.</u> <u>Air-con to plant cooler room only</u>
Wells?	<u>NO</u>
Septic System?	<u>YES</u>

Historical site activities (if answered 'yes', please provide details):

Are you aware of any other past use of the site?	No
Are you aware of any other past use of adjacent areas?	Residential, horse grazing, Garden Centre
Has anything been buried on or within 250m of the site?	No
Have any chemicals been stored on or within 250m of the site?	No
Have any potentially contaminating processes been undertaken either on or within 250m of the site?	No
Has there been any oil or fuel storage on or within 250m of the site?	No
Has any fill material been deposited on or within 250m of the site?	No
Have any animals been kept on site?	No

Signature

[Redacted Signature]

Date

1/6/17

Name

D. Edwards

Company

Paul Bromfield Aquatics

Appendix G – Contacts

Local Authority	North Hertfordshire District Council Town Lodge Gernon Road Letchworth Garden City Hertfordshire SG6 3HN	01462 474263
		env.health@north-herts.gov.uk
Environment Agency	National Customer Contact Centre PO Box 544 Rotherham S60 1BY	08708 506 506
		enquiries@environment-agency.gov.uk
Coal Authority	Mining Reports Office 200 Lichfield Lane Berry Hill, Mansfield Notts, HG18 4RG	
		www.coalminingreports.co.uk
Health Protection Agency, Radiation Protection Division	Chilton Didcot Oxon, OX11 0RQ	01235 822622
		radon@hpa.org.uk
		www.hpa.org.uk/radiation

Attachment 3
Site Photographs



Attachment 4

Previous Verification Report Prepared Following Remediation

**Prepared by Brown 2 Green Associates Ltd, Verification Report, Former Paul
Bromfield Aquatics, Maydencroft Lane, Gosmore, Hertfordshire; Ref 2220/Rpt 5 v1,
dated October 2021**



Geotechnical and Geo-environmental Consultants

VERIFICATION REPORT

**FORMER PAUL BROMFIELD AQUATICS
MAYDENCROFT LANE
GOSMORE
HERTFORDSHIRE**

**Reference Number 2220/Rpt 4 v1
October 2021**

Prepared for

Netherdown (Herts) Ltd
58 Bridge Road East
Welwyn Garden City
Hertfordshire
AL7 1JU

By

Brown 2 Green Associates Ltd
Suite 1, Wenden Court
Station Road
Wendens Ambo
Saffron Walden, Essex
CB11 4LB

Tel: 01799 542473

Web address: www.brown2green.co.uk

Client	Netherdown (Herts) Ltd
Client Address	58 Bridge Road East Welwyn Garden City Hertfordshire AL7 1JU
Report Title	Verification Report: Former Paul Bromfield Aquatics, Maydencroft Lane, Gosmore, Hertfordshire
Reference Number	2220/Rpt 5v1
Date	October 2021

Prepared By	Philip Miles BSc, MSc, C Geol (Director)	
Reviewed By	Eileen Miles Dip (Open), Cert (Open) (Director)	
Reviewed and Approved By	Philip Miles BSc, MSc, C Geol (Director)	

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APPENDICES

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1 INTRODUCTION

Brown 2 Green Associates Ltd have been commissioned by Netherdown (Herts) Ltd to undertake verification of remediations works completed at the site formally occupied by Paul Bromfield Aquatics, Maydencroft Lane, Gosmore, Hertfordshire. The site is located at National Grid Reference 518400, 227140.

A Phase 1 Desk Study was prepared by GO Contaminated Land Solutions. The findings of the Desk Study are presented in the report titled:

- Phase 1 Environmental Report of a site at Paul Bromfield Aquatics, Maydencroft Lane, Hertfordshire; dated 16th July 2018 Report Reference 1118-P1E-1-B Revision B.

A Phase 2 Geo-environmental Site Investigation was undertaken by Brown 2 Green Associates Ltd. The findings are presented in the following reports:

- Geo-environmental Site Investigation Report, Former Paul Bromfield Aquatics, Maydencroft Lane, Gosmore, Hertfordshire; dated April 2019; Report Reference: 2220/Rpt 1 v3.
- Supplementary Geo-environmental Site Investigation Report, Former Paul Bromfield Aquatics, Maydencroft Lane, Gosmore, Hertfordshire; dated May 2020; Report Reference: 2220/Rpt 3 v1.

The investigation identified a requirement for remediation. A remediation strategy has been prepared by Brown 2 Green Associates. The information is presented in the report titled:

- Remediation Method Statement: Former Paul Bromfield Aquatics, Maydencroft Lane, Gosmore, Hertfordshire; dated February 2020; Ref 2220/Rpt 4 v1.

The Remediation Method Statement recommended the excavation of the contaminated made ground, followed by the verification.

This report presents the results of a verification visit and sampling undertaken immediately following the removal of the made ground that was impacted with asbestos, verification completed following the removal of polycyclic aromatic hydrocarbons that were identified across the northern part of the site, the made ground in the south west corner and the placement of top soil within Plots 1 to 5.

1.1 Proposed Development

The developments consists of detached and semi-detached houses with private gardens and communal landscaping. Land within the southern corner of the site will become a grass pasture and will be used for the infiltration of drainage from the site. This land will be fenced from the residential development and will be maintained by the development maintenance company. The proposed development layout is presented in a drawing prepared by Sidly Design, drawing number 18-121-10 and is presented as Figure II.

1.2 Objectives

The objectives of the remediation are to:

- Break the pollutant linkages that were identified as being active during the site investigation works.

- Render the site suitable for the intended end use as a residential development with private gardens.
- Render the site incapable of determination as contaminated land under Part 2A

2 SUMMARY OF PREVIOUS INVESTIGATION

2.1 Ground Conditions

Made Ground

The boreholes and trail pits indicate that the majority of the site was underlain by disturbed ground consisting of mid to dark brown, slightly gravelly, slightly sandy clay with gravels of fine to medium flints and rare brick fragments. The first phase of site investigation identified the presence of road scalplings across localised parts of the site.

Up to 2.3m of made ground was identified within a raised area located in the south west corner of the site. The greater thickness is due because the ground levels within this part of the site have been raised. The made ground consisted of: brown mottled yellow brown and red brown, gravelly (fine to coarse flints), slightly sandy to sandy, silty clay with variable percentages of anthropogenic materials including fragments and whole bricks, metal, plastic concrete fragments to blocks. In TP26 the made ground consisted of dark brown gravelly, slightly silty, sandy clay with gravel of fine to medium, subangular to sub-rounded flint and rare fragments of wood/peaty material. A yellow-brown sand & gravel was identified across the ground surface.

A backfilled pond located adjacent to the eastern boundary of the site contained up to 0.8m of made ground. The made ground consists of dark brown, medium to coarse sand and gravel. The gravel consists of medium to coarse flints with fragments of crushed concrete. At the base of made ground there was a series of plastic pipes and a pond liner.

Natural Strata

The made ground is underlain by an interbedded slightly clayey, silty fine to coarse sand, gravelly sand and silty fine to medium sandy gravel.

Visual and Olfactory Evidence of Contamination

No visual or olfactory evidence of contamination was noted. Within the made ground that is present within the south west corner variable quantities of anthropogenic materials were encountered. In the backfill of the pond (TP32 and TP33) concrete blocks were identified together with a pond liner and plastic pipes at the base of the made ground. No materials suspected to contain asbestos were identified.

2.2 Contamination Assessment

The Tier I Human Health Risk Assessment completed as part of the previous phase of investigation determined the presence of PAHs and TPH concentrations within the made ground within localised parts of the site at levels that were above the GAC. The assessment identified the source of the concentrations was fragments of asphalt that were present across the ground surface. Where these concentrations are present within parts of the site to be developed as private front and rear gardens active pollution pathways will be created. Where the concentrations are present within parts of the site to be developed as a grass pasture the concentrations will not pose a significant risk. The placement of clean top soil within these parts of the site will also act as a barrier to prevent exposure.

Up to 2.3m of made ground was identified in the south west corner. The made ground consists of an area that has been raised above the surrounding land. As part of the development the ground levels will be reduced. The risk assessment identified concentrations of arsenic and PAHs at levels

that would pose a significant risk to human health if the soil was placed within parts of the site to be developed as private gardens. The soil is suitable for reuse within the drainage field.

Fragments of asbestos containing cement sheeting and loose asbestos fibres were identified within demolition waste that has been used to backfill a former pond that was located adjacent to the southern boundary. This part of the site will be developed as soft landscaping. Based on the results of the human health risk assessment it is considered that the presence of the asbestos containing materials and loose fibres may pose a significant risk to human health.

The Tier I Controlled Water Risk Assessment has determined that there are no unacceptable concentrations of potential contaminants within the underlying soils that would pose a potential risk to controlled waters.

The monitoring and risk assessment for bio-genic ground gas concluded that there is no risk from ground gas.

The risk assessment in respect to the future planting and towards sensitive ecological receptors identified that the determinants at the site would not pose a potential risk.

The risk assessment in respect to water supply infrastructure identified that the determinants at the site would not pose a potential risk to the integrity of PE or PVC pipework.

In light of the results of the both phases of site investigation and the Risk Screening Assessment presented, the Conceptual Model developed has been updated. The Conceptual Model is presented below.

Source	Potential migration pathway	Potential Receptors	Discussion, Remedial or Precautionary Measures and Mitigating Factors
Hydrocarbon compounds (TPH and PAH) from coal tars within the asphalt scalpings were identified across the site.	Ingestion of contaminated soil and dust by direct contact and soil attached to home grown vegetables. Inhalation of dust (indoor and outdoor).	Future site users	Active pollution linkages present within areas to be developed as gardens and soft landscaping. Surface scrape to remove all fragments of asphalt scalpings and other unsuitable materials from areas to be developed as private gardens (front and back).
Arsenic and PAH concentrations in made ground located in south west corner	Ingestion of contaminated soil and dust by direct contact and soil attached to home grown vegetables.	Future users	To create the required development levels the made ground will need to be removed. Excavated soils to be transferred to land to be developed as drainage field.
Asbestos within made ground used to backfill pond	Inhalation of fibres	Future site users	Excavate and remove made ground and replace with clean sub and top soil.

3 REMEDIATION

3.1 Remediation of Asbestos

The fill material that has been used to backfill the pond located adjacent to the southern boundary was excavated and removed from site. The fill material was removed to the full thickness of the made ground that was identified. The extent of the area that requires excavation is presented in Figure 3. As all contaminated soil has been removed, a cover system will not be required, however the area was backfilled with naturally occurring soil that was obtained from the excavations that were created for the foundations of the proposed houses.

All excavated soil generated by the remediation was classified as waste. The soil was disposed of to a suitable waste disposal facility. Copies of the waste disposal notes are presented in Appendix II.

3.2 Remediation of PAHs and TPH

Within areas of private gardens (Plots 2, 3, 5 and 6) where the made ground that contained asphalt scalpings, the scalpings and made ground that contained scalpings were removed will be excavated and removed from the parts of the site that will be developed as private gardens. The extent of the area is presented in Figure 3.

All excavated soil generated by the remediation was be classified as waste. The soil was disposed of to a suitable waste disposal facility. Copies of the waste disposal notes are presented in Appendix II.

3.3 Relocation of Made Ground from South-West Corner

The made ground that was located within the raised area situated in the south west corner of the site will be removed. The extent of the area where this soil was present is presented in Figure 3. The excavation was taken to the base of the made ground and natural soils was exposed. As required within the design of the site the made ground was transferred and reused within the Drainage Field. All excess soils and soils that were unsuitable for used was removed from the site.

4 VERIFICATION

4.1 Remediation of Asbestos

4.1.1 Verification

The verification to confirm that the made ground that contains asbestos had been removed was completed on the 20th April 2020. As required by the Remediation Method Statement soil samples were obtained from the sides of the excavation by a Contaminated Land Consultant from Brown 2 Green Associates Ltd. Samples were obtained from the four sides of the excavation at 200mm below ground level and 500mm below ground level and analysed for asbestos. Photographs of the excavated area are presented in Appendix III.

The verification criteria to be adopted were as followings: No visual fragments of cement sheeting and None Detected (<0.001%) for laboratory analysis.

4.1.2 Results of Verification

A detailed inspection of the sides and base of the excavation was undertaken during which no visual evidence of asbestos or asbestos containing materials were identified. A description of the verification samples that were obtained is presented below:

Sample Number	Sample Depth (mm bgl)	Description
VASB 1	200	MADE GROUND – Red brown, gravelly and sandy clay with gravel of fine to coarse subangular flints and occasional fine to coarse brick and concrete fragments.
VASB 1	500	Yellow brown, very silty, slightly sandy clay.
VASB 2	200	Orange brown, slightly clayey fine to coarse sand and fine to medium gravel of subangular flints.
VASB 2	500	Orange brown, slightly clayey fine to coarse sand and fine to medium gravel of subangular flints.
VASB 3	200	Orange brown, slightly clayey fine to coarse sand and fine to medium gravel of subangular flints.
VASB 3	500	Orange brown, slightly clayey fine to coarse sand and fine to medium gravel of subangular flints.
VASB 4	200	MADE GROUND – Grey crush brick and concrete as medium to coarse sand and medium to coarse gravel. Geotextile at base.
VASB 4	500	Red brown, silty medium sand and fine to coarse sand of subangular and angular flints.
VASB 5	200	Red brown, slightly silty, slightly sandy clay.
VASB 5	500	Red brown, silty medium sand and fine to coarse sand of subangular and angular flints.

The results of the laboratory analysis confirmed that no asbestos was detected in the samples. The laboratory report is presented in Appendix IV.

4.2 Remediation of PAHs and TPH

4.2.1 Verification

The verification to confirm that the made ground that contains scalplings has been removed from the gardens of Plots 4 and 5 was completed on the 20th April 2020. The verification of the PAHs that were identified within the rear garden of Plots 2 and 3 was undertaken on 2nd November 2020. As required by the Remediation Method Statement soil samples were obtained from area by a Contaminated Land Consultant from Brown 2 Green Associates Ltd. Samples were submitted to a UKAS/MCERT accredited laboratory for Total Petroleum Hydrocarbons and Speciated Polycyclic Aromatic Hydrocarbons (USEPA 16). Photographs of the excavated area are presented in Appendix III.

The verification criteria adopted are presented in Appendix V.

4.2.2 Results of Verification

A detailed inspection of the area was undertaken during which no visual evidence or olfactory evidence of scalplings or other contamination was identified. A description of the verification samples that were obtained is presented below:

Sample Number	Sample Depth (mm bgl)	Description
VPAH 1	0.0 - 0.2	MADE GROUND – Red brown, slightly silty very gravelly clay. Gravel of fine to coarse flints and occasional fine to medium brick fragments.
VPAH 2	0.0 – 0.05	MADE GROUND – Red brown, slightly silty very gravelly clay. Gravel of fine to coarse flints and occasional fine to medium brick fragments.
VPAH 3	0.0 – 0.05	MADE GROUND – Red brown, slightly silty very gravelly clay. Gravel of fine to coarse flints and rare fine to medium brick fragments.
VPAH 4	0.0 – 0.2	MADE GROUND – Red brown, slightly silty very gravelly clay. Gravel of fine to coarse flints and rare fine to medium brick fragments.
VPAH 5	0.0 – 0.05	MADE GROUND – Red brown, slightly silty very gravelly clay. Gravel of fine to coarse flints and rare fine to medium brick fragments.
VPAH 6	0.0 – 0.2	MADE GROUND – Red brown, slightly silty very gravelly clay. Gravel of fine to coarse flints and rare fine to medium brick fragments.
VPAH 7	0.0 – 0.1	NATURAL - Orange brown, gravelly and silty clay. Gravel of fine to medium subangular and angular flints, with rare brick fragments with up to 50mm.
VPAH 8	0.0 – 0.1	NATURAL - Orange brown, gravelly and silty clay. Gravel of fine to medium subangular and angular flints, with rare brick fragments and roots with up to 50mm.
VPAH 9	0.0 – 0.1	NATURAL - Orange brown, gravelly and silty clay. Gravel of fine to medium subangular and angular flints, with rare brick fragments and roots with up to 50mm.

The results of the laboratory analysis confirmed that all of the results are less than the verification criteria. The laboratory report is presented in Appendix IV.

4.3 Relocation of Made Ground from South-West Corner

Following the removal of the made ground from the south west corner (Plot 3), verification was undertaken on 2nd November 2020. As required by the Remediation Method Statement soil samples were obtained from area by a Contaminated Land Consultant from Brown 2 Green Associates Ltd. Samples were submitted to a UKAS/MCERT accredited laboratory for arsenic and Speciated Polycyclic Aromatic Hydrocarbons (USEPA 16). The results of the verification samples recorded in sample VSWC2 an exceeded the verification criteria for individual PAHs. As a result, further excavation of this part of the site was undertaken and a second verification visit was completed on 24th August 2021. Photographs of the excavated area are presented in Appendix III.

A detailed inspection of the area was undertaken during which no visual evidence or olfactory evidence of scalplings or other contamination was identified. A description of the verification samples that were obtained is presented below:

Sample Number	Sample Depth (mm bgl)	Description
2nd November 2020		
VSWC 1	0.0 – 0.1	NATURAL - Orange brown, gravelly and silty clay. Gravel of fine to medium subangular and angular flints.
VSWC 2	0.0 – 0.1	Orange brown, gravelly and silty clay. Gravel of fine to medium subangular and angular flints and rare black fragments of ash.
VSWC 3	0.0 – 0.1	NATURAL - Orange brown, gravelly and silty clay. Gravel of fine to medium subangular and angular flints.
VSWC 4	0.0 – 0.1	NATURAL - Orange brown, gravelly and silty clay. Gravel of fine to medium subangular and angular flints.
24th August 2021		
VSWC 5	0.0 – 0.4	NATURAL - Orange brown, gravelly and silty clay. Gravel of fine to medium subangular and angular flints.

The results of the laboratory analysis confirmed that all of the results are less than the verification criteria detailed in Appendix V. The laboratory report is presented in Appendix IV.

4.4 Verification of Top Soil

To ensure the top soil confirms to the required speciation, samples of the top soil that has been placed within Plots 4 to 8 (inclusive) were obtained on 24th August 2021. One samples from each plot was obtained. Description of the samples are presented below:

Sample Number	Sample Depth (mm bgl)	Description
Plot 4 TS	0.0 – 0.2	TOP SOIL – Mid brown, slightly gravelly fine to medium grained sand. Gravel of fine to coarse subangular flints and occasional roots.
Plot 5 TS	0.0 – 0.2	TOP SOIL – Mid brown, slightly gravelly fine to medium grained sand. Gravel of fine to coarse subangular flints and occasional roots.
Plot 6 TS	0.0 – 0.2	TOP SOIL – Mid brown, slightly gravelly fine to medium grained sand. Gravel of fine to coarse subangular flints

		and occasional roots.
Plot 7 TS	0.0 – 0.2	TOP SOIL – Mid brown, slightly gravelly fine to medium grained sand. Gravel of fine to coarse subangular flints and occasional roots.
Plot 8 TS	0.0 – 0.2	TOP SOIL – Mid brown, slightly gravelly fine to medium grained sand. Gravel of fine to coarse subangular flints and occasional roots.

The results of the top soil samples confirm to the required chemical specification.

5 CONCLUSIONS

From the results the verification confirms that:

- All contamination has been removed from the site and the development of the site as residential will not introduced active pollution pathways.
- The top soil that has been placed is suitable for use and conforms to the required chemical specification.
- The remediation completed satisfies the specification detailed in the Remediation Method Statement and satisfies the objective of the remediation. All identified pollution pathways have been broken.

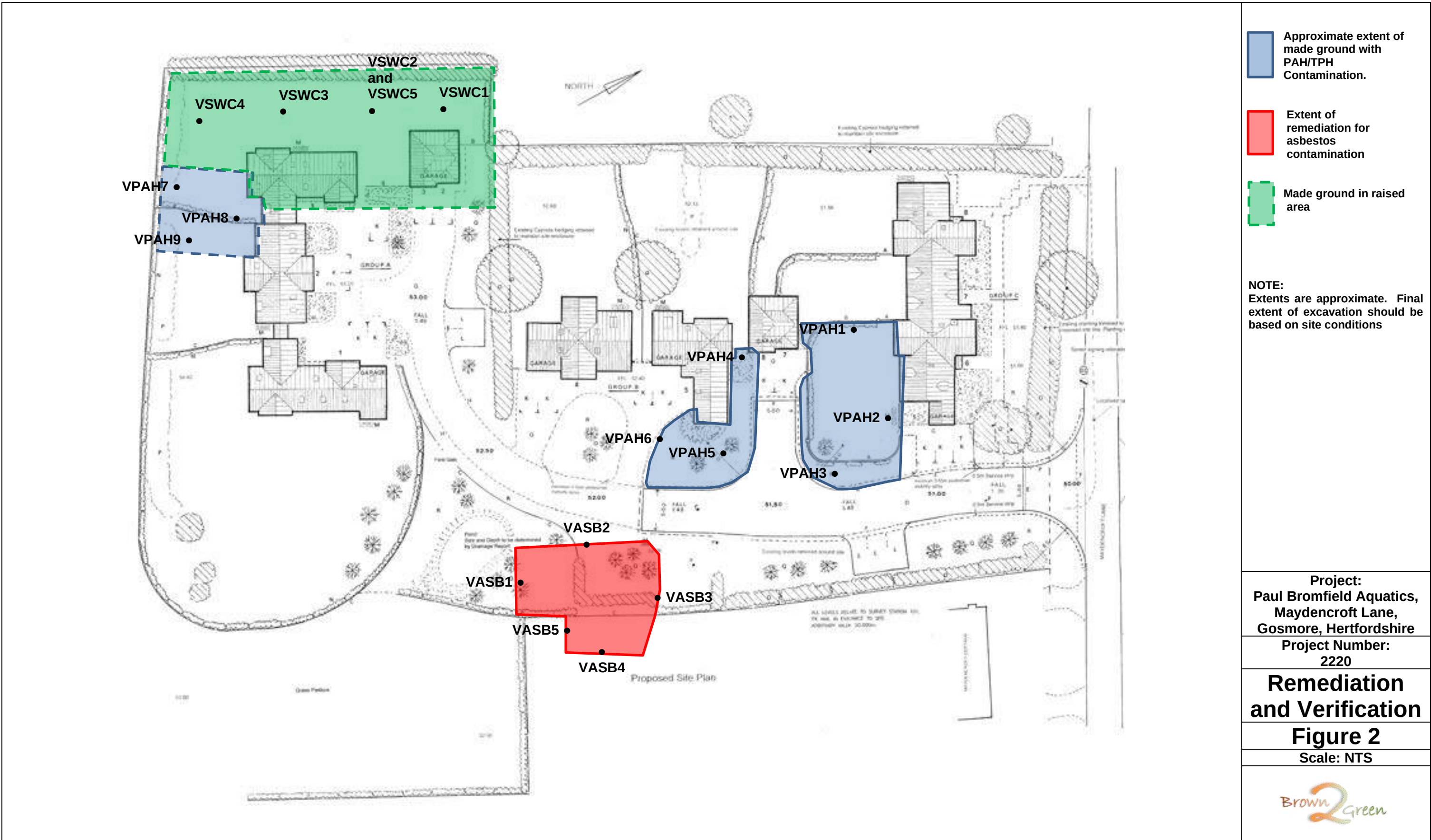
From the results of the work completed, it is considered that contamination will not pose an unacceptable level of risk to human health, controlled waters, environmental receptors, historical receptors, ecological receptors or livestock.

FIGURES



Based on an Ordnance Survey map with permission of HMSO. Crown copy right reserved. Licence number 100053399

Project Number: 2220	Project: Paul Bromfield Aquatics, Maydencroft Lane, Gosmore, Hertfordshire	Scale: NTS
Figure 1	Site Location Plan	



APPENDIX I
LIMITATIONS AND CONSTRAINTS

Brown 2 Green Associates Limited has prepared this report in accordance with our standard Terms and Conditions solely for the use of the Client and those parties with whom a warranty agreement has been executed, or with whom an assignment has been agreed and outlined in the body of the report.

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For the work, reliance has been placed on publicly available data obtained from the sources identified and data supplied by other parties. The information is not necessarily exhaustive and further information relevant to the site may be available from other sources. When using the information it has been assumed it is correct. No attempt has been made to verify the information. Brown 2 Green Associates Ltd does not warrant work / data undertaken / provided by others.

APPENDIX II
WASTE TRANSFER NOTES

ADVICE/WASTE TRANSFER NOTE **TICKET NO:** 342134 **Permit :** YP3138XB

CUSTOMER: LANT001 Lantern Recovery Specialists p Lantern Hosue, 39-41 High Street Potters Bar Herts EN6 5AJ ORDER NO: na SOURCE: 183 Hertfordshire		HAULIER: LANT001 Lantern Recovery Specialists p Lantern Hosue, 39-41 High Street Potters Bar VEH. TYPE: TIPP TIPPER VEH. REG NO: EY20YOV CARRIER NO: CBDU93357 TRANSFER NO: CCSCONL0001	
WASTE TYPE:			
WASTE CATEGORY: L170503 - Contaminated Soils			
CONTAINER:		GRID REF: SPAW - Job No. : L200404500001	
	WEIGHT KG'S	SEQ. NO	
GROSS			DATE
TARE	33180	227107	14/04/2020
NET	16420	227111	14/04/2020
	16760		TIME
			09:49
			10:16
PRINT NAME: KCWEIGHBRIDGE		MEASURE .75 Tonne	

**The Hazardous Waste Regulations 2005:
Consignment Note**

33180

Augean PLC

PART A Notification details

Sheet **1** of **1**

1 Consignment note code:

C C S C O N / L 0 0 0 1

☐ Complete with 26 for rejected load

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile)

Paul Brownfield Aquatics, Maydencroft Lane, GOSMORE Herts SG4 7QD
02004945

3 The waste will be taken to (name, address and postcode)

ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough
PE8 6XX

4 The waste producer was (if different from 2)

(name, address, postcode, telephone, e-mail, facsimile)
CCS Contractors Ltd, 58 Bury Mead
Road, HITCHIN SG5 1RT

PART B Description of the waste

Number of continuation sheets, if used **0**

1 The process giving rise to the waste(s) was:

Demolition

2 SIC for the process giving rise to the waste:

4 3 1 1 /

3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of Waste	EWC	Quantity	Component	Concentration (% or mg/kg)	Physical Form	Hazard code(s)	Container (kg or m³)
Sub Soils	1 7 0 5 0 3*		TPH	>0.1 <10%	solid	HP11	
			ASBESTOS	>0.1 <30%		HP5 HP7	

The information given below is to be completed for each EWC identified:

EWC	Packing Group	UN number, Proper Shipping Name(s), and class	Special handling requirements
1 7 0 5 0 3*	n/c	n/c	n/c

PART C Carrier's certificate

(If more than one carrier, attach schedule for subsequent carriers)

I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements

On behalf of (name, address, postcode, telephone, e-mail, facsimile)

1 Carrier name:

Lantern Recovery Services Ltd, Lantern House, 39 - 41
High Street, Potters Bar, Herts EN6 5AJ CB0DU93357

2 Carrier registration no./reason for exemption:

CB0DU195088

3 Vehicle registration:

Signature

EY20YOV

PART D Consignor's certificate

I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any

I confirm that I have fulfilled the duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

1 Consignor name:

Date: 14/04/2020
Time: 0800 (24 hr clock)

PART E Consignor's certificate

(where more than one waste type is collected all of the information given below must be completed for each EWC)

Description of Waste	EWC	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste Management operation (R & D code)
SOILS	1 7 0 5 0 3*	16960	ACC	
SOILS				

1 I received the waste at the address given in A4 on:

Date: 14/04/2020
Time: 0800 (24 hr clock)

Name

2 Vehicle registration no. (or mode of transport if not road)

On behalf of (name, address, postcode, telephone, e-mail, facsimile)

ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough PE8 6XX

I certify that waste management licence/permit/authorised exemption no(s):

YPS158XIS

I authorise the management of the waste described in B at the address given in A4

Date: 14/04/2020
Time: 0800 (24 hr clock)

Signature

ADVICE/WASTE TRANSFER NOTE **TICKET NO:** 342135 **Permit :** YP3138XB

CUSTOMER: LANT001 Lantern Recovery Specialists p Lantern Hosue, 39-41 High Street Potters Bar Herts ENG 5AJ ORDER NO: na SOURCE: 183 Hertfordshire		HAULIER: LANT001 Lantern Recovery Specialists p Lantern Hosue, 39-41 High Street Potters Bar VEH. TYPE: TIPP TIPPER VEH. REG NO: EK19UNY CARRIER NO: CBDU93357 TRANSFER NO: CCSCONL0002	
WASTE TYPE: WASTE CATEGORY: L170503 - Contaminated Soils			
CONTAINER:		GRID REF: SPAW - Job No. : L200404500002	
	WEIGHT KG'S	SEQ. NO	DATE
GROSS			
TARE	32800	227108	14/04/2020
NET	16200	227112	14/04/2020
	16600		MEASURE 15.60 Tonne
PRINT NAME: SI [REDACTED]		[REDACTED]	
KCWEIGHBRIDGE			

The Hazardous Waste Regulations 2005:
Consignment Note

32800



PART A Notification details

Sheet

1 Consignment note code:

C C S C O N / L 0 0 0 2

☐ Complete with (R) for rejected load

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile)

Paul Brownfield Aquatics, Maydencroft Lane, GOSMORE Herts SG4 7QD
L2004045

3 The waste will be taken to (name, address and postcode):

ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough
PE8 6RX

4 The waste producer was (1 different from 2)
(name, address, postcode, telephone, e-mail, facsimile)

CCS Contractors Ltd, 58 Bury Mead
Road, HITCHIN SG5 1RT

PART B Description of the waste

Number of continuation sheets, if used

1 The process giving rise to the waste(s) was:

Demolition

2 SIC for the process giving rise to the waste:

4 3 1 1 /

3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of Waste	EWC	Quantity	Component	Concentration (% or mg/kg)	Physical Form	Hazard code(s)	Container (size/type)
Sub Soils	1 7 0 5 0 3*		TPH	>0.1 <10%	solid	HP11	
			ASBESTOS	>0.1 <30%		HP5 HP7	

The information given below is to be completed for each EWC identified

EWC	Packing Group	UN number, Proper Shipping Name(s), and class	Special handling requirements
1 7 0 5 0 3*	n/c	n/c	n/c

PART C Carrier's certificate

(If more than one carrier, attach schedule for subsequent carriers)

I certify that I have collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements.

On behalf of (name, address, postcode, telephone, e-mail, facsimile)

1 Carrier name:

Lantern Recovery Services Ltd, Lantern House, 39 - 41
High Street, Poters Bar, Herts EN8 5AJ CB0J93357

2 Carrier registration no (reason for exemption):

CB0J93357

3 Vehicle registration:

YUNY

Signature

PART D Consignor's certificate

I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

On behalf of (name, address, postcode, telephone, e-mail, facsimile)

1 Consignor name:

Date: 11/06/2012
Time: 06:12 (24 hr clock)

PART E Consignee's certificate

(where more than one waste type is collected all of the information given below must be completed for each EWC)

Description of Waste	EWC	Quantity of each EWC received (kg)	EWC code accepted/rejected	Waste Management operation (R & D code)
SUB SOILS	1 7 0 5 0 3*	16600	ACC	DOC

1 I received the waste at the address given in A4 on:

Date: 11/06/2012
Time: 06:12 (24 hr clock)

Name:

ANN C

2 Vehicle registration no (or mode of transport if not road):

EK19 UNY

I certify that waste management licence/permit/authorisation no(s):

VPS158XB

On behalf of (name, address, postcode, telephone, e-mail, facsimile)

ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough PE8 6RX

I authorize the management of the waste described in B of the address given in A4

Date: 11/06/2012
Time: 06:12 (24 hr clock)

Signature

342143 Permit : YP3138XB

ADVICE/WASTE TRANSFER NOTE TICKET NO:

CUSTOMER: LANT001 Lantern Recovery Specialists p Lantern Hosue, 39-41 High Street Potters Bar Herts EN6 5AJ ORDER NO: na SOURCE: 183 Hertfordshire	HAULIER: LANT001 Lantern Recovery Specialists p Lantern Hosue, 39-41 High Street Potters Bar TIPP TIPPER VEH. TYPE: EY20Y0B VEH. REG NO: CBDU93357 CARRIER NO: CCSCONL0003 TRANSFER NO:			
WASTE TYPE: WASTE CATEGORY: L170503 - Contaminated Soils Job No. : L200404500003				
CONTAINER: GRID REF: SPAW				
	WEIGHT KG'S	SEQ. NO	DATE	TIME
GROSS	32660	MANUAL	14/04/2020	13:52
TARE	16380	227120	14/04/2020	14:07
NET	16280			
		MEASURE 16.28 Tonne		
PRINT NAME:				
KCWEIGHBRIDGE				

The Hazardous Waste Regulations 2005:
Consignment Note

32660

Augean^{PLC}

PART A Notification details		Sheet 1 of 1
1 Consignment note code: C C S C O N / L Q 0 0 3 ☐ Complete with [R] for rejected load		
2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile): Paul Bromfield Aquatics, Maydencroft Lane, GOSMORE Herts SG4 7QD L2004045		3 The waste will be taken to (name, address and postcode): ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough PE8 6XX
		4 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile): CCS Contractors Ltd, 58 Bury Mead Road, HITCHIN SG5 1RT
PART B Description of the waste		Number of continuation sheets, if used 0
1 The process giving rise to the waste(s) was: Demolition		
2 SIC for the process giving rise to the waste: 4 3 1 1 /		
3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)		
Description of Waste	EWC	Quantity
Sub Soils	1 7 0 5 0 3*	TPH
		ASBESTOS
		Concentration (% or mg/kg)
		>0.1 <10%
		>0.1 <30%
		Physical Form
		solid
		Hazard code(s)
		HP11
		HP5 HP7
		Container (size/type)
The information given below is to be completed for each EWC identified		
EWC	Packing Group	UN number, Proper Shipping Name(s), and class
1 7 0 5 0 3*	n/c	n/c
		Special handling requirements
		n/c
PART C Carrier's certificate (If more than one carrier, attach schedule for subsequent carriers)		
I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements		
1 Carrier name: Lantern Recovery Services Ltd, Lantern House, 39 - 41 High Street, Potters Bar, Herts EN6 5AJ CBDU93357		On behalf of (name, address, postcode, telephone, e-mail, facsimile):
Date: 16/06/2012 Time: 12:12 (24 hr clock)		2 Carrier signature: [Signature] 3 Vehicle registration: DOL195088 4 Vehicle type: Y20 Y015
PART D Consignor's certificate		
I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any		
1 Consignor name:		I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011
Date: 16/06/2012 Time: 12:12 (24 hr clock)		On behalf of (name, address, postcode, telephone, e-mail, facsimile):
		2 Consignor signature: [Signature]
PART E Consignee's certificate (where more than one waste type is collected all of the information given below must be completed for each EWC)		
Description of Waste	EWC	Quantity of each EWC code received (kg)
Sub Soils	1 7 0 5 0 3*	16280
		EWC code accepted/applied
		ACC
		Waste Management operation (R & D code)
		109
1 I received the waste at the address given in A4 on:		Name: AMU C
Date: 16/06/2012 Time: 12:12 (24 hr clock)		On behalf of (name, address, postcode, telephone, e-mail, facsimile):
2 Vehicle registration no. (or mode of transport if not road): EY20 Y015		ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough PE8 6XX
I certify that waste management licence/permit/authorised exemption note: YPS138XE		authorised for management of the waste described in B at the address given in A4
Date: 16/06/2012 Time: 12:12 (24 hr clock)		3 Consignee signature: [Signature]

342144 Permit : YP3138XB

ADVICE/WASTE TRANSFER NOTE TICKET NO:

CUSTOMER: LANT001 Lantern Recovery Specialists p Lantern Hosue, 39-41 High Street Potters Bar Herts EN6 5AJ ORDER NO: na SOURCE: 183 Hertfordshire		HAULIER: LANT001 Lantern Recovery Specialists p Lantern Hosue, 39-41 High Street Potters Bar TIPP TIPPER VEH. TYPE: EK19UNY VEH. REG NO: CBDU93357 CARRIER NO: CCSCONL0004 TRANSFER NO:	
WASTE TYPE:			
WASTE CATEGORY: L170503 - Contaminated Soils			
		Job No. : L200404500004	
CONTAINER:		GRID REF: PAD - SPAW	
	WEIGHT KG'S	SEQ. NO	DATE
GROSS	30680	227119	14/04/2020
TARE	16120	227122	14/04/2020
NET	14560		
		MEASURE 14.56 Tonne	
PRINT NAME: KCWEIGHBRIDGE	SIGNATURE ON BEHALF OF CUSTOMER: 		
SIGNATURE FOR AUGEAN: 			

Augean PLC

PART A Notification details		Sheet 1 of 1	
1 Consignment note code		C C S C O N / L 0 0 0 4	
2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile)		3 The waste will be taken to (name, address and postcode):	
Paul Bromfield Aquatics, Maydencroft Lane, GOSMORE Herts SG4 7QD L2008045		ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough PE8 6XX	
4 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile)		CCS Contractors Ltd 58 Bury Mead Road, HITCHIN SG5 1RT	
PART B Description of the waste		Number of continuation sheets, if used	
1 The process giving rise to the waste(s) was		Demolition	
2 SIC for the process giving rise to the waste		4 3 / 1 1 /	
3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)			
Description of Waste	EWC	Quantity	Component
Soils	1 7 0 5 0 3*		TPH
			ASBESTOS
Concentration (% or mg/kg)			
>0.1 <10%			
>0.1 <30%			
Physical Form			
solid			
Hazard code(s)			
HP11			
HP5 HP7			
Container (size/type)			
The information given below is to be completed for each EWC identified			
EWC	Packing Group	UN number, Proper Shipping Name(s), and class	Special handling requirements
1 7 0 5 0 3*	n/c	n/c	n/c
PART C Carrier's certificate			
(if more than one carrier, attach schedule for subsequent carriers)			
I certify that I have collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements			
1 Carrier name		On behalf of (name, address, postcode, telephone, e-mail, facsimile)	
Lantern Recovery Services Ltd, Lantern House, 39 - 41 High Street, Peters Bar, Herts EN6 5AJ			
2 Carrier registration no./reason for exemption		CB10 195088	
3 Vehicle registration no. (or mode of transport if not road)		EK19WY	
Date: 17/08/2010 Time: 17:00 (24 hr clock)		Signature	
PART D Consignor's certificate			
I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any			
1 Consignor name		I declare that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011	
Date: 14/04/2010 Time: 12:10 (24 hr clock)		On behalf of (name, address, postcode, telephone, e-mail, facsimile)	
		Signature	
PART E Consignee's certificate			
(where more than one waste type is collected all of the information given below must be completed for each EWC)			
Description of Waste	EWC	Quantity of each EWC code received (kg)	EWC code accepted/rejected
Soils	1 7 0 5 0 3*	14560	ACC
Waste Management operation (R & D code)			
D03			
Name: AMC			
1 I received the waste at the address given in A4 on:		On behalf of (name, address, postcode, telephone, e-mail, facsimile)	
Date: 14/04/2010 Time: 12:10 (24 hr clock)		ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough PE8 6XX	
2 Vehicle registration no. (or mode of transport if not road)		Submitting the management of the waste described in B1 at the address given in A4	
I certify that waste management licence/permit/authorised exemption no(s)		Signature	
YPS158XB			
Date: 14/04/2010 Time: 12:10 (24 hr clock)			

ADVICE/WASTE TRANSFER NOTE **TICKET NO.** 342174 **Permit :** YP3138XB

CUSTOMER: LANT001 Lantern Recovery Specialists p Lantern Hosue, 39-41 High Street Potters Bar Herts ORDER NO: na SOURCE: 183 Hertfordshire		HAULIER: LANT001 Lantern Recovery Specialists p Lantern Hosue, 39-41 High Street Potters Bar VEH. TYPE: TIPP TIPPER VEH. REG NO: EY20YOV CARRIER NO: CBDU93357 TRANSFER NO: CCSCONL0005	
WASTE TYPE:			
WASTE CATEGORY:			
CONTAINER: L170503 - Contaminated Soils		GRID REF: Job No. : L200404500005	
	WEIGHT KG'S	SEQ. NO	PAD - DATE
GROSS			TIME
TARE	32220	227127	15/04/2020 07:16
NET	16460	227130	15/04/2020 07:32
		MEASURE	
PRINT NAME:	SIGNATURE		WEIGHT
	[REDACTED]		15.76 Tonne
KCWEIGHBRIDGE			

**The Hazardous Waste Regulations 2005:
Consignment Note**



PART A Notification details

Sheet ☐ of ☐

1 Consignment note code:

C C S C O N / L 0 0 0 5

☐ Complete with (R) for rejected load

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):

Paul Bromfield Aquatics, Maydencroft Lane, GOSMORE Herts SG4 7QD L2004045

3 The waste will be taken to (name, address and postcode):

ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough PE8 6XX

4 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

CCS Contractors Ltd, 58 Bury Mead Road, HITCHIN SG5 1RT

PART B Description of the waste

Number of continuation sheets, if used ☐

1 The process giving rise to the waste(s) was:

Demolition

2 SIC for the process giving rise to the waste:

4 3 - 1 1 /

3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of Waste	EWC	Quantity	Component	Concentration (% or mg/kg)	Physical Form	Hazard code(s)	Container (size/type)
Sub Soils	1 7 0 5 0 3*		TPH	>0.1 <10%	solid	HP11	
			ASBESTOS	>0.1 <30%		HP5 HP7	

The information given below is to be completed for each EWC identified

EWC	Packing Group	UN number, Proper Shipping Name(s), and class	Special handling requirements
1 7 0 5 0 3*	n/c	n/c	n/c

PART C Carrier's certificate

(If more than one carrier, attach schedule for subsequent carriers)

I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements:

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

1 Carrier name:

Lantern Recovery Services Ltd, Lantern House, 39 - 41 High Street, Potters Bar, Herts EN6 5AJ CB0U93357

2 Carrier registration no (reason for exemption)

CB0U93357

3 Vehicle registration:

Signature

PART D Consignor's certificate

I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

1 Consignor name:

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Date 15/04/2020
Time 15:45 (24 hr clock)

Signature

PART E Consignee's certificate

(where more than one waste type is collected all of the information given below must be completed for each EWC)

Description of Waste	EWC	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste Management operation (R & D code)
SOILS SOILS	1 7 0 5 0 3*	15760	ACC	DD3

1 I received the waste at the address given in A4 on:

Date 15/04/2020
Time 07:16 (24 hr clock)

Name

AMUC

2 Vehicle registration no. (or mode of transport if not road):

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough PE8 6XX

I certify that waste management licence/permit/authorised exemption no(s):

YPS158XIS

I confirm the management of the waste described in B.4 at the address given in A4

Date 15/04/2020
Time 07:16 (24 hr clock)

Signature

ADVICE/WASTE TRANSFER NOTE **TICKET NO:** 342178 **Permit :** YP3138XB

CUSTOMER: LANT001 Lantern Recovery Specialists p Lantern Hosue, 39-41 High Street Potters Bar Herts EN6 5AJ ORDER NO: na SOURCE: 183 Hertfordshire		HAULIER: LANT001 Lantern Recovery Specialists p Lantern Hosue, 39-41 High Street Potters Bar VEH. TYPE: TIPP TIPPER VEH. REG NO: EK19UNY CARRIER NO: CBDU93357 TRANSFER NO: CCSCONL0006	
WASTE TYPE: WASTE CATEGORY: L170503 - Contaminated Soils			
CONTAINER:		GRID REF: Job No. : L200404500006	
	WEIGHT KG'S	SEQ. NO	DATE
GROSS	32080	227132	15/04/2020
TARE	16180	227135	15/04/2020
NET	15900	MEASURE 15.90 Tonne	
PRINT NAME: KCWEIGHBRIDGE	SIGNATURE FOR AUGEAN:		

**The Hazardous Waste Regulations 2005:
Consignment Note**



PART A Notification details		Sheet of
1 Consignment note code: C C S C O N / L 0 0 0 6 ☐ Complies with B3 for rejected load		
2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile): Paul Bromfield Aquatics, Maydencroft Lane, GOSMORE Herts SG4 7QD L2004045 3 The waste will be taken to (name, address and postcode): ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough PE8 6XX		
4 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile): CCS Contractors Ltd, 58 Bury Mead Road, HITCHIN SG5 1RT		
PART B Description of the waste		Number of continuation sheets, if used
1 The process giving rise to the waste(s) was: Demolition		
2 SIC for the process giving rise to the waste: 4 3 1 1 /		
3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)		
Description of Waste	EWC	Quantity
Sub Soils	1 7 0 5 0 3*	TPH
		ASBESTOS
		Concentration (% or mg/kg)
		>0.1 <10%
		>0.1 <30%
		Physical Form
		solid
		Hazard code(s)
		HP11
		HP5 HP7
The information given below is to be completed for each EWC identified		
EWC	Packing Group	UN number, Proper Shipping Name(s), and class
1 7 0 5 0 3*	n/c	n/c
		Special handling requirements
		n/c
PART C Carrier's certificate		
(If more than one carrier, attach schedule for subsequent carriers)		
I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements		
1 Carrier name: Lantern Recovery Services Ltd, Lantern House, 39 - 41 High Street, Potters Bar, Herts EN6 5AJ CBDU93357 2 Carrier registration no./reason for exemption: CBDU195028		
3 Vehicle registration no. (or mode of transport, if not road): EK19UNY Signature: [REDACTED]		
Date: 1 4 0 4 7 0 2 6 Time: 1 5 5 5 (24 hr clock)		
PART D Consignor's certificate		
I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any		
1 Consignor name: I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Hazardous Waste Regulations 2011.		
Date: 1 4 0 4 7 2 2 0 Time: 1 5 1 5 (24 hr clock) On behalf of (name, address, postcode, telephone, e-mail, facsimile): [REDACTED]		
PART E Consignee's certificate		
(where more than one waste type is collected all of the information given below must be completed for each EWC)		
Description of Waste	EWC	Quantity of each EWC code received (kg)
SUB SOILS	1 7 0 5 0 3*	15900
		EWC code accepted/rejected
		ACC
		Waste Management operation (R & D code)
		R15
1 I received the waste at the address given in A4 on:		
Date: 1 5 0 4 2 0 2 0 Time: 0 8 1 0 (24 hr clock) Name: AMC		
2 Vehicle registration no. (or mode of transport if not road): EK19UNY		
I certify that waste management licence/permit/authorised exemption no(s):		
YP 3138XK authorises the management of the waste described in B of the address given in A4.		
Date: 1 5 0 4 2 0 2 0 Time: 0 8 1 0 (24 hr clock) Signature: [REDACTED]		

342183 Permit : YP3138XB

ADVICE/WASTE TRANSFER NOTE
TICKET NO:
LANT001
CUSTOMER:
 Lantern Recovery Specialists p
 Lantern Hosue,
 39-41 High Street
 Potters Bar
 Herts
 ENG 5AJ

HAULIER:
 Lantern Recovery Specialists p
 Lantern Hosue,
 39-41 High Street
 Potters Bar
 TIPP TIPPER

ORDER NO: na
SOURCE: 183 Hertfordshire

VEH. TYPE: EY20YQV
VEH. REG NO: CBDU93357
CARRIER NO: CCSCONL0007
TRANSFER NO:
WASTE TYPE:
WASTE CATEGORY: L170503 - Contaminated Soils

CONTAINER:
GRID REF: PAD - SPAW

Job No. : L200404500007

GROSS
WEIGHT KG'S
SEQ. NO
DATE
TIME
TARE

31740

227141

15/04/2020

10:23

NET

16360

227144

15/04/2020

10:41

PRINT NAME:
MEASURE 15.38 Tonne

KCWEIGHBRIDGE

SIGNATURE:
SIGNATURE FOR AUGEAN:

The Hazardous Waste Regulations 2005
Consignment Note

31740



PART A Notification details

Sheet 1 of 1

1 Consignment note code

C C S C O N / L 0 0 0 7

☐ Complete with [X] for rejected load

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile)

Paul Bromfield Aquatics, Maydencroft Lane, GOSMORE Herts SG4 7QD L2004045

3 The waste will be taken to (name, address and postcode):

ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough PE8 6XX

4 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

CCS Contractors Ltd, 58 Bury Mead Road, HITCHIN SG5 1RT

PART B Description of the waste

Number of continuation sheets, if used 1

1 The process giving rise to the waste(s) was

Demolition

2 SIC for the process giving rise to the waste

4 3 1 1 /

3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of Waste	EWC	Quantity	Component	Concentration (% or mg/kg)	Physical Form	Hazard code(s)	Container (if not fixed)
Sub Soils	1 7 0 5 0 3*		TPH	>0.1 <10%	solid	HP11	
			ASBESTOS	>0.1 <30%		HP5 HP7	

The information given below is to be completed for each EWC identified

EWC	Packing Group	UN number, Proper Shipping Name(s), and class	Special handling requirements
1 7 0 5 0 3*	n/c	n/c	n/c

PART C Carrier's certificate

(If more than one carrier, attach schedule for subsequent carriers)

I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

1 Carrier name

Lantern Recovery Services Ltd, Lantern House, 39 - 41 High Street, Potters Bar, Herts EN6 5AJ CBDU93357

2 Carrier registration no (reason for exemption)

CB00195038

3 Vehicle registration

EY20YOU

Signature

PART D Consignor's certificate

I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any

I confirm that I have labelled the waste to comply with the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2006

1 Consignor name

Date 15/04/2009 Time 10:00 (24 hr clock)

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

PART E Consignee's certificate

(where more than one waste type is collected all of the information given below must be completed for each EWC)

Description of Waste	EWC	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste Management operation (R & D code)
SOILS	1 7 0 5 0 3*	15580	ACC	109

1 I received the waste at the address given in A4 on

Date 15/04/2009 Time 10:00 (24 hr clock)

Name

ANN C

2 Vehicle registration no (or mode of transport if not road)

EY20YOU

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough PE8 6XX

I certify that waste management licence/permit/authorised exemption no(s)

authorises the management of the waste described in B at the address given in A4

Date 15/04/2009 Time 10:00 (24 hr clock)

Signature

The Hazardous Waste Regulations 2005:
Consignment Note

31640

Augean PLC

PART A Notification details

Sheet

1 of 1

1 Consignment note code

CCSCON / L0008

☐ Complete with [R] for rejected load

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile)

Paul Bromfield Aquatics, Maydencroft Lane, GOSMORE Herts SG4 7QD L2004045

3 The waste will be taken to (name, address and postcode)

ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough PE8 6XX

4 The waste producer was (if different from 2)

(Name, address, postcode, telephone, e-mail, facsimile) CCS Contractors Ltd, 58 Bury Mead Road, HITCHIN SG5 1RT

PART B Description of the waste

Number of continuation sheets, if used

1 The process giving rise to the waste(s) was

Demolition

2 SIC for the process giving rise to the waste

4311

3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of Waste	EWC	Quantity	Component	Concentration (% or mg/kg)	Physical Form	Hazard code(s)	Container (size/type)
Sub Soils	1 7 0 5 0 3*		TPH	>0.1 <10%	solid	HP11	
			ASBESTOS	>0.1 <30%		HP5 HP7	

The information given below is to be completed for each EWC identified

EWC	Packing Group	UN number, Proper Shipping Name(s), and class	Special handling requirements
1 7 0 5 0 3*	n/c	n/c	n/c

PART C Carrier's certificate

(If more than one carrier, attach schedule for subsequent carriers)

I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements

On behalf of (name, address, postcode, telephone, e-mail, facsimile)

1 Carrier name

Lantern Recovery Services Ltd, Lantern House, 39 - 41 High Street, Potters Bar, Herts EN6 5AJ CBDU93357

2 Carrier registration no./reason for exemption

CBDU195088

3 Vehicle registration no. (or mode of transport, if not road)

EX14UDY

Date 15/04/2020
Time 09:48 (24 hr clock)

Signature

PART D Consignor's certificate

I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

1 Consignor name

Date 15/04/2020
Time 09:48 (24 hr clock)

On behalf of (name, address, postcode, telephone, e-mail, facsimile)

Signature

PART E Consignee's certificate

(where more than one waste type is collected all of the information given below must be completed for each EWC)

Description of Waste	EWC	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste Management operation (R & D code)
SUB SOILS	1 7 0 5 0 3*	15520	ACC	DD9

1 I received the waste at the address given in A4 on

Date 15/04/2020
Time 11:11 (24 hr clock)

Name

AMUC

2 Vehicle registration no. (or mode of transport if not road)

EK19UNY

On behalf of (name, address, postcode, telephone, e-mail, facsimile)

ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough PE8 6XX

3 I certify that waste management licence/permit/authorisation exemption no(s)

YPS138XB

Signature of the person responsible for the management of the waste described in B at the address given in A4

Date 15/04/2020
Time 11:11 (24 hr clock)

Signature

CUSTOMER: LANT001 Lantern Recovery Specialists p Lantern Hosue, 39-41 High Street Potters Bar Herts EN6 5AJ		HAULIER: LANT001 Lantern Recovery Specialists p Lantern Hosue, 39-41 High Street Potters Bar TIPP TIPPER	
ORDER NO: na SOURCE: 183 Hertfordshire		VEH. TYPE: EK19UNY VEH. REG NO: CBDU93357 CARRIER NO: CCSCONL0010 TRANSFER NO:	
WASTE TYPE:			
WASTE CATEGORY: L170503 - Contaminated Soils			
CONTAINER:		GRID REF: PAD - SP-9	
		Job No. : L200404500009	
GROSS TARE NET	WEIGHT KG'S 32400 16060 16340	SEQ. NO MANUAL 227153	DATE 15/04/2020 15/04/2020
	TIME 14:49 14:52		
	MEASURE 16.34 Tonne		
PRINT NAME: KCWEIGHBRIDGE	SIGNATURE ON BEHALF OF CUSTOMER: 		
SIGNATURE FOR AUGER:			

The Hazardous Waste Regulations 2005:
Consignment Note

32400

Augean PLC

PART A Notification details

Sheet

1 of 1

1 Consignment note code:

C C S C O N / L 0 0 1 0

☐ Complete with [R] for rejected load

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):

Paul Bromfield Aquatics, Maydencroft Lane, GOSMORE Herts SG4 7QD
L2004045

3 The waste will be taken to (name, address and postcode):

ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough
PE8 6XX

4 The waste producer is (if different from 2):

(name, address, postcode, telephone, e-mail, facsimile)
CCS Contractors Ltd, 58 Bury Mead Road, HITCHIN SG5 1RT

PART B Description of the waste

Number of continuation sheets, if used

1 The process giving rise to the waste(s) was:

Demolition

2 SIC for the process giving rise to the waste

4 3 1 1 /

3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of Waste	EWC	Quantity	Component	Concentration (% or mg/kg)	Physical Form	Hazard code(s)	Container (type)
Sub Soils	1 7 0 5 0 3*		TPH	>0.1 <10%	SOLID	HP11	
			ASBESTOS	>0.1 <30%		HP5 HP7	

The information given below is to be completed for each EWC identified

EWC	Packing Group	UN number, Proper Shipping Name(s), and class	Special handling requirements
1 7 0 5 0 3*	n/c	n/c	n/c

PART C Carrier's certificate

(if more than one carrier, attach schedule for subsequent carriers)

I certify that I have collected the consignment and that the loads in A2, A4 and B3 are correct and have been advised of any specific handling requirements

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

1 Carrier name:

Lantern Recovery Services Ltd, Lantern House, 39 - 41
High Street, Potters Bar, Herts EN6 5AJ CB093357

2 Carrier registration no./reason for exemption:

CB09195088

3 Vehicle registration no. (or mode of transport, if not road):

CB091UNY

Date: 15/04/2020
Time: 15:17 (24 hr clock)

Signature

PART D Consignor's certificate

I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

1 Consignor name:

Date: 12/04/2020
Time: 13:17 (24 hr clock)

Signature

PART E Consignee's certificate

(where more than one waste type is collected all of the information given below must be completed for each EWC)

Description of Waste	EWC	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste Management operation (R & D code)
SOILS SOILS	1 7 0 5 0 3*	16540	ACC	DOSS

1 I received the waste at the address given in A4 on:

Date: 15/05/2020
Time: 14:42 (24 hr clock)

Name

AMC

2 Vehicle registration no. (or mode of transport, if not road):

CB091UNY

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough PE8 6XX

I certify that waste management licence/permit/authorisation no(s):

YPS158XIS

authorises the management of the waste described in B at the address given in A4

Date: 15/05/2020
Time: 14:42 (24 hr clock)

Signature

ADVICE/WASTE TRANSFER NOTE **TICKET NO:** 342236 **Permit :** YP3138XB

CUSTOMER: LANT001 Lantern Recovery Specialists p Lantern Hosue, 39-41 High Street Potters Bar Herts EN6 5AJ ORDER NO: na SOURCE: 183 Hertfordshire		HAULIER: LANT001 Lantern Recovery Specialists p Lantern Hosue, 39-41 High Street Potters Bar VEH. TYPE: TIPP TIPPER VEH. REG NO: EY20YOV CARRIER NO: CBDU93357 TRANSFER NO: CCSCONL0009	
WASTE TYPE: WASTE CATEGORY: L170503 - Contaminated Soils			
CONTAINER:		GRID REF: SPAWQ Job No. : L200404500010	
	WEIGHT KG'S	SEQ. NO	DATE
GROSS			TIME
TARE	32020	MANUAL	15/04/2020 15:13
NET	16320	MANUAL	15/04/2020 15:13
	15700		
PRINT NAME: KCWEIGHBRIDGE		SIGNATURE ON BEHALF OF CUSTOMER: 	
		MEASURE 15.70 Tonne	

**The Hazardous Waste Regulations 2005:
Consignment Note**



PART A Notification details												
1 Consignment note code: C C S C O N / L 0 0 0 9 ☐ Complete with [R] for rejected load												
2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile): Paul Bromfield Aquatics, Maydencroft Lane, GOSMORE Herts SG4 7QD L2004045					3 The waste will be taken to (name, address and postcode): ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough PE8 6XX							
4 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile): CCS Contractors Ltd, 58 Bury Mead Road, HITCHIN SG5 1RT												
PART B Description of the waste												
1 The process giving rise to the waste(s) was: Demolition												
2 SIC for the process giving rise to the waste: 4 3 1 1 /												
3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)												
Description of Waste	EWC						Quantity	Component	Concentration (% or mg/kg)	Physical Form	Hazard code(s)	Container (size/type)
Sub Soils	1	7	0	5	0	3*		TPH	>0.1 <10%	solid	HP11	
								ASBESTOS	>0.1 <30%		HP5 HP7	
The information given below is to be completed for each EWC identified												
EWC						Packing Group	UN number, Proper Shipping Name(s), and class		Special handling requirements			
1	7	0	5	0	3*	n/c	n/c		n/c			
PART C Carrier's certificate												
I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements.												
1 Carrier name: Lantern Recovery Services Ltd, Lantern House, 39 - 41 High Street, Potters Bar, Herts EN6 5AJ CBDU93357												
2 Carrier registration no (unless by exemption): CB0495088												
3 Vehicle registration: [REDACTED]												
Signature: [REDACTED]												
PART D Consignor's certificate												
I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any												
1 Consignor name:												
Date: 15/04/2012 Time: 12:46 (24 hr clock)												
I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.												
On behalf of (name, address, postcode, telephone, e-mail, facsimile): [REDACTED]												
Signature: [REDACTED]												
PART E Consignee's certificate												
(where more than one waste type is collected all of the information given below must be completed for each EWC)												
Description of Waste	EWC						Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste Management operation (R & D code)			
Sub Soils	1	7	0	5	0	3*	15700	ACC	D03			
1 I received the waste at the address given in A4 on:												
Date: 15/04/2012 Time: 14:05 (24 hr clock)												
2 Vehicle registration no. (or mode of transport if not road):												
I certify that waste management licence/permit/authorised exemption no(s): YPS138X15												
On behalf of (name, address, postcode, telephone, e-mail, facsimile): ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough PE8 6XX												
Signature: [REDACTED]												

ADVICE/WASTE TRANSFER NOTE **TICKET NO:** 342243 **Permit :** YP3138XB

CUSTOMER: LANT001 Lantern Recovery Specialists p Lantern Hosue, 39-41 High Street Potters Bar Herts EN6 5AJ ORDER NO: na SOURCE: 183 Hertfordshire	HAULIER: LANT001 Lantern Recovery Specialists p Lantern Hosue, 39-41 High Street Potters Bar VEH. TYPE: TIPP TIPPER VEH. REG NO: EY20YOV CARRIER NO: CBDU93357 TRANSFER NO: CCSCONL0011			
WASTE TYPE: WASTE CATEGORY: L170503 - Contaminated Soils				
CONTAINER: GRID REF: SPAW Job No. : L200404500011				
	WEIGHT KG'S	SEQ. NO	DATE	TIME
GROSS	31320	MANUAL	16/04/2020	07:10
TARE	16460	227159	16/04/2020	07:28
NET	14860			
		MEASURE 14.86 Tonne		
PRINT NAME:	SIGN: [REDACTED] N: [REDACTED]			
KCWEIGHBRIDGE				

**The Hazardous Waste Regulations 2005:
Consignment Note**

31320



PART A Notification details		Sheet 1 of 1																																
1 Consignment note code: C C S C O N / L O O I I 2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile): Paul Bromfield Aquatics, Maydencroft Lane, GOSMORE Herts SG4 7QD L2004045 3 The waste will be taken to (name, address and postcode): ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough PE8 6XX 4 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile): CCS Contractors Ltd, 58 Bury Mead Road, HITCHIN SG5 1RT																																		
PART B Description of the waste 1 The process giving rise to the waste(s) was: Demolition 2 SIC for the process giving rise to the waste: 4 3 / 1 1 / 3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified) <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Description of Waste</th> <th>EWC</th> <th>Quantity</th> <th>Component</th> <th>Concentration (% or mg/kg)</th> <th>Physical Form</th> <th>Hazard code(s)</th> <th>Container (date type)</th> </tr> </thead> <tbody> <tr> <td>Sub Soils</td> <td>1 7 0 5 0 3*</td> <td></td> <td>TPH</td> <td>>0.1 <10%</td> <td>solid</td> <td>HP11</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>ASBESTOS</td> <td>>0.1 <30%</td> <td></td> <td>HP5 HP7</td> <td></td> </tr> </tbody> </table> The information given below is to be completed for each EWC identified <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>EWC</th> <th>Packing Group</th> <th>UN number, Proper Shipping Name(s), and class</th> <th>Special handling requirements</th> </tr> </thead> <tbody> <tr> <td>1 7 0 5 0 3*</td> <td>n/c</td> <td>n/c</td> <td>n/c</td> </tr> </tbody> </table> PART C Carrier's certificate (If more than one carrier, attach schedule for subsequent carriers) I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements. 1 Carrier name: Lantern Recovery Services Ltd, Lantern House, 39 - 41 High Street, Potters Bar, Herts EN6 5AJ CBU93357 2 Carrier registration no: [REDACTED] 3 Vehicle registration no: CB04195088 EY20 YOV Date: 1 5 12 14 2 02 10 (24 hr clock) Time: 1 5 12 14 2 02 10 (24 hr clock) Signature: [REDACTED]			Description of Waste	EWC	Quantity	Component	Concentration (% or mg/kg)	Physical Form	Hazard code(s)	Container (date type)	Sub Soils	1 7 0 5 0 3*		TPH	>0.1 <10%	solid	HP11					ASBESTOS	>0.1 <30%		HP5 HP7		EWC	Packing Group	UN number, Proper Shipping Name(s), and class	Special handling requirements	1 7 0 5 0 3*	n/c	n/c	n/c
Description of Waste	EWC	Quantity	Component	Concentration (% or mg/kg)	Physical Form	Hazard code(s)	Container (date type)																											
Sub Soils	1 7 0 5 0 3*		TPH	>0.1 <10%	solid	HP11																												
			ASBESTOS	>0.1 <30%		HP5 HP7																												
EWC	Packing Group	UN number, Proper Shipping Name(s), and class	Special handling requirements																															
1 7 0 5 0 3*	n/c	n/c	n/c																															
PART D Consignor's certificate I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any 1 Consignor name: [REDACTED] Date: 1 5 12 14 2 02 10 (24 hr clock) Time: 1 5 12 14 2 02 10 (24 hr clock) I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011 [REDACTED]																																		
PART E Consignee's certificate (where more than one waste type is collected all of the information given below must be completed for each EWC) <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Description of Waste</th> <th>EWC</th> <th>Quantity of each EWC code received (kg)</th> <th>EWC code accepted/rejected</th> <th>Waste Management operation (R & C code)</th> </tr> </thead> <tbody> <tr> <td>SUB SOILS</td> <td>1 7 0 5 0 3*</td> <td>14 860</td> <td>ACC</td> <td>DDY</td> </tr> </tbody> </table> 1 I received the waste at the address given in A4 on: Date: 1 6 04 20 20 (24 hr clock) Time: 0 7 1 2 (24 hr clock) 2 Vehicle registration no. (or mode of transport if not road): On behalf of (name, address, postcode, telephone, e-mail, facsimile): ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough PE8 6XX I certify that waste management licence/permit/authorised exemption no(s): YPS158X15 Date: 1 6 04 20 20 (24 hr clock) Time: 0 7 1 2 (24 hr clock) Signature: [REDACTED] authorises the management of the waste described in B at the address given in A4			Description of Waste	EWC	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste Management operation (R & C code)	SUB SOILS	1 7 0 5 0 3*	14 860	ACC	DDY																						
Description of Waste	EWC	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste Management operation (R & C code)																														
SUB SOILS	1 7 0 5 0 3*	14 860	ACC	DDY																														

342244 Permit : YP3138XB

ADVICE/WASTE TRANSFER NOTE TICKET NO:

CUSTOMER: LANT001 Lantern Recovery Specialists p Lantern Hosue, 39-41 High Street Potters Bar Herts EN6 5AJ na ORDER NO: 183 Hertfordshire SOURCE:		HAULIER: LANT001 Lantern Recovery Specialists p Lantern Hosue, 39-41 High Street Potters Bar TIPP TIPPER VEH. TYPE: EK19UNY VEH. REG NO: CBDU93357 CARRIER NO: CCSCONL0012 TRANSFER NO:	
WASTE TYPE:			
WASTE CATEGORY: L170503 - Contaminated Soils		Job No. : L200404500012	
CONTAINER:		GRID REF: SPAW -	
	WEIGHT KG'S	SEQ. NO	DATE
GROSS	31620	227160	16/04/2020
TARE	16200	227161	16/04/2020
NET	15420		
		MEASURE 15.42 Tonne	
PRINT NAME: KCWEIGHBRIDGE			

The Hazardous Waste Regulations 2005:
Consignment Note

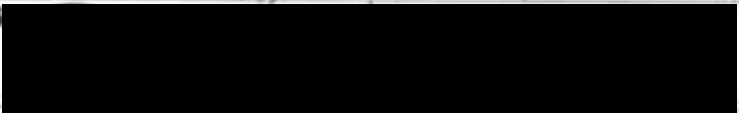
31620



PART A Notification details																																									
1 Consignment note code: C C S C O N / L 0 0 1 2 2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile): Paul Bromfield Aquatics, Maydencroft Lane, GOSMORE Herts SG4 7QD L2004045 3 The waste will be taken to (name, address and postcode): ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough PE8 6XX 4 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile): CCS Contractors Ltd, 58 Bury Mead Road, HITCHIN SG5 1RT																																									
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Description of Waste	EWC	Quantity	Component	Concentration (% or mg/kg)	Physical Form	Hazard code(s)	Container (size/type)																																		
Sub Soils	1 7 0 5 0 3*		TPH	>0.1 <10%	solid	HP11																																			
			ASBESTOS	>0.1 <30%		HP5 HP7																																			
EWC	Packing Group	UN number Proper Shipping Name(s), and class	Special handling requirements																																						
1 7 0 5 0 3*	n/c	n/c	n/c																																						
PART C Carrier's certificate																																									
I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements. 1 Carrier name: Lantern Recovery Services Ltd, Lantern House, 39 - 41 High Street, Potters Bar, Herts EN6 5AJ CBDU93357 2 Carrier registration or reason for exemption: CBDU195088 3 Vehicle registration (or mode of transport, if not road): EK19 UNY Date: 15/04/2010 Time: 16:35 (24 hr clock) On behalf of (name, address, postcode, telephone, e-mail, facsimile): Signature: [Redacted]																																									
PART D Consignor's certificate																																									
I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any 1 Consignor name: Date: 15/04/2010 Time: 16:35 (24 hr clock) I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011 On behalf of (name, address, postcode, telephone, e-mail, facsimile): Signature:																																									
PART E Consignee's certificate																																									
(where more than one waste type is collected all of the information given below must be completed for each EWC) <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Description of Waste</th> <th>EWC</th> <th>Quantity of each EWC code received (kg)</th> <th>EWC code accepted/rejected</th> <th>Waste Management operation (R & D code)</th> </tr> </thead> <tbody> <tr> <td>SUB SOILS</td> <td>1 7 0 5 0 3*</td> <td>15420</td> <td>ACC</td> <td>DO9</td> </tr> </tbody> </table> 1 I received the waste at the address given in A4 on: Date: 16/04/2010 Time: 09:40 (24 hr clock) 2 Vehicle registration no. (or mode of transport if not road): EK19 UNY Name: AMUC I certify that waste management licence/permits/authorised exemption no(s): YPS158XB On behalf of (name, address, postcode, telephone, e-mail, facsimile): ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough PE8 6XX Signature: [Redacted] Date: 16/04/2010 Time: 09:40 (24 hr clock)										Description of Waste	EWC	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste Management operation (R & D code)	SUB SOILS	1 7 0 5 0 3*	15420	ACC	DO9																						
Description of Waste	EWC	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste Management operation (R & D code)																																					
SUB SOILS	1 7 0 5 0 3*	15420	ACC	DO9																																					

342253 Permit : YP3138XB

ADVICE/WASTE TRANSFER NOTE TICKET NO:

CUSTOMER: LANT001 Lantern Recovery Specialists p Lantern Hosue, 39-41 High Street Potters Bar Herts EN6 5AJ		HAULIER: LANT001 Lantern Recovery Specialists p Lantern Hosue, 39-41 High Street Potters Bar	
ORDER NO: na SOURCE: 183 Hertfordshire		VEH. TYPE: TIPP TIPPER VEH. REG NO: EY20YOV CARRIER NO: CBDU93357 TRANSFER NO: CCSCONL0013	
WASTE TYPE:			
WASTE CATEGORY: L170503 - Contaminated Soils			
CONTAINER:		GRID REF: PAD - SPAW	
Job No. : L200404500013			
	WEIGHT KG'S	SEQ. NO	DATE
GROSS	32140	227176	16/04/2020
TARE	16380	227179	16/04/2020
NET	15760		
		MEASURE 15.76 Tonne	
PRINT NAME: KCWEIGHBRIDGE		SIG 	

**The Hazardous Waste Regulations 2005:
Consignment Note**



PART A Notification details		Sheet 1 of 1
1 Consignment note code: C C S C O N / L 0 0 1 3 ☐ Complete with (R) for rejected load		
2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile): Paul Brindle Aquatics, Maydencroft Lane, GOSMORE Herts SG4 7QD L2004045 3 The waste will be taken to (name, address and postcode): ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough PE8 6XX		
4 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile): CCS Contractors Ltd, 58 Bury Mead Road, HITCHIN SG5 1RT		
PART B Description of the waste		Number of continuation sheets, if used 0
1 The process giving rise to the waste(s) was: Demolition		
2 SIC for the process giving rise to the waste: 4 3 1 1 /		
3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)		
Description of Waste	EWC	Quantity
Sub Soils	1 7 0 5 0 3*	TPH
		ASBESTOS
		Concentration (% or mg/kg)
		>0.1<10%
		>0.1<30%
		Physical Form
		solid
		Hazard code(s)
		HP11
		HP5 HP7
The information given below is to be completed for each EWC identified		
	EWC	Packing Group
	1 7 0 5 0 3*	n/c
		UN number, Proper Shipping Name(s) and class
		n/c
		Special handling requirements
		n/c
PART C Carrier's certificate (If more than one carrier, attach schedule for subsequent carriers)		
I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements.		
1 Carrier name: Lantern Recovery Services Ltd, Lantern House, 39 - 41 High Street, Potters Bar, Herts EN6 5AJ CBDU93357 On behalf of (name, address, postcode, telephone, e-mail, facsimile):		
Date: 16/04/2020 Time: 08:45 (24 hr clock) 2 Carrier: 0800 495088		
3 Vehicle: [Redacted] Signature: [Redacted]		
PART D Consignor's certificate		
I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any		
1 Consignor name: Lantern Recovery Services Ltd, Lantern House, 39 - 41 High Street, Potters Bar, Herts EN6 5AJ CBDU93357 I confirm that I have fulfilled my duties to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.		
Date: 16/04/2020 Time: 08:45 (24 hr clock) On behalf of (name, address, postcode, telephone, e-mail, facsimile):		
Signature: [Redacted]		
PART E Consignee's certificate (where more than one waste type is collected all of the information given below must be completed for each EWC)		
Description of Waste	EWC	Quantity of each EWC code received (kg)
SUB SOILS	1 7 0 5 0 3*	15760
		EWC code
		ACC
		Waste Management operation (R & D code)
		D09
1 I received the waste at the address given in A4 on:		
Date: 16/04/2020 Time: 10:24 (24 hr clock) Name: AMUC		
2 Vehicle registration no. (or mode of transport if not road): EY20 YOU		
I certify that waste management licence/permit/authorised exemption no(s): YPS138XB		
On behalf of (name, address, postcode, telephone, e-mail, facsimile): ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough PE8 6XX Signature: [Redacted]		
Date: 16/04/2020 Time: 10:24 (24 hr clock)		

342254 Permit : YP3138XB

ADVICE/WASTE TRANSFER NOTE TICKET NO:

CUSTOMER: LANT001 Lantern Recovery Specialists p Lantern Hosue, 39-41 High Street Potters Bar Herts EN6 5AJ na ORDER NO: 183 Hertfordshire SOURCE:		HAULIER: LANT001 Lantern Recovery Specialists p Lantern Hosue, 39-41 High Street Potters Bar TIPP TIPPER VEH. TYPE: EK19UNY VEH. REG NO: CBDU93357 CARRIER NO: CCSCONL0014 TRANSFER NO:							
WASTE TYPE:									
WASTE CATEGORY: L170503 - Contaminated Soils									
CONTAINER:		GRID REF: PAD - SPAW							
		Job No. : L200404500014							
GROSS TARE NET	WEIGHT KG'S 32980 16220 16760	SEQ. NO 227178 227181	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:50%;">DATE</th> <th style="width:50%;">TIME</th> </tr> <tr> <td>16/04/2020</td> <td>10:36</td> </tr> <tr> <td>16/04/2020</td> <td>10:46</td> </tr> </table>	DATE	TIME	16/04/2020	10:36	16/04/2020	10:46
DATE	TIME								
16/04/2020	10:36								
16/04/2020	10:46								
		MEASURE 16.76 Tonne							
PRINT NAME: KCWEIGHBRIDGE	SIGNATURE ON BEHALF OF CUSTOMER: 								

**The Hazardous Waste Regulations 2005:
Consignment Note**



PART A Notification details

Sheet **1** of **1**

1 Consignment note code

C C S C O N / L 0 0 1 L

☐ Complete with [R] for rejected load

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile)

Paul Bromfield Aquatics, Maydencroft Lane, GOSMORE Herts SG4 7QD
L2004045

3 The waste will be taken to (name, address and postcode)

ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough
PE8 6XX

4 The waste producer was (if different from 2)
(name, address, postcode, telephone, e-mail, facsimile)

CCS Contractors Ltd, 58 Bury Mead
Road, HITCHIN SG5 1RT

PART B Description of the waste

Number of continuation sheets, if used **1**

1 The process giving rise to the waste(s) was

Demolition

2 SIC for the process giving rise to the waste

4 3 1 1 /

3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of Waste	EWC	Quantity	Component	Concentration (% or mg/kg)	Physical Form	Hazard code(s)	Container
Sub Soils	1 7 0 5 0 3*		TPH	>0.1 <10%	solid	HP11	
			ASBESTOS	>0.1 <30%		HP5 HP7	

The information given below is to be completed for each EWC identified

EWC	Packing Group	UN number, Proper Shipping Name(s), and class	Special handling requirements
1 7 0 5 0 3*	n/c	n/c	n/c

PART C Carrier's certificate

(if more than one carrier, attach schedule for subsequent carriers)

I certify that I (and any cotransporter) and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements.

On behalf of (name, address, postcode, telephone, e-mail, facsimile)

1 Carrier name

Lantern Recovery Services Ltd, Lantern House, 39 - 41
High Street, Potters Bar, Herts EN6 5AJ CBDU93357

2 Carrier registration no (reason for exemption)

CB04195028

3 Vehicle registration no. (or mode of transport if not road)

FR19WVY

Signature

PART D Consignor's certificate

I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

1 Consignor name

Date: 16/04/2020
Time: 10:41 (24 hr clock)

On behalf of (name, address, postcode, telephone, e-mail, facsimile)

Signature

PART E Consignee's certificate

(where more than one waste type is collected all of the information given below must be completed for each EWC)

Description of Waste	EWC	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste Management operation (R & D code)
SUB SOILS	1 7 0 5 0 3*	16760	ACC	DOA

1 I received the waste at the address given in A4 on

Date: 16/04/2020
Time: 10:41 (24 hr clock)

Name

AMWC

2 Vehicle registration no. (or mode of transport if not road)

On behalf of (name, address, postcode, telephone, e-mail, facsimile)

ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough PE8 6XX

I certify that waste management licence/permit/authorised exemption no(s)

YP3138XB

authorises the management of the waste described in B of the address given in A4

Date: 16/04/2020
Time: 10:41 (24 hr clock)

ADVICE/WASTE TRANSFER NOTE **TICKET NO:** 342264 **Permit :** YP3138XB

CUSTOMER: LANT001 Lantern Recovery Specialists p Lantern Hosue, 39-41 High Street Potters Bar Herts EN6 5AJ ORDER NO: na SOURCE: 183 Hertfordshire	HAULIER: LANT001 Lantern Recovery Specialists p Lantern Hosue, 39-41 High Street Potters Bar VEH. TYPE: TIPP TIPPER VEH. REG NO: EK19UNY CARRIER NO: CBDU93357 TRANSFER NO: CCSCONL0015			
WASTE TYPE: WASTE CATEGORY: L170503 - Contaminated Soils				
CONTAINER: GRID REF: SPAW - Job No. : L200404500015				
	WEIGHT KG'S	SEQ. NO	DATE	TIME
GROSS	31280	227191	16/04/2020	14:16
TARE	16060	227192	16/04/2020	14:27
NET	15220			
		MEASURE 15.22 Tonne		
PRINT NAME: KCWEIGHBRIDGE		SIGNATURE:  AN:		

**The Hazardous Waste Regulations 2005:
Consignment Note**



PART A Notification details

Sheet **1** of **1**

1 Consignment note code

C C S C O N / L 0 0 1 5

☐ Consigns with (R) for rejected load

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile)

Paul Bromfield Aquatics, Maydencroft Lane, GOSMORE Herts SG4 7QD
12004045

3 The waste will be taken to (name, address and postcode)

ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough
PE8 6XX

4 The waste producer was (if different from 2)

(name, address, postcode, telephone, e-mail, facsimile)
CCS Contractors Ltd, 58 Bury Mead
Road, HITCHIN SG5 1RT

PART B Description of the waste

Number of continuation sheets, if used **1**

1 The process giving rise to the waste(s) was

Demolition

2 SIC for the process giving rise to the waste

4 3 1 1 /

3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of Waste	EWC	Quantity	Component	Concentration (% or mg/kg)	Physical Form	Hazard code(s)	Container
Sub Soils	1 7 0 5 0 3*		TPH	>0.1 <10%	solid	HP11	11/11/11
			ASBESTOS	>0.1 <30%		HP5 HP7	

The information given below is to be completed for each EWC identified

EWC	Packing Group	UN number, Proper Shipping Name(s) and class	Special handling requirements
1 7 0 5 0 3*	n/c	n/c	n/c

PART C Carrier's certificate

(If more than one carrier, attach schedule for subsequent carriers)

I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements

On behalf of (name, address, postcode, telephone, e-mail, facsimile)

1 Carrier name

Lantern Recovery Services Ltd, Lantern House, 39 - 41
High Street, Potters Bar, Herts EN6 5AJ CB093357

2 Carrier registration no (reason for exemption)

CB093357

3 Vehicle registration

Signature

PART D Consignor's certificate

I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

On behalf of (name, address, postcode, telephone, e-mail, facsimile)

1 Consignor name

Date 16/09/2020
Time 12:29 (24 hr clock)

Signature

PART E Consignee's certificate

(where more than one waste type is collected all of the information given below must be completed for each EWC)

Description of Waste	EWC	Quantity of each EWC code received (kg)	EWC code assigned to the receipt	Waste Management operation (R & D code)
SUB SOILS	1 7 0 5 0 3*	15220	ACC	003

1 I received the waste at the address given in A4 on

Date 16/09/2020
Time 14:15 (24 hr clock)

Name

AMC

2 Vehicle registration no. (or mode of transport if not road)

EC19 UNY

On behalf of (name, address, postcode, telephone, e-mail, facsimile)

ENRMF AUGEAN plc, Stamford Road, KINGS CLIFFE, Peterborough PE8 6XX

I certify that waste management licence/permit/authorised exemption no(s)

YP3138XR

I confirm the management of the waste described in B at the address given in A4

Date 16/09/2020
Time 14:15 (24 hr clock)

Signature

342362 Permit : YP3138X8

ADVICE/WASTE TRANSFER NOTE TICKET NO:

CUSTOMER: LANTOOL Lantern Recovery Specialists P Lantern House, 39-41 High Street Potters Bar Herts EN6 5AJ ORDER NO: na SOURCE: 183 Hertfordshire	HAULIER: LANTOOL Lantern Recovery Specialists P Lantern House, 39-41 High Street Potters Bar Herts EN6 5AJ VEH. TYPE: TIPP TIPPER VEH. REG NO: EY20YDV CARRIER NO: CB0050357 TRANSFER NO: CCSCONL0018
---	--

WASTE TYPE:

WASTE CATEGORY: U170503 - Contaminated Soils Job No. : L200404500018

GRID REF: PAD - SPAN

CONTAINER:		SEQ. NO	DATE	TIME
GROSS	WEIGHT KG'S	227220	17/04/2020	12:24
	31640	227223	17/04/2020	12:40
	16420			
TARE	15220		MEASURE 15.22 Tonne	
NET				
PRINT NAME:	SIGNATURE ON BEHALF OF CUSTOMER:		SIGNATURE FOR AUGEAN:	
KCWEIGHBRIDGE	[REDACTED]		[REDACTED]	

APPENDIX III
PROTOGRAPHIC EVIDENCE

Excavation for removal of asbestos
20th April 2020





**Excavation for removal of PAH and TPH concentrations
20th April 2020 – Plots 5 and 6**



Plot 2 and 3 – 2 November 2020



Removal of Made ground – Plot 3
2nd November 2020



Completed gardens – 24th August 2021



Plot 4



Plot 5



Plots 4, 5 and 8



Plot 6, 7 and 8

APPENDIX IV
CHEMICAL ANALYSIS REPORTS



Final Report

Report No.: 20-10844-1

Initial Date of Issue: 24-Apr-2020

Client Brown 2 Green Associates

Client Address: Suite 1, Wenden Court
Station Road
Wendens Ambo
Nr. Saffron Walden
Essex
CB11 4LB

Contact(s): Philip Miles

Project 2220 Maydencroft Lane, Gosmore

Quotation No.: **Date Received:** 22-Apr-2020

Order No.: **Date Instructed:** 22-Apr-2020

No. of Samples: 10

Turnaround (Wkdays): 5 **Results Due:** 28-Apr-2020

Date Approved: 24-Apr-2020

Approved By:

Details: Glynn Harvey, Technical Manager

Results - Soil

Project: 2220 Maydencroft Lane, Gosmore

Client: Brown 2 Green Associates	Chemtest Job No.:				20-10844	20-10844	20-10844	20-10844	20-10844	20-10844	20-10844	20-10844
Quotation No.:	Chemtest Sample ID.:				998377	998378	998379	998380	998381	998382	998383	998384
	Sample Location:				VASB1	VASB1	VASB2	VASB2	VASB3	VASB3	VASB4	VASB4
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.2	0.5	0.2	0.5	0.2	0.5	0.2	0.5
	Date Sampled:				20-Apr-2020	20-Apr-2020	20-Apr-2020	20-Apr-2020	20-Apr-2020	20-Apr-2020	20-Apr-2020	20-Apr-2020
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD								
ACM Type	U	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
ACM Detection Stage	U	2192		N/A	-	-	-	-	-	-	-	-

Project: 2220 Maydencroft Lane, Gosmore

Client: Brown 2 Green Associates	Chemtest Job No.:				20-10844	20-10844
Quotation No.:	Chemtest Sample ID.:				998385	998386
	Sample Location:				VASB5	VASB5
	Sample Type:				SOIL	SOIL
	Top Depth (m):				0.2	0.5
	Date Sampled:				20-Apr-2020	20-Apr-2020
	Asbestos Lab:				DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
ACM Type	U	2192		N/A	-	-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	No Asbestos Detected
ACM Detection Stage	U	2192		N/A	-	-

SOP	Title	Parameters included	Method summary
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry

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- T This analysis has been subcontracted to an unaccredited laboratory
- I/S Insufficient Sample
- U/S Unsuitable Sample
- N/E not evaluated
- < "less than"
- > "greater than"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

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

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

All Asbestos testing is performed at the indicated laboratory

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

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

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

Charges may apply to extended sample storage

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

customerservices@chemtest.com



Final Report

Report No.: 20-10846-1

Initial Date of Issue: 24-Apr-2020

Client Brown 2 Green Associates

Client Address: Suite 1, Wenden Court
Station Road
Wendens Ambo
Nr. Saffron Walden
Essex
CB11 4LB

Contact(s): Philip Miles

Project 2220 Maydencroft Lane, Gosmore

Quotation No.: **Date Received:** 22-Apr-2020

Order No.: **Date Instructed:** 22-Apr-2020

No. of Samples: 3

Turnaround (Wkdays): 5 **Results Due:** 28-Apr-2020

Date Approved: 24-Apr-2020

Approved By:


Details: Glynn Harvey, Technical Manager

Project: 2220 Maydencroft Lane, Gosmore

Client: Brown 2 Green Associates	Chemtest Job No.:				20-10846	20-10846	20-10846
Quotation No.:	Chemtest Sample ID.:				998391	998392	998393
	Sample Location:				VPAH1	VPAH2	VPAH3
	Sample Type:				SOIL	SOIL	SOIL
	Top Depth (m):				0.0	0.0	0.0
	Bottom Depth (m):				0.2	0.05	0.05
	Date Sampled:				20-Apr-2020	20-Apr-2020	20-Apr-2020
Determinand	Accred.	SOP	Units	LOD			
Moisture	N	2030	%	0.020	8.0	9.4	10
Soil Colour	N	2040		N/A	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand
TPH >C5-C6	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0
TPH >C6-C7	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0
TPH >C7-C8	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0
TPH >C8-C10	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0
TPH >C10-C12	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0
TPH >C12-C16	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0
TPH >C16-C21	N	2670	mg/kg	1.0	12	5.3	7.1
TPH >C21-C35	N	2670	mg/kg	1.0	38	31	34
Total TPH >C5-C35	N	2670	mg/kg	10	50	36	41
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.10	1.3	< 0.10	< 0.10
Anthracene	M	2700	mg/kg	0.10	0.50	< 0.10	< 0.10
Fluoranthene	M	2700	mg/kg	0.10	2.1	0.56	< 0.10
Pyrene	M	2700	mg/kg	0.10	2.0	0.73	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.10	0.85	< 0.10	< 0.10
Chrysene	M	2700	mg/kg	0.10	0.99	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	1.5	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	0.52	< 0.10	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.10	1.2	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	1.0	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	0.22	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	1.1	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	13	< 2.0	< 2.0

Test Methods

SOP	Title	Parameters included	Method summary
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)

Report Information

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- T This analysis has been subcontracted to an unaccredited laboratory
- I/S Insufficient Sample
- U/S Unsuitable Sample
- N/E not evaluated
- < "less than"
- > "greater than"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

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

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

All Asbestos testing is performed at the indicated laboratory

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

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

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

Charges may apply to extended sample storage

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

customerservices@chemtest.com



Final Report

Report No.: 20-10848-1

Initial Date of Issue: 28-Apr-2020

Client Brown 2 Green Associates

Client Address: Suite 1, Wenden Court
Station Road
Wendens Ambo
Nr. Saffron Walden
Essex
CB11 4LB

Contact(s): Philip Miles

Project 2220 Maydencroft Lane, Gosmore

Quotation No.:

Order No.:

No. of Samples: 3

Turnaround (Wkdays): 5

Date Approved: 28-Apr-2020

Date Received: 22-Apr-2020

Date Instructed: 22-Apr-2020

Results Due: 28-Apr-2020

Approved By:



Details: Glynn Harvey, Technical Manager

Project: 2220 Maydencroft Lane, Gosmore

Client: Brown 2 Green Associates	Chemtest Job No.:				20-10848	20-10848	20-10848
Quotation No.:	Chemtest Sample ID.:				998395	998396	998397
	Sample Location:				VPAH4	VPAH5	VPAH6
	Sample Type:				SOIL	SOIL	SOIL
	Top Depth (m):				0.0	0.0	0.0
	Bottom Depth (m):				0.2	0.05	0.2
	Date Sampled:				20-Apr-2020	20-Apr-2020	20-Apr-2020
Determinand	Accred.	SOP	Units	LOD			
Moisture	N	2030	%	0.020	8.5	9.3	11
Soil Colour	N	2040		N/A	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Loam	Loam	Clay
TPH >C5-C6	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0
TPH >C6-C7	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0
TPH >C7-C8	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0
TPH >C8-C10	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0
TPH >C10-C12	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0
TPH >C12-C16	N	2670	mg/kg	1.0	< 1.0	4.6	< 1.0
TPH >C16-C21	N	2670	mg/kg	1.0	< 1.0	32	3.5
TPH >C21-C35	N	2670	mg/kg	1.0	< 1.0	66	15
Total TPH >C5-C35	N	2670	mg/kg	10	< 10	100	18
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.10	< 0.10	0.70	0.87
Anthracene	M	2700	mg/kg	0.10	< 0.10	0.36	0.29
Fluoranthene	M	2700	mg/kg	0.10	0.63	1.3	1.9
Pyrene	M	2700	mg/kg	0.10	0.67	1.1	1.8
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10	0.52	0.83
Chrysene	M	2700	mg/kg	0.10	< 0.10	0.52	0.99
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	1.2
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	0.47
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	1.0
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	0.71
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	0.12
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	0.53
Total Of 16 PAH's	M	2700	mg/kg	2.0	< 2.0	4.5	11

Test Methods

SOP	Title	Parameters included	Method summary
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)

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

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customerservices@chemtest.com



Final Report

Report No.: 20-29824-1

Initial Date of Issue: 09-Nov-2020

Client Brown 2 Green Associates

Client Address: Suite 1, Wenden Court
Station Road
Wendens Ambo
Nr. Saffron Walden
Essex
CB11 4LB

Contact(s): Philip Miles

Project 2220 Maydencroft Lane, Gosmore

Quotation No.: **Date Received:** 04-Nov-2020

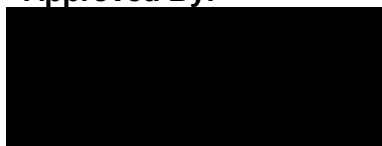
Order No.: **Date Instructed:** 04-Nov-2020

No. of Samples: 3

Turnaround (Wkdays): 5 **Results Due:** 10-Nov-2020

Date Approved: 09-Nov-2020

Approved By:



Details: Glynn Harvey, Technical Manager

Results - Soil

Project: 2220 Maydenscroft Lane, Gosmore

Client: Brown 2 Green Associates	Chemtest Job No.:				20-29824	20-29824	20-29824
Quotation No.:	Chemtest Sample ID.:				1091382	1091383	1091384
	Sample Location:				VPAH7	VPAH8	VPAH9
	Sample Type:				SOIL	SOIL	SOIL
	Top Depth (m):				0.00	0.00	0.00
	Bottom Depth (m):				0.10	0.10	0.10
	Date Sampled:				02-Nov-2020	02-Nov-2020	02-Nov-2020
Determinand	Accred.	SOP	Units	LOD			
Moisture	N	2030	%	0.020	16	15	17
Soil Colour	N	2040		N/A	Brown	Brown	Brown
Other Material	N	2040		N/A	None	Stones	Stones
Soil Texture	N	2040		N/A	Clay	Clay	Clay
Organic Matter	M	2625	%	0.40	< 0.40	1.9	1.5
TPH >C5-C6	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0
TPH >C6-C7	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0
TPH >C7-C8	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0
TPH >C8-C10	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0
TPH >C10-C12	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0
TPH >C12-C16	N	2670	mg/kg	1.0	< 1.0	< 1.0	1.2
TPH >C16-C21	N	2670	mg/kg	1.0	< 1.0	7.1	11
TPH >C21-C35	N	2670	mg/kg	1.0	< 1.0	35	34
Total TPH >C5-C35	N	2670	mg/kg	10	< 10	43	46
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	1.0	0.70
Anthracene	M	2800	mg/kg	0.10	< 0.10	0.34	0.32
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	2.1	1.7
Pyrene	M	2800	mg/kg	0.10	< 0.10	1.6	1.5
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	1.1	1.0
Chrysene	M	2800	mg/kg	0.10	< 0.10	0.86	0.96
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	1.5	1.7
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	0.53	0.58
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	1.6	1.4
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	0.84	0.76
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	1.1	0.89
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	13	12

Test Methods

SOP	Title	Parameters included	Method summary
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS

Report Information

Key

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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

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

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

All Asbestos testing is performed at the indicated laboratory

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

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

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

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.:	20-29823-1	
Initial Date of Issue:	09-Nov-2020	
Client	Brown 2 Green Associates	
Client Address:	Suite 1, Wenden Court Station Road Wendens Ambo Nr. Saffron Walden Essex CB11 4LB	
Contact(s):	Philip Miles	
Project	2220 Maydencfoft, Gosmore	
Quotation No.:		Date Received: 04-Nov-2020
Order No.:		Date Instructed: 04-Nov-2020
No. of Samples:	4	
Turnaround (Wkdays):	5	Results Due: 10-Nov-2020
Date Approved:	09-Nov-2020	
Approved By:		

Details: Glynn Harvey, Technical Manager

Results - Soil

Project: 2220 Maydenscoft, Gosmore

Client: Brown 2 Green Associates	Chemtest Job No.:				20-29823	20-29823	20-29823	20-29823
Quotation No.:	Chemtest Sample ID.:				1091368	1091369	1091370	1091371
	Sample Location:				VSWC 1	VSWC 2	VSWC 3	VSWC 4
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.00	0.00	0.00	0.00
	Bottom Depth (m):				0.10	0.10	0.10	0.10
	Date Sampled:				02-Nov-2020	02-Nov-2020	02-Nov-2020	02-Nov-2020
Determinand	Accred.	SOP	Units	LOD				
Moisture	N	2030	%	0.020	13	13	16	15
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Clay	Sand	Clay	Clay
Arsenic	M	2450	mg/kg	1.0	26	31	17	15
Naphthalene	M	2700	mg/kg	0.10	< 0.10	0.25	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	0.24	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	0.90	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.10	< 0.10	1.0	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.10	0.68	5.4	< 0.10	< 0.10
Anthracene	M	2700	mg/kg	0.10	0.15	1.4	< 0.10	< 0.10
Fluoranthene	M	2700	mg/kg	0.10	1.6	7.3	< 0.10	< 0.10
Pyrene	M	2700	mg/kg	0.10	1.2	7.4	< 0.10	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10	2.9	< 0.10	< 0.10
Chrysene	M	2700	mg/kg	0.10	< 0.10	2.8	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10	5.4	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10	2.0	< 0.10	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10	4.7	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	3.7	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	1.1	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	3.7	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	3.6	50	< 2.0	< 2.0

Test Methods

SOP	Title	Parameters included	Method summary
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)

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U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
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None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

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

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

All Asbestos testing is performed at the indicated laboratory

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

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

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

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 21-29700-1

Initial Date of Issue: 02-Sep-2021

Client Brown 2 Green Associates

Client Address: Suite 1, Wenden Court
Station Road
Wendens Ambo
Nr. Saffron Walden
Essex
CB11 4LB

Contact(s): Philip Miles
Radu Mihai Ilie

Project 2220 Maydencroft Lane, Gosmore

Quotation No.: **Date Received:** 26-Aug-2021

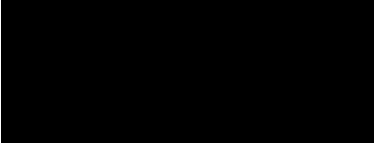
Order No.: **Date Instructed:** 26-Aug-2021

No. of Samples: 1

Turnaround (Wkdays): 5 **Results Due:** 02-Sep-2021

Date Approved: 02-Sep-2021

Approved By:



Details: Glynn Harvey, Technical Manager

Results - Soil

Project: 2220 Maydencroft Lane, Gosmore

Client: Brown 2 Green Associates	Chemtest Job No.:				21-29700
Quotation No.:	Chemtest Sample ID.:				1267571
	Sample Location:				VSWC5
	Sample Type:				SOIL
	Top Depth (m):				0
	Bottom Depth (m):				0.1
	Date Sampled:				24-Aug-2021
Determinand	Accred.	SOP	Units	LOD	
Moisture	N	2030	%	0.020	7.6
Soil Colour	N	2040		N/A	Brown
Other Material	N	2040		N/A	Stones
Soil Texture	N	2040		N/A	Sand
Arsenic	M	2450	mg/kg	1.0	4.5
Naphthalene	M	2700	mg/kg	0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.10	< 0.10
Fluorene	M	2700	mg/kg	0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.10	< 0.10
Anthracene	M	2700	mg/kg	0.10	< 0.10
Fluoranthene	M	2700	mg/kg	0.10	< 0.10
Pyrene	M	2700	mg/kg	0.10	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10
Chrysene	M	2700	mg/kg	0.10	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	< 2.0

Test Methods

SOP	Title	Parameters included	Method summary
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)

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

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All results are expressed on a dry weight basis

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

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

All Asbestos testing is performed at the indicated laboratory

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

Sample Deviation Codes

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

Sample Retention and Disposal

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

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

Charges may apply to extended sample storage

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

customerservices@chemtest.com



Final Report

Report No.: 21-29672-1

Initial Date of Issue: 02-Sep-2021

Client Brown 2 Green Associates

Client Address: Suite 1, Wenden Court
Station Road
Wendens Ambo
Nr. Saffron Walden
Essex
CB11 4LB

Contact(s): Philip Miles

Project 2220 Maddencroft Lane, Gosmore

Quotation No.: **Date Received:** 26-Aug-2021

Order No.: **Date Instructed:** 26-Aug-2021

No. of Samples: 2

Turnaround (Wkdays): 5 **Results Due:** 02-Sep-2021

Date Approved: 02-Sep-2021

Approved By:

Details: Glynn Harvey, Technical Manager

Results - Soil

Project: 2220 Maddencroft Lane, Gosmore

Client: Brown 2 Green Associates	Chemtest Job No.:				21-29672	21-29672
Quotation No.:	Chemtest Sample ID.:				1267476	1267477
	Sample Location:				TSVP4	TSVP5
	Sample Type:				SOIL	SOIL
	Top Depth (m):				0.0	0.0
	Bottom Depth (m):				0.2	0.2
	Date Sampled:				24-Aug-2021	24-Aug-2021
	Asbestos Lab:				DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
ACM Type	U	2192		N/A	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	7.0	8.3
Soil Colour	N	2040		N/A	Brown	Brown
Other Material	N	2040		N/A	Stones and Roots	Stones and Roots
Soil Texture	N	2040		N/A	Sand	Sand
pH	M	2010		4.0	8.0	8.0
Arsenic	M	2450	mg/kg	1.0	10	7.6
Cadmium	M	2450	mg/kg	0.10	0.13	< 0.10
Chromium	M	2450	mg/kg	1.0	28	21
Copper	M	2450	mg/kg	0.50	64	14
Mercury	M	2450	mg/kg	0.10	0.18	0.10
Nickel	M	2450	mg/kg	0.50	14	10
Lead	M	2450	mg/kg	0.50	42	26
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20
Vanadium	U	2450	mg/kg	5.0	37	29
Zinc	M	2450	mg/kg	0.50	47	32
Organic Matter	M	2625	%	0.40	2.8	2.3
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0

Results - Soil

Project: 2220 Maddencroft Lane, Gosmore

Client: Brown 2 Green Associates	Chemtest Job No.:				21-29672	21-29672
Quotation No.:	Chemtest Sample ID.:				1267476	1267477
	Sample Location:				TSVP4	TSVP5
	Sample Type:				SOIL	SOIL
	Top Depth (m):				0.0	0.0
	Bottom Depth (m):				0.2	0.2
	Date Sampled:				24-Aug-2021	24-Aug-2021
	Asbestos Lab:				DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	0.17	1.8
Anthracene	M	2800	mg/kg	0.10	0.12	0.45
Fluoranthene	M	2800	mg/kg	0.10	0.47	2.8
Pyrene	M	2800	mg/kg	0.10	0.33	2.5
Benzo[a]anthracene	M	2800	mg/kg	0.10	0.29	1.4
Chrysene	M	2800	mg/kg	0.10	0.24	1.6
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	0.29	2.0
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	0.11	0.73
Benzo[a]pyrene	M	2800	mg/kg	0.10	0.18	1.7
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	0.30	1.2
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	0.16	0.21
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	0.18	1.2
Total Of 16 PAH's	N	2800	mg/kg	2.0	2.8	18

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS

Report Information

Key

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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

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

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

All Asbestos testing is performed at the indicated laboratory

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

Sample Deviation Codes

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

Sample Retention and Disposal

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

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

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.:	21-29704-1	
Initial Date of Issue:	02-Sep-2021	
Client	Brown 2 Green Associates	
Client Address:	Suite 1, Wenden Court Station Road Wendens Ambo Nr. Saffron Walden Essex CB11 4LB	
Contact(s):	Philip Miles	
Project	2220 Maddencroft Lane, Gosmore	
Quotation No.:		Date Received: 26-Aug-2021
Order No.:		Date Instructed: 26-Aug-2021
No. of Samples:	3	
Turnaround (Wkdays):	5	Results Due: 02-Sep-2021
Date Approved:	02-Sep-2021	
Approved By:		
Details:	Glynn Harvey, Technical Manager	

Results - Soil

Project: 2220 Maddencroft Lane, Gosmore

Client: Brown 2 Green Associates	Chemtest Job No.:				21-29704	21-29704	21-29704
Quotation No.:	Chemtest Sample ID.:				1267579	1267580	1267581
	Sample Location:				TSVP6	TSVP7	TSVP8
	Sample Type:				SOIL	SOIL	SOIL
	Top Depth (m):				0	0	0
	Bottom Depth (m):				0.2	0.2	0.2
	Date Sampled:				24-Aug-2021	24-Aug-2021	24-Aug-2021
	Asbestos Lab:				DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD			
ACM Type	U	2192		N/A	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	8.0	7.6	7.9
Soil Colour	N	2040		N/A	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture	N	2040		N/A	Sand	Sand	Sand
pH	M	2010		4.0	7.3	7.8	7.7
Arsenic	M	2450	mg/kg	1.0	4.7	10	11
Cadmium	M	2450	mg/kg	0.10	< 0.10	0.13	0.14
Chromium	M	2450	mg/kg	1.0	9.9	18	22
Copper	M	2450	mg/kg	0.50	7.3	13	29
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	6.8	12	15
Lead	M	2450	mg/kg	0.50	22	37	46
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20	0.26
Vanadium	U	2450	mg/kg	5.0	20	38	40
Zinc	M	2450	mg/kg	0.50	24	44	50
Organic Matter	M	2625	%	0.40	2.5	2.0	2.0
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0

Results - Soil

Project: 2220 Maddencroft Lane, Gosmore

Client: Brown 2 Green Associates	Chemtest Job No.:				21-29704	21-29704	21-29704
Quotation No.:	Chemtest Sample ID.:				1267579	1267580	1267581
	Sample Location:				TSVP6	TSVP7	TSVP8
	Sample Type:				SOIL	SOIL	SOIL
	Top Depth (m):				0	0	0
	Bottom Depth (m):				0.2	0.2	0.2
	Date Sampled:				24-Aug-2021	24-Aug-2021	24-Aug-2021
	Asbestos Lab:				DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD			
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	0.24	0.23	0.57
Pyrene	M	2800	mg/kg	0.10	0.19	0.20	0.47
Benzo[a]anthracene	M	2800	mg/kg	0.10	0.16	0.13	0.28
Chrysene	M	2800	mg/kg	0.10	0.16	0.14	0.30
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	0.23	0.26	0.41
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.14
Benzo[a]pyrene	M	2800	mg/kg	0.10	0.25	0.18	0.41
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	0.25	0.19	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	0.24	0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	0.16	0.16	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	2.6

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Diben[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Diben[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS

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

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APPENDIX V
VERIFICATION CRITERIA

SOUTH WEST CORNER

Determinant	Maximum Concentration (mg/kg)		
Arsenic **	37		
	1% Soil Organic Matter	2.5% Soil Organic Matter	6% Soil Organic Matter
Polycyclic Aromatic Hydrocarbons			
Naphthalene**	2.3	5.6	13
Acenaphthylene **	170	420	920
Acenaphthene **	210	510	1100
Fluorene **	170	400	860
Phenanthrene **	95	220	440
Anthracene**	2400	5400	11000
Fluoranthene**	280	560	890
Pyrene**	620	1200	2000
Benz(a)anthracene**	7.2	11	13
Chrysene**	15	22	27
Benzo(b)fluoranthene**	2.6	3.3	3.7
Benzo(k)fluoranthene**	77	93	100
Benzo(a)pyrene**	2.2	2.7	3.0
Indeno(123-cd)pyrene**	27	36	41
Dibenzo(a,h)anthracene**	0.24	0.28	0.3
Benzo(ghi)perylene**	320	340	350

Source of Values

** Tier 1 GAC are based on Nathanail, C. P., McCaffrey, C., Gillett, A. G., Ogden, R. C. and Nathanail, J. F. 2015. The LQM/CIEH S4ULs for Human Health Risk Assessment. Land Quality Press, Nottingham. **Copyright Land Quality Management Limited reproduced with permission; Publication Number S4UL3086.**

TOP SOIL - Private Gardens in Houses

Determinant	Maximum Concentration (mg/kg)		
Arsenic **	37		
Cadmium**	11		
Chromium**	910		
Lead***	200		
Mercury**	40		
Nickel****	75		
Selenium**	250		
Copper ****	130		
Zinc ****	200		
Asbestos	None detected (<0.001%)		
pH	5 - 10		
	1% Soil Organic Matter	2.5% Soil Organic Matter	6% Soil Organic Matter
Polycyclic Aromatic Hydrocarbons			
Naphthalene**	2.3	5.6	13
Acenaphthylene **	170	420	920
Acenaphthene **	210	510	1100
Fluorene **	170	400	860
Phenanthrene **	95	220	440
Anthracene**	2400	5400	11000
Fluoranthene**	280	560	890
Pyrene**	620	1200	2000
Benz(a)anthracene**	7.2	11	13
Chrysene**	15	22	27
Benzo(b)fluoranthene**	2.6	3.3	3.7
Benzo(k)fluoranthene**	77	93	100
Benzo(a)pyrene**	2.2	2.7	3.0
Indeno(123-cd)pyrene**	27	36	41
Dibenzo(a,h)anthracene**	0.24	0.28	0.3
Benzo(ghi)perylene**	320	340	350
Total Petroleum Hydrocarbons			
TPH C ₅ -C ₆ **	42	78	160
TPH C ₆ -C ₈ **	100	230	500
TPH C ₈ -C ₁₀ **	27	65	150
TPH C ₁₀ -C ₁₂ **	74	180	380
TPH C ₁₂ -C ₁₆ **	140	330	500
TPH C ₁₆ -C ₂₁ ****	260	500	500
TPH C ₂₁ -C ₃₅ ****	500	500	500
Total TPH C ₅ -C ₃₅ ****	500	500	500

Source of Values

* Soil guideline value, DEFRA/Environment Agency

** Tier 1 GAC are based on Nathanail, C. P., McCaffrey, C., Gillett, A. G., Ogden, R. C. and Nathanail, J. F. 2015. The LQM/CIEH S4ULs for Human Health Risk Assessment. Land Quality Press, Nottingham. **Copyright Land Quality Management Limited reproduced with permission; Publication Number S4UL3086.**

*** - Category 4 Screening Level.

**** BS 3882 British Standards Specification for Top Soil.

***** B2G level to ensure no visible or olfactory evidence.

The soils must be physically suitable for the intended use and be free from deleterious materials such as glass, plastic, wood, paper etc. It is recommended that topsoil should generally comply with the requirements of the specification for multigrade topsoil as given in BS 3882: 2015 or to the satisfaction of the landscape architect.

TOP SOIL - Drainage Field

Determinant	Maximum Concentration (mg/kg)		
Arsenic **	79		
Cadmium**	120		
Chromium**	1500		
Lead***	630		
Mercury**	120		
Nickel****	230		
Selenium**	1100		
Copper ****	130		
Zinc ****	200		
Asbestos	None detected (<0.001%)		
pH	5 - 10		
	1% Soil Organic Matter	2.5% Soil Organic Matter	6% Soil Organic Matter
Polycyclic Aromatic Hydrocarbons			
Naphthalene**	4900	4900	4900
Acenaphthylene **	15000	15000	15000
Acenaphthene **	15000	15000	15000
Fluorene **	9900	9900	9900
Phenanthrene **	3100	3100	3100
Anthracene**	74000	74000	74000
Fluoranthene**	3100	3100	3100
Pyrene**	7400	7400	7400
Benz(a)anthracene**	29	29	29
Chrysene**	57	57	57
Benzo(b)fluoranthene**	7.1	7.2	7.2
Benzo(k)fluoranthene**	190	190	190
Benzo(a)pyrene**	5.7	5.7	5.7
Indeno(123-cd)pyrene**	82	82	82
Dibenzo(a,h)anthracene**	0.57	0.57	0.58
Benzo(ghi)perylene**	640	640	640
Total Petroleum Hydrocarbons			
TPH C ₅ -C ₆ **	500	500	500
TPH C ₆ -C ₈ **	500	500	500
TPH C ₈ -C ₁₀ **	500	500	500
TPH C ₁₀ -C ₁₂ **	500	500	500
TPH C ₁₂ -C ₁₆ **	500	500	500
TPH C ₁₆ -C ₂₁ ****	500	500	500
TPH C ₂₁ -C ₃₅ ****	500	500	500
Total TPH C ₅ -C ₃₅ ****	1000	1000	1000

Source of Values

* Soil guideline value, DEFRA/Environment Agency

** Tier 1 GAC are based on Nathanail, C. P., McCaffrey, C., Gillett, A. G., Ogden, R. C. and Nathanail, J. F. 2015. The LQM/CIEH S4ULs for Human Health Risk Assessment. Land Quality Press, Nottingham. **Copyright Land Quality Management Limited reproduced with permission; Publication Number S4UL3086.**

*** - Category 4 Screening Level.

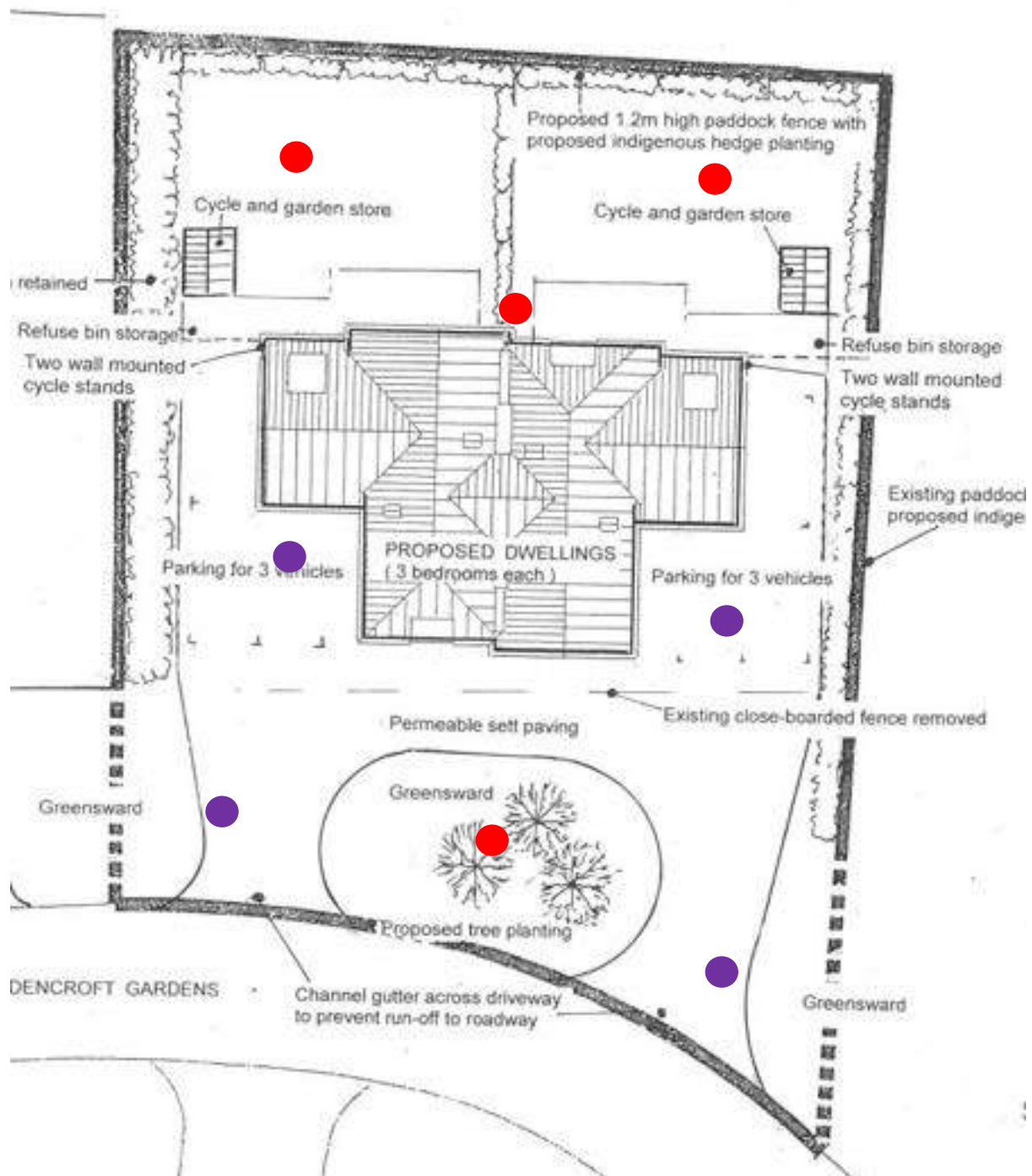
**** BS 3882 British Standards Specification for Top Soil.

***** B2G level to ensure no visible or olfactory evidence.

The soils must be physically suitable for the intended use and be free from deleterious materials such as glass, plastic, wood, paper etc. It is recommended that topsoil should generally comply with the requirements of the specification for multigrade topsoil as given in BS 3882: 2015 or to the satisfaction of the landscape architect.

Attachment 5

Proposed Site Investigation Sample Locations



- Full Contamination Suite
- Asbestos only