

Melanie Jenkins
Basing Park Privett
Alton
Hants
GU33 3NS



1st April 2021
Our ref. KT/21/LP2430

Re: LP2430 Lidsey Lodge Farm Winter Groundwater Monitoring

Dear Melanie

1 Introduction

Leap Environmental Ltd (hereafter referred to as LEAP) has been appointed by Melanie Jenkins to undertake winter groundwater monitoring at Lidsey Lodge Farm, Sack Lane, Lidsey, Bognor Regis, PO22 9PE.

The subject area is roughly rectangular and covers an area of 1.14Ha. The site is currently occupied by 5No. agricultural buildings across the majority of the site, and 3No. residential properties in the southwest of the site. Most of the site, with the exception of the southeastern portion, is covered in concrete hardstanding. The southeastern portion is covered with mostly granular made ground. Several bunds/stockpiles, ranging from roughly 0.5 to 2.5m high were located along the northern and eastern boundaries at the time of the visit.

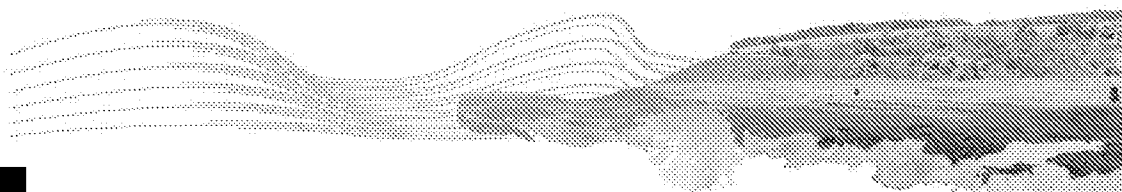
The site is bounded by fields to the north, east, west, and southeast, and Sack Lane to the southwest. A row of residential properties is located to the immediate south of Sack Lane.

It is proposed to partially redevelop the site into 8No. residential dwellings with associated gardens and public open space as per Figure 2, Appendix B.

The site has been the subject of a previous investigations by LEAP. The following site investigation report should be read in conjunction with this report.

- Phase 1 Desk Study, Site Reconnaissance & Phase II Site Investigation Report at Lidsey Lodge Farm, Sack Lane, Bognor Regis, PO22 9PE for Melanie Jenkins report ref LP2430 Issued 4th February 2021

Leap Environmental Ltd
South Coast Regional office
Premier House, Victoria Road,
Burgess Hill, West Sussex
BN15 9LR



Head Office, The Atrium, Curtis Road, Dorking, Surrey RH4 1YA

2 Geology

The site is mapped as being underlain by River Terrace Deposits over Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation and Portsdown Chalk Formation (Undifferentiated) (referred to as Upper Chalk in this report for ease of reference). A boundary with the Raised Marine Deposits is mapped approximately 10m to the east of the site.

2.1.1 River Terrace Gravels (Drift)

The deposits are those of a braided river system and generally comprise a sheet of variably graded sand and gravel, with local lenses of silts/clays and peats.

2.1.2 Raised Marine Deposits (Drift)

Raised marine deposits comprise clay, silt, sand and gravel of shallow-marine origin, generally forming coarse-grained beaches in coastal settings.

2.1.3 Solid (Upper Chalk)

Chalk is a very fine grained white limestone. It consists predominantly of the disaggregated skeletal remains of tiny planktonic algae, composed of almost pure calcium carbonate. The Upper Chalk is composed of hard to very hard nodular chinks and hardgrounds with interbedded soft to medium hard chinks (some grainy) and marls. The softer chinks become more abundant towards the top. Nodular chinks are typically lumpy and iron-stained with regular seams of nodular flint, some large, commencing near the base and continuing throughout.

Chalk is particularly affected by its weathering, particularly the effects of dissolution. The top surface of the chalk is usually irregular and may include deep drift filled solution pipes for example. Chalk is also susceptible to frost action.

3 Fieldwork

3.1 Methodology

LEAP have carried out an intrusive investigation and onsite monitoring to fulfil the objectives of this investigation. The intrusive investigation was carried out on the 18th of December 2020 and included the following tasks:

- 6No. 2 - 4m deep windowless boreholes drilled with a tracked rig with groundwater monitoring wells installed to 3m in two of the boreholes;
- 2No. shallow falling head tests carried out in two of the windowless holes;
- In-situ geotechnical testing including Standard Penetrometer Tests in the boreholes;



Five post site investigation groundwater monitoring rounds have subsequently taken place in the two wells in WS3 and 4.

At the time of the intrusive investigation, the weather was overcast with occasional light rain.

Throughout the monitoring period, the rainfall across the UK was generally higher than average (for example 113% of average in January, and 116% in February).

A site plan for the location of each excavation is presented in Figure 2 of Appendix B.

4 Ground Conditions

The logs created for each borehole are presented in Appendix C and summarised in the table below.

Table 1: Summary of soils encountered

Depth From (m)	Depth To (m)	Soil Type	Description
GL / 0.02	0.13 / 0.2	CONCRETE	Concrete (all locations except WS2)
GL / 0.2	0.29 / 0.9	MADE GROUND	MADE GROUND composed of varying mixtures of clay, silt, sand, and gravel. Gravel consists of flint, chalk, brick, concrete in varying proportions and sizes (from fine to coarse).
0.29 / 0.9	0.85 / *4.0	GRAVELLY SANDY CLAY	Soft to firm brown/reddish brown/grey gravelly sandy CLAY. Gravel is fine to coarse sub-angular to angular flint and fine to medium rounded to sub-angular chalk. RIVER TERRACE DEPOSITS
0.85 / 4.0	*2 / *4.45	CHALK	Pale greyish/brownish white extremely weathered CHALK recovered as gravelly clayey silt/clay. Gravel is fine to medium sub-angular to rounded chalk and fine to coarse rounded to angular flint. Grade Dm. (all locations except WS4)

* Denotes full depth of investigation

The ground across the site was found to comprise made ground over sandy/gravelly clay over weathered chalk. The chalk was encountered in all boreholes with the exception of WS4 where the superficial deposits extended to the base of the hole (4m). The depth to the top of the chalk varied between 0.85 to 4m.

4.1.1 Groundwater

Groundwater strikes were recorded in the following trial holes:-

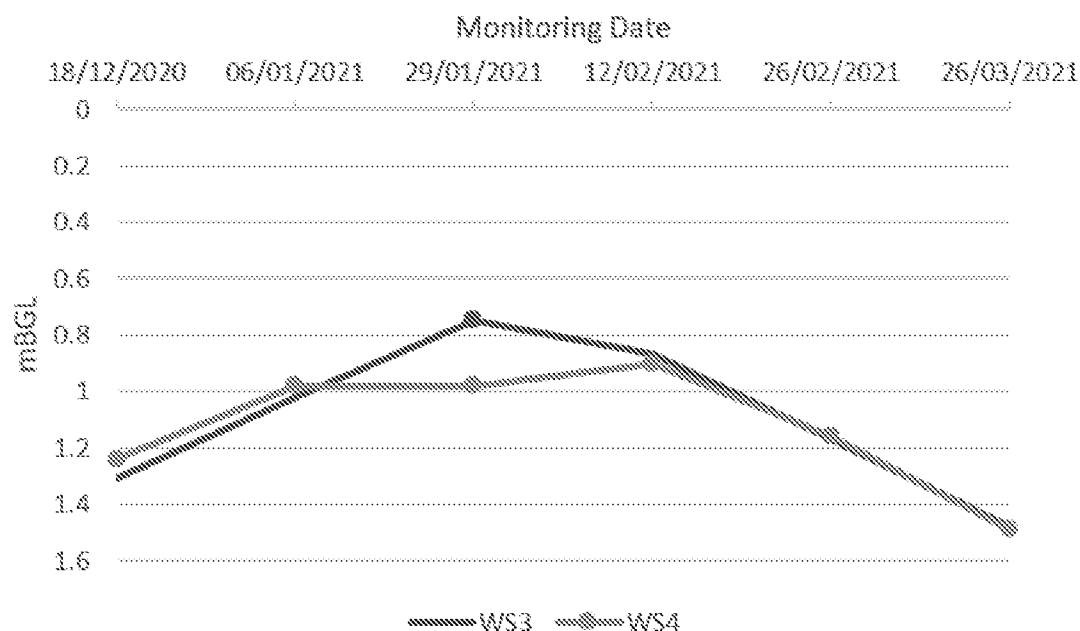


Table 2: Groundwater Strikes

Trial Hole	Date of water strike	Depth to Groundwater strike (mbGL)	Comments
WS2	18/12/20	1.6	Seepage within clay, roughly 50mm above the boundary with the chalk.
WS3		2	Seepage within clay. Rose to 1.31m after an hour.
WS4		3	Seepage within clay. Rose to 1.24m after an hour
WS6		4	Water struck at base of borehole, within chalk.

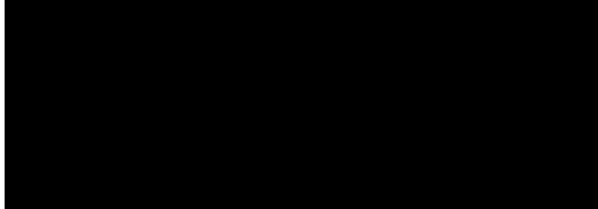
5 Groundwater Monitoring

Groundwater monitoring was undertaken from the 18th December 2020 to the 26th March 2021. The first monitoring visit took place on the day of the intrusive investigation, approximately 1 hour after the drilling had ended in order to allow groundwater levels to equalise. The elevations are shown in the chart below and full results are provided in Appendix D.

Chart 3: Summary of groundwater elevations

Please do not hesitate to contact the undersigned if you require any further information.

Yours faithfully,



Kleri Tantele

Enc.

Appendix A - Limitations

Appendix B - Figures

Appendix C – Trial Hole Logs

Appendix D – Groundwater Monitoring Results

This letter report has been prepared by Leap Environmental Ltd on the basis of information received from a variety of sources which Leap Environmental Ltd believes to be accurate. Nevertheless, Leap Environmental Ltd cannot and does not guarantee the authenticity or reliability of the information it has obtained from others.

Leap Environmental Ltd has used all reasonable skill, care and diligence in the design and execution of this report, taking into account the manpower and resources devoted to it in agreement with the Client. Although every reasonable effort has been made to obtain all relevant information, all potential contamination, environmental constraints or liabilities associated with the site may not necessarily have been revealed.

This report is generally consistent with the Eurocode requirements for a Ground Investigation Report, noting the limitations on brief to provision of pile design information only. However, the laboratory testing has been carried out on samples which do not comply with the Eurocode classifications as identified in tables 2 and 3 of EN ISO 22475-1. This report should not be deemed as a Geotechnical Design Report, and where any calculations have been made, these are not Eurocode compliant and are for indicative purposes only.

The logo for Leap Environmental Ltd, featuring the word 'leap' in a stylized, lowercase font with a dotted outline, and 'Environmental Ltd' in a smaller, solid font below it.

The conclusions reached in this report are necessarily restricted to those which can be determined from the information consulted, and may be subject to amendment in the light of additional information becoming available. These conclusions may not be appropriate for alternative schemes.

This report is confidential to the Client, and Leap Environmental Ltd accepts no responsibility whatsoever to third parties to whom this report, or any part thereof, is made known, unless formally agreed by Leap Environmental Ltd beforehand. Any such party relies upon the report at their own risk.



APPENDIX A - LIMITATIONS

Limitations

LIMITATIONS

This report is confidential to the Client, and Leap Environmental Ltd accepts no responsibility whatsoever to third parties to whom this report, or any part thereof, is made known, unless formally agreed by Leap Environmental Ltd beforehand. Any such party relies upon the report at their own risk. Unless explicitly agreed otherwise in writing, this report has been prepared under LEAP's standard terms and conditions, as included in the quotation for this works.

This report has been prepared by Leap Environmental Ltd on the basis of information received from a variety of sources which Leap Environmental Ltd believes to be accurate. Nevertheless, Leap Environmental Ltd cannot and does not guarantee the authenticity or reliability of the information it has obtained from others.

Leap Environmental Ltd has used all reasonable skill, care and diligence in the design and execution of this report, taking into account the manpower and resources devoted to it in agreement with the Client. Although every reasonable effort has been made to obtain all relevant information, all potential contamination, environmental constraints or liabilities associated with the site may not necessarily have been revealed. LEAP cannot be held responsible for any disclosures or changes in regulation that are provided post production of this report, and will not automatically update the report.

The conclusions reached in this report are necessarily restricted to those which can be determined from the information consulted, and may be subject to amendment in the light of additional information becoming available. These conclusions may not be appropriate for alternative schemes.

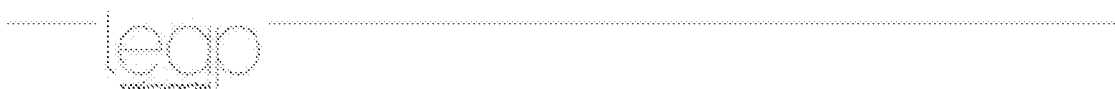
The extent of the exploratory holes, laboratory testing and monitoring undertaken may have been restricted due to a number of factors including accessibility, the presence of buried or overhead services, current development and site usage, timescales or clients specification. The exploratory holes only assess a small proportion of the site area with respect to the site as a whole, and as such may only provide an overall assessment of ground conditions on site. The presence of hotspots of undisclosed contamination or exceptional and unforeseen ground conditions cannot be discounted.

Eurocode 7 gives guidance on the type of sampling, sample quality, number and spacing of intrusive investigations, and number of laboratory tests required. It is intended that the Geotechnical Information section of this report will fulfil the general requirements of the Ground Investigation Report as set out in section 6 of Eurocode¹, although this is subject to

¹ BS EN 1997 Eurocode 7- Geotechnical Design - Part 1: General Rules (2004) and Part 2: Ground Investigation and Testing (2007)

the restrictions imposed on the investigation as listed above. For geotechnical design, Eurocode 7 requires the Geotechnical Design Report to address both the geotechnical and structural aspects of the geotechnical design for both the limit and serviceability states. The Geotechnical Appraisal section of this report will not meet the requirements of a Geotechnical Design Report (GDR), and should therefore be used for preliminary guidance only.

The presence of asbestos may be noted during the site walkover survey, intrusive investigations and/or from the results of contamination testing. However, this report does not constitute an asbestos survey. On this basis, the presence of asbestos on site cannot be discounted and a full asbestos survey should be undertaken.



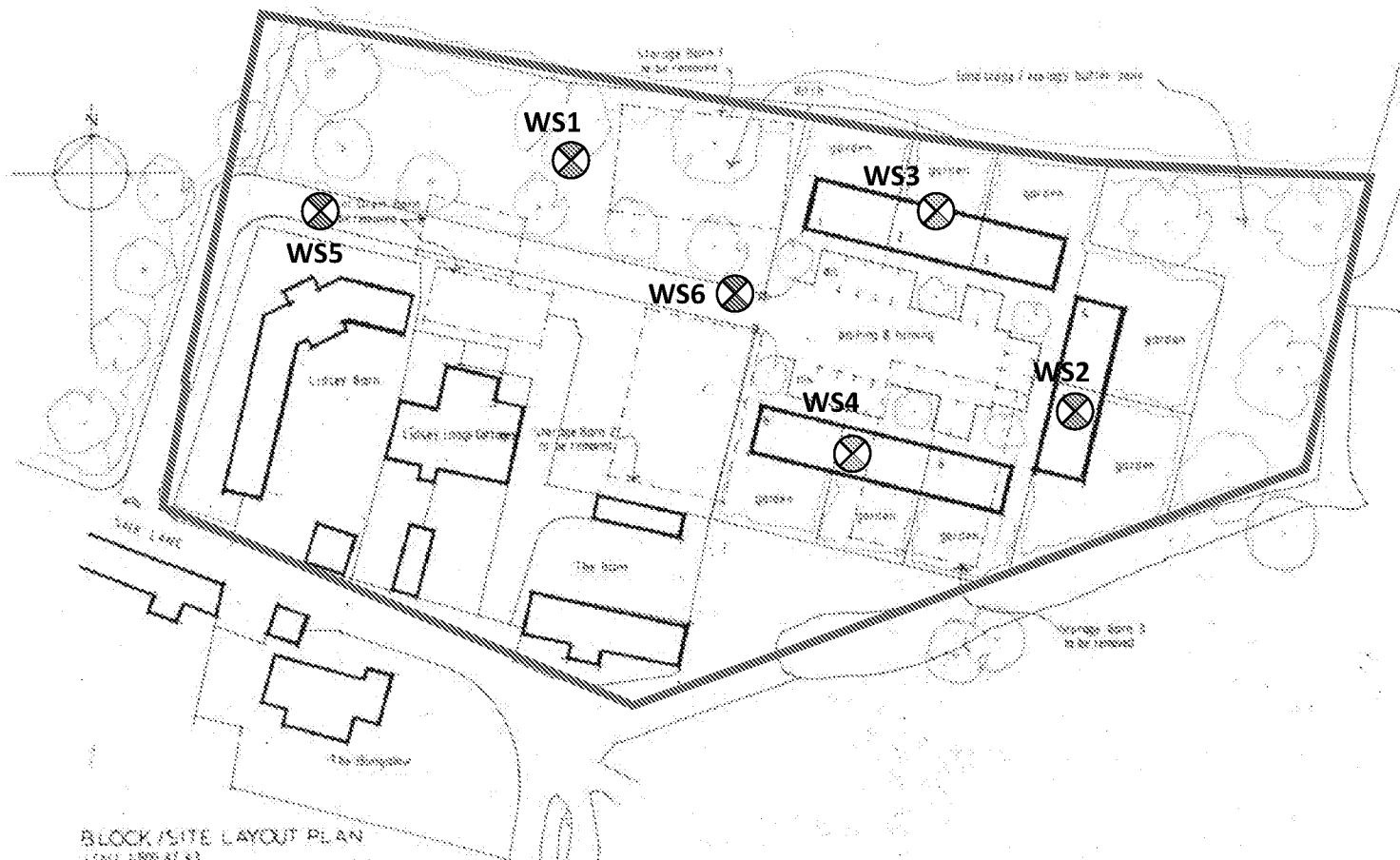
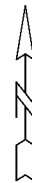
Figures



Basemap: © OpenStreetMap contributors



Client:	RJCA on behalf of Melanie Jenkins	Date:	22/12/20	Project ID:	LP2430
Project:	Lidsey Lodge Farm	Title:	Site Location Plan	Fig. No.	1



BLOCK/SITE LAYOUT PLAN

Scale 1:500 at A3
0 10 20 30m

RJCA Chartered Architects
The White House, 2 Lavant Road
Chichester, West Sussex PO19 5RQ
Tel: 01243 778600
Mobile: 07973435493
Email: rjcatkinsen@btinternet.com

Project Name: Lidsey Lodge Farm

Drawings: Site layout and block plan

Drawing Number: 2020/10/11 Rev. C

 Windowless sampler location

 Windowless sampler location with soakage test

 Windowless sampler location with well install



Client: RJCA on behalf of
Melanie Jenkins

Date: 31/03/21

Project ID: LP2430

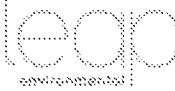
Project: Lidsey Lodge Farm

Title: SI locations

Fig. No. 2

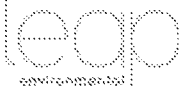
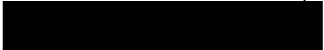
APPENDIX C – BOREHOLE LOGS

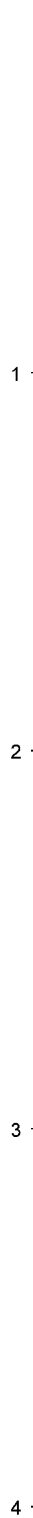
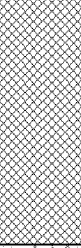
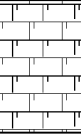
Borehole Logs

 Leap Environmental Ltd The Atrium, Curtis Road Dorking, Surrey RH4 1XA		Borehole Log			Borehole No. WS1 Sheet 1 of 1	
Project Name: Lidsey Lodge Farm		Project No. LP2430		Co-ords: -		Hole Type WLS
Location: Lidsey Lodge Farm, Sack Lane, Lidsey, Bognor Regis, PO22 9PD		Level:		Scale 1:20		
Client: RJCA Chartered Architects on behalf of Melanie Jenkins		Dates: 18/12/2020 - 18/12/2020		Logged By KT		

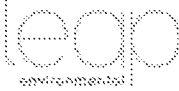
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.01	ES		0.02			Dark brownish grey sandy gravelly MADE GROUND. Gravel is fine to medium sub-rounded to angular flint and rare fine brick and concrete Concrete Pale brown sandy slightly clayey gravelly MADE GROUND. Gravel is fine to coarse angular to sub-rounded flint, fine to medium sub-rounded concrete and brick. <i>Organic odour noted throughout layer</i> Very dark brown silty sandy gravelly CLAY. Gravel is fine to coarse sub-rounded to sub-angular flint, and occasional fine sub-rounded chalk. <i>Occasional odourless black staining throughout layer</i> <i>Hand Pen at 0.8m = 60kPa</i> Pale greyish white extremely weathered CHALK recovered as very gravelly clayey silt. Gravel is fine to medium sub-rounded to rounded chalk and fine to coarse sub-angular to angular flint.	1
		0.20	ES		0.17				
				0.35					
		0.75	ES						
		0.80	D		0.85				
		1.00		N=17 (2,5/4,4,3,6)					
		2.00	D		2.00			2	
		2.00		N=16 (6,4/3,6,5,2)					
									3
									4

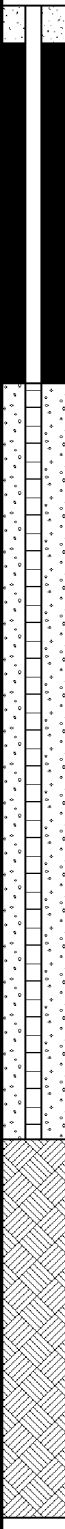
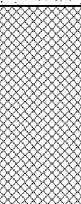
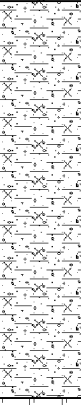
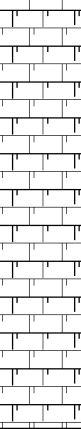
Remarks Borehole remained dry but collapsed to 1.9m. Borehole was used for soakage test between 1 and 1.9m. Later backfilled with arisings	
---	---

 Leap Environmental Ltd The Atrium, Curtis Road Dorking, Surrey RH4 1XA 		Borehole Log			Borehole No. WS2 Sheet 1 of 1	
Project Name: Lidsey Lodge Farm		Project No. LP2430		Co-ords: -		Hole Type WLS
Location: Lidsey Lodge Farm, Sack Lane, Lidsey, Bognor Regis, PO22 9PD		Level:		Scale 1:20		
Client: RJCA Chartered Architects on behalf of Melanie Jenkins		Dates: 18/12/2020 - 18/12/2020		Logged By KT		

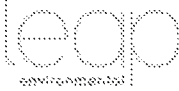
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES		0.25		 Pale brown silty sandy gravelly slightly clayey MADE GROUND. Gravel is fine to cobble-sized angular to sub-rounded flint, fine to medium concrete, fine sub-rounded chalk, and fine to coarse brick.		
		0.30	ES			 Dark brown silty sandy clayey slightly gravelly MADE GROUND. Gravel is fine sub-rounded chalk, fine to coarse sub-angular to sub-rounded flint, and rare medium sub-rounded concrete.			
		1.00	D	N=5 (0,0/1,1,2,1)	0.90		 Soft reddish brown silty sandy slightly gravelly CLAY with occasional red mottling. Gravel is fine to medium angular to sub-angular flint		
		1.00			1.10	 Firm brown very gravelly silty sandy CLAY. Gravel is abundant fine to medium sub-rounded flint. <i>Too gravelly for hand pen at 1.5m</i> <i>Water struck at 1.6m</i>			
				1.65		 Pale brownish white extremely weathered CHALK recovered as gravelly clay. Gravel is fine to medium sub-angular to sub-rounded chalk and rare medium rounded to sub-angular flint.			
		2.00	D	N=6 (4,3/1,2,1,2)	2.00		End of borehole at 2.00 m		
		2.00							

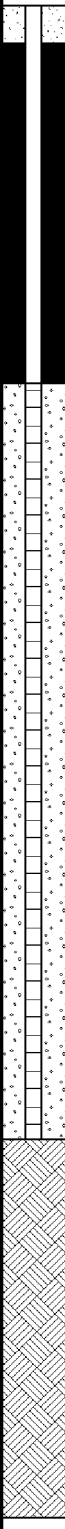
Remarks Water struck at 1.6m. Borehole was used for soakage test between 1 and 2m. Later backfilled with arisings.		
---	--	---

 Leap Environmental Ltd The Atrium, Curtis Road Dorking, Surrey RH4 1XA		Borehole Log		Borehole No. WS3 Sheet 1 of 1	
Project Name: Lidsey Lodge Farm		Project No. LP2430		Co-ords: -	
Location: Lidsey Lodge Farm, Sack Lane, Lidsey, Bognor Regis, PO22 9PD		Level:		Hole Type WLS	
Client: RJCA Chartered Architects on behalf of Melanie Jenkins		Dates: 18/12/2020 - 18/12/2020		Logged By KT	

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.15		Concrete		
		0.30	ES			0.70	 Dark greyish brown sandy clayey slightly gravelly MADE GROUND. Gravel is rare fine sub-rounded chalk and flint <i>Occasional black staining throughout layer</i>		
		1.00	D	N=4 (0,0/0,1,2,1)		1.80	 Firm dark brownish grey silty very sandy slightly gravelly CLAY. Gravel is fine sub-angular flint and rare fine sub-rounded chalk. <i>Vertical black stain between 1 and 1.6m</i> <i>Hand Pen at 1.5m =110kPa</i>	1	
		1.00	ES						
		1.20	ES						
		2.00	D	N=6 (1,1/1,2,1,2)		2.85	 Dark greyish brown silty sandy gravelly CLAY. Gravel is abundant fine to medium sub-angular to sub-rounded chalk. <i>Water struck at 2m</i> <i>Becomes less gravelly with depth</i> <i>Hand Pen at 2.5m =20kPa</i>	2	
		2.00	D						
			3.00		N=11 (2,3/2,3,3,3)		3	 Pale greyish brown extremely weathered CHALK recovered as gravelly clayey silt. Gravel is fine to medium rounded to sub-angular chalk.	3
		3.20 - 3.50	B						
	4.00		N=1 (0,0/0,0,1,0)	4.00		 End of borehole at 4.00 m	4		

Remarks Water struck at 2m. This rose to 1.31m after an hour. Installation comprised plain pipe and bentonite from GL to 1m, slotted pipe and gravel between 1 and 3m, and arisings between 3 and 4m. Finished with concrete and flush steel cover at surface.	
---	---

 Leap Environmental Ltd The Atrium, Curtis Road Dorking, Surrey RH4 1XA		Borehole Log		Borehole No. WS4 Sheet 1 of 2	
Project Name: Lidsey Lodge Farm		Project No. LP2430		Co-ords: -	
Location: Lidsey Lodge Farm, Sack Lane, Lidsey, Bognor Regis, PO22 9PD		Level:		Scale 1:20	
Client: RJCA Chartered Architects on behalf of Melanie Jenkins		Dates: 18/12/2020 - 18/12/2020		Logged By KT	

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.13		Concrete		
					0.25		Brick rubble		
	0.30	ES			0.70		Pale brown sandy gravelly MADE GROUND. Gravel is fine to medium concrete, fine to medium sub-rounded to angular flint, and occasional fine brick.		
	1.00	D	N=5 (0,0/1,1,1,2)				Firm reddish brown silty sandy slightly gravelly CLAY. Gravel is rare fine sub-rounded flint and chalk.		
	1.00						<u>Iron staining throughout layer</u>	1	
							<u>Hand Pen at 1.5m =55kPa</u>		
							<u>Hand Pen at 1.8m =115kPa</u>		
	1.90	D	N=4 (1,1/1,1,1,1)				Soft pale greyish brown silty very gravelly sandy CLAY. Gravel is abundant fine rounded to sub-angular chalk.		
	2.00				1.95		<u>Occasional iron staining throughout layer</u>	2	
							<u>Water struck at 3m</u>	3	
						<u>Too soft for hand pen at 3.5m</u>			
								4	
					4.00				

Continued on next sheet

Remarks Water struck at 3m. This rose to 1.24m after an hour. Installation comprised plain pipe and bentonite from GL to 1m, slotted pipe and gravel between 1 and 3m, and arisings between 3 and 4m. Finished with concrete and flush steel cover at surface.	
---	---



Leap Environmental Ltd
The Atrium, Curtis Road
Dorking, Surrey RH4 1XA

Borehole Log

Borehole No.

WS4

Sheet 2 of 2

Project Name: Lidsey Lodge Farm

Project No.
LP2430

Co-ords: -

Hole Type
WLS

Location: Lidsey Lodge Farm, Sack Lane, Lidsey, Bognor Regis,
PO22 9PD

Level:

Scale
1:20

Client: RJCA Chartered Architects on behalf of Melanie Jenkins

Dates: 18/12/2020 - 18/12/2020

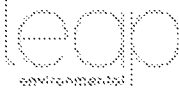
Logged By
KT

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		4.00		N=14 (4,3/3,3,4,4)				End of borehole at 4.00 m	
									5
									6
									7
									8

Remarks

Water struck at 3m. This rose to 1.24m after an hour. Installation comprised plain pipe and bentonite from GL to 1m, slotted pipe and gravel between 1 and 3m, and arisings between 3 and 4m. Finished with concrete and flush steel cover at surface.



 Leap Environmental Ltd The Atrium, Curtis Road Dorking, Surrey RH4 1XA		Borehole Log			Borehole No. WS5 Sheet 1 of 2	
Project Name: Lidsey Lodge Farm		Project No. LP2430		Co-ords: -		Hole Type WLS
Location: Lidsey Lodge Farm, Sack Lane, Lidsey, Bognor Regis, PO22 9PD		Level:		Scale 1:20		Logged By KT
Client: RJCA Chartered Architects on behalf of Melanie Jenkins		Dates: 18/12/2020 - 18/12/2020				

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.15			Concrete	
		0.20	ES		0.29			Pale brownish white sandy gravelly MADE GROUND. Gravel is fine to medium angular to sub-rounded chalk, fine to medium angular to sub-angular flint and fine to coarse sub-rounded concrete	
		0.50 - 0.70	B					Firm reddish brown silty sandy slightly gravelly CLAY. Gravel is rare fine sub-rounded to sub-angular chalk and rare fine angular flint.	
		1.00		N=6 (0,2/1,1,2,2)				Hand Pen at 1m =100kPa	1
								Hand Pen at 1.5m =70kPa	
								Becomes less sandy from 1.6m	
								Becomes mottled greyish brown from around 1.6m	
		2.00	D	N=8 (0,1/2,2,2,2)				Hand Pen at 2m =120kPa	2
		2.00			2.20			Hand Pen at 2.1m =20kPa	
								Soft becoming firm brown silty slightly sandy very gravelly CLAY. Gravel is abundant fine sub-rounded to rounded chalk and occasional fine to medium angular flint	
							Too gravelly for hand pen at 2.5m		
		3.00	D	N=18 (3,3/4,3,5,6)				Too gravelly for hand pen at 3.0m	3
		3.00							
		4.00		N=33 (5,8/6,8,10,9)	4.00			Continued on next sheet	4

Remarks Borehole remained dry and stable. Borehole was backfilled with arisings		
--	--	---



Leap Environmental Ltd
The Atrium, Curtis Road
Dorking, Surrey RH4 1XA

Borehole Log

Borehole No.

WS5

Sheet 2 of 2

Project Name: Lidsey Lodge Farm

Project No.
LP2430

Co-ords: -

Hole Type
WLS

Location: Lidsey Lodge Farm, Sack Lane, Lidsey, Bognor Regis,
PO22 9PD

Level:

Scale
1:20

Client: RJCA Chartered Architects on behalf of Melanie Jenkins

Dates: 18/12/2020 - 18/12/2020

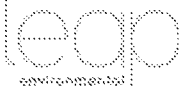
Logged By
KT

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					4.45			Weathered white CHALK recovered as slightly gravelly silt. Gravel is rare fine angular flint. <i>Too gravelly for hand pen at 4.0m</i>	
								End of borehole at 4.45 m	
									5
									6
									7
									8

Remarks

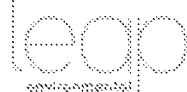
Borehole remained dry and stable. Borehole was backfilled with arisings



 Leap Environmental Ltd The Atrium, Curtis Road Dorking, Surrey RH4 1XA		Borehole Log			Borehole No. WS6 Sheet 1 of 2	
Project Name: Lidsey Lodge Farm		Project No. LP2430		Co-ords: -		Hole Type WLS
Location: Lidsey Lodge Farm, Sack Lane, Lidsey, Bognor Regis, PO22 9PD		Level:		Scale 1:20		Logged By KT
Client: RJCA Chartered Architects on behalf of Melanie Jenkins		Dates: 18/12/2020 - 18/12/2020				

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.20		Concrete		
		0.30	ES		0.42		Pale greyish brown sandy gravelly MADE GROUND. Gravel is fine to medium sub-rounded concrete, fine to medium sub-angular to angular flint, fine to medium sub-rounded to angular chalk and rare fine brick		
		0.50 - 0.70	B				Brown silty sandy gravelly CLAY. Gravel is fine to coarse sub-angular to angular flint, and fine rounded to sub-angular chalk		
		1.00		N=8 (1,1/2,2,2,2)			Too gravelly for hand pen between 1 and 1.3m	1	
		1.60 - 2.00	B		1.40		Firm grey silty very sandy CLAY with occasional very gravelly pockets. Gravel is fine rounded chalk. Hand Pen at 1.6m =120kPa		
		2.00		N=12 (2,2/2,3,3,4)				2	
		2.50	D				Clay is reddish brown from 2.5m		
	3.00		N=17 (1,2/4,4,5,4)			Hand Pen at 3m =90kPa	3		
					3.18		Weathered white CHALK recovered as gravelly clayey silt. Gravel is fine to medium rounded to sub-angular chalk and rare fine angular flint.		
	▼	4.00	D		4.00		Continued on next sheet	4	

Remarks Borehole remained stable. Water struck at base of borehole (4m). Borehole was backfilled with arisings.	
--	---



Leap Environmental Ltd
The Atrium, Curtis Road
Dorking, Surrey RH4 1XA

Borehole Log

Borehole No.

WS6

Sheet 2 of 2

Project Name: Lidsey Lodge Farm

Project No.
LP2430

Co-ords: -

Hole Type
WLS

Location: Lidsey Lodge Farm, Sack Lane, Lidsey, Bognor Regis,
PO22 9PD

Level:

Scale
1:20

Client: RJCA Chartered Architects on behalf of Melanie Jenkins

Dates: 18/12/2020 - 18/12/2020

Logged By
KT

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		4.00		N=20 (4,4/5,5,5,5)				Water struck at base of hole End of borehole at 4.00 m	
									5
									6
									7
									8

Remarks

Borehole remained stable. Water struck at base of borehole (4m). Borehole was backfilled with arisings.



APPENDIX D – GROUNDWATER MONITORING RESULTS

Groundwater Monitoring Results

			Groundwater Monitoring Record	
			Lidsey Lodge Farm LP2430	
			BHID	
			WS3	WS4
Engineer:	SH	Borehole Depth (m)	~3	~3
Date:	18/12/20	Water Level (m bgl)	1.31	1.24
	06/01/21	Water Level (m bgl)	1.02	0.98
	29/01/21	Water Level (m bgl)	0.75	0.98
	12/02/21	Water Level (m bgl)	0.87	0.9
	26/02/21	Water Level (m bgl)	1.17	1.16
	26/03/21	Water Level (m bgl)	1.48	1.49