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PHASE 1: DESK TOP STUDY REPORT

STUDIO HATCHAM ARCHITECTS

PROPOSED REDEVELOPMENT

80 LAMBLE STREET

LONDON

NE5 4AB

Project No: 21-422

Prepared By:

Phil Brown

Date: 27/05/2021

Approved By:

John Ditchburn

Date: 27/05/2021

The information and/or advice contained in this Phase 1: Desk Top Study Report is based solely on, and is limited to, the boundaries of the site, the immediate area around the site, and the historical use(s) unless otherwise stated. This 'Report' has been prepared to collate information relating to the physical, environmental and industrial setting of the site, and to highlight, where possible, the likely problems that might be encountered when considering the future development of this site for the proposed end use. All comments, opinions, diagrams, cross sections and/or sketches contained within the report, and/or any configuration of the findings is conjectural and given for guidance only, and confirmation of the anticipated ground conditions should be considered before development proceeds. Agreement for the use or copying of this report by any Third Party must be obtained in writing from Arc Environmental Limited (ARC). If a change in the proposed land use is envisaged, then a reassessment of the site should be carried out.

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Appendix I	Location Plan, Aerial Photograph, Existing Site Layout Plan,
	Proposed Development Layout Plan
Appendix II	BGS Borehole Record Sheets
Appendix III	Landmark Information Group - Envirocheck Report

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1.0 Introduction May 2021

Arc Environmental Limited (ARC) were instructed by Studio Hatcham Architects, to undertake a Phase 1: Desk Top Study for a property at 80 Lamble Street, London, where proposals have been made to refurbish / renovate the existing building layout for residential end-use.

The primary objectives of this report are to assess the geological and potential contaminated land conditions. This Phase 1: DTS Report has been carried out generally in accordance with the EA (Environment Agency) guidance for Land Contamination Risk Management (LCRM: October 2020) which has replaced CLR11: Model Procedures for the Management of Land Contamination.

Based on all of the data reviewed, a Conceptual Site Model (CSM) has been developed to help define the scope and extent of any further investigation works deemed necessary, prior to commencing with the proposed redevelopment works.

A site reconnaissance (walkover) survey was not completed at the time of writing of this report. However, a review of current google street view imagery has been completed as part of this report.

2.0 Physical Setting

2.1 Site Details/Reconnaissance Survey: -

Table 2.1

<u>1 able 2.1</u>		
Site Name & Address:	80 Lamble Street, London, NW5 4AB.	
Grid Reference:	541320, 183150 (representative of the centre of the site).	
Description of Location:	The site is located on Lamble Street to the east of Lismore Circus and south of	
	Hampstead Heath.	
Site Shape & Boundaries:	The site is generally rectangular in shape (c.0.02Ha in size).	
	N = Oak Village (residential properties), E = Garden / Courtyard associated	
	with 33 Oak Village, W = Garden / Courtyard associated with 30 Oak Village,	
	S = Lamble Street leading to residential flats / maisonettes.	
Development Details:	Current proposals are for the refurbishment / renovation the existing building	
	for residential end use.	
Above Ground Structures:	Two storey office building (incorporating mezzanine floor) with pitched roof	
	on central portion of site with lower flat roofed 'bays' to east and west.	
Below Ground/Sub-surface	Live services (i.e. drains, gas, etc.) are likely to be present below the existing	
Structures and Services:	building.	
General Topography:	The site and surrounding topography appear to be relatively level. OS levels on	
	historical plans record the site to be c.43m AOD.	
Site Surfacing:	The site surfacing comprises current building footprint with limited external	
	hardstanding (concrete).	
Summary of Historical Site	The site was recorded as developed land from c.1872, initially associated with	
Information	residential properties to the north. It is understood that the site itself was used	
	as a former milk float shed from the late 1940's. It was converted into	
	architects' offices c.1980.	



3.0 Environmental Setting

The geological assessment for this site is based on geological maps and data published by the British Geological Survey (BGS), Coal Authority (CA) and data sources included in the Landmark Information Group Envirocheck Report (ref. 278564264_1_1). The following documents have been reviewed as part of this study:

- Online BGS Geology of Britain Viewer
- BGS Geological Sheet 256, North London, England and Wales, Solid & Drift Edition, 1:50,000, 1994
- BGS Borehole Records TQ28NE 235, TQ28NE 236, TQ28NE 254, TQ28NE 256 and TQ28NE 31.
- Online CA Interactive Map Viewer

3.1 Site Geology: -

3.1.1 Made Ground: -

According to published BGS data, the site is not recorded to be underlain by significant thicknesses of made ground deposits. However, based on the historical site use, some limited thickness of made ground is likely to be present beneath the site associated with the historical and current development. Any made ground is likely to comprise disturbed natural strata with anthropogenic debris (i.e. brick, etc.,).

3.1.2 Superficial Deposits: -

From the published BGS maps and online data, superficial deposits are not present below the site.

3.1.3 Solid Geology: -

Based on published BGS maps, the site is underlain by the London Clay Formation which mainly comprises bioturbated or poorly laminated, blue-grey or grey-brown, slightly calcareous, silty to very silty clay, clayey silt and sometimes silt, with some layers of sandy clay. The BGS borehole records to the north, south and west of the site indicate very stiff dark grey clay, recorded to a depth of at least c.10m bgl.

Published geological information indicates that there is no evidence of any significant faulting or other lines of weakness intersecting the development area or its immediate surroundings.

3.2 Potential Geological Hazards: -

Table 3.1

1 abic 5.1		
Land Slip:	Ground Instability in association with landslide events is indicated to be	
	generally very low.	
Shrinkable Soils:	The information provided in the Envirocheck Report indicates a Moderate	
	classification	
Collapsible Soils:	A classification of very low has been attributed to collapsible ground stability	
	hazards.	
Compressible Soils:	The stability of the superficial deposits in relation to a potential compressible	
	hazard, normally associated with poorly consolidated, is suggested not to	
	represent a hazard.	
Running Sand:	The hazard rating in connection with running sand conditions in open	
	excavations is suggested to be generally very low.	
Dissolution	The Envirocheck Report indicates that ground dissolution stability does not	
	to represent a hazard.	

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3.0 Environmental Setting (Cont'd)

3.3 Coal Mining Risk Assessment: -

The site is underlain by the London Clay Formation which is absent of productive coal measures. In accordance with the Coal Authority (CA) Interactive Map Viewer the site does not lie within a Coal Mining Reporting Area and is not considered to be at risk from shallow coal workings with no further assessment required.

3.4 Site Hydrogeology: -

Table 3.2

<u>STRATA</u>	EA Aquifer Classification	<u>Comments</u>
Groundwater	Combined: Unproductive.	Unproductive Bedrock Aquifer with no Superficial
Vulnerability:	_	Aquifer. Low pollution speed and dilution rate of
		<300mm/year.
Superficial Geology:	None recorded.	~
Solid Geology:	Unproductive Strata.	These are rock layers or drift deposits with low
(London Clay)	_	permeability that have negligible significance for
		water supply or river base flow.

- There are no Source Protection Zones (SPZ) recorded within 1km from the boundaries of the site.
- There are 6 no Groundwater Abstractions recorded c.995m to the southeast of the site, all relating to groundwater abstracted for Commercial & Public Services associated with Kentish Town Sports Centre operated by Greenwich Leisure Ltd.

3.5 Site Hydrology: -

Table 3.3

<u>1 able 3.3</u>		
SURFACE WATER	<u>Location</u>	<u>Comments</u>
<u>FEATURE</u>		
OS Water Network	None recorded within	~
	c.250m.	
GQA Classified River	None recorded within	~
	c.250m.	
Unclassified Watercourse(s),	None recorded within	~
Canals, Ponds & Lakes	c.250m	
FLOODING	<u>Location</u>	<u>Comments</u>
Flooding from Rivers (fluvial)	The whole of the site lies in	The whole of the site lies within a Zone 1
and the Sea (tidal)	a Zone 1 Flood Risk area.	Flood Risk area and is considered a very low
		risk. Further consultation should be made to
		the EA and Local Planning Authority for
		further advice or the requirements for a site-
		specific flood risk assessment for the proposed
		development.



3.0 Environmental Setting (Cont'd)

3.5 Site Hydrology (Cont'd): -

Table 3.3 (Cont'd)

FLOODING	<u>Location</u>	<u>Comments</u>
Surface Water Flooding	The EA data indicates that	Surface water flooding occurs when rainwater
(Environment Agency)	the site is within an area	does not drain away through the standard
	considered to be at a low	drainage systems or soak into the ground but
	risk of flooding form surface	lies on or flows over the ground instead.
	water.	However, flooding events, although considered
		a low risk may still occur.
Groundwater Flooding at	The BGS do not record the	Information obtained from Landmark which
Surface (BGS)	site to be at potential risk	publish maps indicating the potential for
	from groundwater flooding	groundwater flooding at surface, proposed by
	to occur at surface.	the British Geological Survey (BGS). This
		information is based on areas which may be
		potentially influenced by geological factors.
RAINFALL	Measurements (mm)	<u>Comments</u>
Annual	557.4	Based on 'station average' records from
Rainfall: Max (Oct)	61.1	Hampstead dated 1981-2010
Rainfall: Min (Jul)	34.6	

3.6 Radon Assessment: -

The site lies in a low probability radon area, as less than 1% of homes are above the action level. In accordance with the BGS, National Geoscience Information Service, their assessment suggests that no radon protection measures for new dwellings. This corresponds with the BRE Digest, BR211 (2015) Radon: Guidance on Protective Measures for New Buildings, where the site is situated within a clear grid square (1km), and therefore no radon protective measures are required for the site.

3.7 Site Ecology: -

From observations made using google street view imagery, there is no visual evidence to suggest the site is affected by the presence of invasive weed species (i.e. Japanese Knotweed, Giant Hogweed or Himalayan Balsam). However, a detailed invasive plant survey has not been carried out.

Table 3.4

<u>FEATURES</u>	<u>Location</u>	<u>Comments</u>
Local Nature Reserves	None recorded within c.250m.	~
Areas of Adopted/Unadopted	None recorded within c.250m.	~
Green Belt		
Special Protection Areas	None recorded within c.250m.	~
Nitrate Vulnerable Zone	None recorded within c.250m.	~

3.8 Estimated Soil Chemistry: -

The BGS have no data available concerning estimated soil chemistry for several key metals and metalloid elements for the subject site. However, average soil concentrations (urban soil chemistry) for an area within c.500m east / northeast and south is included in Table 3.5 below. Note; the references to the recorded concentrations of contaminants, sourced from the BGS, should not be relied upon. They are not site-specific and do not represent the condition of the ground at the proposed development site.

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3.0 Environmental Setting (Cont'd)

3.8 Estimated Soil Chemistry (Cont'd): -

Table 3.5

<u>Element</u>	Soil Type	Average Soil Concentrations (mg/kg)
Arsenic	Urban	15 - 25
Cadmium	Urban	<1.8
Chromium (total)	Urban	90 – 120
Lead	Urban	300 – 600
Nickel	Urban	30 – 45

4.0 Industrial Setting

4.1 Site History: -

Copies of old survey plans covering the site area & adjacent land are included in Appendix III and a summary of the site history based on these plans is provided in Table 4.1 below and continued on the following page.

Table 4.1

Date	<u>Site</u>	Adjacent Areas
c.1850 –	The site is recorded as	The surrounding areas are generally undeveloped, a road (Cordon
c.1851	undeveloped land.	House Lane) is recorded to the northeast. Some development
		(assumed residential) and associated infrastructure is shown 250m
		to the south of the site.
c.1872 –	The site is now shown to be partly	Residential housing is recorded to the immediate north, east and
c.1873	developed with possible	west of the site. Further residential housing is recorded to the
	outbuilding / structure evident on	surrounding areas notably to the west (Lismore Circus). Railway
	the eastern portion of the site	Lines are shown 150m to the south and also 170m to the
	(likely to be associated with	northeast (Gospel Oak Station).
	residential properties off Oak	
	Village immediately to the north).	
	Circus Road East forms the	
	southern boundary.	
c.1895 –	As c.1872 – 1873.	Continued residential development to the north and west. Land
c.1896	Circus Road East on southern	immediately to the south of Lamble Street is shown as Gospel Oak
	boundary is now labelled as Lamble	Brick Works. A Coal Depot is referenced northeast of the site
4045	Street.	beyond the railway lines.
c.1915 –	As c.1895 – c.1896.	The Brickworks to the south of the site has expanded with
c.1920		additional buildings noted including a chimney . Earthwork
		features (embankments, heaps and a pond) are shown on land
		adjacent to the Brickworks . Gas Works referenced beyond the
		railway lines (c.250m northeast of the site). Land to the north, and west is now shown as predominantly residential end use.
c.1936 –	Additional structure (with glazed	The Brickworks to the south is now labelled as 'disused' and the
c.1938	roof) is shown on western and	majority of the previous earthwork features are no longer evident.
C.1730	central area of the site.	The central southern area of the Brickworks is now shown as a
	central area of the offer	Timber Yard.
c.1951 –	As c.1936 – c.1938.	Large square shaped buildings shown on the land between the
c.1954		Timber Yard and the site with additional earthwork features
		slopes / embankments shown immediately west of this structure.
		Buildings to the east of the disused Brickworks named as Slag
		Wool Works. Gas Works to northeast now labelled as Oil
		Processing Plant.

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4.0 Industrial Setting (Cont'd)

4.1 Site History (Cont'd): -

Table 4.1 (Cont'd)

<u>Date</u>	<u>Site</u>	Adjacent Areas
c.1966 –	As c.1951 – c.1954.	Land formerly referenced as Brickworks and Timber Yard now
c.1968		shown to be occupied by residential properties (flats / maisonettes)
		with associated infrastructure and areas of soft landscaping
		including a playground. Oil Processing Plant now shown as
		Depot.
c.1970 –	Structure with the glazed roof is no	Generally as c.1966 – c.1968 with immediate surrounding area
c.1980	longer evident.	shown to be predominantly residential development / end use.
c.1985 –	As $c.1970 - c.1980$.	As c.1970 – c.1980.
c.2006		
c.2021	The site comprises a derelict single	Generally, as c.1985 – c.2006.
	storey office building.	

Significant features / potential contamination sources highlighted in bold.

4.2 Landfill & Waste: -

The following information relating to Landfill and Waste has been obtained from the Envirocheck Report (attached in Appendix III).

- There are no BGS or Historical Recorded Landfill Sites within c.250m of the site.
- There are no Local Authority Recorded Landfill Sites recorded within c.250m of the site.
- There is one Registered Waste Transfer Sites recorded within c.250m of the site (196m northeast). Licence Holder is named as Wharf and Jetty Services Ltd with authorized wastes noted as 'commercial waste, construction and demolition waste'. License Status is recorded as lapsed / cancelled.
- There is one area of infilled land (water) recorded c.219m to the northeast of the site with the date of mapping recorded as c.1876. Historical plans from that date show the area to be beyond the railway lines to the northeast with no obvious feature (pond / stream etc) evident. Consequently, this is not considered to present a risk to the subject site.
- There is one area of infilled land (non-water) recorded c.15m to the south of the site with the date of mapping recorded as c.1996. This area of infilled land is associated with the area of the former Brickworks and Timber Yard referenced on historical plans and discussed in Section 4.1. Infilling of this land appears to have been undertaken during the 1940's and 1950's and was subsequently shown to be developed with residential flats / maisonettes by c.1966.

From the review undertaken the infill appears to have been completed by the early 1960's, at least c.60 years ago. Soil degradation tends to follow what is known as the "landfill cycle", (Waste Management Papers 26 & 27) which suggest the significant gas production period of a landfill rarely exceeds 30 years. Figure 4.1. below shows an estimation of the declining rate of gas generation with time, with an 80% reduction in gas generation rate after 30 years and around 10% gas generation rate after around 40 years.

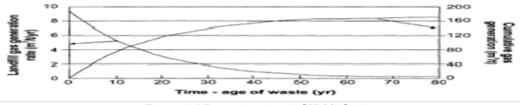


Figure 4.1 Reproduction of CIRIA C665.



4.0 Industrial Setting (Cont'd)

4.2 Landfill & Waste (Cont'd): -

Consequently, the risk from ground gas generation / migration affecting the site is considered to be very low to negligible due to the following considerations:

- The proposed works comprise the renovation / refurbishment of the existing structure with no new extensions / structures.
- The infilling of the land to the south was undertaken more than 60 years ago and therefore any possible gas generation from any biodegradable fill materials should have diminished / ceased.
- The infilled land itself has been developed with residential flats / maisonettes since c.1966.
- The geology underlying the site and wider area is referenced as the London Clay Formation which comprises mainly silty to very silty firm to stiff clay deposits. These impermeable deposits would significantly limit any subterranean pathway with regard to possible gas generation.

4.3 Statutory Requirements/Authorisations: -

Table 4.2

<u>TYPE</u>	<u>Location</u>	<u>Comments</u>
Enforcement and Prohibition	None recorded within c.250m	~
Notices		
Integrated Pollution	None recorded within c.250m	~
Prevention & Control		
Local Authority Pollution	Two recorded within c.250m	~
Prevention & Controls		
Prosecutions Relating to	None recorded within c.250m	~
Authorised Processes		
Registered Radioactive	None recorded within c.250m	~
Substances		
COMAH/NIHHS Sites	None recorded within c.250m	~
Explosive Sites	None recorded within c.250m	~
Planning Hazardous	None recorded within c.250m	~
Substances Consents /		
Enforcements		
Fuel Station Entries	None recorded within c.250m	~
Contemporary Trade Entries	Seven recorded within	All seven entries record an 'inactive' status and
and	c.250m.	therefore not considered to represent a risk to the
Points of Interest (POI)		site.

4.4 Pollution Incidents and Discharge Consents: -

Table 4.3

TYPE	<u>Location</u>	<u>Comments</u>
Discharge Consents	None recorded within c.250m	~
Pollution Incidents to	None recorded within c.250m	~
Controlled Waters		
Substantiated Pollution	None recorded within c.250m	~
Incident Register		
Water Industry Act Referrals	None recorded within c.250m	~

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5.0 Conceptual Site Model (CSM)

The Conceptual Site Model (CSM) is one of the primary planning tools that can be used to support the decision-making process of managing contaminated land and groundwater on any given site. The CSM allows for a better understanding of what needs to be done to achieve risk management, and design appropriate remediation techniques if required for the risk management goals chosen. This can be done by undertaking a *source-pathway-receptor* analysis of the site. The likely *sources*, *pathways* and *receptors* for this site are summarised in Table 5.1 below.

The CSM sets out the critical pollutant linkages of concern for this particular site, with regard to contamination. When considering the site will be comprised entirely of hardcover with no significant construction works envisaged, there will be no link between the Source-Pathway-Receptor model.

Table 5.1

100010	14016 311							
	Sources (S)		Pathways (P)		Receptors (R)			
S1	Possible Made Ground	P1	Ingestion & Dermal Contact	R1	Human Health -			
	associated with current &	P2	Air – Inhalation of vapours		End user to be taken as Residential			
	historical development		(indoor & outdoors) and		without Home Grown Produce			
	on site.		contact with dust generated		(and construction workforce)			
			through the construction works					
		P3	Plant Uptake and attached soil	R2	Controlled Waters - Unproductive			
			_		Strata (low permeability that have			
					negligible significance for water			
					supply or river base flow).			
		P 4	Migration through existing	R3	Adjacent sites			
			service corridors					
		P5	Direct contact with building	R4*	Building materials & protection of			
			materials		water supply pipes			
		P6	Surface runoff & Infiltration	R5*	Flora and fauna			

^{* =} Not included in the Human Health & Controlled Waters Risk Assessment.

5.1 Geotechnical Considerations: -

The following potential geotechnical issues and hazards have been identified for this site. These issues should be considered before any redevelopment of the site is to take place;

- The actual depth, variability and thickness of any made ground present on site.
- Geotechnical parameters of solid geological deposits beneath the site.
- The nature and depth of existing foundations.
- Stability of any new proposed excavations (for drains / services etc).
- Control of surface water drainage.
- Chemical attack on buried concrete.
- The possible presence of buried services which may pass below the site.

To determine the geotechnical considerations above with more certainty, if any new foundations or increases in structural loadings are envisaged, it is recommended that intrusive geotechnical investigation works are undertaken with associated geotechnical testing to determine detailed foundation proposals.

The information reviewed indicates that the site can be considered as being located within a **LOW** geotechnical risk setting.

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5.0 Conceptual Site Model (CSM) (Cont'd)

5.2 Sources of Contamination and Probable Contaminants: -

The OS maps, the Landmark Information Group Envirocheck Report and other environmental information reviewed record the site developed land from c.1872, likely to be associated with residential properties to the north. It is understood that the site itself was used as a former milk float shed from the late 1940's. It was converted into architects' offices from c.1980 and this reflects the current site layout.

The surrounding areas have been mainly developed as residential end use with some light commercial properties recorded.

Soils - Human Health

When considering the proposed development, comprising the renovation / refurbishment of the existing building, with no new construction (structures / extensions / foundations) works envisaged, along with 100% hardstanding upon completion, the potential risks posed to Human Health (future end users) is considered low to negligible, based on the information currently available.

Appropriate PPE should be worn by development workers and a watching brief should be undertaken during works on site. Should any significant made ground be encountered during development works or should any areas of odorous, abnormally coloured or suspected contaminated ground be encountered, an amended risk assessment should be undertaken to determine whether further investigation, mitigation or remedial works are necessary.

Consideration may also need to be given to the protection of any new service pipes for the proposed development and a suite of contamination testing (UKWIR suite) may be required, in order to meet the requirements of the local utilities service provider for their 'pipe selection risk assessment' (PSRA), once the location and depth of future services have been determined.

The information reviewed indicates that the site can be considered as being located within a **LOW to NEGLIGIBLE** ground contamination risk setting for Human Health.

Groundwater/Leachate - Controlled Waters: -

The following factors have been taken into consideration when assessing the risks posed towards Controlled Waters;

- No superficial deposits are recorded below the site and the solid geological deposits (London Clay Formation) are classified as Unproductive Strata.
- There are no Source Protection Zones (SPZ) recorded within 1km from the boundaries of the site.
- There are 6 no Groundwater Abstractions recorded c.995m to the southeast of the site, all relating to groundwater abstracted for Commercial & Public Services associated with Kentish Town Sports Centre operated by Greenwich Leisure Ltd.
- There are no surface water features recorded within c.250m of the site.

The information reviewed indicates that the site can be considered to have a **NEGLIGIBLE** ground contamination risk setting for Controlled Waters.



6.0 Conclusions and Recommendations

When considering the proposed development will comprise a change of end use from commercial to residential, the proposals are for the internal renovation / refurbishment of the existing building only, with no significant construction works envisaged. In addition, the site will continue to comprise 100% hard cover post completion of the works. As a result, from the information reviewed during the completion of this report, the site is not felt to be at risk from any significant ground contamination or ground issues and therefore no intrusive investigation works are considered necessary.

If any changes to the current proposed works are made, resulting in construction works being required (i.e. new buildings / extensions / foundations), then a reassessment of this report will be required.

END OF REPORT

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