



General

🔼 Specified Site

- C Specified Buffer(s)
- X Bearing Reference Point

Agency and Hydrological (Flood)

Extreme Flooding from Rivers or Sea without Defences (Zone 2)

Flooding from Rivers or Sea without Defences (Zone 3)

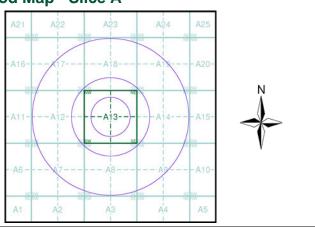
Area Benefiting from Flood Defence



Flood Water Storage Areas

--- Flood Defence

Flood Map - Slice A



Order Details

 Order Number:
 286742639_1_1

 Customer Ref:
 P02119042

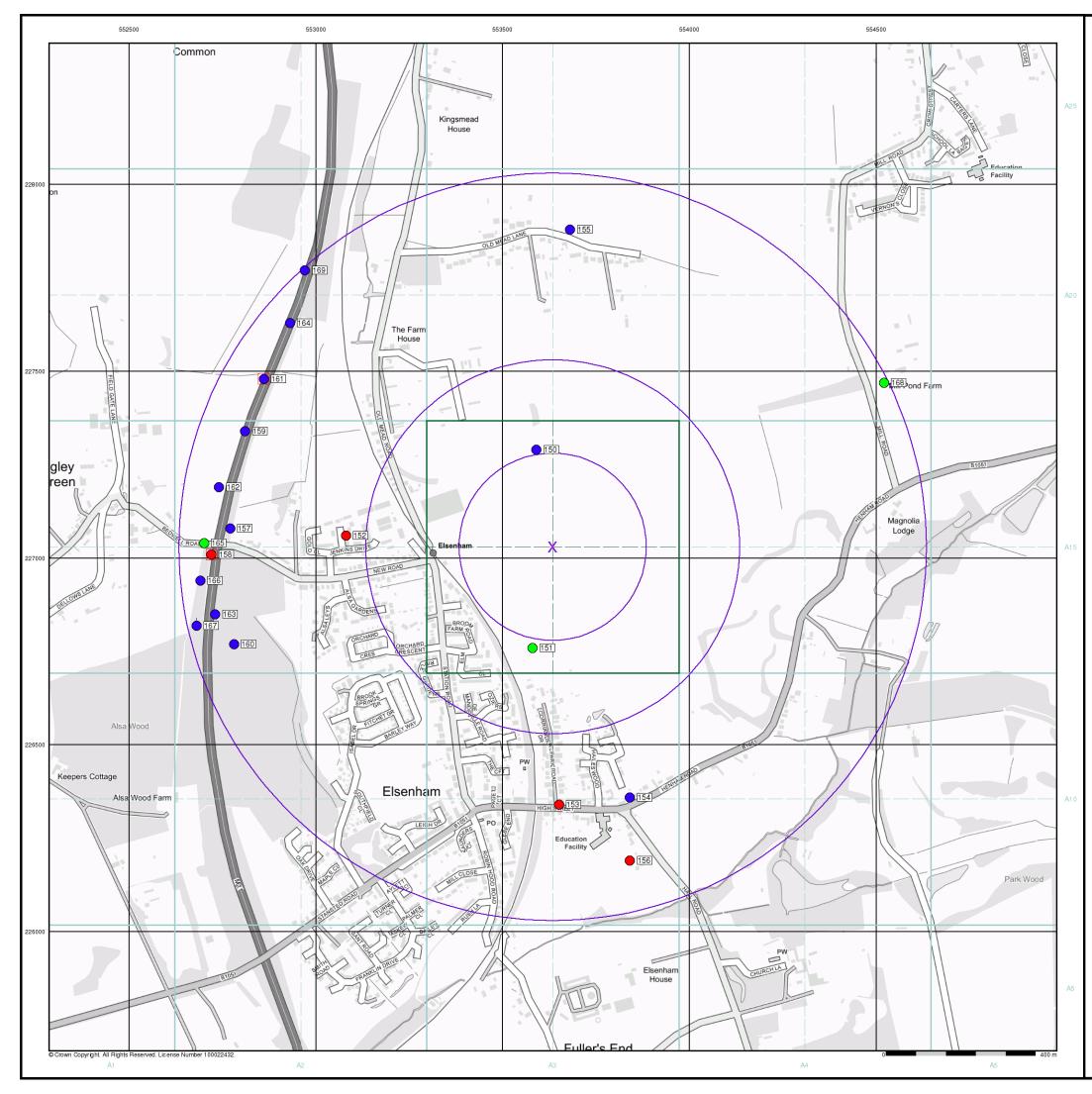
 National Grid Reference:
 553630, 227030
 Slice: Site Area (Ha): Search Buffer (m):

А 0.01 1000





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General 🔼 Specified Site C Specified Buffer(s) X Bearing Reference Point 8 Map ID

Several of Type at Location

Agency and Hydrological (Boreholes)

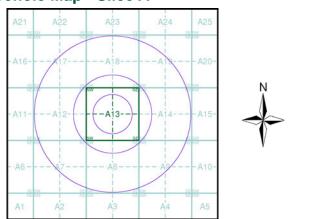
- 😑 BGS Borehole Depth 0 10m
- BGS Borehole Depth 10 30m
- 🔴 BGS Borehole Depth 30m +
- Confidential

🔿 Other

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

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

Borehole Map - Slice A



Order Details

 Order Number:
 286742639_1_1

 Customer Ref:
 P02119042

 National Grid Reference:
 553630, 227030
 Slice: Site Area (Ha): Search Buffer (m):

А 0.01 1000

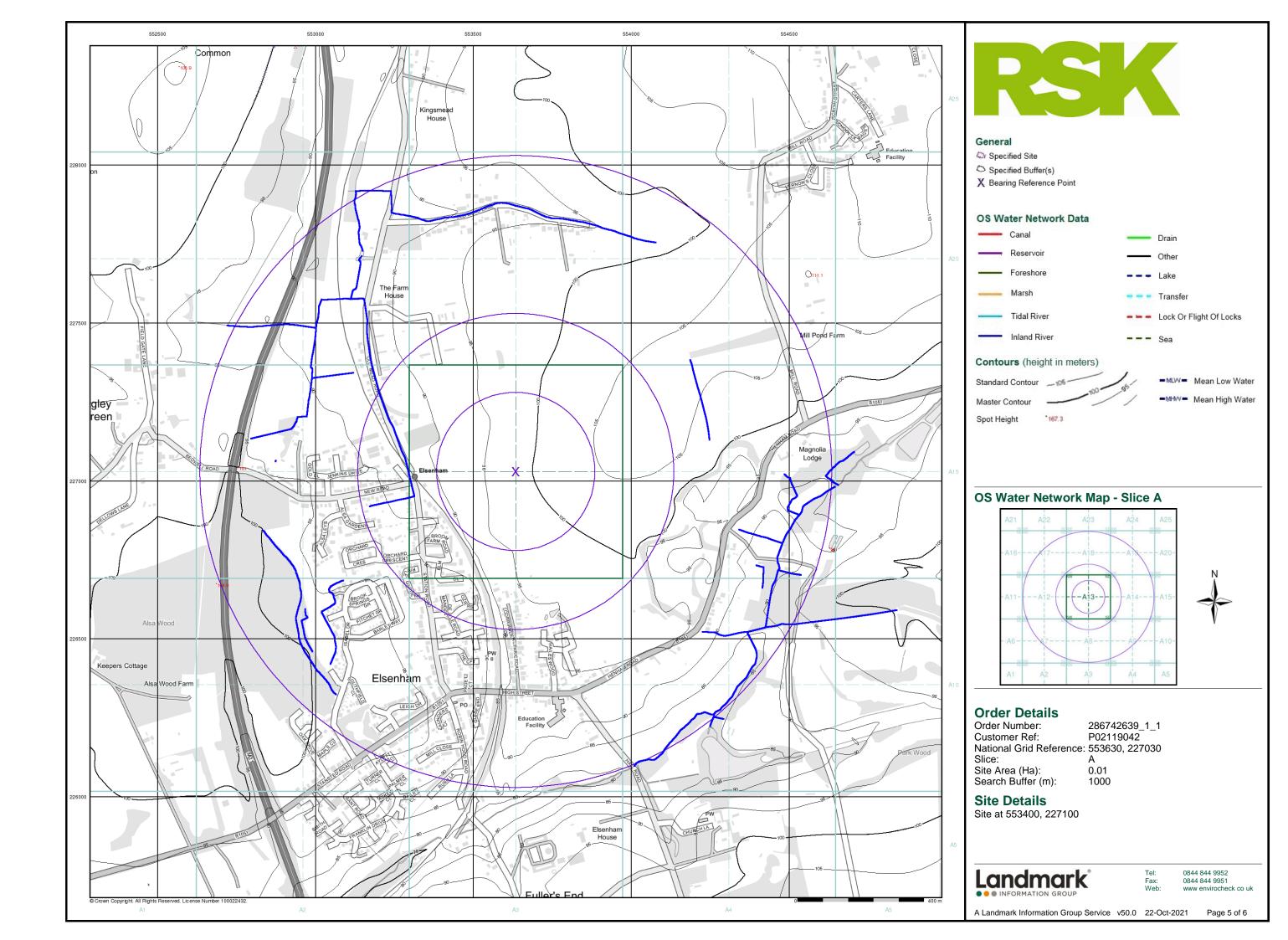
Site Details Site at 553400, 227100

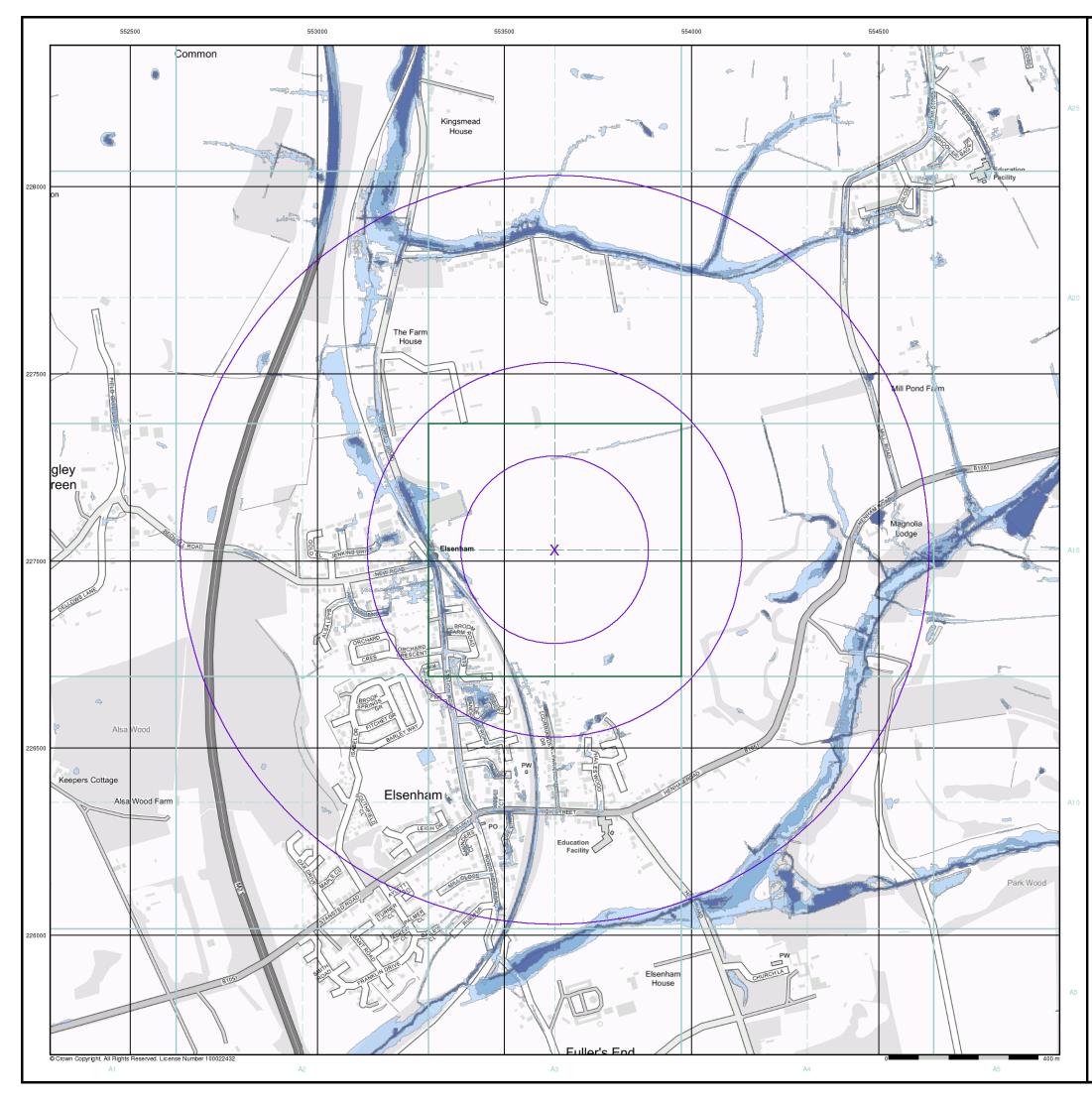




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General

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

Risk of Flooding from Surface Water

High - 30 Year Return

- Medium 100 Year Return
- Low 1000 Year Return

Suitability See the suitability map below

National to county

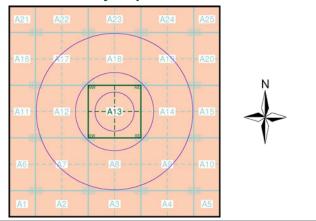
County to town

Town to street

Street to parcels of land

Property

EA/NRW Suitability Map - Slice A



Order Details

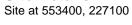
 Order Number:
 286742639_1_1

 Customer Ref:
 P02119042

 National Grid Reference:
 553630, 227030
 Slice: Site Area (Ha): Search Buffer (m):

А 0.01 1000

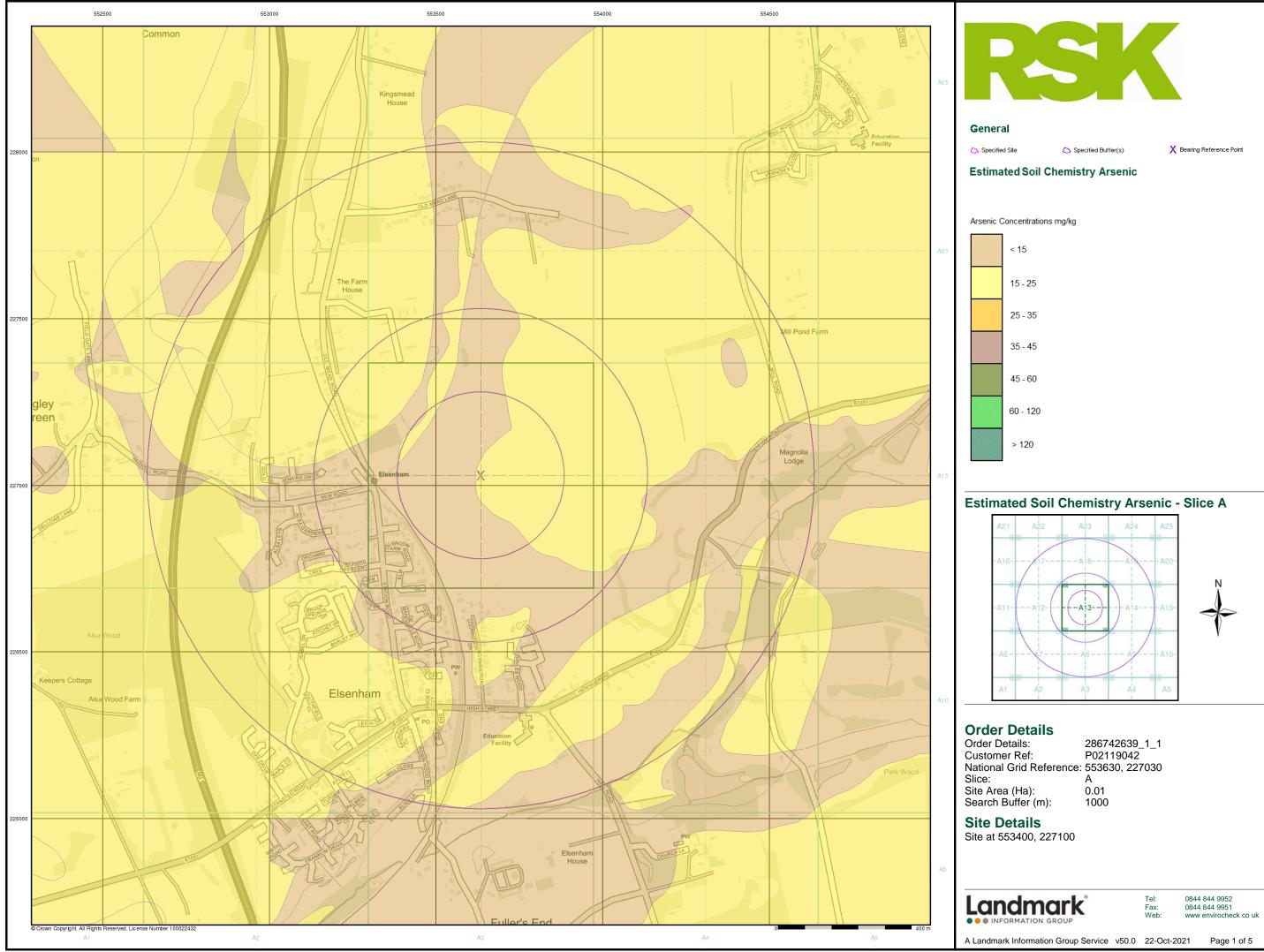
Site Details

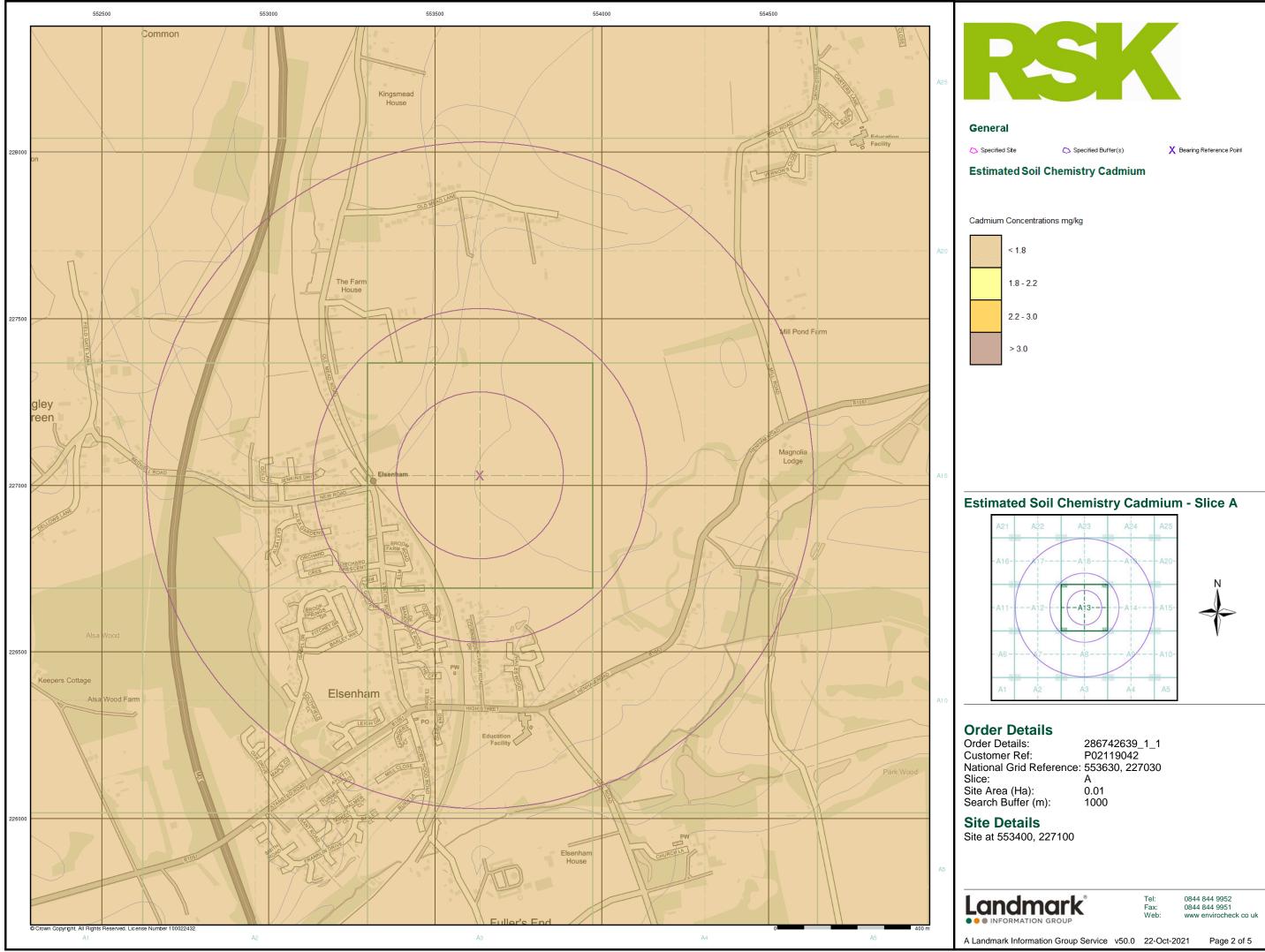


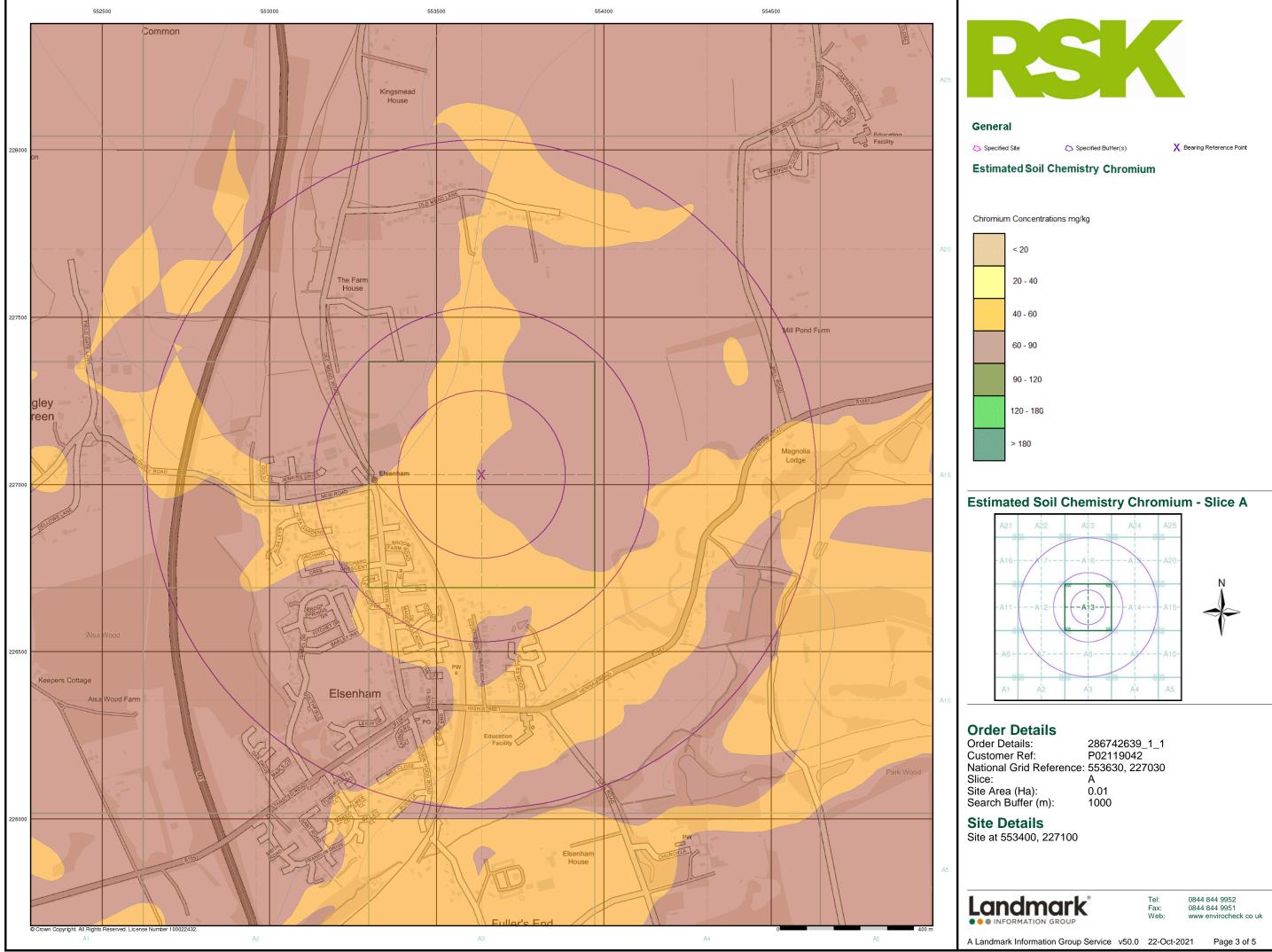


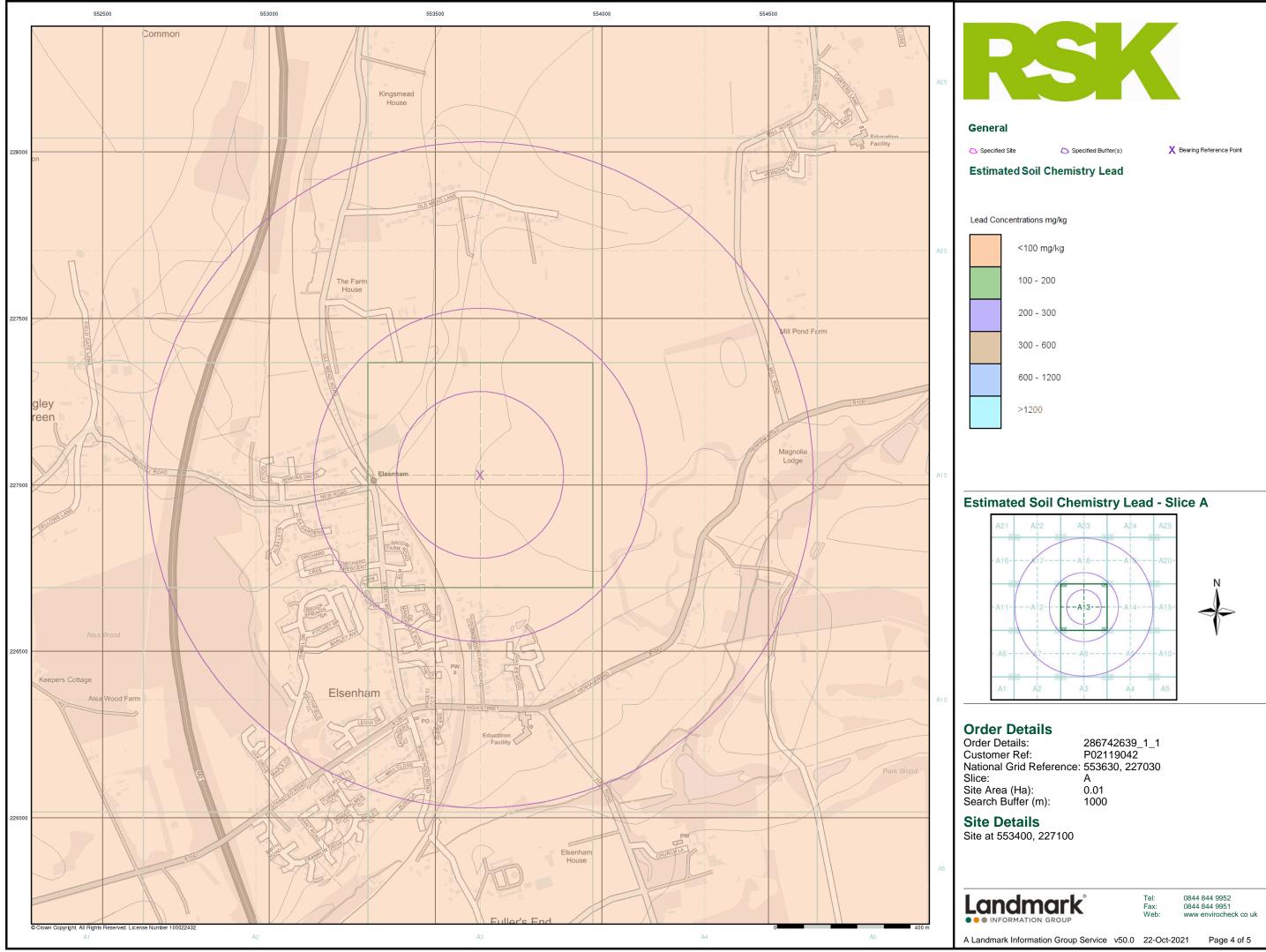
Tel: Fax: Web:

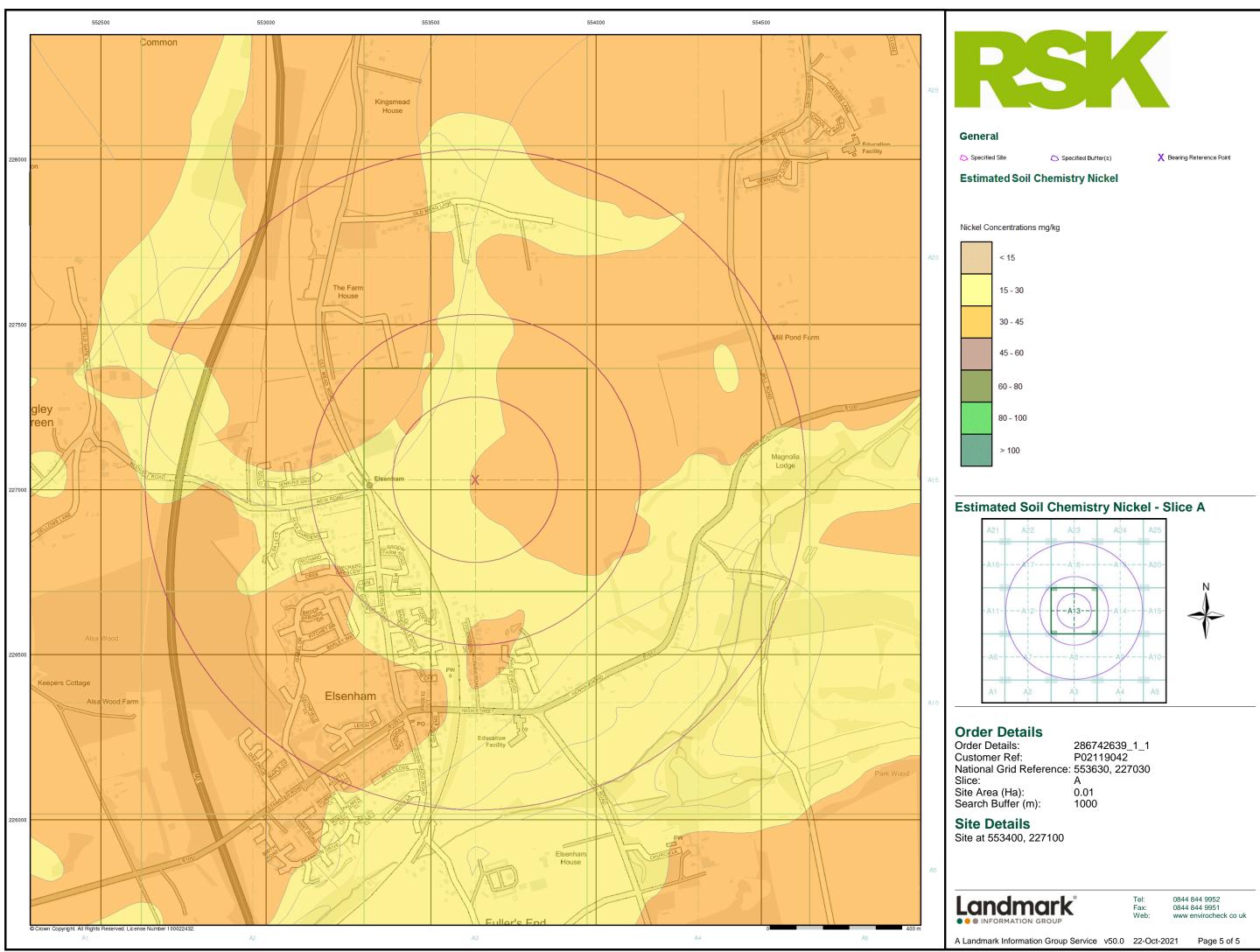
0844 844 9952 0844 844 9951 www envirocheck co uk

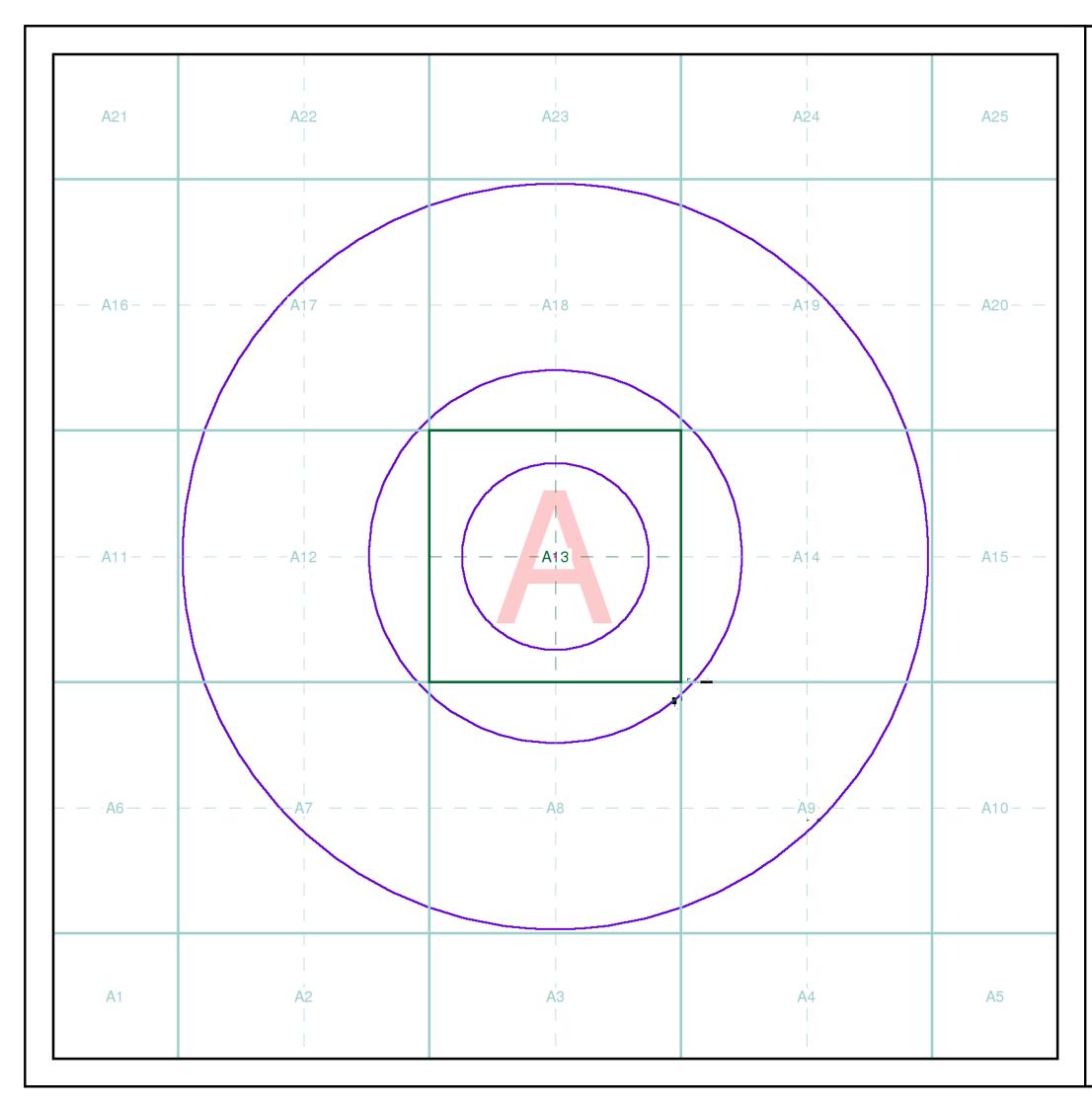














Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice

Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment

A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant

A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:





British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL





Envirocheck reports are compiled from 136 different sources of data.

Client Details

Miss S Gower, RSK Environment Ltd, 18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT

Order Details

 Order Number:
 286742639_1_1

 Customer Ref:
 P02119042

 National Grid Reference:
 553630, 227030

 Site Area (Ha):
 0.01

 Search Buffer (m):
 1000

Site Details

Site at 553400, 227100

Full Terms and Conditions can be found on the following link: http://www.landmarkinfo.co.uk/Terms/Show/515



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A Landmark Information Group Service v50.0 22-Oct-2021

Page 1 of 1



APPENDIX D CORRESPONDENCE WITH THE LOCAL AUTHORITY

Ellie Sanders

From:	Ellie Sanders
Sent:	09 December 2021 10:54
То:	Ellie Sanders
Subject:	FW: Elsenham Site Enquiry
Attachments:	FW: Receipt WPSR00334927

From: Heather Ziervogel
Sent: 16 September 2021 11:08
To: Timothy Costello
Cc: Nayna Daudia
Subject: Elsenham Site Enquiry

Hi Timothy, apologies for the delay, please find the information requested below;

1. Are you aware of contamination land issues with the site, and has it been designated under Part IIA of the EPA.

No Part IIA designation or contamination complaints. Old railway line to the NWest of the site, see red line in plan below. Cemetery to the SWest of site- at the end of The Croft.

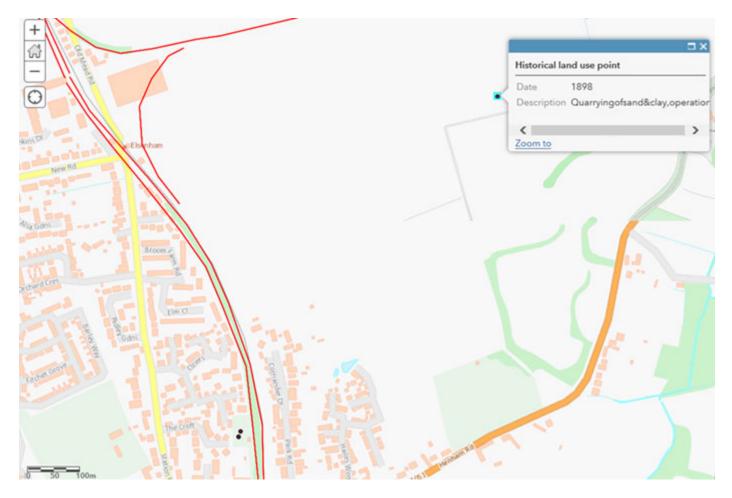
2. Are you aware of any landfills within a 250m radius of the site.

1898 Quarry- Sand & Clay to the NEast, see point on plan below.

3. Are you aware of any private abstraction licensed within 1km of the site.

None

Plan:



Further information of interest:

There is a NOx Tube measuring point nearby on Henham Rd Tube Ref: UT056. The land is over a Minor Aquifer.

The land is likely to be affected by noise from Stansted Airport as well as railway line. There is a Gravel Pit East of the site, Elsenham Sand & Gravel LTD (dark green on plan)

Please let me know if there is anything else you need.

Kind regards, Heather Ziervogel Environmental Health Officer Uttlesford District Council Council Offices London Road Saffron Walden Essex CB11 4ER Tel: 01799 510 584 Fax: 01799 510 379 Email:

From: Timothy Costello <<u>TCostello@rsk.co.uk</u>>
Sent: 16 September 2021 08:25

To: Nayna Daudia

Subject: RE: [External] Arlesey Site Enquiry

Hi Nayna,

Just following up on the below - I believe Linda paid 2 weeks ago?

Can you send over the report when possible?

Many thanks

Tim

Tim Costello Geo-Environmental Engineer RSK 18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT, UK

Mobile: +44 email:

From: Timothy Costello Sent: 07 September 2021 09:36 To: Environmental Health Subject: [External] Arlesey Site Enquiry

Hi there,

I'm contacting you on behalf of our client CALA homes who are building on the White Horse site in Arlesey (see site map attached). For the purpose of our investigation, can you advise on any of the following:

- 1. Are you aware of contamination land issues with the site, and has it been designated under Part IIA of the EPA.
- 2. Are you aware of any landfills within a 250m radius of the site.
- 3. Are you aware of any private abstraction licensed within 1km of the site.

Any assistance would be greatly appreciated

Kind Regards

Tim

Tim Costello Geo-Environmental Engineer

×



Global provider of environmental consultancy, health and safety, and ground engineering services

×	_	×

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Before printing think about your responsibility and commitment to the ENVIRONMENT!

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APPENDIX E PHOTOGRAPHIC RECORD

ELSENHAM PHASE 2 SITE RECONNAISSANCE PHOTOGRAPHS

Photo No. 1	Date: 24/09/21	
Descriptio	n:	
Unsecured a	ccess from Old	
	light vehicles in	The second s
north westerr	n corner (indicated	A PARTY AND A PART
by green arro	ow in photo 1)	



Photo No.	Date:	
3	24/09/21	
Descriptio	n:	
	oundary facing	
	ng walking path	A REAL PLACE AND A REAL PROPERTY AND
and overne	ad powerlines	

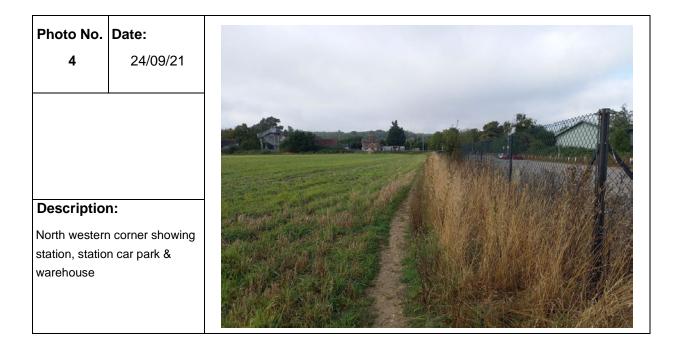


Photo No. Date:

5

Description:

runs adjacent to site edge

24/09/21

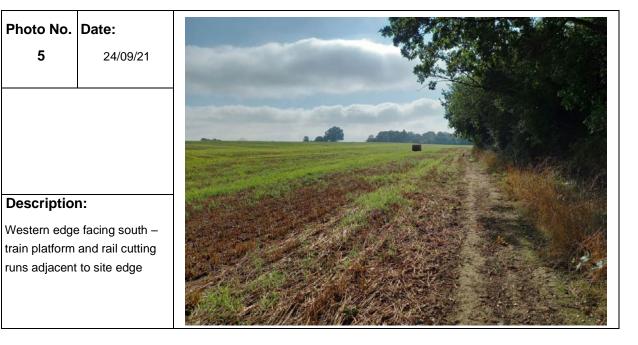


Photo No. 6	Date: 24/09/21	
0	24/09/21	
Description Manned rai and Elsenh opposite sit shown in Pl	lways crossing am station e entrance	



APPENDIX F TECHNICAL BACKGROUND

H1 Desk Study

Aquifer designation and Source protection zones

Principal aquifer: layers of rock or drift deposit that have high intergranular and/or fracture permeability (usually providing a high level of water storage). They may support water supply and/or river base flow on a strategic scale.

Secondary A aquifer: 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.

Secondary B aquifer: predominantly lower permeability layers that may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering.

Secondary undifferentiated aquifer: it has not been possible to attribute either a category A or B to a rock type. In most cases this means that it was previously designated as both a minor and non-aquifer in different locations owing to the variable characteristics.

Unproductive' strata: low permeability with negligible significance for water supply or river base flow.

The EA generally adopts a three-fold classification of source protection zones (SPZ) surround abstractions for public water supply. The Site is situated in an area defined as follows:

- Zone 1 or the 'inner protection zone' is located immediately adjacent to the groundwater source and is based on a 50-day travel time from any point below the water table to the source. It is designed to protect against the effects of human activity and biological/chemical contaminants that may have an immediate effect on the source
- Zone 2 or the 'outer protection zone' is defined by a 400-day travel time from a point below the water table to the source. The travel time is designed to provide delay and attenuation of slowly degrading pollutants
- Zone 3 or the 'total catchment' is the area around the source within which all groundwater recharge is presumed to be discharged at the source.

Preliminary risk assessment methodology

LCRM outlines the framework to be followed for risk assessment in the UK. The framework is designed to be consistent with UK legislation and policies including planning. An outline conceptual model should be formed at the preliminary risk assessment stage that collates all the existing information pertaining to a site in text, tabular or diagrammatic form. The outline conceptual model identifies potentially complete (termed possible) contaminant linkages (contaminant–pathway–receptor) and is used as the basis for the design of the site investigation. The outline conceptual model is updated as further information becomes available, for example as a result of the site investigation.

Production of a conceptual model requires an assessment of risk to be made. Risk is a combination of the likelihood of an event occurring and the magnitude of its consequences. Therefore, both the



likelihood and the consequences of an event must be taken into account when assessing risk. RSK has adopted guidance provided in CIRIA C552 for use in the production of conceptual models.

The likelihood of an event can be classified on a four-point system using the following terms and definitions based on CIRIA C552:

- highly likely: the event appears very likely in the short term and almost inevitable over the long term or there is evidence at the receptor of harm or pollution
- likely: it is probable that an event will occur or circumstances are such that the event is not inevitable, but possible in the short term and likely over the long term
- low likelihood: circumstances are possible under which an event could occur, but it is not certain even in the long term that an event would occur and it is less likely in the short term
- unlikely: circumstances are such that it is improbable the event would occur even in the long term.

The severity can be classified using a similar system also based on CIRIA C552. The terms and definitions relating to severity are:

- severe: short term (acute) risk to human health likely to result in 'significant harm' as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution of sensitive water resources. Catastrophic damage to buildings or property. Short-term risk to an ecosystem or organism forming part of that ecosystem (note definition of ecosystem in 'Draft Circular on Contaminated Land', DETR 2000)
- medium: chronic damage to human health ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000), pollution of sensitive water resources, significant change in an ecosystem or organism forming part of that ecosystem
- mild: pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000). Damage to sensitive buildings, structures or the environment
- minor: harm, not necessarily significant, but that could result in financial loss or expenditure to resolve. Non-permanent human health effects easily prevented by use of personal protective clothing. Easily repairable damage to buildings, structures and services.

Once the probability of an event occurring and its consequences have been classified, a risk category can be assigned according to the table below.

			Consec	luences	
		Severe	Medium	Mild	Minor
	Highly likely	Very high	High	Moderate	Moderate/low
Probability	Likely	High	Moderate	Moderate/low	Low
Prob	Low likelihood	Moderate	Moderate/low	Low	Very low
	Unlikely	Moderate/low	Low	Very low	Very low



Definitions of these risk categories are as follows together with an assessment of the further work that may be required:

- very high: there is a high probability that severe harm could occur or there is evidence that severe harm is currently happening. This risk, if realised, could result in substantial liability; urgent investigation and remediation are likely to be required
- high: harm is likely to occur. Realisation of the risk is likely to present a substantial liability. Urgent investigation is required. Remedial works may be necessary in the short term and are likely over the long term
- moderate: it is possible that harm could arise, but it is unlikely that the harm would be severe and it is more likely that the harm would be relatively mild. Investigation is normally required to clarify the risk and determine the liability. Some remedial works may be required in the longer term
- low: it is possible that harm could occur, but it is likely that if realised this harm would at worst normally be mild
- very low: there is a low possibility that harm could occur and if realised the harm is unlikely to be severe.

H2 Site Investigation Methodology

Ground gas monitoring

An infrared gas meter was used to measure gas flow, concentrations of carbon dioxide (CO_2) , methane (CH_4) and oxygen (O_2) in percentage by volume, while hydrogen sulphide (H_2S) and carbon monoxide (CO) were recorded in parts per million. Initial and steady state concentrations were recorded. In addition, during the first monitoring round, all wells were screened with a PID to establish if there are any interferences and cross-sensitivity of other hydrocarbons with the infrared gas meter.

Low flow groundwater sampling

Groundwater samples were retrieved using a United States Environment Protection Agency (USEPA) approved low-flow purging and sampling methodology.

The low-flow method relies on moving groundwater through the well screen at approximately the same rate as it flows through the geological formation. This results in a significant reduction in the volume of water extracted before sampling and significantly reduces the amount of disturbance of the water in the monitoring well during purging and sampling. Drawdown levels in the monitoring well and water quality indicator parameters (pH, temperature, electrical conductivity, redox potential and dissolved oxygen) are monitored during low-flow purging and sampling, with stabilisation indicating that purging is complete and sampling can begin. As the flow rate used for purging, in most cases, is the same or only slightly higher than the flow rate used for sampling, and because purging and sampling are conducted as one continuous operation in the field, the process is referred to as low-flow purging and sampling.

Reuse of suitable materials

The Definition of Waste: Development Industry Code of Practice (CL:AIRE, 2011) (CoP) was developed in consultation with the Environment Agency and development industry to enable the



re-use of materials under certain scenarios and subject to demonstrating that specific criteria are met. The current reuse scenarios covered by the CoP comprise

- reuse on the site of origin (with or without treatment)
- direct transfer of clean and natural soils between sites
- use in the development of land other than the site of origin following treatment at an authorised Hub site (including a fixed soil treatment facility).

The importation of made ground soils (irrespective of contamination status) or crushed demolition materials is not permitted currently under the CoP and requires either a standard rules environmental permit or a U1 waste exemption (see below).

In the context of excavated materials used on-sites undergoing development, four factors are considered to be of particular relevance in determining if the material is a waste or when it ceases to be waste:

- the aim of the Waste Framework Directive is not undermined, i.e. if the use of the material will create an unacceptable risk of pollution of the environment or harm to human health it is likely to be waste
- the material is certain to be used
- the material is suitable for use both chemically and geotechnically
- only the required quantity of material will be used.

The CoP requires the preparation of a materials management plan (MMP) that confirms the above factors will be met. This plan needs to be reviewed by a 'Qualified Person' (QP) who will then issue a declaration form to the EA. As the project progresses, data must be collated and on completion a verification report produced that shows the MMP was followed and describes any changes.

The MMP establishes whether specific materials are classified as waste and how excavated materials will be treated and/or reused in line with the CoP. The MMP is likely to form part of the site waste management plan.



APPENDIX G EXPLORATORY HOLE RECORDS



Contract De			load ,				<u> </u>	Bloor He				SA1
Contract Re				Start:			Ground Level (m AOD):		rid Co-ordinate:	Sheet		
		748		End:		0.21	90.96	E:553	406.0 N:2270	06.7		of
	-	and In-sit			Water	Backfill		Description	of Strata		Depth (Thick	
Depth	No	Туре	Re	sults	Ž	B		-			ness)	Leg
-	1	В					Crop stubble over dark to coarse. Gravel is a Abundant rootlets. (TOF Soft to firm brown san coarse. Gravel is angul SOIL) Stiff brown mottled gre coarse. Gravel is angul sandstone. becoming greyish b	ngular to wel SOIL) dy slightly gra r to subrour slightly grav ar to well rour	Il rounded fine to avelly silty CLAY. S ided fine to medium relly sandy CLAY. S inded fine to medium	coarse of flint. Sand is fine to n of flint. (SUB Sand is fine to	(0.30) 0.30 0.40	×0.
Plan (Not to	Scale		5				undwater encountered.	General	Remarks		-	
Plan (Not to	Scale	e) 2.4	5		2. P 3. S	Pit wall: Soakav	undwater encountered. s stable. vay test performed in pit.	General	Remarks		-	
Plan (Not to			51	• 	2. P 3. S	Pit wall: Soakav	undwater encountered. s stable.	General	Remarks			
	Scale		5 1		2. P 3. S	Pit wall: Soakav	undwater encountered. s stable. vay test performed in pit.		Remarks Scale:	1:25		



ŀ	lenł	nam R	oad, Els				Bloor He				SA1
Contract Re	əf:		Star	t 06.1	0.21	Ground Level (m AOD):	National Gr	id Co-ordinate:	Shee	t	
1	1921	748	End	: 06.1	0.21	92.90	E:5534	451.7 N:2270	69.0	1	of
Sam	nples a	and In-situ	u Tests	ter	dill					Depth	Mat
Depth	No	Туре	Results	Water	Backfill		Description	of Strata		(Thick ness)	Gra
1.50-2.00	1	В				Crop stubble over dar medium SAND. Gravel (TOPSOIL) Orangish brown locally of subangular to subround nodular flint cobbles.	is angular to	o subrounded. Abu	undant rootlets. AND. Gravel is	-(0.40)	0
Plan (Not to	Scale	e)					General	Remarks			
0.60	•	2.45	j	2. F 3. S	Partial Soakav	twater seepage into base o pit wall collapse below 1.75 way test performed in pit. t backfilled with arisings.	f pit. m on northerr	n elevation.			
						All dimensions in metres	5	Scale:	1:25		



		nam R	oad, Elser				Bloor Ho				SA1
Contract Re			Start:			Ground Level (m AOD):		id Co-ordinate:	Sheet		
	1921	748	End:	06.1	0.21	98.69	E:553	653.0 N:2269	24.2		of
San	nples a	nd In-siti	u Tests	Water	Backfill		Description	of Strata		Depth (Thick	Mat Gra
Depth	No	Туре	Results	Š	Ba		-			ness)	Leg
						Crop stubble over dark t SAND. Gravel is angula rootlets. (TOPSOIL)	prown slightly r to well round	gravelly silty organi led fine to coarse of	c fine to coarse f flint. Abundant	(0.35)	
						Soft to firm brown sand Sand is fine to coarse. (of flint.	ly becoming v Gravel is angu	very sandy slightly Ilar to well rounded	gravelly CLAY. fine to medium	- - - (0.55)	
										0.90	
1.00-1.50	1	В				Orangish brown beco occasionally coarse SAN	ming yellowis ND.	sh brown silty fir	ne to medium	 (1.10) 	
						Trial pit terminated at 2.0)0 mbgl.			2.00	
										-	
										- - -	
										- - -	
										- - -	
-										-	
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Plan (Not to	Scale	e)					General	Remarks			
0.60	▲ ↓	— 2.50)	2. P 3. S	it wall oakav	indwater encountered. s stable. /ay test performed in pit. backfilled with arisings.					
						All dimensions in metres		Scale:	1:25		
				1			,	902120	1 7 3		



Contract Ref:		ad, Else Start:			Ground Level (m AOD):	National C	rid Co-ordinate:	Sheet	-	SA10
1921	740	End:			101.56		767.6 N:22720			of 1
					101.30	E.000	101.0 N.22120	00.5	-	
Samples a Depth No	nd In-situ T Type	Results	Water	Backfill		Description	of Strata		Depth (Thick ness)	Grap
Depth No - - <	В		1. N		Crop stubble over dark i to coarse. Gravel is a Abundant rootlets. (TOP Soft to firm brown sand coarse. Gravel is is an SOIL) Stiff to very stiff light t slightly gravelly silty CL subrounded fine to n FORMATION) Trial pit terminated at 1.9	brown sandy ngular to wel 'SOIL) ty to very san gular to roun prownish grey AY. Sand is f medium of	gravelly organic SIL I rounded fine to dy gravelly CLAY. ded fine to medium	slightly sandy sangular to	ness) (0.35) - 0.35 - - - - - - - - - - - - - - - - - - -	
0.60			3. 5	Soakav	vay test performed in pit. backfilled with arisings.					
					All dimensions in metres		Scale:	1:25		



F	lent	nam R	oad, Else				Bloor H				Γ P 1
Contract Re	ef:		Start:	08.1	0.21	Ground Level (m AOD):	National G	rid Co-ordinate:	She	et:	
1	921	748	End:	<u>08</u> .1	0.21	93.04	E:553	468.7 N:2272	17.0	1	of
Sam	ples a	nd In-situ	u Tests	L	E					Depth	Ma
Depth	No	Туре	Results	Water	Backfill		Description	of Strata		(Thick ness)	Gra
•						Crop stubble over dark	prown organic	silty gravelly fine to	o coarse SANI).).	
0.00		F 0				Gravel is angular to wel (TOPSOIL)	I rounded fin	e to coarse flint. Ab	oundant rootlet	s. [(0.30)	0
0.20	1	ES				Brown slightly gravelly	silty fine to c	coarse SAND Grav	vel is anciular t	0.30	. 0 16
						well rounded fine to coal	se of flint. (S	UB SOIL)			×
0.50 0.60	1	CBR D	4%							(0.55)	. a ×
0.00	'									ŀ	0
						Soft to firm brown local	ly mottled are	ev with rare white s	pecks sandv	- 0.85 to -	× .0
-						very sandy slightly gra angular to well rounded	velly CLAY	Sand is fine to co	barse. Gravel	is _	E
								or mine.		ŀ	<u> </u>
1.20	_	V	c _u =68							ļ	E
1.30	2	D								ŀ	<u> </u>
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-										Ļ	<u> </u>
										ŀ	Ē
						grey mottling becom	ing more pre	valent at 2.20 m bgl		- (2.90)	
2.30	3	D				-		J.		- (2.90)	
						numerous cobbles o	of nodular flint	t at 2.50 m bol		ŀ	
2.60	4	D						y		t	
										ŀ	F
										F	<u> </u>
3.00-3.50	1	В								Ē	
										-	
										-	
										-	
										F	<u> </u>
					****	Trial pit terminated at 3.7	75 mbal			3.75	<u> </u>
										ŀ	
-										F	
										F	
										F	
	Cast						Conoral	Remarks			
Plan (Not to	JUDIE	7)									
	-	— 3.00		1.0	Ground).00 m	vater ingress into base of 3.40 m pit walls stable.	pit. Slow inflo	W.			
2	•			3.3	3.40 m	3.75 m partial pit wall coll backfilled with arisings.	apse.				
0.80				4. 1	naipit	uaukinneu with ansings.					
Motheral			Di	•		All dimensions in metres		Scale:	1:2 Checked	5	
Method			Plan	IT .			Logged		Chockod		



	Henh	nam R	load, Else	nhai	m		Bloor H				FP10 2
Contract R			Start:	08.1	0.21	Ground Level (m AOD):		rid Co-ordinate:		neet:	
	1921	748	End:	08.1	0.21	95.13	E:553	555.0 N:2272	40.3	1	of 1
Sar	nples a	and In-sit	u Tests	Water	Backfill		Description	of Ctroto		Depth (Thick	
Depth	No	Туре	Results	M	Bac		Description	UI SII ala		ness)	Legen
0.20	1	ES B				Crop stubble over dark b Gravel is angular to w rootlets. (TOPSOIL) Brown slightly gravelly s rounded of fine occasion	ell rounded	fine to coarse of edium SAND. Grav	flint. Abund	lant (0.30) 0.30	0. 0. *0. 0*
0.50		CBR	2%							(0.50) 0.80	× . Ø . × × . Ø
- - - - - - - -	1	D				(Loose) light yellowish g Rare fine subangular to s	rey fine to m subrounded fi	edium occasionally int gravel.	coarse SAI	ND. - - - - - - - - - - - - - - - - - - -	
2.00-2.50	2	в								-	
2.20	2	D								- - -	
-						Trial pit terminated at 2.0		bla ta avaguata dag	man aution to	- 2.65	
- - - - - - - - - -						collapse/instability.					
Plan (Not to	o Scale	e) 2.7(0	2. F 3. (Runnin Ground	wall collapse on long sides g sand into base of pit. twater ingress at 2.50 mbgl. backfilled with arisings.	s of pit.	Remarks			
						All dimensions in metres		Scale:		25	
Method Used:	Mar	:hine d	Plan Use			JCB-3CX	Logged By:	TJohnson	Checked By:	AT	A



Contract Re		iam R	oad, Else Start:			Ground Level (m AOD):	Bloor H	omes Grid Co-ordinate:	Sheet		FP103
		748	End:			96.29		625.0 N:2271			of 1
		and In-situ			<u>'</u>		L.000	020.0 N.227 T	10.0	Depth	Materia
Depth	No	· · · ·	Results	Water	Backfill		Descriptior	n of Strata		(Thick ness)	
Dopai		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	rtoouto	-		Crop stubble over dark l	brown organi	c silty gravelly fine to	coarse SAND.	TIESS	Cogoin
0.20	1	ES				Gravel is angular to we (TOPSOIL)	ll rounded fin	e to coarse flint. Ab	undant rootlets.	(0.35) 0.35	0. 0. 0.
0.45 0.50	1	D CBR	3%			Brown crumbly slightly angular to rounded of fir	gravelly silty ne to medium	/ fine to medium S/ flint.	AND. Gravel is	-	* * # * *
						locally very weakly (cemented at	0.90 mbgl.		- (0.90) - -	× 0 × 0 × 0
1.10	2	D								- 1.25	× o _x
						(Loose) light yellowish b Rare angular to subrour	rown fine to n nded fine to n	medium occasionally nedium flint gravel.	coarse SAND.	-	
1.50	3	D								ŀ	
										-	
										-	
2.00-2.50	1	в								-	
										F	
										- (2.10)	
										-	
										-	
										F	
										-	
										F	
										3.35	
						Trial pit terminated at 3.3	35 mbgl.			-	
										-	
										ł	
										-	
										F	
										-	
										ŀ	
Plan (Not to	Scale	e)					Genera	Remarks			
	-	3.00		1. 1	No grou	indwater encountered.					
~		5.00		2. F 3. T	Partial Frial pit	bit wall collapse. backfilled with arisings.					
0.80					-	_					
	•										
Method			Plan			All dimensions in metres	1	Scale:	1:25 Checked		
vietnoa Used:		:hine d				JCB-3CX	Logged By:	TJohnson	Спескеа Ву:	AT	AG



		iam K	oad, Else				or Homes			ΓP
Contract Re		740	Start:				tional Grid Co-ordinate:	Sheet:		
	921		End:	1	<u>'</u>	102.84 E	E:553777.2 N:2270	00.3		of
	-	Ind In-situ		Water	Backfill	Des	cription of Strata		Depth (Thick	G
Depth	No	Туре	Results	5		Crop stubble over dark brown	organia condu gravallu S	II T. Cond is fine	ness)	Le ×o
0.20	1	ES				to coarse. Gravel is angular coarse of flint. Abundant rootle	to rounded fine to medi ets. (TOPSOIL)	um occasionally	(0.30) 0.30	× "; × 。;
0.50	1	D				Firm brown sandy gravelly (angular to well rounded fine to SOIL)	CLAY. Sand is fine to co o coarse of flint with rare	oarse. Gravel is fine chalk. (SUB	(0.35)	· · ·
0.50		CBR	4%			Stiff to very stiff friable gre slightly sandy gravelly CLAY.	y speckled white locally	orangish brown	- 0.65 -	
0.90	2	D				(LOWESTOFT FORMATION)		-	•
										•
										·.
									-	
									-	_• <u>·</u>
4.00									- (2.30) -	•
1.90	3	D							-	•
									-	
									-	
									-	
2.90	4	D				Trial pit terminated at 2.95 mb	d		2.95	<u>.</u>
						That pit terminated at 2.95 mb	gi.		-	
									-	
									-	
									-	
									-	
-									-	
									- -	
									- -	
Plan (Not to	Scale	e)				Ger	neral Remarks			
	-	— 3.00	_►			ndwater encountered. stable.				
0.80						backfilled with arisings.				
Ö										
						All dimensioner in		4.05		
				1		All dimensions in metres	Scale:	1:25		



Contract Re			oad, Else			Ground Level (m AOD):	Bloor He	id Co-ordinate:	Sheet:		ΓP1
	". 921	7/0	Start:								-f
			End:		<u>'</u>	94.62	E.003	538.1 N:2269	02.0	1	of
	-	nd In-situ		Water	Backfill		Description	of Strata		Depth (Thick	Mat Gra
Depth	No	Туре	Results	>		Crop stubble over dark t	nown organic	silty gravelly fine to		ness)	Leg
0.20	1	ES				Gravel is angular to well (TOPSOIL)	rounded fine	to coarse of flint. F	requent rootlets.	(0.30) 0.30	
0.50 0.50	1	D CBR	3%			angular to rounded fine t	to medium of t	int. (SUB SOIL)		(0.30) 0.60	. a
- 1.00	2	D				(Loose) orangish brown				- - - - - -(2.40)	
2.20 2.60-3.00	3	D				slightly gravelly ang mbgl.	gular to well ro	ounded fine to med	lium flint at 2.60	-	
-						Trial pit termianted at 3.0)0 mbgl pit wa	Il collapse.		3.00 - - - - - - - - -	
Plan (Not to	Scale	.) 3.30	>	2. F	Pit walls	Indwater encountered. s unstable, pit wall collapse backfilled with arisings.		Remarks		-	
				-		All dimensions in metres	5	Scale:	1:25		
				1							



	1921	748 and In-situ Type	Start: End: u Tests			Ground Level (m AOD): National Grid Co-ordinate: Sheet:		
Sam Depth 0.20 0.50 0.50	nples a	and In-situ			0.21	92.49 E:553438.9 N:227031.2	1	of
Depth 0.20 0.50 0.50	No			L.	1		Depth	1
0.20 0.50 0.50	1		Results	Water	Backfill	Description of Strata	(Thick ness)	
0.50		ES				Crop stubble over dark brown organic silty gravelly fine to coarse SAND. Gravel is angular to well rounded fine to coarse of flint. Frequent rootlets. (TOPSOIL)	(0.30)	С
	1	D				Greyish brown clayey gravelly fine to coarse SAND. Gravel is angular to well rounded fine to medium flint. (SUB SOIL)	(0.35)	
-	2	CBR	5%			Orangish brown locally grey clayey gravelly fine to coarse SAND with low cobble content. Gravel is angular to well rounded fine to coarse flint. Cobbles are nodular flint.	- <u>0.65</u> - -	00
1.00-1.50	1	В					- - (1.05)	000
- - -							-	0 0 0 0
							1.70	
2.60	3	D				Orangish brown slightly gravelly to gravelly silty fine to coarse SAND. Gravel is angular tow ell rounded fine to coarse flint.	- - - - - - - - - - - - - - - - - - -	× 0 × 0 × 0 × 0 × 0 × 0 × 0
-						Trial pit terminated at 3.45 mbgl.	- - - - - - - - - - - -	× 0 × 0 × 0
- - - - - Plan (Not to) Scale	9)				General Remarks	-	
- Ian (Not to		=) 3.60		2. F	Pit walls	indwater encountered. is stable. backfilled with arisings.		
0	♥ ∟]					
Method			Plan	+		All dimensions in metres Scale: 1:25		II



C	Contract:						Client	:		Window	w Sampl	e:
	Hei	nham Ro	oad,	Else	nham				Bloor Homes		V	/ S101
C	Contract Ref:			Start:	12.10.21	Grour	nd Leve	I (m AOD):	National Grid Co-ordinate:	Sheet:		
	192	21748		End:	12.10.21		91.	.17	E:553423.1 N:227145.1		1	of 2
	Progress		Sam	ples / T	ests	L	tion 8				Depth	Material
١	Vindow Run	Depth	No	Туре	Results	Water	Backfill & Instru- mentation		Description of Strata		(Thick ness)	Graphic Legend
								Grass over	dark brown silty gravelly fine to coarse	SAND		್ಲ್ಯಂಂ
		-						fine to coa	obble content. Gravelis angular to subro irse of flint, brick and concrete. Cobb	ounded les are	[× a O ×
$\left \right $		0.30	1	ES				subangular	bricks and concrete.		(0.75)	Ŏ ^ⅆ ҂ _Ⴧ ѺႳ
ł												0,0
								becom	ing clayey at 0.50 mbgl.			Ô. ×00
╞		0.60	1	D							0.75	a D
ł		-						Firm to sti sandy CLA	ff brown locally mottled grey slightly g Y. Sand is fine to medium. Gravel is and	gravelly nular to	-	<u> </u>
Ĺ		0 90	3	D			0 0	rounded fin	e to medium flint.		Ľ	
ŀ		-						¢ ¢			ŀ	
+ -	A	1 20-1.65	1	SPT	N=10			•			-	· <u>···</u> ··
Ĺ		1.30	2	D				•				<u> </u>
ŀ	 1.20 - 2.00	-						•			-(1.55)	<u> </u>
ŀ	(45mm dia)	-						flint n	odule recovered as angular flint gravel	at 1.60	-	<u> </u>
Ē	100% rec	-						mbgl.				- <u>°</u>
-		-						0			-	
		2 00-2.45	1	SPT	N=12			becom	ing gravelly at 2.00 mbgl.		-	$\dot{-}\dot{-}\dot{-}\dot{-}\dot{-}\dot{-}\dot{-}\dot{-}\dot{-}\dot{-}$
ţ		-										<u></u>
ŀ		2 20	4	D				Modium d	anaa arangiah braum laadhu atraaka	d arou	2.30	<u> </u>
\mathbf{F}	2.00 - 3.00	-						slightly grav	ense orangish brown locally streaked velly silty fine to coarse SAND.	u grey	-	ð s
t	(45mm dia) 100% rec	2.50	5	D				•				a x
-		-						*			-	х х • х
ŀ		-						•			-	× :0 **
È.		-						•			-	×°. O×
F		3 00-3.45	1	SPT	N=21			a a			-	×
ł		-						•			-	
t		-						becom	ing slightly silty at 3.30 mbgl.		E	: ר:
Ĺ	3.00 - 4.00 (45mm dia)	2.50						•			ŀ	Ø.,
ŀ	80% rec	3.50	6	D				•			-	. o. x.
t		-						locally	gravelly at 3.70 mbgl.		Ľ	×
ŀ	Ţ	-						•			(3.15)	× 0 ∞
<u> </u> .		4 00-4.45	1	SPT	N=15			•			-	×
ŀ	T 4.00 - 5.00							*			Ľ	× Noj ×
F	(45mm dia)	-						•			-	×0····×
	60% rec	L F						0 0			F	*0 *
	I	I				I		d			1	

mel H		Drilling Pr	ogress and						Con	oral	Remarks			
Road, Hemel	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter	Water Depth			Gen		Vernarks			
			<u>(m)</u>	(m)	(mm)	(m)	1. No gr	oundwater en	countered.					
18 Frogmore														
8 Frog														
Environment Ltd.														
viron							4	All dimensions	in metres		Scale:	1:25		
ΚĒr	Method		d window		-			Drilled			JJohnson	Checked	AT	
RSK	Used:	san	npling	Use	u. Pr	emier 10	0	By:	KL	By:		By:	141	AGS



Contract Ref. Start: 12:10:21 Ground Level (m AOD): National Gird Co-ordinate: Steet: Progress Samples / Tests 91:17 E:553423.1 N:227145.1 2 of Window Run Depth No Type Results 9	Contract:							С	lient:			Win	ndow Sampl	e:
1921748 End: 91.17 E:553423.1 N:227145.1 2 or Progress Samples / Tasks B		Henha	im Roa	ld, I	Else	nham					Bloor Homes		V	/ S101
Progress Semples / Tesls No Type Results Mean field Description of Strata Description of Strata 1 450 7 D Medium dense crangish brown locally streaked grey sightly gravity silly fine to coarses SAND. (stratum copied from 2.30m from previous sheet) *** 00 - 500 *** Medium dense crangish brown locally streaked grey sightly gravity silly fine to coarses SAND. (stratum copied from 2.30m from previous sheet) *** 00 - 500 *** *** *** *** 00 - 500 *** *** *** 00 - 500 *** *** *** 00 - 500 *** *** *** 00 - 500 *** *** *** 00 - 500 *** *** 00 - 500 *** *** 00 - 500 *** *** 00 - 500 *** *** 10 - 500 *** *** 10 - 500 *** *** 10 - 500 *** *** 10 - 500 *** *** 10 - 500 *** *** 10 - 500 *** *** 10 - 500 *** *** 10 - 500 *** **** 10 - 500 *** <th>Contract I</th> <th>Ref:</th> <th></th> <th></th> <th>Start:</th> <th>12.10.21</th> <th>Gro</th> <th>und l</th> <th>_evel (</th> <th>(m AOD):</th> <th>National Grid Co-ordinate:</th> <th>She</th> <th>eet:</th> <th></th>	Contract I	Ref:			Start:	12.10.21	Gro	und l	_evel ((m AOD):	National Grid Co-ordinate:	She	eet:	
4.00 - 5.00 (4.00 - 5.00) <th></th> <th>19217</th> <th>48</th> <th></th> <th>End:</th> <th>12.10.21</th> <th></th> <th></th> <th>91.1</th> <th>17</th> <th>E:553423.1 N:227145</th> <th>.1</th> <th>2</th> <th>of 2</th>		19217	48		End:	12.10.21			91. 1	17	E:553423.1 N:227145	.1	2	of 2
4.00 - 5.00 7 D Medium dense crangish brown locally streked grey * 4.00 - 5.00 (sint) gravely sit fife to cores SAND. (sint) gravely sit fife to cores SAND. * 60% rec - - - - - V - - - - - 0% rec - - - - - 0% rec - - - - - 0% rec - - - - - - 0% rec - - - - - - - 0 -	Progre	SS	5	Samp	oles / T	ests		ter fill g	ation		Description of Strata		Depth	Material Graphic
4.00-5.00 sightly gravely sity fine to coarse SAND. (dom dat) (draum coarse) Other inclusion Image: Sightly gravely sity fine to coarse SAND. 5.45 Image: Sightly gravely sity fine to coarse SAND. 5.45 Image: Sightly gravely sity fine to coarse SAND. 5.45 Image: Sightly gravely sity fine to coarse SAND. 5.45 Image: Sightly gravely sity fine to coarse SAND. 5.45 Image: Sightly gravely sity fine to coarse SAND. 5.45 Image: Sightly gravely sity fine to coarse SAND. 5.45 Image: Sightly gravely sity fine to coarse SAND. 5.45 Image: Sightly gravely sity fine to coarse SAND. 5.45 Image: Sightly gravely sity fine to coarse SAND. 5.45 Image: Sightly gravely sity fine to coarse SAND. 5.45 Image: Sightly gravely sity fine to coarse SAND. 5.45 Image: Sightly gravely sity fine to coarse SAND. 5.45 Image: Sightly gravely sity fine to coarse SAND. 5.45 Image: Sightly gravely sity fine to coarse SAND. 5.45 Image: Sightly gravely sity fine to coarse SAND. 5.45 Image: Sightly gravely sity fine to coarse SAND. 5.45 Image: Sightly gravely s	Window					Results	5	Wa					ness)	Legend
	(45mm o 60% re	.00 - dia) _	0	7	D					slightly grav (stratum co locally g	relly silty fine to coarse SAND. pied from 2.30m from previous she gravelly at 4.80 mbgl.	et)		
		Drilling Pr		d /// «	ator Oh	sonvations							1	1
Date Borehole Depth (m) Casing Depth (m) Borehole Depth (m) Water Depth (m) General Remarks			Borehole			Borehole Diameter	Dep	th			General Remark	S		

All dimensions in metres

KL

Drilled

By:

1:25

By:

Checked

AT

AGS

Scale:

By:

Logged TJohnson

G NT_L BRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log W NDOW SAMPLE LOG - A4P | 1921748-ELSENHAM.GPJ - v10_01. RSK Environment Ltd. 18 Frogmore Road, Hernel Hempstead, Hertbrdshire, HP3 9RT. Tel: 01442 437500, Fax: 01442 437550, Web: www.rsk.co.uk, | 20/10/21 - 10:16 | SG6 |

Method

Used:

Tracked window

sampling

Plant

Used:

Premier 100



Contract:						С	lient:			Window	v Sampl	e:
Hei	nham Ro	oad,	Else	nham					Bloor Homes		N	/S102
Contract Ref:			Start:	11.10.21	Grou	ndl	_evel	(m AOD):	National Grid Co-ordinate:	Sheet:		
192	21748		End:	11.10.21			97.	79	E:553631.5 N:227085.4		1	of 2
Progress		Sam	ples / T	ests	L	10	đill				Depth	Material
Window Run	Depth	No	Туре	Results	Water	vvau	Backfill		Description of Strata		(Thick ness)	Graphic Legend
-	-					XXX		coarse SA	e over dark brown organic silty gravelly ND. Gravel is angular to well rounded	fine to fine to	(0.30)	о
-	0 20	1	ES						t. Frequent rootlets. (TOPSOIL)		0.30	0.,
-	-							Gravel is a	elly to very gravelly silty fine to coarse ngular to well rounded fine to coarse flint	sand. . (Sub	(0.35)	жо О ^ж ос
	0.50	1	D					SOIL)			0.65	a ×
	-							Medium de	nse orangish brown fine to medium SAN	D.	-	× · · · ×
•	0.80	2	D								-	
-	_					8					-	
	-										-	
	1 20-1.65 1.30	1	SPT D	N=28							-	
											-	
	-										-	
	-										-	
	1.00										-	
-	1 90 2 00-2.45	4	D SPT	N=25							_	
	-					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					-	
	-										-	
	-										-	
	-					8		becomi	ng light yellowish grey at 2.50 mbgl.		-	
	2.70	5	D								-	
	-										-	
-	3 00-3.45	1	SPT	N=30							(4.80)	
	-										-	
	-										-	
	-										-	
	-										_	
	-										-	
	-										-	
-	4 00-4.45 4 00	1	SPT D	N=17		×××					-	
	400	o									-	
	-										-	
						8						

i e i		Drilling Pr	ogress and	Water O	bservations				Con		Domoriko			
d, Hemel	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter	Water Depth			Gen	erar	Remarks			
vironment Ltd, 18 Frogmore Road,			(m)	(m)	(mm)	(m)		oundwater en ow sample ho		l with ari	sings.			
inon/							4	All dimensions	in metres		Scale:	1:25		
RSK En	Method Used:		d windov npling	W Plai Use		emier 10	00	Drilled By:	KL	Logged By:	JJohnson	Checked By:	AT	AGS



Contract:	Hen	ham Ro	ad	Flse	nham		Client:		Bloor Homes	vvindo	w Sampi V	le: VS102
Contract I			au,		11.10.21	Groun	d Level	(m AOD):	National Grid Co-ordinate:	Sheet:		10102
	1921	748			11.10.21		97.		E:553631.5 N:227085.4		_	of 2
Progre			Sam	ples / T		<u> </u>			E.000001.0 N.227000.4	•	Depth	Materia
Window		Depth		Туре	Results	Water	Backfill		Description of Strata		(Thick ness)	
	-	5 00-5.45	1	SPT	N=50			(stratum co	nse orangish brown fine to medium S pied from 0.65m from previous shee at 5.00 mbgl. mple hole terminated at 5.45 mbgl. \$	0	- 5.45 	
	-										-	
Date	Drilling Time	Progress a Borehole Depth (m)		ater Ob Casing Depth (m)	Borehole Diameter	Water Depth (m)			General Remarks	5		

All dimensions in metres

KL

Drilled

By:

1:25

By:

Checked

AT

AGS

Scale:

By:

Logged TJohnson

Method

Used:

Tracked window

sampling

Plant

Used:

Premier 100



Her	nham Ro	ad,						Bloor Hom	nes		V	VS1
Contract Ref:			Start:	12.10.21	Grou	nd Leve	l (m AOD):	National Grid (Co-ordinate:	Sheet:		
192	1748		End:	12.10.21		102	2.72	E:55378	4.1 N:227141.7		1	of
Progress		Sam	ples / 7	ests							Depth	Mat
Window Run	Depth	No	Туре	Results	Motor	Backfill			ion of Strata		(Thick ness)	Gra Leç
	0 20	1	ES				SILT. San rounded fi (TOPSOIL)	d is fine to coa ne to medium)	brown organic sandy g arse. Gravel is angular of flint. Numerous r	to well rootlets.	- (0.30) 0.30	×°× × × × ×
	0.50 0.60	1	D HP	c _u =100			Firm browr fine. Grave (SUB SOIL	el is angular to	sandy gravelly CLAY. s rounded fine to mediu	Sand is ım flint.	(0.40) 0.70	
-	0 90	2	D				slightly sa Gravel is	ndy gravelly C	wnish grey with white s LAY. Sand is fine to rounded chalk and ON)	coarse.	-	
· · · · · · · · · · · · · · · · · · ·	1 20-1.65	1	SPT	N=24							-	
1.20 - 2.00 (45mm dia) 100% rec	1.50	3	D								-	
	2 00-2.45	1	SPT	N=19							-	
	2 20	4	D								-	÷
2.00 - 3.00	2.40	5	D				8				-	<u>•</u> ••
(45mm dia) 100% rec	- - - 3 00-3.45	1	SPT	N=23							(3.75) - - -	
3.00 - 4.00 (45mm dia) 100% rec	3.70 4 00-4.45	6	D SPT	N=50			becom	ing orangish bro	wn at 3.90 mbgl.		-	
						*****	Minday		ainstad at 4.45	uine t-	- 4.45	+ -
Drillin	g Progress a	nd W	ater Ol	servations			SPT refuse	al.	ninated at 4.45 mbgl o	wing to		
Date Tin	Borehol	e C	asing Depth (m)	Borehole Diameter (mm)	Wate Deptr (m)	1. I		Gener er encountered. e hole backfilled	eral Remarks			
	ked wind		Plar				All dimens	ions in metres	Scale: Logged TJohnson	1:25		



Contract		ham Ro	ad	Eleo	nham		Client:		Bloor Hon	105	Window		S103
Contract					12.10.21	Ground		(m (OD):	National Grid		Sheet:	~ ~	3103
Contract		748			12.10.21		102			4.1 N:227141.7	Sheet.	2	of 2
Progre		1/40		ples / T		1	1	.12	L.33376	4.1 N.22/ 141./	1		
Window		Depth		Type		Water	Backfill		Descrip	tion of Strata		Depth (Thick ness)	Material Graphic Legend
- -											 - -		
Date	Drilling	Progress a Borehol Depth (m)		ater Ob asing Depth (m)	Diservations Borehole Diameter (mm)	Water Depth (m)	-		Gen	eral Remarks	[
								All dimen	sions in metres	Scale:	1:25		
Method	Trac	ked wind	low	Plan			.()	Drilled		Logged TJohnson	Checked		
Used:		ampling		Use	d: Pre	mier 1	00	By:	KL	By:	By:	AT	AG



Contract:	nham Ro	be	Eleo	nham		C	client:		Bloor Homes	Window	v Sampl ۱۸	e: /S104
Contract Ref:		au,		12.10.21	Grour	nd I	evel	(m AOD):	National Grid Co-ordinate:	Sheet:		13104
	21748			12.10.21	Ciou		98.4		E:553646.8 N:226998.9	Chioot.	1	of 2
Progress		Sam	ples / T					T /	L.000040.0 N.220000.0		Depth	Material
Window Run	Depth		Туре	Results	Water	• • • •	Backfill		Description of Strata		(Thick ness)	Graphic
	0 20	1	ES			××××××		coarse SA	e over dark brown organic silty gravelly ND. Gravel is angular to well rounded t. Frequent rootlets. (TOPSOIL)	fine to fine to	- (0.30) 0.30	о
	0.40	1	D					Brown sligh angular to r	tly gravelly silty fine to coarse SAND. G ounded fine to medium flint. (SUB SOIL	ravel is)	0.50	*\$ <i>0</i> * c
	-					000000000000000000000000000000000000000		Yellowish SAND.	prown fine to medium occasionally	coarse	-	
-	0 90	2	D			00000000					-	
	1 20-1.65 1 20	1 3	SPT D	N=17		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		mediun	n dense at 1.20 mbgl.		(2.00)	
1.70 - 2.00 (45mm dia) 50% rec 2.00 - 3.00	2 00-2.45 2 00 2 00 - 2 00	1 4	SPT D	N=12				becomi	ng orangish brown at 1.90 mbgl.			
(45mm dia) 40% rec	- - - 3 00-3.45 7 3 00	15	SPT D	N=22				Medium de	nse light yellowish grey fine to coarse S/	AND.	-	
3.00 - 4.00 (45mm dia) 30% rec	-								ne gravel of subangular to subrounded artz at 3.50 mbgl.	l chalk,	- - - -	
4.00 - 5.00 (45mm dia) 30% rec	- 4 00-4.45 4 00 -	1 6	SPT D	N=24							(2.95) - - -	

	1	Drilling Pr	ogress and	Water C	Observations				Con		Domorto			
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter	Water Depth			Gen	erarr	Remarks			
•			<u>(</u> ḿ)	(ṁ)	(mm)	(ṁ)		oundwater en ow sample ho		l with ari	sings.			
	1						1	All dimensions	in metres		Scale:	1:25		
	Method Used:		d windov nolina	W Pla		emier 10	0	Drilled By:	KL	Logged By:	TJohnson	Checked By:	AT	AGS



Contract:		nam Ro	ad	Flee	nham		1	Client:		Bloor Homes	Windo	w Sampl V	e: VS104
Contract I			au,		12.10.21	Gro	und	Level	(m AOD):	National Grid Co-ordinate:	Sheet:		10104
	1921	748			12.10.21			98.4		E:553646.8 N:226998.9		_	of 2
Progre		140	Sam	ples / T		<u> </u>			τ <i>ι</i>	2.000040.0 11.220000.0		1	1
Vindow		Depth		Туре	Results	;	Water	Backfill		Description of Strata		Depth (Thick ness)	Materia Graphi Legen
4.00 - 5. (45mm o 30% re ▼	dia) _ ec _	00-5.45	1	SPT	N=25				(stratum co	ample hole terminated at 5.45mbgl. S			
	Drilling				servations					Conoral Domarka			
Date	Time	Borehol		Casing Depth (m)	Borehole Diameter (mm)	Wate Dept (m)	er th)	1		General Remarks			
		(11)		(111)	(1111)	(11)	,						

All dimensions in metres

KL

Drilled

By:

1:25

By:

Checked

AT

AGS

Scale:

By:

Logged TJohnson

G NT_L BRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log W NDOW SAMPLE LOG - A4P | 1921748-ELSENHAM.GPJ - v10_01. RSK Environment Ltd. 18 Frogmore Road, Hernel Hempstead, Hertbrdshire, HP3 9RT. Tel: 01442 437500, Fax: 01442 437550, Web: www.rsk.co.uk, | 20/10/21 - 10:16 | SG6 |

Method

Used:

Tracked window

sampling

Plant

Used:

Premier 100



Contract:						Clier	nt:		Windo	w Sampl	e:
Her	nham Roa	ad,	Else	nham				Bloor Homes		V	/S105
Contract Ref:			Start:	12.10.21	Gro	ound Lev	el (m AOD):	National Grid Co-ordinate:	Sheet:		
192	21748		End:	12.10.21		9	1.84	E:553406.4 N:226925.5		1	of 2
Progress		Sam	ples / T	ests		La sila	tion			Depth	Material
Window Run	Depth	No	Туре	Results		Water Backfill & Instru-	menta	Description of Strata		(Thick ness)	Graphic Legend
	0.30 0.60 1 20-1.65 1.60 1.60	1	ES D SPT(c) D SPT D				MADE GR silty gravel subrounde	OUND: Tall grass over brown slightly o ly fine to coarse SAND. Gravel is ang d fine to medium flint, sandstone with rare nse yellowish brown sandy GRAVEL. S arse. Gravel is angular to subangula y medium flint. nse orangish brown locally streaked gr ium SAND.	jular to e slag. Sand is ar fine	(1.20) (1	
	2.50 - - - -	4	D				slightly gra	ense brownish grey silty to very silty velly fine SAND. Gravel is angular fine fli gravelly at 2.50 mbgl.	locally int.	2.30	× × ×
 	- 3 00-3.45 - 3 00 - -	1 5	SPT D	N=20						- - - -	Δ. Δ. ο. .ο. .ο. .ο.
- - - -	- 3.60 - - - 4 00-4.45	6	D SPT(c)	N=27						- - - - (3.15)	0 0 0 0
	- -			11-27			becor silty at 4.20	ning brown with orangish brown streak:) mbgl.	s. Very	-	0 0 0 0

nel H		Drilling Pr	ogress and	Water	Observatio				Con	oral	Remarks			
d, Hei	Date	Time	Borehole Depth	Casin Depth	n Diamete	er Depth			Gen		Celliains			
18 Frogmore Road, Hemel			(m)	(m)	(mm)	(m)	1. No gi	oundwater er	countered.					
gmor														
18 Fro														
ġ														
Erwironment														
ē								All dimensions	s in metres		Scale:	1:25		
	Method	Tracke	d windo	N PI	lant			Drilled		Logged	Johnson	Checked	10	AGS
SK	Used:	san	npling	U	sed:	Premier 10	0	By:	KL	By:		By:	AI	AGS



Contract Re	1921748	Sar oth No 7	Start: End: mples / T o Type	12.10.21 12.10.21		91.		National Grid Co-ordinate: E:553406.4 N:226925.5	Sheet:		of 2
Progress	s Dep 4.60	Sar oth No 7	mples / T o Type	ests	<u> </u>		84	E:553406.4 N:226925.5			
	un Dep 4.60	oth No	о Туре		Water	Backfill & Instru- nentation			-		
Window R	4.60	7		Results	Wat	Backf Instr nenta				Depth	Materia
	-		D					Description of Strata		(Thick ness)	Graphic Legenc
		.45 1	SPT(c)	N=23			slightly grave (stratum cop	nple hole terminated at 5.45 mbgl. Sc	lint.		
	rilling Progr	ress and V	Nater Oh	servations							
Date	B		Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)			General Remarks			

					All dimensions	s in metres		Scale:	1:25	
Vethod Jsed:	Tracked windo sampling	Plant Used:	emier 10	0	Drilled By:	KL	Logge By:	d TJohnson	By: AT	AGS



Contract:	len	ham Ro	ad.	Else	nham		Clie	n.	Bloor Homes			w Sampl V	VS1
Contract Re					12.10.21	Grou	nd Le	vel (m AOD)		dinate:	Sheet:		
1	192 [,]	1748		End:	12.10.21		8	9.50	E:553325.3	N:227031.6		1	of
Progress	5		Sam	ples / T			=		I		I	Depth	Mat
Window R	un	Depth	No	Туре	Results	Water	Rackfill		Description of	of Strata		(Thick ness)	
	-	0 20	1	ES				SILT. subrour (TOPSO Firm lig	nt brown locally grey slig	e. Gravel is ang flint. Frequent i htly gravelly sandy	jular to rootlets.	(0.30) 0.30	×°× × × ×°×
	-	0.70	1	D				Sand is fine occ	fine to medium. Gravel asionally medium of flint	is angular to subr	ounded	- - - (1.10)	
^		1.10 1 20-1.65	2 1	D SPT	N=7							- - - 1.40	
1.20 - 2.00 (45mm dia 90% rec	a) [1.60	3	D				Firm to fine to c	stiff orangish brown san oarse. Gravel is angular	dy gravelly CLAY. to rounded flint.	Sand is	-	
	- 	2 00-2.45	1	SPT(c)	N=18							- -(1.25) - -	
 2.00 - 3.00 (45mm dia 80% rec	a) †	2.50	4	D				Firm ora	angish brown sandy to v	very sandy CLAY.	Sand is	- - - <u>2.65</u> -	
		3 00-3.45	1	SPT	N=10							-	
3.00 - 4.00 (45mm dia 75% rec		3.40	5	D								-	
4.00 - 5.00	b	4 00-4.45	1	SPT	N=8							- - - (2.80) -	
(45mm dia 50% rec	Ĺ	4.40	6	D								-	
	rilling	Progress a	nd \//	ator O	servations								
Date	Time	Borehol	e C	aler Or Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)	1		Genera vater encountered. mple hole backfilled with	I Remarks arisings.			
Method T	Free	ked wind		Plan				All dim Drille	ensions in metres	Scale: ged TJohnson	1:25 Checke	od	
Vietnoa I Used:		ked wind ampling	UW	Use		mier	100	By:	a Logi KL By:	yeu ijonnson	By:	AT	 A

	Drilling Pro	ogress and	Water C	bservations				Con		Domorko			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter	Water Depth			Gen	erar	Remarks			
		(m)	(m)	(mm)	(m)	1. No gr	oundwater en	countered.					
						2. Wind	ow sample ho	le backfilled	l with aris	sings.			
						-	All dimensions	s in metres	:	Scale:	1:25		
Method	Tracke	d windo					Drilled			TJohnson	Checked	17	
Used:	san	npling	Use	^{ed:} Pr	emier 10)0	By:	KL	By:		By:	¥1	AGS



Contract		nham Ro	her	Flee	nham		•	Client:		Bloor Homes		Window		le: VS106
Contract			au,		12.10.21	Grou	und		(m AOD):	National Grid Co-ordinate:		Sheet:	v	100
Contract		4740					unu					Sheet.	•	
		1748			12.10.21			89.	00	E:553325.3 N:22	2/031.6		2	of 2
Progre Window		Depth		ples / T Type	ests Results	5	Water	Backfill		Description of Stra	ta		Depth (Thick ness)	Materia Graphi Legen
				- 21		-	_		Firm orang	sh brown sandy to very sa	andv CLAY, S	Sand is	110357	
4.00 - 5 (45mm	dia)								fine.	pied from 2.65m from prev			-	· · · ·
50% r ▼	rec												-	<u> </u>
		5 00-5.45	1	SPT	N=12								-	
	-												-	<u> </u>
	-												-	<u> </u>
	ŀ								14/2-1		45		- 5.45	
	ŀ								Window sa depth.	mple hole terminated at 5.4	45 mbgl. Sch	eduled	-	
													_	
	-												_	
	-												-	
	ŀ	-											-	
	ŀ												-	
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	Drilling	g Progress a								General Re	marke			
	1	Boreho	ie C	asing	Borehole Diameter	Wate Dept	h			Ocheral Re				
Date	Tim	ne Deptr		Depui										
Date	Tim	ne Depth (m)		Casing Depth (m)	(mm)	(m)		-						
Date	Tim	ne Deptr (m)		(m)		(ḿ)								
Date	Tim	le Deptr		(m)		(m)		-						

All dimensions in metres

KL

Drilled

By:

1:25

By:

Checked

AT

AGS

Scale:

By:

Logged TJohnson

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Method

Used:

Tracked window

sampling

Plant

Used:

Premier 100



Hei	nham Ro	ad,	Else	nham				Bloor Home	S		v	le: VS107
Contract Ref:		,		12.10.21	Grou	und	Level	n AOD): National Grid Co	-ordinate:	Sheet:		
192	21748		End:	12.10.21			100.	21 E:553769.	2 N:227297.0		1	of 1
Progress		Sam	ples / T	ests		e	đill				Depth	Materi
Window Run	Depth	No	Туре	Results		Water	Backfill	Description	n of Strata		(Thick ness)	Graph Legen
	0 20	1	ES			000000000000000000000000000000000000000		MADE GROUND: Crop stut sandy gravelly SILT. Sand angular to rounded fine to m flint. Abundant rootlets. (TOP MADE GROUND: Dark brow	is fine to coarse. Gra edium occasionally co SOIL)	avel is arse of	(0.30) 0.30	
	0.50	2	ES			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		fine to coarse SAND. Gravel to coarse of flint, charcoal and	is angular to subround d red clay pottery.	ed fine	(0.30) - 0.60	
	- - 0.75 -	1	D			000000000000000000000000000000000000000		Stiff to very stiff light brown slightly sandy gravelly CLA Gravel is angular to well r (LOWESTOFT FORMATION	Y. Sand is fine to o rounded of chalk an	coarse.	-	
	- 1 20-1.65 -	1	SPT	N=17		000000000000000000000000000000000000000					-	
 1.20 - 2.00 (45mm dia) 100% rec 	1.50	2	D								- (1.85) - -	
	1 90 2 00-2.45	3 1	D SPT(c)	N=50				becoming orangish bro mbgl.	win and very sandy a	at 1.80	-	
	- - - -					0000		Window sample hole termin SPT refusal.	ated at 2.45 mbgl ov	ving to	<u>2.45</u>	<u> </u>
	- -										-	
	- - -										-	
	-										-	
	- - -										-	
	-										-	
	g Progress a Boreho	le (Casing	Borehole	Wate			Gener	ral Remarks			
Date Tin	ne Depth (m)		Depth (m)	Diameter (mm)	Depti (m)	h						

							4.05	
				All dimensions in metres		Scale:	1:25	
Method Used:	Tracked window sampling	Plant Used: ■	Premier 100	Drilled By: KL	Logge By:	d TJohnson	Checked By: AT	AGS



Contract: He	enham Ro	bad	Else	nham		Clien	t	Bloor Homes	Window	w Sampl V	e: /S108
Contract Ref:		, au		12.10.21	Grou	l nd Leve	el (m AOD):	National Grid Co-ordinate:	Sheet:	•	
	21748			12.10.21			.52	E:553569.9 N:226878.1		1	of 2
Progress	1	Sam	ples / T							Depth	Material
Window Rur	n Depth	No	Туре	Results	Water	Backfill		Description of Strata		(Thick ness)	Graphic Legend
	0 20	1	ES				🕅 fine to m	le over dark brown organic slightly grave edium occasionally coarse SAND. Gra well rounded flint. Frequent rootlets. (TOF	avel is	-(0.30) 0.30	
	0.40	1	D				© coarse SA SOIL)	htly gravelly silty fine to medium occas ND. Gravel is angular to subrounded flint	t. (SUB	0.50	×
	- - - 0 90	2	D				SAND.	nse orangish brown slightly silty fine to n	nedium	- - -	× × × × ×
	1 20-1.65 1.30	1 3	SPT D	N=24						- - -	× × ×
1.20 - 2.00 (45mm dia) 80% rec	-									- - (2.80)	× × ×
	2 00-2.45 2 00 2 00 -	1 4	SPT D	N=28						-	× × ×
2.00 - 3.00 (45mm dia) 70% rec	2.60	5	D							- - -	× × ×
—	3 00-3.45	1	SPT D	N=22			locally	grey at 3.00 mbgl.		-	× × ×
3.00 - 4.00 (45mm dia) 60% rec	-	0	U					ense brown fine to coarse SAND wi d fine flint and quartz gravel.	th rare	3.30 - - -	
4.00 - 5.00 (45mm dia) 40% rec	- - - 4 00-4.45 -	1	SPT	N=22						- - - - - (2.15)	

le l		Drilling Pro	ogress and	Water C	bservations				Con		Domorko			
d, Hemel	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter	Water Depth			Gen	erarr	Remarks			
Erwironmerit Ltd. 18 Frogmore Road,			(m)	(m)	(mm)	(m)		ndwater encoi ow sample ho						
noi/							1	All dimensions	in metres	:	Scale:	1:25		
RSK Em	Method Used:		d windo npling	W Pla Use		emier 10	00	Drilled By:	KL	Logged By:	TJohnson	Checked By:	AT	AGS



Contract: He	nham Roa	ad,	Else	nham		Client		Bloor Homes		w Sampl V	e: /S108
Contract Ref:				12.10.21	Groun	d Level	(m AOD):	National Grid Co-ordinate:	Sheet:		
	21748			12.10.21		95.		E:553569.9 N:226878.1			of 2
Progress			ples / T							Depth	Materi
Nindow Run	Depth	-	Туре	Results	Water	Backfill		Description of Strata		(Thick ness)	Graphi
4.00 - 5.00 (45mm dia) 40% rec ¥	4.60 	7	D SPT	N=27			subrounde (stratum co	ense brown fine to coarse SAND v d fine flint and quartz gravel. ppied from 3.30m from previous sheet) ample hole terminated at 5.45 mbgl. Se		ness)	
	-									-	
	ng Progress an Borehole			Borehole	Water			General Remarks			
Date Tir			asing Depth (m)	Diameter (mm)	Water Depth (m)						

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	All dimensions in metres	Scale:	1:25
Plant ^{Jsed:} Premier 10		Logged TJohnson By:	Checked AT AGS



Contract:							Client:			Window	w Samp	e:
He	Henham Road, Elsenham								Bloor Homes		V	/ S109
Contract Ref:					Gro	und	Level	(m AOD):	National Grid Co-ordinate:	Sheet:		
193	21748			12.10.21			103	90	E:553824.0 N:227066.5		1	of 2
Progress		Sam	ples / 1				1				1	Materia
Window Run	Depth		Туре			Water	Backfill		Description of Strata		Depth (Thick ness)	Graphic
_								Crop stub	ble over dark brown organic sandy o	gravelly	(0.30)	×°× ×
-	0 20	1	ES					fine to me	d is fine to coarse. Gravel is angular to re adium occasionally coarse of flint. Ab	ounded oundant	0.30	×
-								_rootlets. (T	OPSOIL) 1 sandy to very sandy gravelly CLAY. S	Sand is	0.50	<u></u>
	0.40	1	D					fine to coa	irse. Gravel is angular to well rounded at. (SUB SOIL)		0.50	<u> </u>
	-							Stiff to very	/ stiff light brownish grey speckled white	slightly	-	<u> </u>
	-							sandy grav	velly CLAY. Sand is fine to coarse. Gr	ravel is	-	<u> </u>
	0.80	2	D					FORMATI	ON)	51011		÷÷
-	-										-	<u></u>
	-										ŀ	<u> </u>
	1 20-1.65	1	SPT	N=28							F	<u></u>
	1.30	3	D								F	<u> </u>
	-										ŀ	· <u>···</u> ·
	-							flint n	odule recovered as angular fragments	of grey	F	÷÷.
	-							and white r	inded flint at 1.50 mbgl.		F	· <u> </u>
											[<u> </u>
												<u></u> .
_											L	<u> </u>
	2 00-2.45 2 00	1	SPT D	N=19							Ļ	·
	-	1.									-	
	-										F	
	-										F	
	-										-	
	2.60	5	D								F	
	-										-(4.50)	
											Γ	ř.
_												<u> </u>
	3 00-3.45	1	SPT	N=17							Ļ	<u> </u>
	-										-	<u> </u>
	-										F	<u> </u>
	-										-	<u> </u>
	3.50	6	D								F	<u> </u>
	- 0.00	ľ									F	<u> </u>
	-										F	<u> </u>
	F										ŀ	
	Ĺ										Ĺ	<u> </u>
-	4 00-4.45	1	SPT	N=22							[<u> </u>
	[[·····
	Ļ										Ļ	<u> </u>
-	-										Ļ	<u>••••</u> ••
												• <u>•</u> ••
D.:				r			11	1				0

2		Drilling Pr	ogress and	Water Ol	oservations	i i			Con	aral	Domorko			
5	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter	Water Depth			Gen	erali	Remarks			
			(m)	(m)	(mm)	(m)		oundwater en ow sample ho		l with ari	sings.			
								All dimensions	in metres		Scale:	1:25		
	Method Used:		d windov npling	w Plar Use		emier 10	0	Drilled By:	KL	Logged By:	Johnson	Checked By:	AT	AGS



Contract Re					nnam	I 1			Bloor Homes		N N	/S109
			au,		nham 12.10.21	Group	d evel		National Grid Co-ordinate:	Sheet		10103
	9217	10				Cioun	103.			Oncor.		of 2
			<u> </u>		12.10.21		103.	90	E:553824.0 N:227066.5			
Progress Window R	_	Depth	-	oles / T Type	Results	Water	Backfill		Description of Strata		Depth (Thick	Materia Graphic Legeno
	4.5	•	7	D	results	>		Stiff to verv	stiff light brownish grey speckled whi	e slightly	ness)	- <u>-</u>
		5	l '					sandy grave	ly CLAY. Sand is fine to coarse.	Gravel is	-	
	ł							angular to FORMATIO	rounded chalk and flint. (LOW	ESTOFT	-	<u></u>
	Ī							(stratum cop	ied from 0.50m from previous sheet,		ſ	· · ·
	Ľ							becomin	g orangish brown at 4.70 mbgl.		5.00	• <u>-</u> •
		0-5.45	1	SPT	N=51				yellowish brown and orange fine to	medium	_	
	50	0-5.45	8	D				SAND.			-(0.45)	
	-										L Í	
	ŀ										- 5.45	
	ŀ							Window sam	nple hole terminated at 5.45 mbgl.		-	
	ŀ										F	
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D	rilling Pr	odress ar	nd W:	ater Oh	servations							
		Borehole			Borehole	Water	-1		General Remarks			
Data	Time	Depth (m)		asing Depth (m)	Diameter (mm)	Depth (m)						
Date		()										
Date		(,										

All dimensions in metres

KL

Drilled

By:

1:25

By:

Checked

AT

AGS

Scale:

By:

Logged TJohnson

Method

Used:

Tracked window

sampling

Plant

Used:

Premier 100



APPENDIX H GROUND GAS MONITORING DATA

<u>Monitoring</u> Date:	22/10/2021	Measurement (TOC / GL / TO		TOC		<u>Offset to</u> <u>GL</u> (m) <u>:</u>				0.22			
Pre-Testing Remarks	<u>S:</u>		Air Temperatur	e:		<u>or (iii).</u> 8		Device	-	Ga500	00		
Bung was dislodged	from borehole		°C Weather:			Cloudy		Sorial	umber:	Hh37()		
Duriy was usiouyeu	ITOITI DOTETIOIE		Ground Condit	ions:		Dry		Daily C		TIIISA	,		
				LIGHT / MED	IUM /		G	Duily C					
				applicable) High				Light NA					
			riddi Otato, (ii t		1 2011		- aniriq						
Exploratory Position	<u>ID:</u>	Bh03	Monitoring Rou	ind Number:	1			Test N	umber:	1			
Install Type: SINGL	e / Double	Single	<u>Pipe Ref</u> : 1) S Deep	hallow 2)	Shallo	w		Pipe Di Other	i <u>ameter:</u> 19 (mm))mm/ 40n	1m / 50m	m / 5	0
Time of			-			Gas tap		Single					
Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)		SINGLE DOUBLE							
Time Start (hh:mm)	09:37	09:37	1007		Obser	vations (e	.q. on-site	activities):					
Time End (hh:mm)	09:40	09:47											
Stage 1 Flow Readings	Stage 1 Flow Readings	Stage 2 Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)		ygen 5/vol)	Carl mono (pp	oxide	Hydroge sulphide (ppm)		LEL (%)		PID ppm)
Time of <u>flow</u> monitoring (sec)	Flow Reading (I/hr)	Time of <u>qas</u> monitoring (sec)				,	. T	,	ur est		()		
0	0	0	0.2	0.1	2	20.9	C)	0				
5	0	15	0.2	0.1	2	20.9	C)	0				
10	0	30	0.2	0.1	2	20.9	1		0				
15	0	60	0.2	0.1	2	20.9	1		0				
20	0	90	0.2	0	2	20.9	1		0				
25	0	120	0.2	0		21	1		0				
30		180	0.2	0		21	1		0				
40		240	0.2	0		21	1		0				
50		300	0.2	0		21	1		0				
60		360	0.2	0		21	1		0				
90		420	0.2	0		21	1		0				
120		480	0.2	0	2	21.1	1		0				
150		540	0.2	0	2	21.1	1		0				
180		600	0.2	0	2	21.1	1		0				
Stage 1 gas flow - Peak (I/h)	0			ould be recorded									
	0			intervals up to ur within 30 seco									
Steady State (I/h)	-		recorded during						-				
STAGE 3 WATER LEVEL	<u>Depth (from dat</u> (DTW):	<u>um) to water</u> (m)	9.75	<u>Time</u> :		09:37:00)	LNAPL	Top (from	datum) (<u>m):</u>		
OBSERVATION	Depth (from date		13.98	Purge Start:				DNAPL	Top (from	i datum) (<u>m):</u>		
	<u>base (DTB):</u> (m <u>Hole Purged:</u> Ye		No	Purge End:				Water	Observatio	ns:			
	Purge Volume: (Post-Purge									
				(DTW) (m)		Carry	Tele	N/	/ 1-	No			
·	r	- Top of Cover	(TOC)	Post testing rer	Harks:					No			
		- Ground Leve		Dung was did	adar 1	Sample			_	N/A			
		Top of Pipew	ork (TOP)	Bung was disk from boreh					_				
						Gas Can							
						Gas Can Dep							
		Depth to Water (DTW)				(from d		Sam	ple Ref	Type (E	W/G)	Cor	ntainer
		,/											
		Depth to Bas	e										
· · · · · ·		(DTB)		E 1 ·									
		Contract Na		Elsenham					ollected By	<i>[</i> :	Timothy	/ Coste	lio
	SK	Project Man	ager / Engineer	And	drew tr	anter		Checke	ed:				
		Contract Ret	f:	1921748				Page n	umber:				
				TPF210 Issu	ue 6								

<u>Monitoring</u> Date:	22/10/2021	Measurement TOC / GL / TO		TOC		<u>Offset to</u> <u>GL</u> (m):	<u>)</u>			0.22			
Pre-Testing Remark	<u>s:</u>		Air Temperatur	e:		<u>8</u>		Device		Ga500	0		
Bung was dislodged	from borehole		°C. Weather:			Cloudy	,	Serial N	lumber:	Hh370			
Dung was disloaged	lion borenoie		Ground Condit	ions [.]		Dry		Daily C		T III OT C	,		
				LIGHT / MED) NUM /		G	Duny O					
				applicable) High				Light NA					
			riddi Otato, (ii t		1 2011		- ann ra						
Exploratory Position	<u>ID:</u>	WS101	Monitoring Rou	ind Number:	1			<u>Test Nı</u>	<u>imber:</u>	1			
Install Type: SINGL	E / DOUBLE	Single	Pipe Ref: 1) S Deep	hallow 2)	Shallo	w		Pipe Di Other	<u>ameter:</u> 19 (mm))mm/ 40m	ım / 50m	m / 5	0
Time of						Gas tap	<u>)</u> :	Single					
Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)		SINGLE DOUBLI							
Time Start (hh:mm)	10:48	10:50	1009		Obser	vations (e	e.q. on-site	activities):					
Time End (hh:mm)	10:49	10:54											
Stage 1 Flow Readings	Stage 1 Flow Readings	Stage 2 Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)		kygen %/vol)	Carl mono (pp	oxide	Hydroge sulphide (ppm)	e	LEL (%)		PID ppm)
Time of <u>flow</u> monitoring (sec)	Flow Reading (I/hr)	Time of <u>qas</u> monitoring (sec)				,			w Poor		()	Ì	
0	0	0	0.2	0.1	2	21.3							
5	0	15	0.2	0.4	1	19.9							
10	0	30	0.2	0.4		20							
15	0	60	0.2	0.3	2	20.3							
20	0	90	0.2	0.3	2	20.5							
25	0	120	0.2	0.2	2	20.7							
30	0	180	0.2	0.2	2	20.8							
Stage 1 gas flow -	0			ould be recorded									
Peak (I/h)	0			intervals up to ur within 30 sec									
Stage 1 gas flow - Steady State (I/h)	0		recorded during			aminut	e. me ui	nerenua	pressure	reading (i	11 F a) 510	Juiu ais	0 De
STAGE 3	Depth (from date		0.55	<u>Time</u> :		09:37:00)	LNAPL	Top (from	datum) (r	<u>n):</u>		
WATER LEVEL OBSERVATION	(DTW): Depth (from date	(m) um) to well	3.02	Purge Start:				DNAPL	. Top (from	datum) (m):		
	base (DTB): (m)											
	Hole Purged: Ye		No	Purge End:				Water (Observatio	<u>ns:</u>			
	Purge Volume: (Itrs)		Post-Purge (DTW) (m)									
		- Top of Cover	(TOC)	Post testing rel	marks:	Samples	s Taken:	Yes	<u>/ No</u>	No			
		- Ground Leve				Sample	Media: C	Gas/Wat	er	N/A			
1		⁻ Top of Pipew		Bung was disk		Gas Car	nnister St	tart (mb)					
				ITOIN DOTEIN	ole	Gas Car	nnister Ei	<u>nd (mb)</u>					
							nnister D	uration (<u>mins)</u>				
		Depth to				De (from d		Sam	ple Ref	Type (E	W / G)	Cor	ntainer
		Water (DTW)											
	Depth to												
	Depth to (DTB)												
		Contract Na	me:	Elsenham		_		Data C	ollected By	<i>I</i> :	Timothy	Coste	llo
	SK	Project Man	ager / Engineer	And	drew tr	anter		Checke	ed:				
		Contract Re	f:	1921748				Page n	umber:				
				TPF210 Iss	ue 6						I		

<u>Monitoring</u> Date:	22/10/2021	Measurement TOC / GL / TO		TOC		<u>Offset to</u> <u>GL</u> (m) <u>:</u>				0.22			
Pre-Testing Remarks	<u>s:</u>		Air Temperatur	e:		<u>8</u>		Device		Ga500	00		
Bung was dislodged	from borehole		°C Weather:			Cloudy		Sorial	umber:	Hh370)		
Dung was dislodged	nom borenoie		Ground Condit	ions [.]		Dry		Daily C		111370	,		
				light / Med	dium /	-	G	Duily C	ino on.				
				applicable) High				Light NA					
			riddi Otato, (ii t				- aniriq						
Exploratory Position	<u>ID:</u>	WS105	Monitoring Rou	ind Number:	1			Test Ni	umber:	1			
Install Type: SINGL	e / Double	Single	Pipe Ref: 1) S Deep	hallow 2)	Shallo	w		Pipe Di Other	i <u>ameter:</u> 19 (mm))mm/ 40m	ım / 50m	m / 5	0
Time of						Gas tap		Single					
Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)		SINGLE DOUBLI							
Time Start (hh:mm)	11:12	11:14	1009		Obser	vations (e	.q. on-site	activities):					
Time End (hh:mm)	11:13	11:23											
Stage 1 Flow Readings	Stage 1 Flow Readings	Stage 2 Gas Monitoring:	Methane (%/vol)	Carbon Dioxide (%/vol)		ygen 5/vol)	Carl mono (pp	oxide	Hydroge sulphide (ppm)	e	LEL (%)		PID ppm)
Time of <u>flow</u> monitoring (sec)	Flow Reading (I/hr)	Time of <u>qas</u> monitoring (sec)				,	. T	,	ur est		()		
0	0	0	0.2	6.7	1	6.7							
5	0	15	0.2	6.9	1	5.3							
10	0	30	0.2	6.9	1	5.2							
15	0	60	0.2	6.9	1	5.2							
20	0	90	0.2	6.9	1	5.2							
25	0	120	0.2	6.9	1	5.2							
30	0	180	0.2	6.8	1	5.2							
40	0	240	0.2	6.8	1	5.2							
50	0	300	0.2	6.7	1	5.3							
60	0	360	0.2	6.7	1	5.3							
90		420	0.2	6.6	1	5.3							
120		480	0.2	6.5	1	5.4							
150		540	0.2	6.5	1	5.4							
180		600	0.2	6.4	1	5.4							
Stage 1 gas flow - Peak (I/h)	0			ould be recorded									
Stage 1 gas flow -	0			intervals up to ur within 30 seco									
Steady State (I/h)			recorded during									-	
STAGE 3 WATER LEVEL	Depth (from date (DTW):	<u>um) to water</u> (m)	DRY	<u>Time</u> :		09:37:00)	LNAPL	Top (from	datum) (i	<u>m):</u>		
OBSERVATION	Depth (from date	um) to well	4.99	Purge Start:				DNAPL	Top (from	i datum) (<u>m):</u>		
	<u>base (DTB):</u> (m <u>Hole Purged:</u> Ye		No	Purge End:				Water	Observatio	nc.			
	Purge Volume: (Post-Purge				Water		<u>113.</u>			
	r argo rolanio.	la oy		(DTW) (m)									
<u> </u>		- Top of Cover	(TOC)	Post testing re	marks:					No			
		- Ground Leve		Dure	- d- ·	Sample			_	N/A			
		Top of Pipew	ork (TOP)	Bung was disk from boreh					_				
						Gas Car							
						Gas Car De	nister D	-					
		Depth to Water (DTW)				(from d		Sam	ple Ref	Type (E	W/G)	Co	ntainer
	vvalei (b												
	Depth to												
		(DTB)		E 1 ·									
		Contract Na		Elsenham					ollected By	<i>[</i> :	Timothy	/ Coste	llo
	SK	Project Man	ager / Engineer	And	drew tr	anter		Checke	ed:				
		Contract Re	f:	1921748				Page n	umber:				
				TPF210 Iss	ue 6								

<u>Monitoring</u> Date:	26/10/2021	Measurement of TOC / GL / TO		TOC		<u>Offset to</u> <u>GL</u> (m) <u>:</u>				0.22			
Pre-Testing Remark	<u>s:</u>		Air Temperatur	e:		<u>8</u>		Device	<u>-</u>	Ga50	00		
			°C. <u>Weathe</u> r:		<u> </u>	Cloudy		Serial I	Number:	Hh37	0		
			Ground Condit	ions:		Dry		Daily C					
				LIGHT / MED	DIUM /	-	G						
			Tidal State: (if (applicable) Lligh		/ Dising /	Folling	Light NA					
				applicable) High		/ RISING /	Failing						
Exploratory Position	<u>ID:</u>	Bh03	Monitoring Rou	ind Number:	1			Test N	umber:	1			
Install Type: SINGL	E / DOUBLE	Single	<u>Pipe Ref</u> : 1) S Deep	hallow 2)	Shallo	w		<u>Pipe D</u> Other	i <u>ameter:</u> 19 (mm)	mm/ 40n	nm / 50mr	n/ 50	
Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)		<u>Gas tap</u> SINGLE DOUBLE	1	Single					
Time Start (hh:mm)	08:45	08:48	1005		<u>Obser</u>	vations (e	e.g. on-site	activities)					
Time End (hh:mm)	08:46	08:58											
Stage 1 Flow	Stage 1 Flow	Stage 2 Gas	Methane	Carbon	0)	kygen	Car	bon	Hydroge	n	LEL	Р	ID
Readings	Readings	Monitoring:	(0(h ol)	Dioxide			mono		sulphide		(0/)	(20	
Time of <u>flow</u> monitoring	Flow Reading (I/hr)	Time of <u>gas</u>	(%/vol)	(%/vol)	(7	%/vol)	(pp)	(ppm)		(%)	(pp	om)
(sec) 0	0	monitoring (sec)	0	0		20.5	0)	0				
5	0	15	0	0.7		20.2			0				
10	0	30	0	0.5		20.3			0				
15	0	60	0	0.4		20.5			0				
20	0	90	0	0.3		20.5			0				
25	0	120	0	0.0	<u> </u>	20.0		,	U				
30	0	120											
40	U	240											
50		300											
60		360											
90		420											
120		420											
120		480 540											
180		600											
Stage 1 gas flow - Peak (I/h)	0		30 second inte	ould be recorde rvals up to 3 mi ur within 30 sec	inutes o	or until ste	ady-stat	e readir	ngs are obta	ained. Ty	pically, ste	eady state	e
Stage 1 gas flow - Steady State (I/h)	0		recorded during			aminute	a. The uli	lerenua	i pressure i	leading (i	11 Pa) 510		Je
STAGE 3	Depth (from dat		9.8	<u>Time</u> :		08:58:00)	LNAPL	Top (from	datum) (<u>m):</u>		
WATER LEVEL OBSERVATION	(DTW): Depth (from date	(m)	14	Purge Start	-				_ Top (from	datum) ((m):		
	base (DTB): (m)	14							uatum/	<u></u>		
	Hole Purged: Y	es / No	No	Purge End:				Water	Observation	<u>ns:</u>			
	Purge Volume: (<u>(Itrs)</u>		Post-Purge (DTW) (m)	-								
		- Top of Cover		Post testi		Samples	Taken:	Yes	/ <u>No</u>	No			
		- Ground Leve		remarks	<u> </u>	Sample I	Media: G	Gas/Wat	er	N/A			
₹=-7		Top of Pipew				Gas Can	nister St	art (mb					
						Gas Can	nister Ei	nd (mb)					
						Gas Can	nister D	uration	(mins)				
		··· Depth to				Dep /from d		San	nple Ref	Type (I	EW / G)	Conta	ainer
		Water (DTW)				(from d	atulii)						
		and descent cases											
		Depth to Bas (DTB)	e										
		Contract Na	me:	Elsenham				Data C	ollected By	-	Timothy	Costello	
			ager / Engineer:		drew tr	anter		Check					
		Contract Ref		1921748					umber:				
		Condact Re		1321140				ragen	undel.				
				TPF210 lss	sue 6								

<u>Monitoring</u> Date:	26/10/2021	Measurement of TOC / GL / TOP		TOC		<u>Offset to</u> <u>GL</u> (m) <u>:</u>				0.22		
Pre-Testing Remark	<u>S:</u>	TOCTOLITO	Air Temperatur	e:		8		Device		Ga500	0	
No test completed			°C. <u>Weathe</u> r:			Cloudy		Serial N	lumber:	Hh370		
			Ground Condit	ons:		Dry		Daily C				
				LIGHT / MED) Mui		G					
			T. I. I. O. I					Light				
			Tidal State: (if a	applicable) High	I / Low	/ Rising /	Falling	NA				
Exploratory Position	ID:	WS101	Monitoring Rou	nd Number:	1			Test N	umber:			
Install Type: SINGL		Single	Pipe Ref: 1) S	hallow 2)	Shallo	w		Pine Di	ameter: 19	1 mm/ 40m	m / 50mr	n/ 50
		olingio	Deep	iailow 2)	Shallo			Other			117 John	
Time of				D:#		<u>Gas tap</u> SINGLE		Single				
Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)		DOUBLE						
Time Start (hh:mm)			1009		<u>Obser</u>	vations (e	.g. on-site	activities):				
Time End (hh:mm)												
Stage 1 Flow	Stage 1 Flow	Stage 2 Gas	Methane	Carbon	0	kygen	Carl	hon	Hydroge	n	LEL	PID
Readings	Readings	Monitoring:		Dioxide			mond		sulphide			
Time of <u>flow</u> monitoring		Time of <u>gas</u>	(%/vol)	(%/vol)	(%	/vol)	(pp	m)	(ppm)		(%)	(ppm)
(sec) 0	Flow Reading (I/hr)	monitoring (sec)										
					<u> </u>							ļ
5		15										
10		30										ļ
15		60										
20		90										
25		120										
30		180										
Stage 1 gas flow -	0											to 2 minutes an
Peak (I/h) Stage 1 gas flow -	0			rvals up to 3 mi ur within 30 sec								
Steady State (I/h)	0		recorded during			ammate	. mo un	loronad	proceduo	ouding (ii	, a) one	
STAGE 3	Depth (from dat		1.1	<u>Time</u> :		08:14:00		LNAPL	Top (from	datum) (n	<u>1):</u>	
WATER LEVEL OBSERVATION	(DTW): Depth (from date	(m) um) to well	3.02	Purge Start	-			DNAPL	. Top (from	datum) (r	n):	
	base (DTB): (m)										
	Hole Purged: Y		No	Purge End:				Water	Observation	ns:		
	Purge Volume: (<u>ltrs)</u>		Post-Purge (DTW) (m)	-							
		- Top of Cover	(TOC)	Post testir		Samples	Taken:	Yes	/ <u>No</u>	No		
		- Ground Level		remarks	-	Sample I	Media: G	as/Wat	er	N/A		
₹=7-+		Top of Pipew				Gas Can	nister St	art (mb				
						Gas Can	nister Er	nd (mb)				
						Gas Can	nister D	uration (mins)			
		- Depth to				Dep		Sarr	ple Ref	Type (E	W / G)	Container
		Water (DTW)				(from d	alum)			J - (-	.,	
		Depth to Bas (DTB)	e									
		Contract Na	ne	Elsenham				Data C	ollected By	-	Timothy	Costello
			ager / Engineer:		drew tr	antor		Checke	-	-		20000
					urew (antel					<u> </u>	
		Contract Ref	-	1921748				rage n	umber:			
				TPF210 Iss	sue 6							

<u>Monitoring</u> Date:	26/10/2021	Measurement of TOC / GL / TO		TOC		Offset to				0.22			
Pre-Testing Remark	<u>S:</u>	TUC/GL/TU	Air Temperatur	e:		<u>GL (m):</u> 8		Device	-	Ga500	0		
			°C. Weather:		-	Cloudy		Sorial	umber:	Hh370			
			Ground Condit	ions:	-	Dry		Daily C		HIISTU			
			Wind: NONE /		DIUM /	-	G		HOCK.				
								Light NA					
			Tidal State: (if a		II / LOW	/ RISING /	Failing						
Exploratory Position	ID:	WS105	Monitoring Rou	ind Number:	1			Test N	umber:	1			
Install Type: SINGL	.e / Double	Single	<u>Pipe Ref</u> : 1) Sl Deep	hallow 2)	Shallo	w		<u>Pipe D</u> Other	i <u>ameter:</u> 19 (mm))mm/ 40m	m / 50mr	n/ 5	0
Time of						Gas tap		Single				•	
Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb		SINGLE DOUBLE							
Time Start (hh:mm)	09:20	09:22	1009		Obser	vations (e	e.g. on-site	activities)					
Time End (hh:mm)	09:21	09:32											
Stage 1 Flow	Stage 1 Flow	Stage 2 Gas	Methane	Carbon	0)	kygen	Car	bon	Hydroge	n	LEL		PID
Readings	Readings	Monitoring:	(0) () = 1)	Dioxide	(0)	((, , ,))	mono		sulphide		(0/)		
Time of <u>flow</u> monitoring (sec)	Flow Reading (I/hr)	Time of <u>gas</u> monitoring (sec)	(%/vol)	(%/vol)	(7	6/vol)	(pp	(11)	(ppm)		(%)	a a	opm)
0	0	0	0	0	1	20.5							
5	0	15	0	5.2	1	16.4							
10	0	30	0	6.5	1	15.1							
15	0	60	0	6.6	1	14.8							
20	0	90	0	6.6		14.8							
25	0	120	0	6.6	1	14.8							
30	0	180											
40		240											
50		300											
60		360											
90		420											
120		480											
150		540											
180		600											
Stage 1 gas flow - Peak (I/h)	0		Note: Flow sho 30 second inte										
Stage 1 gas flow -	0		conditions occu	ur within 30 se									
Steady State (I/h) STAGE 3	Depth (from date	um) to water	recorded during	g this period. Time:		09:37:00			Top (from	datum) (n	a):	-	
WATER LEVEL	<u>(DTW)</u> :	(m)	DRT	<u>nine</u> .		09.37.00				<u>ualum) (n</u>	<u>1).</u>		
OBSERVATION	Depth (from date base (DTB): (m		4.99	Purge Star	<u>t</u> :			DNAPL	Top (from	i datum) (r	<u>n):</u>		
	Hole Purged: Y		No	Purge End	:			Water	Observatio	ns:_		1	
	Purge Volume: (<u>ltrs)</u>		Post-Purg									
			(70.0)	(DTW) (m) Post test		Samples	Taken:	Yes	/ <u>No</u>	No			
	_	- Top of Cover		remark	<u>s:</u>	Sample I	Media: C	Gas/Wat	er	N/A			
		 Ground Leve Top of Pipew 				Gas Can	nister St	tart (mb					
						Gas Can	nister E	nd (mb)					
						Gas Can	nister D	uration	(mins)				
		- Depth to				Dep (from d		Sam	ple Ref	Type (E	W / G)	Con	tainer
		Water (DTW)					aturi)						
	Depth to												
		Depth to Bas (DTB)	e										
		Contract Na	me:	Elsenham		•		Data C	ollected By	r.	Timothy	Costell	0
	SK	Project Mana	ager / Engineer:	A	ndrew tr	ranter		Checke	ed:				
		Contract Ref	f.	1921748				Page n	umber:				
				TPF210 Is	sue 6								

<u>Monitoring</u> Date:	01/11/2021	Measurement (TOC / GL / TO		TOC		<u>Offset to</u> <u>GL</u> (m):				0			
Pre-Testing Remarks	<u>s:</u>	1007 02710	Air Temperatur	e:		<u>6</u>		Device	<u>.</u>	Ga500	00		
			°C Weather:			Cloudy		Serial N	lumber:	Hh370)		
			Ground Conditi	ions:	<u> </u>	Dry		Daily C			,		
			Wind: LIGHT	<u></u>	L	2.7							
			Tidal State: (if a	applicable) High	/1.00	/ Dising /	Falling	Light NA					
								NA					
Exploratory Position	<u>ID:</u>	BH03	Monitoring Rou	nd Number:	3			Test Ni	<u>ımber:</u>	1			
Install Type: SINGL	E / DOUBLE	Single	<u>Pipe Ref</u> : 1) Sl Deep	hallow 2)	Deep			Pipe Di Other	<u>ameter:</u> 19 (mm))mm/ 40m	m / 50m	m / 50)
Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)		Gas tap SINGLE		Single					
Time Start (hh:mm)	10:37	10:40	998		<u>Obser</u>	vations (e	e q. on-site	activities)					
Time End (hh:mm)	10:38	10:51											
Stage 1 Flow	Stage 1 Flow	Stage 2 Gas	Methane	Carbon	O	kygen	Cart		Hydroge		LEL		PID
Readings	Readings	Monitoring:	(%/vol)	Dioxide (%/vol)	(%	%/vol)	mono (pp		sulphide (ppm)		(%)	(opm)
Time of <u>flow</u> monitoring (sec)	Flow Reading (I/hr)	Time of <u>das</u> monitoring (sec)											
0	0	0	0.2	0.1		21	0)					
5	0	15	0.2	0.1		21	0)					
10	0	30	0.2	0.1		21	0)					
15	0	60	0.2	0		21	0)					
20	0	90	0.2	0	2	20.9	0)					
25	0	120	0.2	0	2	20.9	0)					
30	0	180	0.2	0	2	20.9	0)					
40	0	240	0.2	0	2	20.9	0)					
50	0	300	0.2	0	2	20.9	0)					
60	0	360	0.2	0	2	20.9	0)					
90		420	0.2	0		21	0)					
120		480	0.2	0		21	0)					
<mark>1</mark> 50		540	0.2	0	2	21.1	0)					
180		600	0.2	0	2	21.1	0)					
Stage 1 gas flow - Peak (I/h)	0			uld be recorded									
Stage 1 gas flow -	0			intervals up to ar within 30 sec									
Steady State (I/h)			recorded during										
STAGE 3 WATER LEVEL	Depth (from date (DTW):	<u>um) to water</u> (m)	9.79	<u>Time</u> :		10:52:00)	LNAPL	Top (from	datum) (r	<u>n):</u>		
OBSERVATION	Depth (from date base (DTB): (m		13.97	Purge Start	-			DNAPL	. Top (from	ı datum) (ı	<u>m):</u>		
	Hole Purged: Y		No	Purge End:				Water (Observatio	ns:		•	
	Purge Volume: (itrs)		Post-Purge (DTW) (m)	-								
			Tac	Post testir	ng	Samples	Taken:	Yes	<u>/ No</u>	No			
	.	- Top of Cover		remarks	<u>.</u>	Sample	Media: G	as/Wat	er	N/A			
		 Ground Leve Top of Pipew 		Aborted after	er 3	Gas Car	nnister St	art (mb)		1.4// (
		iop of ripew		minutes due to inake	o water	Gas Car	nnister Er	nd (mb)					
				Indico		Gas Car	nister D	uration (mins)				
		Denth to				De		Sam	ple Ref	Type (E	W / G)	Con	tainer
		 Depth to Water (DTW) 				(from d	latum)			21 1			
		Depth to Bas	e										
		- (DTB)	_	Elsenham				Data C	ollected By	/:	Timoth	/ Costel	ю
	SK		ager / Engineer:		drew tr	anter		Checke	-				
		Contract Re		1921748		-		Page n					
								i aye ii	amber.				
				TPF210 lss	ue 6								

<u>Monitoring</u> Date:	01/11/2021	Measurement (TOC / GL / TO		TOC		<u>Offset to</u> <u>GL</u> (m) <u>:</u>				0			
Pre-Testing Remark	<u>S:</u>	TOUTOLITO	Air Temperatur	e:		<u>6</u>		Device	<u>:</u>	Ga500	00		
			°C. Weather:			Cloudy		Serial N	Number:	Hh370)		
			Ground Condit	ions [.]		Dry		Daily C			,		
			Wind: LIGHT	<u> </u>		2.1							
								Light					
			Tidal State: (if a	applicable) High	n / Low	/ Rising /	Falling	NA					
Exploratory Position	ID:	WS101	Monitoring Rou	ind Number:	3			Test N	umber:	4			
Install Type: SINGL	E / DOUBLE	Single	Pipe Ref: 1) S	hallow 2)	Shallo	w		Pipe Di	ameter: 19)mm/ 40m	m / 50m	m/ 32	
Time of		_	Deep	-		O t		Other	(mm)				
Time of Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb))	<u>Gas tap</u> SINGLE		Single					
Time Start (hh:mm)	10:07	10:10	998		Obser	vations (e	.q. on-site	activities)					
Time End (hh:mm)	10:08	10:21											
Stage 1 Flow	Stage 1 Flow	Stage 2 Gas	Methane	Carbon	0)	kygen	Cart		Hydroge		LEL	PID	
Readings	Readings	Monitoring:	(%/vol)	Dioxide (%/vol)	(9)	6/vol)	mono (pp		sulphide (ppm)	e	(%)	(ppm)	
Time of <u>flow</u> monitoring (sec)	Flow Reading (I/hr)	Time of <u>qas</u> monitoring (sec)	(/0.101)	(/0/101)			(PP	,	(PP)		(,)	(PP)	
0	0	0	0.2	0.3	1	21.2	0)				L	
5	0	15	0.2	0.2		21	0)					
10	0	30	0.2	0.2		21	0)					
15	0	60	0.2	0.2		21	0)					
20	0	90	0.2	0.1	2	21.1	0)					
25	0	120	0.2	0.1		21.1	0						
30	0	180	0.2	0.1		21.1	0						
40	0	240	0.2	0.1		21.1	0						
50	0	300	0.2	0.1		21.2	0						
60	0		0.2	0		21.2	0						
90 120			0.2	0		21.2	0						
120		480 540	0.2	0		21.2 21.1	0						
130			0.2	0		21.1	0						
Stage 1 gas flow -	0	000	Note: Flow sho	_					seconds 1	0 second	intorvals	to 2 minutes	c
Peak (l/h)	0		and 30 second	intervals up to	3 minu	tes or unt	til steady	-state re	eadings are	e obtained	. Typical	y, steady sta	
Stage 1 gas flow - Steady State (I/h)	0		conditions occu recorded during		onds to	a minute	e. The dif	ferentia	l pressure i	reading (ir	n Pa) sho	ould also be	
STAGE 3	Depth (from dat		1.22	Time:		10:22:00)	LNAPL	Top (from	datum) (n	n):	1	
WATER LEVEL OBSERVATION	(DTW): Depth (from date	(m) um) to well	3.02	Purge Start	+-			DNAPI	_ Top (from	datum) (r	n) [.]		
	base (DTB): (m)			-								
	Hole Purged: Y		No	Purge End: Post Purgo				vvater	Observatio	115.			
	Purge Volume: (<u>ius)</u>		Post-Purge (DTW) (m)									
		- Top of Cover	(TOC)	Post testi remarks		Samples				No			
		- Ground Leve				Sample				N/A			
		[–] Top of Pipew	ork (TOP)	Aborted aft minutes due to		Gas Can							
				inake		Gas Can							
		-				Gas Can Dep		-					
· · · · ·		 Depth to Water (DTW) 				(from d		San	nple Ref	Type (E	W / G)	Containe	эг
		Depth to Bas	e										
		(DTB) Contract Na	me [.]	Elsenham				Data C	ollected By	r	Timoth	/ Costello	
			ager / Engineer:		ndrew tr	anter		Checke	-			2.000	
	SK	Contract Re		1921748					umber:				
								, age fi	ambol.				
				TPF210 lss	sue 6								

<u>Monitoring</u> Date:	22/10/2021	Measurement (TOC / GL / TO		TOC		<u>Offset to</u> <u>GL</u> (m):				0			
Pre-Testing Remark	<u>s:</u>	TOUT OL TTO	Air Temperatur	e:		<u>01 (iii).</u> 10		Device	<u>.</u>	Ga500	00		
			°C <u>Weathe</u> r:			Cloudy	,	Serial N	lumber:	Hh370)		
			Ground Conditi	ons:		Dry		Daily C		111370			
				Light / Med	NUM /	-	G	Duny O					
			Tidal State: (if a	applicable) High	/Low	/ Risina /	Falling	Light NA					
Exploratory Position		Ws105	<u>Monitoring Rou</u>		1			<u>Test Nı</u>		1			
Install Type: SINGL	E / DOUBLE	Single	<u>Pipe Ref</u> : 1) SI Deep	nallow 2)	Shallo	w		Other	<u>ameter:</u> 19 (mm))mm/ 40m	m / 50m	m / 32	2
Time of				D.77 ()		Gas tap		Single					
Monitoring (hh:mm)	Flow readings	Gas readings	Atmospheric Pressure (mb)	Differential Pressure (mb)		Single Doubli							
Time Start (hh:mm)	11:12	11:14	1009		Obser	vations (e	e q. on-site	activities):					
Time End (hh:mm)	11:13	11:23											
Stage 1 Flow	Stage 1 Flow	Stage 2 Gas	Methane	Carbon	Ox	vgen	Cart	oon	Hydroge	en	LEL		PID
Readings	Readings	Monitoring:		Dioxide			mono	oxide	sulphid	e			
Time of <u>flow</u> monitoring (sec)	Flow Reading (I/hr)	Time of <u>das</u> monitoring (sec)	(%/vol)	(%/vol)	(%	/vol)	(pp	m)	(ppm)		(%)	(opm)
0	0	0	0.2	6.7	1	6.7	2	2	0				
5	0	15	0.2	6.9	1	5.3	2	2	0				
10	0	30	0.2	6.9	1	5.2	1		0				
15	0	60	0.2	6.9	1	5.2	1		0				
20	0	90	0.2	6.9	1	5.2	1		0				
25	0	120	0.2	6.9	1	5.2	1		0				
30	0	180	0.2	6.8	1	5.2	1		0				
40	0	240	0.2	6.8	1	5.2	1		0				
50	0	300	0.2	6.7	1	5.3	1		0				
60	0	360	0.2	6.7	1	5.3	1		0				
90		420	0.2	6.6	1	15.3	1		0				
120		480	0.2	6.5	1	5.4	1		0				
150		540	0.2	6.5	1	5.4	1		0				
180		600	0.2	6.4	1	5.4	1		0				
Stage 1 gas flow - Peak (I/h)	0		Note: Flow sho and 30 second										
Stage 1 gas flow -	0		conditions occu	ir within 30 seco									
Steady State (I/h)	Death (from dat		recorded during			40.55.00			Tan (fram	datum) (n	-	-	
STAGE 3 WATER LEVEL	Depth (from date (DTW):	(m) (m)	DRY	<u>Time</u> :		10:55:00		LNAPL	Top (from	dalum) (r	<u>n).</u>		
OBSERVATION	<u>Depth (from date</u> <u>base (DTB):</u> (m		4.99	Purge Start				DNAPL	. Top (from	n datum) (i	<u>n):</u>		
	Hole Purged: Y		No	Purge End:				Water (Observatio	ns:		•	
	Purge Volume: (<u>ltrs)</u>		Post-Purge (DTW) (m)	-								
		Ten (C		Post testir	_	Samples	Taken:	Yes	/ <u>No</u>	No			
	J	- Top of Cover - Ground Leve		<u>remarks</u> :		Sample	Media: G	as/Wat	<u>ər</u>	N/A			
		 Top of Pipew 	•			Gas Can	nnister St	art (mb))				
		6 6	1650 Do			Gas Can	nnister Ei	nd (mb)					
						Gas Can	nnister D	uration (mins)				
		- Depth to				Dep (from d		Sam	ple Ref	Type (E	W / G)	Con	tainer
		Water (DTW)											
		Depth to Bas	e										
				Elsenham				Data C	ollected By	/:	Timothy	Costel	lo
R	SK	Project Man	ager / Engineer:	An	drew tr	anter		Checke	ed:				
		Contract Re	f:	1921748				Page n	umber:				
				TPF210 lss	ue 6								



APPENDIX I LABORATORY CERTIFICATES FOR SOIL ANALYSIS



FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: Issue Number: 21/11221

1

Date: 28 October, 2021

Client:

RSK Environment Ltd Hemel 18 Frogmore Road Hemel Hempstead Hertfordshire UK HP3 9RT

Project Manager: Project Name: Project Ref: Order No: Date Samples Received: Date Instructions Received: Date Analysis Completed:

Andrew Tranter Elsenham Phase II 1921748 N/A 12/10/21 15/10/21 28/10/21

Prepared by:

Melanie Marshall Laboratory Coordinator Approved by:

Danielle Brierley Deputy Client Services Supervisor



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Client Project Name: Elsenham Phase II

Lab Sample ID	21/11221/1	21/11221/2	21/11221/3	21/11221/4	21/11221/5	21/11221/6	21/11221/7			
Client Sample No										
Client Sample ID	WS101	WS105	WS107	TP101	TP102	TP103	TP104			
Depth to Top	0.30	0.30	0.50	0.20	0.20	0.20	0.20			
Depth To Bottom									ion	
Date Sampled	12-Oct-21	12-Oct-21	11-Oct-21	08-Oct-21	08-Oct-21	08-Oct-21	08-Oct-21		Limit of Detection	¥
Sample Type	Soil	<i>"</i>	t of D	Method ref						
Sample Matrix Code	6AE	6AE	6AE	4AE	4AE	6AE	6AE	Units	Limi	Meth
% Stones >10mm _A	5.5	<0.1	34.8	30.1	31.7	<0.1	<0.1	% w/w	0.1	A T 044
pH₀ ^{M#}	8.41	5.70	8.29	7.91	7.59	-	-	рН	0.01	A T 031s
Arsenic _D ^{M#}	4	<1	3	3	<1	-	-	mg/kg	1	A T 024s
Cadmium _D ^{M#}	2.2	1.9	1.9	1.2	0.8	-	-	mg/kg	0.5	A T 024s
Copper _D ^{M#}	27	22	59	15	11	-	-	mg/kg	1	A T 024s
Chromium _D ^{M#}	26	22	20	13	8	-	-	mg/kg	1	A T 024s
Lead _D ^{M#}	21	19	29	24	13	-	-	mg/kg	1	A T 024s
Mercury _D	0.26	<0.17	0.76	<0.17	<0.17	-	-	mg/kg	0.17	A T 024s
Nickel ^{d##}	23	17	24	10	8	-	-	mg/kg	1	A T 024s
Selenium _D ^{M#}	<1	<1	<1	<1	<1	-	-	mg/kg	1	A T 024s
Zinc _D ^{M#}	56	45	36	39	25	-	-	mg/kg	5	A T 024s



Client Project Name: Elsenham Phase II

						ject Kel. 13				
Lab Sample ID	21/11221/1	21/11221/2	21/11221/3	21/11221/4	21/11221/5	21/11221/6	21/11221/7			
Client Sample No										
Client Sample ID	WS101	WS105	WS107	TP101	TP102	TP103	TP104			
Depth to Top	0.30	0.30	0.50	0.20	0.20	0.20	0.20			
Depth To Bottom									ion	
Date Sampled	12-Oct-21	12-Oct-21	11-Oct-21	08-Oct-21	08-Oct-21	08-Oct-21	08-Oct-21		etect	÷
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil		Limit of Detection	Method ref
Sample Matrix Code	6AE	6AE	6AE	4AE	4AE	6AE	6AE	Units	Limit	Meth
Asbestos in Soil (inc. matrix)										
Asbestos in soil _D #	NAD	NAD	NAD	NAD	NAD	-	-			A T 045
Asbestos Matrix (visual)⊳	-	-	-	-	-	-	-			A T 045
Asbestos Matrix (microscope)₀	-	-	-	-	-	-	-			A T 045
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	N/A	N/A	N/A	N/A	-	-			A T 045
• -									<u> </u>	<u> </u>
OCP+OPP Combined Pest Suite (incl. Atrazine and Simazine)										
Dichlobenil _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Tecnazene _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Trifluralin₄	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
alpha-Hexachlorocyclohexane (HCH) _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Hexachlorobenzene (HCB) _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Simazine _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Atrazine _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
beta-Hexachlorocyclohexane (HCH)₄	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Quintozene (PCNB) _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Chlorothalonil _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
delta-Hexachlorocyclohexane (HCH)A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Triallate₄	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Heptachlor _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Aldrin _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Triadimefon _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Telodrin _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
lsodrin _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Pendimethalin _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Heptachlor epoxide _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
trans-Chlordane (Gamma) _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
o,p-DDE (2,4)A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Endosulphan I (Alpha)₄	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
cis-Chlordane (Alpha)₄	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
p,p-DDE (4,4) _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Dieldrin _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056



Client Project Name: Elsenham Phase II

					-	ject Ref: 19				
Lab Sample ID	21/11221/1	21/11221/2	21/11221/3	21/11221/4	21/11221/5	21/11221/6	21/11221/7			
Client Sample No										
Client Sample ID	WS101	WS105	WS107	TP101	TP102	TP103	TP104			
Depth to Top	0.30	0.30	0.50	0.20	0.20	0.20	0.20			Í
Depth To Bottom									Ľ	Í
Date Sampled	12-Oct-21	12-Oct-21	11-Oct-21	08-Oct-21	08-Oct-21	08-Oct-21	08-Oct-21		tectic	Í
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil		of De	d ref
Sample Matrix Code	6AE	6AE	6AE	4AE	4AE	6AE	6AE	Units	Limit of Detection	Method ref
o,p-DDD (2,4) _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Endrin _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Endosulphan II (Beta) _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
p,p-DDD (4,4) _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
o,p-DDT (2,4)₄	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Endrin Aldehyde₄	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Endrin Ketone _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Endosulphan Sulphate₄	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
p,p-DDT (4,4) _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
o,p-Methoxychlor _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
p,p-Methoxychlor _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Permethrin I (cis) _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Permethrin II (trans) _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Dichlorvos _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Mevinphos _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Demeton-S _A	-	-	-	-	-	<0.50	<0.50	mg/kg	0.5	A T 056
Demeton-O _A	-	-	-	-	-	<0.50	<0.50	mg/kg	0.5	A T 056
Phorate₄	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Dimethoate _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Propetamphos _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Diazinon (Dimpylate) _≜	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Disulfoton _A	-	-	-	-	-	<0.10	<0.10	mg/kg	0.1	A T 056
Chlorpyrifos-methyl _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Parathion (Ethyl Parathion)	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Methyl Parathion _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Pirimiphos-methyl _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Fenitrothion _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Fensulphothion _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Fenthion _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Malathion _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Chlorfenvinphos _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Chlorpyrifos _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Trichloronate _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Prothiofos (Tokuthion) _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056



Client Project Name: Elsenham Phase II

					Client Pro	ject Ref: 19	21748			
Lab Sample ID	21/11221/1	21/11221/2	21/11221/3	21/11221/4	21/11221/5	21/11221/6	21/11221/7			
Client Sample No										
Client Sample ID	WS101	WS105	WS107	TP101	TP102	TP103	TP104			
Depth to Top	0.30	0.30	0.50	0.20	0.20	0.20	0.20			
Depth To Bottom									ion	
Date Sampled	12-Oct-21	12-Oct-21	11-Oct-21	08-Oct-21	08-Oct-21	08-Oct-21	08-Oct-21		etect	*
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	<i>•</i>	Limit of Detection	Method ref
Sample Matrix Code	6AE	6AE	6AE	4AE	4AE	6AE	6AE	Units	Limit	Meth
Ethion _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Triazophos _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Carbophenothion _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Phosalone _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Azinphos-methyl _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Azinphos-ethyl _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056
Coumaphos _A	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A T 056



Client Project Name: Elsenham Phase II

Lab Sample ID	21/11221/1	21/11221/2	21/11221/3	21/11221/4	21/11221/5	21/11221/6	21/11221/7			
Client Sample No										
Client Sample ID	WS101	WS105	WS107	TP101	TP102	TP103	TP104			
Depth to Top	0.30	0.30	0.50	0.20	0.20	0.20	0.20			
Depth To Bottom									ion	
Date Sampled	12-Oct-21	12-Oct-21	11-Oct-21	08-Oct-21	08-Oct-21	08-Oct-21	08-Oct-21		etect	if
Sample Type	Soil		Limit of Detection	Method ref						
Sample Matrix Code	6AE	6AE	6AE	4AE	4AE	6AE	6AE	Units	Limit	Meth
PAH-16MS										
Acenaphthene₄ ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	mg/kg	0.01	A T 019s
Acenaphthylene₄ ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	mg/kg	0.01	A T 019s
Anthracene _A ^{M#}	<0.02	0.04	0.06	0.03	<0.02	-	-	mg/kg	0.02	A T 019s
Benzo(a)anthracene ^{AM#}	0.08	0.16	0.24	0.16	0.04	-	-	mg/kg	0.04	A T 019s
Benzo(a)pyrene _A ^{M#}	0.10	0.17	0.27	0.18	0.06	-	-	mg/kg	0.04	A T 019s
Benzo(b)fluoranthene _A ^{M#}	0.09	0.17	0.28	0.17	0.05	-	-	mg/kg	0.05	A T 019s
Benzo(ghi)perylene _A ^{M#}	<0.05	0.09	0.12	0.09	<0.05	-	-	mg/kg	0.05	A T 019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	<0.07	0.13	0.09	<0.07	-	-	mg/kg	0.07	A T 019s
Chrysene _A ^{M#}	0.11	0.18	0.30	0.20	<0.06	-	-	mg/kg	0.06	A T 019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	mg/kg	0.04	A T 019s
Fluoranthene _A ^{M#}	0.15	0.32	0.48	0.30	0.08	-	-	mg/kg	0.08	A T 019s
Fluorene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	mg/kg	0.01	A T 019s
Indeno(123-cd)pyrene _A ^{M#}	0.06	0.10	0.15	0.09	<0.03	-	-	mg/kg	0.03	A T 019s
Naphthalene A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	-	-	mg/kg	0.03	A T 019s
Phenanthrene _A ^{M#}	0.06	0.13	0.15	0.11	<0.03	-	-	mg/kg	0.03	A T 019s
Pyrene _A ^{M#}	0.14	0.27	0.46	0.26	0.08	-	-	mg/kg	0.07	A T 019s
Total PAH-16MS₄ ^{M#}	0.79	1.63	2.64	1.68	0.31	-	-	mg/kg	0.01	A T 019s



Client Project Name: Elsenham Phase II

Lab Sample ID	21/11221/1	21/11221/2	21/11221/3	21/11221/4	21/11221/5	21/11221/6	21/11221/7			
Client Sample No										
Client Sample ID	WS101	WS105	WS107	TP101	TP102	TP103	TP104			
Depth to Top	0.30	0.30	0.50	0.20	0.20	0.20	0.20			
Depth To Bottom									uo	
Date Sampled	12-Oct-21	12-Oct-21	11-Oct-21	08-Oct-21	08-Oct-21	08-Oct-21	08-Oct-21		tecti	
Sample Type	Soil		of De	od rei						
Sample Matrix Code	6AE	6AE	6AE	4AE	4AE	6AE	6AE	Units	Limit of Detection	Method ref
трн сwg										
Ali >C5-C6 _A #	-	-	-	<0.01	<0.01	-	-	mg/kg	0.01	A T 022s
Ali >C6-C8 _A [#]	-	-	-	<0.01	<0.01	-	-	mg/kg	0.01	A T 022s
Ali >C8-C10 _A	-	-	-	<1	<1	-	-	mg/kg	1	A T 055s
Ali >C10-C12 _A ^{M#}	-	-	-	<1	<1	-	-	mg/kg	1	A T 055s
Ali >C12-C16 _A ^{M#}	-	-	-	<1	<1	-	-	mg/kg	1	A T 055s
Ali >C16-C21₄ ^{M#}	-	-	-	<1	<1	-	-	mg/kg	1	A T 055s
Ali >C21-C35₄ ^{M#}	-	-	-	2	2	-	-	mg/kg	1	A T 055s
Total Aliphatics _A	-	-	-	2	2	-	-	mg/kg	1	A T 055s
Aro >C5-C7 _A [#]	-	-	-	<0.01	<0.01	-	-	mg/kg	0.01	A T 022s
Aro >C7-C8 _A [#]	-	-	-	<0.01	<0.01	-	-	mg/kg	0.01	A T 022s
Aro >C8-C10 _A	-	-	-	<1	<1	-	-	mg/kg	1	A T 055s
Aro >C10-C12 _A	-	-	-	<1	<1	-	-	mg/kg	1	A T 055s
Aro >C12-C16 _A	-	-	-	<1	<1	-	-	mg/kg	1	A T 055s
Aro >C16-C21 _A ^{M#}	-	-	-	2	1	-	-	mg/kg	1	A T 055s
Aro >C21-C35 ^{AM#}	-	-	-	5	5	-	-	mg/kg	1	A T 055s
Total Aromatics _A	-	-	-	8	8	-	-	mg/kg	1	A T 055s
TPH (Ali & Aro >C5-C35)₄	-	-	-	10	10	-	-	mg/kg	1	A T 055s
BTEX - Benzene ^{"#}	-	-	-	<0.01	<0.01	-	-	mg/kg	0.01	A T 022s
BTEX - Toluene _A #	-	-	-	<0.01	<0.01	-	-	mg/kg	0.01	A T 022s
BTEX - Ethyl Benzene _A #	-	-	-	<0.01	<0.01	-	-	mg/kg	0.01	A T 022s
BTEX - m & p Xylene _A #	-	-	-	<0.01	<0.01	-	-	mg/kg	0.01	A T 022s
BTEX - o Xylene _A #	-	-	-	<0.01	<0.01	-	-	mg/kg	0.01	A T 022s
MTBE _A #	-	-	-	<0.01	<0.01	-	-	mg/kg	0.01	A T 022s



Client Project Name: Elsenham Phase II

Lab Sample ID	21/11221/8						
Client Sample No							
Client Sample ID	TP105						
Depth to Top	0.20						
Depth To Bottom						ion	
Date Sampled	08-Oct-21					etect	if
Sample Type	Soil					Limit of Detection	Method ref
Sample Matrix Code	4AE				Units	Limit	Meth
% Stones >10mm₄	<0.1				% w/w	0.1	A T 044
pH₀ ^{M#}	-				рН	0.01	A T 031s
Arsenic ^{D^{M#}}	-				mg/kg	1	A T 024s
Cadmium _D ^{M#}	-				mg/kg	0.5	A T 024s
Copper _D ^{M#}	-				mg/kg	1	A T 024s
Chromium _D ^{M#}	-				mg/kg	1	A T 024s
Lead _D ^{M#}	-				mg/kg	1	A T 024s
Mercury _D	-				mg/kg	0.17	A T 024s
Nickel ^{D^{M#}}	-				mg/kg	1	A T 024s
Selenium _D ^{M#}	-				mg/kg	1	A T 024s
Zinc _D ^{M#}	-				mg/kg	5	A T 024s



Client Project Name: Elsenham Phase II

		 	 Client Pro	 -			
Lab Sample ID	21/11221/8						
Client Sample No							
Client Sample ID	TP105						
Depth to Top	0.20						
Depth To Bottom						uo	
Date Sampled	08-Oct-21					etecti	_
Sample Type	Soil					of D	od re
Sample Matrix Code	4AE				Units	Limit of Detection	Method ref
Asbestos in Soil (inc. matrix)							
Asbestos in soil _b #	-						A T 045
Asbestos Matrix (visual) _D	-						A T 045
Asbestos Matrix (microscope) _D	-						A T 045
Asbestos ACM - Suitable for Water Absorption Test? _D	-						A T 045
OCP+OPP Combined Pest Suite (incl. Atrazine and Simazine)							
DichlobenilA	<0.01				mg/kg	0.01	A T 056
Tecnazene₄	<0.01				mg/kg	0.01	A T 056
Trifluralin _A	<0.01				mg/kg	0.01	A T 056
alpha-Hexachlorocyclohexane (HCH) _A	<0.01				mg/kg	0.01	A T 056
Hexachlorobenzene (HCB) _A	<0.01				mg/kg	0.01	A T 056
Simazine _A	<0.01				mg/kg	0.01	A T 056
Atrazine _A	<0.01				mg/kg	0.01	A T 056
beta-Hexachlorocyclohexane (HCH) _A	<0.01				mg/kg	0.01	A T 056
Quintozene (PCNB)₄	<0.01				mg/kg	0.01	A T 056
Chlorothalonil _A	<0.01				mg/kg	0.01	A T 056
delta-Hexachlorocyclohexane (HCH) _A	<0.01				mg/kg	0.01	A T 056
Triallate₄	<0.01				mg/kg	0.01	A T 056
Heptachlor _A	<0.01				mg/kg	0.01	A T 056
Aldrin _A	<0.01				mg/kg	0.01	A T 056
Triadimefon _A	<0.01				mg/kg	0.01	A T 056
Telodrin₄	<0.01	 			mg/kg	0.01	A T 056
lsodrin _A	<0.01	 			mg/kg	0.01	A T 056
Pendimethalin _A	<0.01		 		mg/kg	0.01	A T 056
Heptachlor epoxide _A	<0.01		 		mg/kg	0.01	A T 056
trans-Chlordane (Gamma) _A	<0.01				mg/kg	0.01	A T 056
o,p-DDE (2,4)A	<0.01				mg/kg	0.01	A T 056
Endosulphan I (Alpha) _A	<0.01				mg/kg	0.01	A T 056
cis-Chlordane (Alpha) _≜	<0.01				mg/kg	0.01	A T 056
p,p-DDE (4,4) _A	<0.01				mg/kg	0.01	A T 056
Dieldrin _A	<0.01				mg/kg	0.01	A T 056



Client Project Name: Elsenham Phase II

				ject kei. 19			
Lab Sample ID	21/11221/8						
Client Sample No							
Client Sample ID	TP105						
Depth to Top	0.20						
Depth To Bottom						ion	
Date Sampled	08-Oct-21					etecti	.
Sample Type	Soil					of D	od re
Sample Matrix Code	4AE				Units	Limit of Detection	Method ref
o,p-DDD (2,4) _A	<0.01				mg/kg	0.01	A T 056
Endrin _A	<0.01				mg/kg	0.01	A T 056
Endosulphan II (Beta) _≜	<0.01				mg/kg	0.01	A T 056
p,p-DDD (4,4) _A	<0.01				mg/kg	0.01	A T 056
o,p-DDT (2,4) _A	<0.01				mg/kg	0.01	A T 056
Endrin Aldehyde _A	<0.01				mg/kg	0.01	A T 056
Endrin Ketone₄	<0.01				mg/kg	0.01	A T 056
Endosulphan Sulphate₄	<0.01				mg/kg	0.01	A T 056
p,p-DDT (4,4) _A	<0.01				mg/kg	0.01	A T 056
o,p-Methoxychlor₄	<0.01				mg/kg	0.01	A T 056
p,p-Methoxychlor _A	<0.01				mg/kg	0.01	A T 056
Permethrin I (cis) _A	<0.01				mg/kg	0.01	A T 056
Permethrin II (trans) _A	<0.01				mg/kg	0.01	A T 056
Dichlorvos _A	<0.01				mg/kg	0.01	A T 056
Mevinphos _A	<0.01				mg/kg	0.01	A T 056
Demeton-S _A	<0.50				mg/kg	0.5	A T 056
Demeton-O _A	<0.50				mg/kg	0.5	A T 056
Phorate _A	<0.01				mg/kg	0.01	A T 056
Dimethoate _A	<0.01				mg/kg	0.01	A T 056
Propetamphos _A	<0.01				mg/kg	0.01	A T 056
Diazinon (Dimpylate) _A	<0.01				mg/kg	0.01	A T 056
Disulfoton _A	<0.10				mg/kg	0.1	A T 056
Chlorpyrifos-methyl _A	<0.01				mg/kg	0.01	A T 056
Parathion (Ethyl Parathion) _A	<0.01				mg/kg	0.01	A T 056
Methyl Parathion _A	<0.01				mg/kg	0.01	A T 056
Pirimiphos-methyl _A	<0.01				mg/kg	0.01	A T 056
Fenitrothion _A	<0.01				mg/kg	0.01	A T 056
Fensulphothion _A	<0.01				mg/kg	0.01	A T 056
Fenthion _A	<0.01				mg/kg	0.01	A T 056
MalathionA	<0.01	 			mg/kg	0.01	A T 056
Chlorfenvinphos _A	<0.01				mg/kg	0.01	A T 056
Chlorpyrifos₄	<0.01				mg/kg	0.01	A T 056
Trichloronate _A	<0.01				mg/kg	0.01	A T 056
Prothiofos (Tokuthion) _A	<0.01				mg/kg	0.01	A T 056



Client Project Name: Elsenham Phase II

Client	Project	Ref:	1921748
Olicili	1 10,000		1021140

Lab Sample ID	21/11221/8						
Client Sample No							
Client Sample ID	TP105						
Depth to Top	0.20						
Depth To Bottom						ion	
Date Sampled	08-Oct-21					Limit of Detection	ير ا
Sample Type	Soil				ú	t of D	Method ref
Sample Matrix Code	4AE				Units	Limi	Meth
Ethion _A	<0.01				mg/kg	0.01	A T 056
Triazophos _A	<0.01				mg/kg	0.01	A T 056
Carbophenothion _A	<0.01				mg/kg	0.01	A T 056
Phosalone _A	<0.01				mg/kg	0.01	A T 056
Azinphos-methyl _A	<0.01				mg/kg	0.01	A T 056
Azinphos-ethyl _A	<0.01				mg/kg	0.01	A T 056
Coumaphos₄	<0.01	 			mg/kg	0.01	A T 056



Client Project Name: Elsenham Phase II

Lab Sample ID	21/11221/8						
Client Sample No							
Client Sample ID	TP105						
Depth to Top	0.20						
Depth To Bottom						ion	
Date Sampled	08-Oct-21					etect	if
Sample Type	Soil					Limit of Detection	Method ref
Sample Matrix Code	4AE				Units	Limit	Meth
PAH-16MS							
Acenaphthene _A ^{M#}	-				mg/kg	0.01	A T 019s
Acenaphthylene _A ^{M#}	-				mg/kg	0.01	A T 019s
Anthracene _A ^{M#}	-				mg/kg	0.02	A T 019s
Benzo(a)anthracene₄ ^{M#}	-				mg/kg	0.04	A T 019s
Benzo(a)pyrene _A ^{M#}	-				mg/kg	0.04	A T 019s
Benzo(b)fluoranthene _A ^{M#}	-				mg/kg	0.05	A T 019s
Benzo(ghi)perylene _A ^{M#}	-				mg/kg	0.05	A T 019s
Benzo(k)fluoranthene _A ^{M#}	-				mg/kg	0.07	A T 019s
Chrysene _A ^{M#}	-				mg/kg	0.06	A T 019s
Dibenzo(ah)anthracene _A ^{M#}	-				mg/kg	0.04	A T 019s
Fluoranthene _A ^{M#}	-				mg/kg	0.08	A T 019s
Fluorene _A ^{M#}	-				mg/kg	0.01	A T 019s
Indeno(123-cd)pyrene ^{AM#}	-				mg/kg	0.03	A T 019s
Naphthalene A ^{M#}	-				mg/kg	0.03	A T 019s
Phenanthrene _A ^{M#}	-				mg/kg	0.03	A T 019s
Pyrene _A ^{M#}	-				mg/kg	0.07	A T 019s
Total PAH-16MS _A ^{M#}	-				mg/kg	0.01	A T 019s



Client Project Name: Elsenham Phase II

			•				
Lab Sample ID	21/11221/8				Units	Limit of Detection	Method ref
Client Sample No							
Client Sample ID	TP105						
Depth to Top	0.20						
Depth To Bottom							
Date Sampled	08-Oct-21						
Sample Type	Soil						
Sample Matrix Code	4AE						
трн сwg							
Ali >C5-C6 _A #	-				mg/kg	0.01	A T 022s
Ali >C6-C8 _A #	-				mg/kg	0.01	A T 022s
Ali >C8-C10 _A	-				mg/kg	1	A T 055s
Ali >C10-C12 _A ^{M#}	-				mg/kg	1	A T 055s
Ali >C12-C16 _A ^{M#}	-				mg/kg	1	A T 055s
Ali >C16-C21 _A ^{M#}	-				mg/kg	1	A T 055s
Ali >C21-C35 ^{AM#}	-				mg/kg	1	A T 055s
Total Aliphatics _A	-				mg/kg	1	A T 055s
Aro >C5-C7 _A [#]	-				mg/kg	0.01	A T 022s
Aro >C7-C8 _A [#]	-				mg/kg	0.01	A T 022s
Aro >C8-C10 _A	-				mg/kg	1	A T 055s
Aro >C10-C12 _A	-				mg/kg	1	A T 055s
Aro >C12-C16 _A	-				mg/kg	1	A T 055s
Aro >C16-C21 _A ^{M#}	-				mg/kg	1	A T 055s
Aro >C21-C35 ^{AM#}	-				mg/kg	1	A T 055s
Total Aromatics _A	-				mg/kg	1	A T 055s
TPH (Ali & Aro >C5-C35)₄	-				mg/kg	1	A T 055s
BTEX - Benzene ^{"#}	-				mg/kg	0.01	A T 022s
BTEX - Toluene _A #	-				mg/kg	0.01	A T 022s
BTEX - Ethyl Benzene _A #	-				mg/kg	0.01	A T 022s
BTEX - m & p Xylene _A #	-				mg/kg	0.01	A T 022s
BTEX - o Xylene _A #	-				mg/kg	0.01	A T 022s
MTBE _A #	-				mg/kg	0.01	A T 022s



REPORT NOTES

General

This report shall not be reproduced, except in full, without written approval from Envirolab.

The results reported herein relate only to the material supplied to the laboratory.

The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliguot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bu k ID sample, 9 = INCINERATOR ASH.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bu k asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains vis ble hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Poss ble.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.



Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR Tel. 0161 368 4921 email.

Client:	RSK Environment Ltd Hemel, 18 Frogmore Road, Hemel Hempstead,	Project No:	21/11221				
	Hertfordshire, UK, HP3 9RT	Date Received:	15/10/2021 (am)				
Project:	Elsenham Phase II	Cool Box Temperatures (°C): 12.9,13.2,13.3,13.2,12					
			9,13.5				
Clients Project No: 1921748							

NO DEVIATIONS IDENTIFIED with respect to sampling dates or containers received.

Note: If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3 (for water samples 5 ± 3°C), ISO 18400-105:2017, then the concentration of any affected analytes may differ from that at the time of sampling.



Envirolab Analysis Dates

Lab Sample ID	21/11221/1	21/11221/2	21/11221/3	21/11221/4	21/11221/5	21/11221/6	21/11221/7	21/11221/8
Client Sample No								
Client Sample ID/Depth	WS101 0.30m	WS105 0.30m	WS107 0.50m	TP101 0.20m	TP102 0.20m	TP103 0.20m	TP104 0.20m	TP105 0.20m
Date Sampled	12/10/21	12/10/21	11/10/21	08/10/21	08/10/21	08/10/21	08/10/21	08/10/21
A-T-019s	21/10/2021	21/10/2021	21/10/2021	21/10/2021	21/10/2021			
A-T-022s				21/10/2021	21/10/2021			
A-T-024s	28/10/2021	28/10/2021	28/10/2021	28/10/2021	28/10/2021			
A-T-031s	28/10/2021	28/10/2021	28/10/2021	28/10/2021	28/10/2021			
A-T-044	28/10/2021	28/10/2021	28/10/2021	28/10/2021	28/10/2021	28/10/2021	28/10/2021	28/10/2021
A-T-045	22/10/2021	22/10/2021	22/10/2021	22/10/2021	22/10/2021			
A-T-055s				21/10/2021	21/10/2021			
A-T-056						22/10/2021	22/10/2021	22/10/2021

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report



APPENDIX J LABORATORY CERTIFICATES FOR GEOTECHNICAL ANALYSIS