SEVENOAKS ENVIRONMENTAL CONSULTANCY

145a Hastings Road
Pembury
Tunbridge Wells
Kent, TN2 4JU

Tel: 01892 822 999

www.sevenoaksenvironmental.co.uk
enquiries@sevenoaksenvironmental.co.uk

Urfan Mehmood,
The Joyful Whippet,
Steepdown Road,
Sompting,
BN15 0LJ

14th April 2021

Our Ref: 3993 21 04 09 Ltr Rpt 01 REV A RD UM

Dear Urfan,

SITE: The Joyful Whippet, Steepdown Road, Sompting, BN15 0LJ
SERVICE: Winter Groundwater Monitoring & Falling Head Infiltration Tests

Following your instruction to proceed with the conduct of Winter Groundwater Monitoring & Falling Head Infiltration Tests within 4no. mini boreholes in accordance with our quotation (Ref: 3993 21 01 19 Ltr 02 FPA 02 Rev A JY UM), Sevenoaks Environmental Consultancy Ltd (SEC) attended the above site on the 29th January to undertake the fieldwork.

Geotechnical data and testing was also carried out as part of this assessment however is presented under a separate cover (Report Ref: 3993 21 04 12 Rpt 02 Rev A JY UM).

At the time of writing the site comprised an approximately triangular shaped plot comprising a single 2-storey building and car park laid to a combination of hardstanding and soft landscaping (see Figure 1 for Site Location Plan). The scope of investigation undertaken was prescribed by Sevenoaks Environmental Consultants Ltd and consisted of 4no. mini borehole up to 6.45m bgl (See Figure 2 for Exploratory Hole Location Plan). It is understood that this work was required to help confirm groundwater levels across the site and provide an indication of the sites potential for infiltration ahead of the proposed development which includes the demolition of the existing building and the erection of 4 no. residential dwellings with associated soft landscaping and car parking.

From a review of the BGS online mapping the site is underlain by bedrock geology comprising the Newhaven Chalk Formation with Head (Clay, Silt, Sand and Gravel) superficial deposits overlying this.

The scope of works undertaken by SEC generally comprised:

- Full time site supervision by an SEC Engineer during drilling of the boreholes to log the ground conditions to BS 5930 / Eurocode 7 and CIRIA 574 and document the investigation;
- Mobilisation of a Continuous Dynamic Sampler drill rig (windowless sampler) and crew to undertake 4no. mini boreholes up to 6.45m bgl (WS01-WS04);
- Provision and installation of monitoring pipework within the mini boreholes to facilitate groundwater monitoring;
- Conduct of Falling Head Infiltration tests within the mini boreholes and;

- Production of a Factual Report to provide raw falling head test data.

An SEC Engineer supervised the drilling of 4no. mini boreholes (WS01-WS04) up to 6.45m bgl (see Appendix B Site Photos) which were positioned to provide good coverage across the site and focusing on areas that would possibly be utilized for soakaway's. Ground conditions encountered appeared to be generally consistent with those indicated by the BGS records with WS01, WS02 and WS04 all reaching their target depth of 6.45m bgl however, WS03 refused at 2.15m bgl on a concrete obstruction with Made Ground encountered to this depth within this location. Anecdotal information provided to SEC has suggested this area of the site was previously quarried and subsequently infilled. A more detailed account of ground conditions can be found in Appendix C – Exploratory Hole Records. No Groundwater was encountered during drilling. All boreholes were installed with 1m plain HDPE pipe and then slotted HDPE pipe to the base with a 1m bentonite seal at the top and clean pea shingle surround below.

All borehole installations were monitored across 6no. monitoring visits between 10th February and the 31st March 2021 using a dip meter to establish groundwater level. Groundwater was only identified within WS03 and was recorded between 1.25m bgl and 1.70m bgl (See Appendix D – Groundwater Monitoring Data). However, it should be noted that groundwater identified within WS03 is likely to be perched within the overlying Made Ground above the concrete obstruction and not representative of true groundwater level across the site. All other locations were noted to be dry on all visits.

During the fifth groundwater monitoring visit, SEC performed a single falling head test in each of the 4no. boreholes to inform on infiltration performance across the site. During the infiltration tests ~30 litres of clean mains water was added to each of the boreholes and the time taken for the water to infiltrate into the surrounding geology was recorded (see Appendix E – Falling Head Infiltration Data). Tests generally performed favorable however, further infiltration tests by the BRE 365 method should be carried out as part of the drainage design for the site as part of the proposed development.

Given the deep Made Ground within WS03 and anecdotal information that this part of the site has been subject to quarrying and subsequent infilling, SEC would recommend that a Desk Study is carried out for the site ahead of any development on site, including for determining the extent of this quarried area. It is likely that soakaway's would not be suitable within this area.

See Appendix F for General Limitation and Exceptions.

Kind regards

Damian Jones
Managing Director
[redacted]

Appendix A – Figures
Figure 1 – Site Location Plan
Figure 2 – Exploratory Hole Location Plan
Appendix B – Site Photos
Appendix C – Exploratory Hole Records
Appendix D – Groundwater Monitoring Data
Appendix E – Falling Head Infiltration Data
Appendix F – General Limitations and Exception

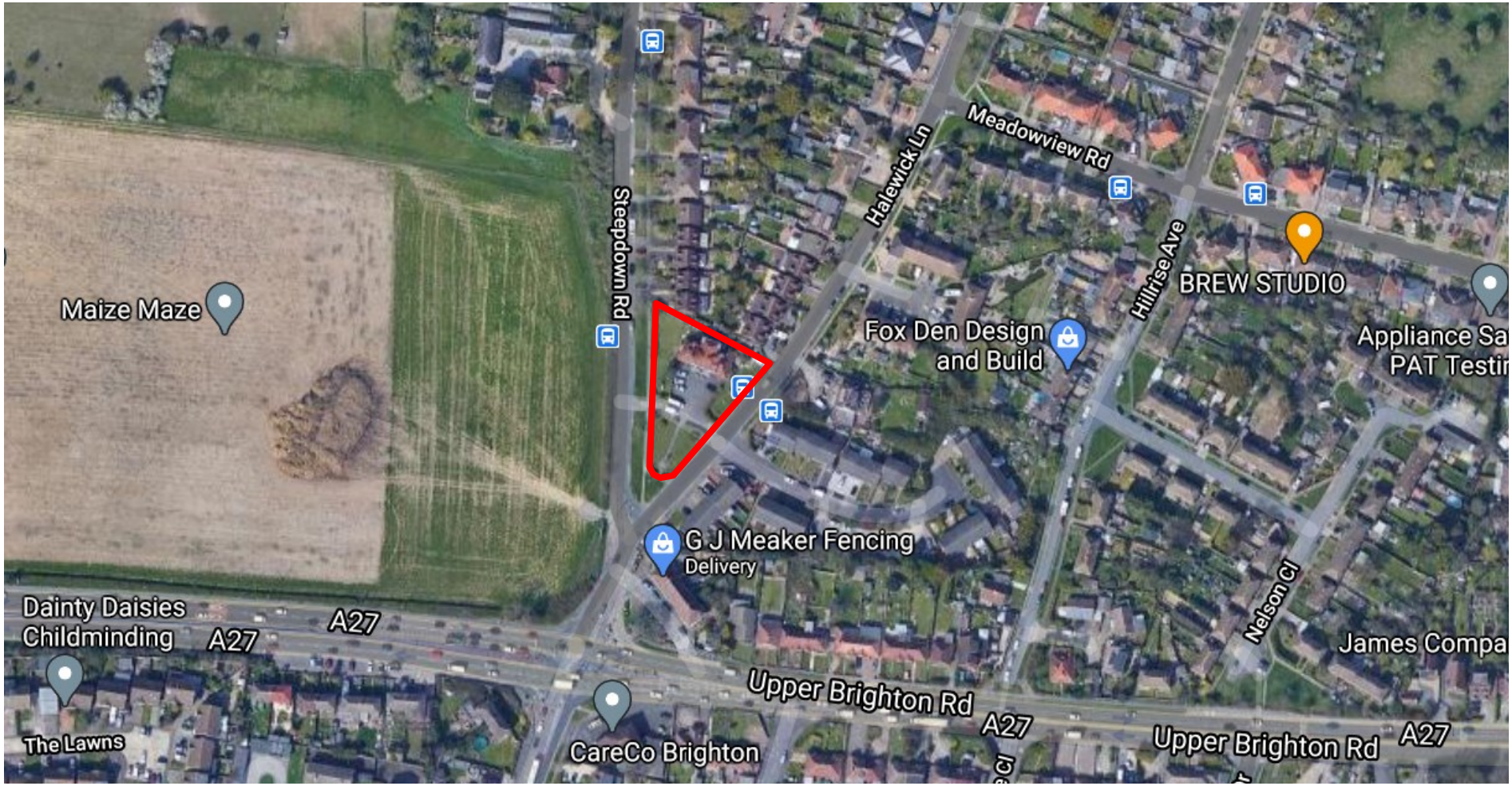
Appendix A

Figures

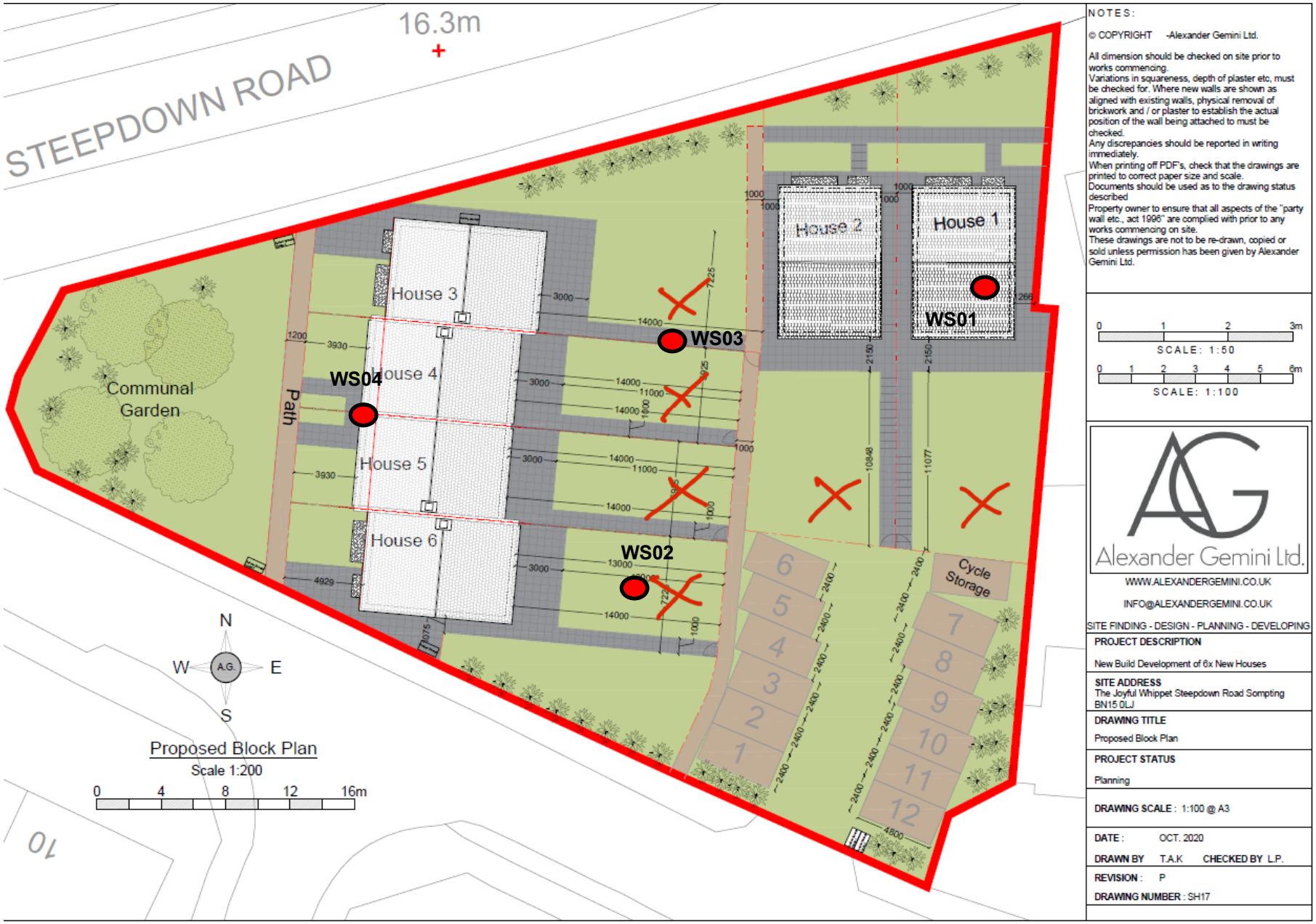
W

Crown Copyright. Licence Number 100040584. All rights reserved.
This map is not to be relied upon for accuracy and is for identification purposes only

E



SITE: The Joyful Whippet, Steepdown Road, Sompting, BN15 0LJ	SCALE: NTS	JOB NO: 3993	SEVENOAKS ENVIRONMENTAL CONSULTANCY
FIGURE TITLE: Site Location Plan	REV: 01	FIGURE NO: 01	



Crown Copyright. Licence Number 100040584. All rights reserved.
This map is not to be relied upon for accuracy and is for identification purposes only

SITE: Joyful Whippet, Steepdown Road, Sompting, West Sussex, BN15 0LJ	SCALE: NTS	JOB NO: 3993
FIGURE TITLE: Proposed Exploratory Hole Location Plan	REV: 01	FIGURE NO: 2

SEVENOAKS ENVIRONMENTAL CONSULTANCY

Appendix B

Site Photographs



Image 1 – The Joyful Whippet, accessed via Steepdown Road to the west



Image 2 – Hand dug safety start pit exposing Made Ground in WS03



Image 3 – Made Ground from WS03



Image 4 – Sample of Made Ground from WS02 at 0.30m bgl



Image 5 – Sample of Natural Material from WS01 at 4.50m bgl

Appendix C

Exploratory Hole Records

SEVENOAKS ENVIRONMENTAL CONSULTANCY

WINDOW SAMPLE LOG

Project				Window Sample No
Ground Investigation				**WS01**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
3993	29-01-21 29-01-21			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 1

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
0.10	D					0.15	MADE GROUND: Grass over firm dark brown slightly silty sandy Clay with occasional fine to medium sub-angular flint fragments and rare fine to medium sub-angular brick fragments		
0.75	D					(0.95)	Firm light brown slightly clayey sandy SILT with occasional fine to medium sub-angular flint fragments		
1.20	SPT	16 blows				1.10	Very stiff light brownish grey slightly sandy gravelly CLAY with frequent fine to coarse sub-angular to sub-rounded flint fragments and frquent fine to medium sub-rounded chalk fragments		
1.50	D						@ 2.00m bgl becomes soft		
2.00	SPT	4 blows					@ 2.80m bgl occasional fine to coarse sub-angular flint fragments		
2.50	D						@ 3.00m bgl becomes firm		
3.00	SPT	8 blows							
3.50	D								
4.00	SPT	6 blows				(5.35)			
4.50	D								
5.00	SPT	5 blows							
5.50	D								
6.00	SPT	9 blows							
						6.45			

Boring Progress and Water Observations						Chiselling			Water Added	
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To

GENERAL REMARKS
No Groundwater Encountered

All dimensions in metres Scale 1:50	Client Urfan Mehmood	Method/Plant Used Continuous Dynamic Sampler Rig	Logged By JY

WINDOW SAMPLE LOG 3993 THE JOYFUL WHIPPET.GPJ AGS3_ALL.GDT 14/4/21

SEVENOAKS ENVIRONMENTAL CONSULTANCY

WINDOW SAMPLE LOG

Project				Window Sample No
Ground Investigation				**WS02**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
3993	29-01-21 29-01-21			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 1

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
0.05	D					0.06	MADE GROUND: Asphalt		
0.30	D					(0.49) 0.55	MADE GROUND: Loose light greyish brown slightly silty clayey Sand with frequent fine to coarse angular to sub-rounded flint, brick and chalk fragments, numerous fine to coarse angular glass fragments and occasional fine sub-angular asphalt fragments.		
0.75	D					(0.80)	MADE GROUND: Very stiff light brown slightly silty sandy Clay with numerous fine to coarse sub-angular to sub-rounded chalk and flint fragments and occasional fine to coarse sub-angular glass and brick fragments		
1.20	SPT	41 blows				1.35			
1.25	D						Very stiff light brownish grey slightly sandy gravelly CLAY with frequent fine to coarse sub-angular to sub-rounded flint and frequent fine to medium sub-rounded chalk fragments		
1.75	D								
2.00	SPT	30 blows					@ 3.40m bgl occasional fine to coarse sub-angular to sub-rounded flint fragments		
2.50	D						@ 4.00m bgl becomes stiff		
3.00	SPT	31 blows					@ 4.70m bgl becomes orangish brown with rare fine to medium sub-angular flint fragments		
3.50	D						@ 5.00m bgl becomes very stiff		
4.00	SPT	12 blows				(5.10)	@ 5.35m bgl becomes light browish grey		
4.50	D								
5.00	SPT	16 blows							
5.50	D								
6.00	SPT	19 blows							
						6.45			

Boring Progress and Water Observations					
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt

Chiselling			Water Added	
From	To	Hours	From	To

GENERAL REMARKS

No Groundwater Encountered

All dimensions in metres Scale 1:50	Client Urfan Mehmood	Method/Plant Used Continuous Dynamic Sampler Rig	Logged By JY

WINDOW SAMPLE LOG 3993 THE JOYFUL WHIPPET.GPJ AGS3_ALL.GDT 14/4/21

SEVENOAKS ENVIRONMENTAL CONSULTANCY

WINDOW SAMPLE LOG

Project				Window Sample No
Ground Investigation				**WS03**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
3993	29-01-21 29-01-21			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 1

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
0.05	D					0.08	MADE GROUND: Asphalt		
0.15	D					0.35	MADE GROUND: Loose reddish brown gravelly Sand (Sub Base)		
0.40	D					0.45	with frequent fine to coarse sub-angular brick and concrete fragments and rare fine to medium sub-angular asphalt fragments		
							MADE GROUND: Concrete		
						(0.90)	MADE GROUND: Loose reddish brown gravelly Sand (Sub Base) with frequent fine to coarse sub-angular brick and concrete fragments and rare fine to medium sub-angular asphalt fragments		
1.20	SPT	4 blows				1.35			
1.25	D						MADE GROUND: Soft dark grey slightly sandy silty Clay with rare fine to medium sub-angular brick, chalk and flint fragments		
						(0.63)			
1.75	D					1.98			
2.00	SPT	>50 blows				2.15	MADE GROUND: Concrete		
							@ 2.15m bgl refusal on concrete		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No Groundwater Encountered

All dimensions in metres Scale 1:50	Client Urfan Mehmood	Method/Plant Used Continuous Dynamic Sampler Rig	Logged By JY

WINDOW SAMPLE LOG 3993 THE JOYFUL WHIPPET.GPJ AGS3_ALL.GDT 14/4/21

SEVENOAKS ENVIRONMENTAL CONSULTANCY

WINDOW SAMPLE LOG

Project				Window Sample No
Ground Investigation				**WS04**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
3993	29-01-21 29-01-21			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 1

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
0.10	D					0.14	MADE GROUND: Firm dark brown slightly silty sandy Clay with occasional fine to medium sub-angular flint and chalk fragments and rare fine to medium sub-angular glass and brick fragments		
0.50	D					(0.71)	MADE GROUND: Weak light greyish white rubble Chalk with a lightly grey matrix comprising a silty Clay with numerous fine to coarse sub-angular flint fragments and rare fine sub-angular brick fragments.		
1.00	D					0.85			
1.20	SPT	22 blows				(0.60)	MADE GROUND: Very stiff dark brown slightly sandy gravelly Clay with frequent fine to coarse sub-angular flint and chalk fragments and numerous medium to coarse sub-angular asphalt and concrete fragments		
						1.45			
1.90	D						Very stiff light brownish grey slightly sandy gravelly CLAY with frequent fine to coarse sub-angular to sub-rounded flint fragments and frequent fine to coarse sub-rounded chalk fragments		
2.00	SPT	9 blows					@ 2.00m bgl becomes firm		
2.50	D						@ 3.00m bgl becomes stiff		
3.00	SPT	12 blows					@ 4.00m bgl becomes very stiff		
3.50	D						@ 5.00m bgl becomes firm		
4.00	SPT	19 blows				(5.00)			
4.50	D								
5.00	SPT	5 blows							
5.50	D								
6.00	SPT	10 blows							
						6.45			

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No Groundwater Encountered

All dimensions in metres Scale 1:50	Client Urfan Mehmood	Method/Plant Used Continuous Dynamic Sampler Rig	Logged By JY

WINDOW SAMPLE LOG 3993 THE JOYFUL WHIPPET.GPJ AGS3_ALL.GDT 14/4/21

Appendix D

Groundwater Monitoring
Data

SEVENOAKS ENVIRONMENTAL CONSULTANCY

Date: 10/02/2021
Site: Joyful Whippet
Job Ref: 3993
Monitoring Round: 1
Engineer RD

Borehole Ref:	Dip [m]	Plumb [m]
WS01	-	6.00
WS02	-	6.03
WS03	1.42	2.07
WS04	-	6.07

SEVENOAKS ENVIRONMENTAL CONSULTANCY

Date: 19/02/2021
Site: Joyful Whippet
Job Ref: 3993
Monitoring Round: 2
Engineer RD

Borehole Ref:	Dip [m]	Plumb [m]
WS01	-	5.90
WS02	-	5.94
WS03	1.25	1.96
WS04	-	5.97

SEVENOAKS ENVIRONMENTAL CONSULTANCY

Date: 03/03/2021
Site: Joyful Whippet
Job Ref: 3993
Monitoring Round: 3
Engineer RD

Borehole Ref:	Dip [m]	Plumb [m]
WS01	-	5.90
WS02	-	5.94
WS03	1.60	1.96
WS04	-	5.97

SEVENOAKS ENVIRONMENTAL CONSULTANCY

Date: 12/03/2021
Site: Joyful Whippet
Job Ref: 3993
Monitoring Round: 4
Engineer JY

Borehole Ref:	Dip [m]	Plumb [m]
WS01	-	6.03
WS02	-	6.08
WS03	1.55	2.09
WS04	-	6.10

SEVENOAKS ENVIRONMENTAL CONSULTANCY

Date: 25/03/2021
Site: Joyful Whippet
Job Ref: 3993
Monitoring Round: 5
Engineer RD

Borehole Ref:	Dip [m]	Plumb [m]
WS01	-	5.90
WS02	-	5.94
WS03	1.63	1.96
WS04	-	5.97

SEVENOAKS ENVIRONMENTAL CONSULTANCY

Date: 31/03/2021
Site: Joyful Whippet
Job Ref: 3993
Monitoring Round: 6
Engineer JY

Borehole Ref:	Dip [m]	Plumb [m]
WS01	-	6.03
WS02	-	6.09
WS03	1.70	2.09
WS04	-	6.10

Appendix E

Falling Head Infiltration Data

SEVENOAKS ENVIRONMENTAL CONSULTANCY

Falling Head Test Results
Ref: 3993
Site: The Joyful Whippet

Job Number	3993
Borehole Location	WS01
Test No.	Test 1
GW Dip Prior to test (m)	dry
Plumb Depth (m)	5.90
Vol of water added (l)	30
Borehole diameter	40mm
Date	25/03/2021

WS01 Test 1			
t (s)	t (h:m:s)	Dip (m bgl)	Head (m)
0	00:00:00	2.31	3.59
15	00:00:15	2.64	3.26
30	00:00:30	2.76	3.14
45	00:00:45	2.92	2.98
60	00:01:00	3.03	2.87
90	00:01:30	3.28	2.62
120	00:02:00	3.48	2.42
150	00:02:30	3.61	2.29
180	00:03:00	3.85	2.05
210	00:03:30	4	1.90
240	00:04:00	4.06	1.84
270	00:04:30	4.18	1.72
300	00:05:00	4.34	1.56
360	00:06:00	4.58	1.32
420	00:07:00	4.74	1.16
480	00:08:00	4.91	0.99
540	00:09:00	5.06	0.84
600	00:10:00	5.18	0.72
660	00:11:00	5.27	0.63
720	00:12:00	5.33	0.57
780	00:13:00	5.41	0.49
840	00:14:00	5.48	0.42
900	00:15:00	5.53	0.37
1,380	00:23:00	5.81	0.09
3,000	00:50:00	5.9	0.00

SEVENOAKS ENVIRONMENTAL CONSULTANCY

Falling Head Test Results
Ref: 3993
Site: The Joyful Whippet

Job Number	3993
Borehole Location	WS02
Test No.	Test 1
GW Dip Prior to test (m)	dry
Plumb Depth (m)	5.94
Vol of water added (l)	30
Borehole diameter	40mm
Date	25/03/2021

WS02 Test 1			
t (s)	t (h:m:s)	Dip (m bgl)	Head (m)
0	00:00:00	2.76	3.18
10	00:00:15	2.96	2.98
30	00:00:30	3.01	2.93
40	00:00:45	3.11	2.83
60	00:01:00	3.16	2.78
90	00:01:30	3.24	2.70
120	00:02:00	3.3	2.64
150	00:02:30	3.34	2.60
180	00:03:00	3.38	2.56
210	00:03:30	3.43	2.51
240	00:04:00	3.47	2.47
270	00:04:30	3.5	2.44
300	00:05:00	3.54	2.40
360	00:06:00	3.57	2.37
420	00:07:00	3.58	2.36
480	00:08:00	3.61	2.33
540	00:09:00	3.63	2.31
600	00:10:00	3.64	2.30
720	00:12:00	3.68	2.26
780	00:13:00	3.7	2.24
840	00:14:00	3.71	2.23
900	00:15:00	3.73	2.21
960	00:16:00	3.75	2.19
1,020	00:17:00	3.77	2.17
1080	00:18:00	3.79	2.15
1,140	00:19:00	3.8	2.14
1200	00:20:00	3.81	2.13
1500	00:25:00	3.91	2.03
1800	00:30:00	3.97	1.97
2460	00:41:00	4.14	1.8
3000	00:50:00	4.26	1.68
3600	01:00:00	4.38	1.56
4200	01:10:00	4.49	1.45

SEVENOAKS ENVIRONMENTAL CONSULTANCY

Falling Head Test Results
Ref: 3993
Site: The Joyful Whippet

Job Number	3993
Borehole Location	WS03
Test No.	Test 1
GW Dip Prior to test (m)	1.63
Plumb Depth (m)	1.96
Vol of water added (l)	30
Borehole diameter	40mm
Date	25/03/2021

WS03 Test 1			
t (s)	t (h:m:s)	Dip (m bgl)	Head (m)
0	00:00:00	0.71	0.92
15	00:00:15	0.76	0.87
30	00:00:30	0.78	0.85
45	00:00:45	0.79	0.84
60	00:01:00	0.8	0.83
90	00:01:30	0.8	0.83
120	00:02:00	0.82	0.81
150	00:02:30	0.82	0.81
180	00:03:00	0.82	0.81
210	00:03:30	0.83	0.80
240	00:04:00	0.83	0.80
270	00:04:30	0.84	0.79
300	00:05:00	0.84	0.79
360	00:06:00	0.86	0.77
420	00:07:00	0.89	0.74
480	00:08:00	0.92	0.71
540	00:09:00	0.95	0.68
600	00:10:00	0.98	29.02
660	00:11:00	1	0.63
720	00:12:00	1.03	0.60
780	00:13:00	1.06	0.57
840	00:14:00	1.07	0.56
900	00:15:00	1.09	0.54
960	00:16:00	1.11	0.52
1,020	00:17:00	1.12	0.51
1080	00:18:00	1.14	0.49
1,140	00:19:00	1.15	0.48
1200	00:20:00	1.16	0.47
1500	00:25:00	1.2	0.43
3150	00:52:30	1.33	0.30
3600	00:01:00	1.34	0.29

SEVENOAKS ENVIRONMENTAL CONSULTANCY

Falling Head Test Results
Ref: 3993
Site: The Joyful Whippet

Job Number	3993
Borehole Location	WS04
Test No.	Test 1
GW Dip Prior to test (m)	dry
Plumb Depth (m)	5.97
Vol of water added (l)	30
Borehole diameter	40mm
Date	25/03/2021

WS04 Test 1			
t (s)	t (h:m:s)	Dip (m bgl)	Head (m)
0	00:00:00	3.96	2.01
15	00:00:15	4.45	1.52
30	00:00:30	4.56	1.41
45	00:00:45	4.57	1.40
60	00:01:00	4.64	1.33
90	00:01:30	4.67	1.30
120	00:02:00	4.72	1.25
150	00:02:30	4.77	1.20
180	00:03:00	4.77	1.20
210	00:03:30	4.8	1.17
240	00:04:00	4.87	1.10
270	00:04:30	4.92	1.05
300	00:05:00	5.03	0.94
360	00:06:00	5.1	0.87
420	00:07:00	5.15	0.82
480	00:08:00	5.22	0.75
540	00:09:00	5.32	0.65
600	00:10:00	5.4	0.57
660	00:11:00	5.45	0.52
720	00:12:00	5.52	0.45
780	00:13:00	5.56	0.41
840	00:14:00	5.62	0.35
900	00:15:00	5.66	0.31
2,400	00:40:00	5.97	0.00

Appendix F

General Limitations and Exceptions

General Limitations and Exceptions

1. The advice given in this report with respect to contaminated land/pollution is based on the guidelines available at the time of writing.

2. This report does not include for an assessment of above-ground structures on site for the presence of potential asbestos containing materials.

3. The Client is advised that the conditions observed on site by SEC at the time of the investigation or assessment is subject to change. Certain indicators of the presence of hazardous substances may have been latent at the time of the most recent site reconnaissance or investigation and they may subsequently have become observable.

4. Comments made relating to land gas or groundwater conditions are based on observations made at the time of an investigation unless otherwise stated. However, land gas or groundwater conditions may vary as a result of seasonal or other effects. It would be prudent to conduct groundwater monitoring.

5. This assessment may be subject to amendment in light of additional information becoming available.

6. The findings and opinions conveyed in this report are based on information obtained from a variety of sources, including that from chemical testing laboratories, and which SEC has assumed are correct. Nevertheless, SEC cannot and does not guarantee the authenticity or reliability of the information it has relied upon. SEC can accept no responsibility for inaccuracies within the data supplied by other parties.

7. This report is written in the context of an agreed scope of work between SEC and the Client and should not be used in a different context. In light of additional information becoming available, improved practices and changes in legislation amendment or re-interpretation of the assessment or report in whole or part may be necessary after its original submission.

8. This report is provided for sole use by the Client and is confidential to them. No responsibility whatsoever for the contents of the report will be accepted to anyone other than the Client.

9. SEC believes that providing information about limitations is essential to help the Client identify and thereby manage risks.

10. The copyright of written materials supplied shall remain the property of SEC but with a royalty free perpetual licence, granted to the Client on payment in full of any outstanding monies.

11. SEC does not provide legal advice and the advice of the Client‘s legal advisors may also be required.

12. No allowance has been made in this report for testing which may be required for waste categorisation prior to the removal of any material from site for disposal.

13. The report is issued on the condition that SEC will under no circumstances be liable for any loss arising directly or indirectly from ground conditions between the boreholes or trial pits which have not been shown by the borehole, trial pits or other tests carried out during the investigation.

14. In addition, SEC will not be liable for any loss whatsoever arising directly or indirectly from any opinion given on the possible configuration of strata both between the borehole and/or trial pit positions and/or below the maximum depth of the investigation. Such opinions, where given, are for guidance only.

15. No person other than the client to whom this report is addressed, shall rely on it in any respect and no duty of care shall be owed to any such third party.

16. Copyright of this Report remains with SEC and in addition we will not accept any responsibility for the report and recommendations given until our invoice is settled in full.

17. That this investigation has relied on information from a discrete number of exploratory hole locations and allowances should be made for the variation in ground conditions between these locations and within the site boundary.

18. It should be noted that the Made Ground depth recorded above is that encountered within the trial pits undertaken during the phase of work to which this report pertains. Owing to the variable nature and unknown deposition criteria of Made Ground it is possible that deeper or more extensive areas of Made Ground may exist at this site which have not been revealed by the current work.

19. Should the proposed end use or site layout change then a reassessment of potential risks will be required.