

APPENDIX D

HHH



A : C



A : E



A : F



A: =C



A: ±E



A: =G



A: H



A. A.



A: AA



A. AC



APPENDIX E

Percussion Drilling Log

Project Name: Holland Park, Spalding		Client: Country Court Care Group		Date: 04/03/2026 - 05/03/2026	
Location: Shakespeare Way, Spalding, PE11 1UZ		Contractor:		Co-ords: E523338.00 N321401.00	
Project No. : 102378		Crew Name: Borehole Solutions		Drilling Equipment: Sonic Fraste ML	
Borehole Number BH01	Hole Type SNC	Level	Logged By MD	Scale 1:50	Page Number Sheet 1 of 3

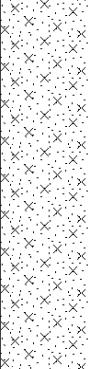
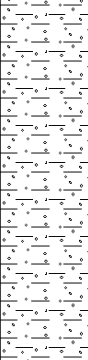
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10			0.10			MADE GROUND: Brown slightly clayey silty slightly gravelly TOPSOIL. Gravel is fine to coarse angular to subangular flint and chalk.	
		0.40			0.40			MADE GROUND: Light brown slightly sandy slightly gravelly SILT. Gravel is fine to coarse angular flint, chalk and brick.	
		1.20	D					Brown clayey slightly sandy SILT with rare chalk and flint gravels.	1
		1.20	SPT	N=5 (1,1/2,1,1,1)	1.20			Brownish grey clayey SILT.	
		2.00	SPT					Dark grey slightly sandy SILT.	2
		2.00	SPT	N=5 (1,1/1,1,2,1)				Dark grey slightly sandy SILT.	
		2.50	D					Dark grey slightly sandy SILT.	3
		3.00	B		3.00			Dark grey slightly sandy SILT.	
		3.00	D					Dark grey slightly sandy SILT.	4
		3.00	SPT	N=5 (1,1/2,1,1,1)				Dark grey slightly sandy SILT.	
		3.00	SPT					Dark grey slightly sandy SILT.	5
		4.00	D					Dark grey slightly sandy SILT.	6
		4.00	SPT					Dark grey slightly sandy SILT.	
		4.00	SPT	N=4 (1,1/1,1,1,1)				Dark grey slightly sandy SILT.	7
		5.00	D					Dark grey slightly sandy SILT.	
		5.00	SPT	N=1 (1,0/1,0,0,0)				Dark grey slightly sandy SILT.	8
		6.00	D					Dark grey slightly sandy SILT.	
		6.50	SPT		6.50			Brownish grey silty fine to medium SAND.	9
		6.50	SPT	N=2 (1,0/1,0,1,0)				Brownish grey silty fine to medium SAND.	
		7.50	D					Brownish grey silty fine to medium SAND.	10
		8.00	SPT					Brownish grey silty fine to medium SAND.	
		8.00	SPT	N=6 (1,1/2,1,1,2)				Brownish grey silty fine to medium SAND.	
		9.00	D					Brownish grey silty fine to medium SAND.	
		9.50	SPT					Brownish grey silty fine to medium SAND.	
		9.50	SPT	N=8 (1,2/2,2,1,3)				Brownish grey silty fine to medium SAND.	

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks 1. Made ground present to 0.40mbgl. 2. Groundwater identified at 3.00mbgl. 3. Borehole installed with a monitoring well upon completion.										
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Percussion Drilling Log

Project Name: Holland Park, Spalding		Client: Country Court Care Group		Date: 04/03/2026 - 05/03/2026	
Location: Shakespeare Way, Spalding, PE11 1UZ		Contractor:		Co-ords: E523338.00 N321401.00	
Project No. : 102378		Crew Name: Borehole Solutions		Drilling Equipment: Sonic Fraste ML	
Borehole Number BH01	Hole Type SNC	Level	Logged By MD	Scale 1:50	Page Number Sheet 2 of 3

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description						
		Depth (m)	Type	Results										
		10.50	D	N=9 (1,2/2,2,2,3)	12.50			Brownish grey silty fine to medium SAND.	11					
		11.00 11.00	SPT SPT											
		12.00	D	N=16 (2,3/3,4,4,5)			12.50			Greyish brown slightly silty gravelly to very gravelly SAND. Gravel is fine to coarse angular to subrounded chalk and flint. Sand is fine to medium.	13			
		12.50 12.50	SPT SPT											
		13.50 13.50	B D		14.90								Grey / dark grey slightly gravelly CLAY. Gravel is fine to coarse angular to subangular chalk, flint and occasional flint cobbles.	15
		15.00 15.00	D U											
		16.50	D	N=43 (6,7/10,10,11,12)						16				
		17.00 17.00	SPT SPT											
		18.00	D		N=44 (7,7/10,11,11,12)								17	
		18.50 18.50	D SPT											
		19.50	D							18				
		20.00	SPT											
		20.00	SPT		20.00									19

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks

- Made ground present to 0.40mbgl.
- Groundwater identified at 3.00mbgl.
- Borehole installed with a monitoring well upon completion.

Percussion Drilling Log

Project Name: Holland Park, Spalding		Client: Country Court Care Group		Date: 04/03/2026 - 05/03/2026	
Location: Shakespeare Way, Spalding, PE11 1UZ		Contractor:		Co-ords: E523338.00 N321401.00	
Project No. : 102378		Crew Name: Borehole Solutions		Drilling Equipment: Sonic Fraste ML	
Borehole Number BH01	Hole Type SNC	Level	Logged By MD	Scale 1:50	Page Number Sheet 3 of 3

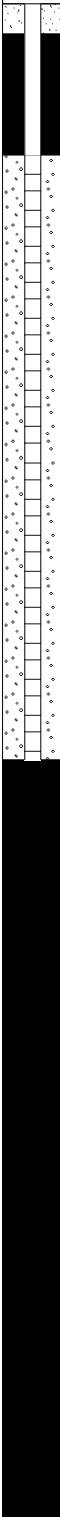
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		20.00	SPT	N=46 (6,7/11,12,11,12)				End of Borehole at 20.00m	
									21
									22
									23
									24
									25
									26
									27
									28
									29
									30

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks 1. Made ground present to 0.40mbgl. 2. Groundwater identified at 3.00mbgl. 3. Borehole installed with a monitoring well upon completion.										
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Percussion Drilling Log

Project Name: Holland Park, Spalding		Client: Country Court Care Group		Date: 05/03/2026 - 06/03/2026	
Location: Shakespeare Way, Spalding, PE11 1UZ		Contractor:		Co-ords: E523385.00 N321378.00	
Project No. : 102378		Crew Name: Borehole Solutions		Drilling Equipment: Sonic Fraste ML	
Borehole Number BH02	Hole Type SNC	Level	Logged By MD	Scale 1:50	Page Number Sheet 1 of 3

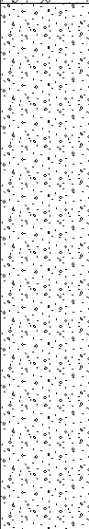
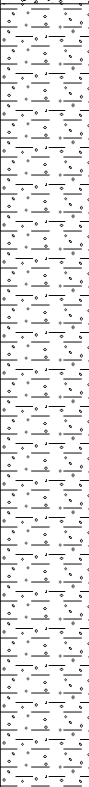
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
					0.10			MADE GROUND: Brown slightly clayey silty slightly gravelly TOPSOIL. Gravel is fine to coarse angular to subangular flint and chalk.		
		0.50	D		0.40			MADE GROUND: Light brown slightly sandy slightly gravelly SILT. Gravel is fine to coarse angular flint, chalk and brick.		
		1.20	SPT	N=3 (1,1/1,0,1,1)	1.00			Brown slightly clayey slightly sandy SILT.	1	
		1.20	SPT				Orangish brown slightly clayey slightly sandy SILT.			
		1.80	D		2.00			Greyish brown sandy SILT.	2	
		2.00	B							
		2.00	SPT	N=4 (1,2/1,1,1,1)						
		2.00	SPT							
		2.50	D							
		3.00	SPT	N=5 (1,0/1,2,1,1)					3	
		3.00	SPT							
		3.50	D							
		4.00	SPT	N=2 (1,0/1,0,1,0)					4	
		4.00	SPT							
		4.50	D							
		5.00	B		5.50				5	
		5.00	SPT	N=5 (1,2/1,1,2,1)						
		5.00	SPT							
		6.00	D					Brownish grey silty fine to medium SAND.	6	
		6.50	D							
		6.50	SPT	N=5 (1,2/2,1,1,1)					7	
		6.50	SPT							
		7.50	D							
		8.00	SPT	N=8 (1,2/2,2,1,3)					8	
		8.00	SPT							
		9.00	D						9	
		9.50	SPT	N=10 (2,2/1,3,3,3)						
		9.50	SPT						10	
				10.00						

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks 1. Made ground present to 0.40mbgl. 2. Groundwater identified at 3.00mbgl. 3. Borehole installed with a monitoring well upon completion.										
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Percussion Drilling Log

Project Name: Holland Park, Spalding		Client: Country Court Care Group		Date: 05/03/2026 - 06/03/2026	
Location: Shakespeare Way, Spalding, PE11 1UZ		Contractor:		Co-ords: E523385.00 N321378.00	
Project No. : 102378		Crew Name: Borehole Solutions		Drilling Equipment: Sonic Fraste ML	
Borehole Number BH02	Hole Type SNC	Level	Logged By MD	Scale 1:50	Page Number Sheet 2 of 3

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.50	D	N=13 (1,2/2,4,3,4)	11.30			Brownish grey slightly silty SAND with occasional fine chalk gravels.	11
		11.00	SPT						
		11.00	SPT						
		12.00	D	N=22 (2,4/6,5,5,6)				Brownish grey gravelly SAND. Gravel is fine to medium angular to subangular chalk and flint.	12
		12.50	SPT						
		12.50	SPT						
		13.50	D	N=22 (3,5/5,5,6,6)					13
		14.00	SPT						
		14.00	SPT						
		15.00	D		14.80			Grey / dark grey slightly gravelly CLAY. Gravel is fine to coarse angular to subangular chalk, flint and occasional flint cobbles.	15
		15.50	U						
		16.00	B						
		17.00	SPT	N=37 (5,7/8,9,10,10)					17
		17.00	SPT						
18.00	D	N=41 (6,7/9,10,10,12)					18		
18.50	SPT								
18.50	SPT								
19.50	D						19		
20.00	SPT		20.00				20		

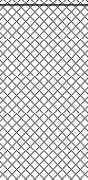
Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks 1. Made ground present to 0.40mbgl. 2. Groundwater identified at 3.00mbgl. 3. Borehole installed with a monitoring well upon completion.										
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		Percussion Drilling Log									
Project Name: Holland Park, Spalding				Client: Country Court Care Group				Date: 05/03/2026 - 06/03/2026			
Location: Shakespeare Way, Spalding, PE11 1UZ				Contractor:				Co-ords: E523385.00 N321378.00			
Project No. : 102378				Crew Name: Borehole Solutions				Drilling Equipment: Sonic Fraste ML			
Borehole Number BH02		Hole Type SNC		Level		Logged By MD		Scale 1:50		Page Number Sheet 3 of 3	
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
		Depth (m)	Type	Results							
		20.00	SPT	N=45 (6,8/10,10,12,13)				End of Borehole at 20.00m			
											21
											22
											23
											24
											25
											26
											27
											28
											29
											30
Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
Remarks											
1. Made ground present to 0.40mbgl.											
2. Groundwater identified at 3.00mbgl.											
3. Borehole installed with a monitoring well upon completion.											

Trial Pit Log

Project Name: Holland Park, Spalding		Client: Country Court Care Group		Date: 06/03/2026	
Location: Shakespeare Way, Spalding, PE11 1UZ		Contractor:		Co-ords: E523332.00 N321381.00	
Project No. : 102378		Crew Name: Maddock Geotechnical Support		Equipment: 3 Tonne Excavator	
Location Number TP01	Location Type TP	Level	Logged By MD	Scale 1:15	Page Number Sheet 1 of 1

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth (m)	Type	Results					
	0.10	ES		0.10			MADE GROUND: Dark brown slightly clayey slightly silty sandy TOPSOIL. Occasional gravels of brick, concrete and chalk.	
							MADE GROUND: Brown clayey slightly sandy SILT with occasional gravels of brick, concrete, flint and chalk.	
				0.30				
							MADE GROUND: Dark brown clayey slightly sandy SILT with occasional gravels of brick, concrete, flint and chalk.	0.5
	0.60	B		0.65			Greyish brown slightly sandy SILT.	1.0
				1.30			Orange slightly sandy SILT.	
				1.40			Brownish grey occasionally orangish grey slightly sandy SILT.	1.5
								2.0
								2.5
				2.60			End of Borehole at 2.60m	3.0

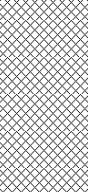
Dimensions		Trench Support and Comment				Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks		Date	Rate	Remarks

Remarks

- Made ground present to 0.65mbgl.
- Slight groundwater ingress at base.
- Pit backfilled with arisings upon completion.

Trial Pit Log

Project Name: Holland Park, Spalding		Client: Country Court Care Group	Date: 06/03/2026
Location: Shakespeare Way, Spalding, PE11 1UZ		Contractor:	Co-ords: E523344.00 N321415.00
Project No. : 102378		Crew Name: Maddock Geotechnical Support	Equipment: 3 Tonne Excavator
Location Number TP02	Location Type TP	Level	Logged By MD Scale 1:15 Page Number Sheet 1 of 1

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth (m)	Type	Results					
				0.10			MADE GROUND: Dark brown clayey slightly silty sandy TOPSOIL.	
	0.30	ES					MADE GROUND: Light brown slightly sandy SILT with occasional gravels of flint, brick, chalk and concrete.	
	0.60	B		0.50			MADE GROUND: Brown slightly sandy slightly gravelly SILT. Gravel is fine to medium angular to subangular concrete, brick, flint and chalk.	0.5
				0.65			Greyish brown slightly sandy SILT.	
				1.00			Greyish orange slightly sandy SILT.	1.0
	1.30	D						1.5
	2.10	D						2.0
				2.40			End of Borehole at 2.40m	2.5
								3.0

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks

Remarks 1. Made ground present to 0.65mbgl. 2. Slight groundwater ingress at base. 3. Pit backfilled with arisings upon completion.							
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Trial Pit Log

Project Name: Holland Park, Spalding		Client: Country Court Care Group		Date: 06/03/2026	
Location: Shakespeare Way, Spalding, PE11 1UZ		Contractor:		Co-ords: E523359.00 N321397.00	
Project No. : 102378		Crew Name: Maddock Geotechnical Support		Equipment: 3 Tonne Excavator	
Location Number TP03	Location Type TP	Level	Logged By MD	Scale 1:15	Page Number Sheet 1 of 1

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth (m)	Type	Results					
	0.20	ES		0.15			MADE GROUND: Dark brown clayey slightly silty sandy TOPSOIL.	
	0.55	B		0.60			MADE GROUND: Brown clayey slightly sandy SILT with occasional gravels of flint, brick and concrete.	0.5
	1.10	D		0.90			MADE GROUND: Brown slightly sandy gravelly SILT. Gravel is fine to coarse angular to subangular chalk, concrete, flint and occasional brick.	
	1.50	D		1.20			Greyish brown slightly sandy SILT.	1.0
				1.60			Greyish orange slightly sandy SILT.	
				1.70			Grey occasionally mottled orange clayey SILT.	
							1.40 – 1.60m: Band of grey silty CLAY with peaty regions.	
							Orangish grey occasionally brownish grey slightly clayey slightly sandy SILT.	2.0
				2.40			End of Borehole at 2.40m	2.5
								3.0

Dimensions		Trench Support and Comment				Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks		Date	Rate	Remarks

Remarks

- Made ground present to 0.90mbgl.
- Slight groundwater ingress at base.
- Pit backfilled with arisings upon completion.

Trial Pit Log

Project Name: Holland Park, Spalding		Client: Country Court Care Group		Date: 06/03/2026	
Location: Shakespeare Way, Spalding, PE11 1UZ		Contractor:		Co-ords: E523354.00 N321367.00	
Project No. : 102378		Crew Name: Maddock Geotechnical Support		Equipment: 3 Tonne Excavator	
Location Number TP04	Location Type TP	Level	Logged By MD	Scale 1:15	Page Number Sheet 1 of 1

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth (m)	Type	Results					
				0.15			MADE GROUND: Dark brown clayey silty slightly sandy TOPSOIL with occasional gravels of brick, concrete and chalk.	
				0.30				
	0.50	ES		0.60			MADE GROUND: Brown silty sandy gravelly to very gravelly FILL. Gravel is fine to coarse angular to subangular brick, tile, concrete and flint.	0.5
	0.65	B						
							Greyish brown slightly sandy SILT.	
				1.00				
							Light brown / orange sandy SILT.	1.0
								
	1.40	D		1.60				1.5
							Grey clayey SILT with occasional bands of dark grey / dark brown peat.	
								
	1.80	D		2.00			Greyish orange slightly sandy SILT.	2.0
								
				2.40			End of Borehole at 2.40m	2.5
								
								
								
								
								
								
								
								
								
								
								
								
								

Dimensions		Trench Support and Comment				Pumping Data	
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks		Date	Rate

Remarks 1. Made ground present to 0.60mbgl. 2. Slight groundwater ingress at base. 3. Pit backfilled with arisings upon completion.							
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		Trial Pit Log							
Project Name: Holland Park, Spalding				Client: Country Court Care Group			Date: 06/03/2026		
Location: Shakespeare Way, Spalding, PE11 1UZ				Contractor:			Co-ords: E523375.00 N321358.00		
Project No. : 102378				Crew Name: Maddock Geotechnical Support			Equipment: 3 Tonne Excavator		
Location Number TP05		Location Type TP		Level		Logged By MD		Scale 1:15	Page Number Sheet 1 of 1

Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
Depth (m)	Type	Results					
0.05	ES		0.15			MADE GROUND: Brown slightly clayey slightly silty sandy TOPSOIL with rare gravels of brick and concrete.	0.5
						MADE GROUND: Brown slightly sandy SILT with occasional flint and chalk gravels and rare brick fragments.	
0.65	B		0.60			Brown slightly sandy SILT with occasional flint and chalk gravels.	
			0.90			Brownish grey sandy SILT.	1.0
1.30	D		1.10			Grey and orange slightly sandy SILT.	
							1.5
						1.45 - 1.60m: Rare pockets of grey peaty CLAY.	
							2.0
			2.30			End of Borehole at 2.30m	2.5
							3.0

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks

Remarks

- Made ground present to 0.60mbgl.
- No groundwater encountered.
- Pit backfilled with arisings upon completion.



Trial Pit Log

Project Name: Holland Park, Spalding		Client: Country Court Care Group		Date: 06/03/2026	
Location: Shakespeare Way, Spalding, PE11 1UZ		Contractor:		Co-ords: E523393.00 N321386.00	
Project No. : 102378		Crew Name: Maddock Geotechnical Support		Equipment: 3 Tonne Excavator	
Location Number TP06	Location Type TP	Level	Logged By MD	Scale 1:15	Page Number Sheet 1 of 1

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth (m)	Type	Results					
	0.10	ES		0.10			MADE GROUND: Brown slightly clayey slightly silty sandy TOPSOIL with rare gravels of brick and concrete.	
	0.20						MADE GROUND: Light brown slightly sandy slightly gravelly SILT. Gravel is fine to coarse angular flint, chalk and brick.	
		B		0.40			MADE GROUND: Brown slightly sandy slightly gravelly SILT. Gravel is fine to coarse angular flint and chalk. Rare brick cobble.	0.5
	0.55			0.70			Brown slightly sandy SILT with occasional gravels of flint and chalk.	
				1.10			Orange and grey slightly sandy SILT.	1.0
		D		1.60			1.40 – 1.50m: Occasional pockets of clayey gravelly SILT with peaty regions.	1.5
	1.70						Greyish orange slightly clayey slightly sandy SILT.	
							2.00m: Becoming orangish grey.	2.0
							2.30m: Slight groundwater ingress.	
				2.50			End of Borehole at 2.50m	2.5
								3.0

Dimensions		Trench Support and Comment				Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks		Date	Rate	Remarks

Remarks

- Made ground present to 0.70mbgl.
- Slight groundwater ingress at 2.3mbgl.
- Pit backfilled with arisings upon completion.

APPENDIX F



Final Report

Report No.: 26-08665-1

Initial Date of Issue: 13-Apr-2026

Re-Issue Details:

Client *Lucion Ground Engineering Limited*

Client Address: *Newark Road
Peterborough
Cambridgeshire
PE1 5UA*

Contact(s): *Matt Hartnup*

Project *147776 Holland Park, Spalding*

Quotation No.: *Q26-40647*

Date Received: 20-Mar-2026

Order No.: 26443

Date Instructed: 20-Mar-2026

No. of Samples: 13

Turnaround (Wkdays): 10

Results Due: 02-Apr-2026

Date Approved: 13-Apr-2026

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: 147776 Holland Park, Spalding

Client: Lucion Ground Engineering Limited		Chemtest Job No.:	26-08665	26-08665	26-08665	26-08665	26-08665	26-08665	26-08665	26-08665	26-08665	26-08665	26-08665	26-08665	26-08665	26-08665	26-08665
Quotation No.: Q26-40647		Chemtest Sample ID.:	2099419	2099420	2099421	2099422	2099423	2099424	2099425	2099426	2099427	2099428	2099429	2099430			
Order No.: 26443		Client Sample Ref.:	D2	D1	D1	D9	D15	D23	D27	D1	D3	D10	D25	B27			
		Client Reference:	TP03	TP04	BH01	BH01	BH01	BH01	BH02	BH02	BH02	BH02	BH02	BH02			
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
		Top Depth (m):	1.50	1.80	0.50	4.50	9.00	15.00	18.00	0.50	1.80	4.50	15.00	16.00			
		Bottom Depth (m):												16.50			
Determinand	HWOL Code	Accred.	SOP	Units	LOD												
pH (2.5:1) at 20C		N	2010		4.0	7.1	6.9	8.1	8.4	8.6	8.5	7.8	7.7	8.0	8.0	7.8	8.0
Moisture		N	2030	%	0.020	34	42	16	17	16	14	14	19	20	20	11	13
Sulphate (Acid Soluble)		U	2430	%	0.010	0.28	0.17	0.022	0.030	0.022	0.070	0.097	0.071	0.026	0.027	0.054	0.10
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	0.52	0.32	0.010	0.050	0.080	0.17	0.18	0.040	0.040	0.040	0.13	0.20
Soil Colour		N	2030		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2030		N/A	None	None	Stones	None	Stones	Stones	Stones	Stones	None	None	Stones	Stones
Soil Texture		N	2030		N/A	Clay	Clay	Clay	Sand	Sand	Clay	Clay	Clay	Sand	Sand	Clay	Clay
Total Sulphur		U	2175	%	0.010	0.21	0.37	0.027	0.024	0.022	0.58	0.55	0.057	0.019	0.020	0.073	0.67

Results - Soil

Project: 147776 Holland Park, Spalding

Client: Lucion Ground Engineering Limited		Chemtest Job No.:				26-08665
Quotation No.: Q26-40647		Chemtest Sample ID.:				2099431
Order No.: 26443		Client Sample Ref.:				D32
		Client Reference:				BH02
		Sample Type:				SOIL
		Top Depth (m):				19.50
		Bottom Depth (m):				
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
pH (2.5:1) at 20C		N	2010		4.0	7.9
Moisture		N	2030	%	0.020	14
Sulphate (Acid Soluble)		U	2430	%	0.010	0.082
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	0.16
Soil Colour		N	2030		N/A	Brown
Other Material		N	2030		N/A	Stones
Soil Texture		N	2030		N/A	Clay
Total Sulphur		U	2175	%	0.010	0.63

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Chemtest Sample ID	Clients Sample Ref:	Clients Sample ID:	Clients Reference:	Sampled Date:	Deviation Code(s):	Containers Received:
2099419	D2		TP03		A	Plastic Tub 500g
2099420	D1		TP04		A	Plastic Tub 500g
2099421	D1		BH01		A	Plastic Tub 500g
2099422	D9		BH01		A	Plastic Tub 500g
2099423	D15		BH01		A	Plastic Tub 500g
2099424	D23		BH01		A	Plastic Tub 500g
2099425	D27		BH02		A	Plastic Tub 500g
2099426	D1		BH02		A	Plastic Tub 500g
2099427	D3		BH02		A	Plastic Tub 500g
2099428	D10		BH02		A	Plastic Tub 500g
2099429	D25		BH02		A	Plastic Tub 500g
2099430	B27		BH02		A	Plastic Tub 500g
2099431	D32		BH02		A	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	

Report Information

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

Text example All items indicated in italic font represent customer-supplied information that may not be independently verified by the laboratory

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

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

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

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

Where analysis is performed on a dried and crushed sample, it has been prepared by crushing all of the sample. If material has been removed prior to crushing, or by request of the client, this will be stated on the report.

NEW_ASB Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL

DURHAM Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

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

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

Report Information

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

DW - Drinking Water (Non-Regulatory)
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
cs@etuki.eurofins.com



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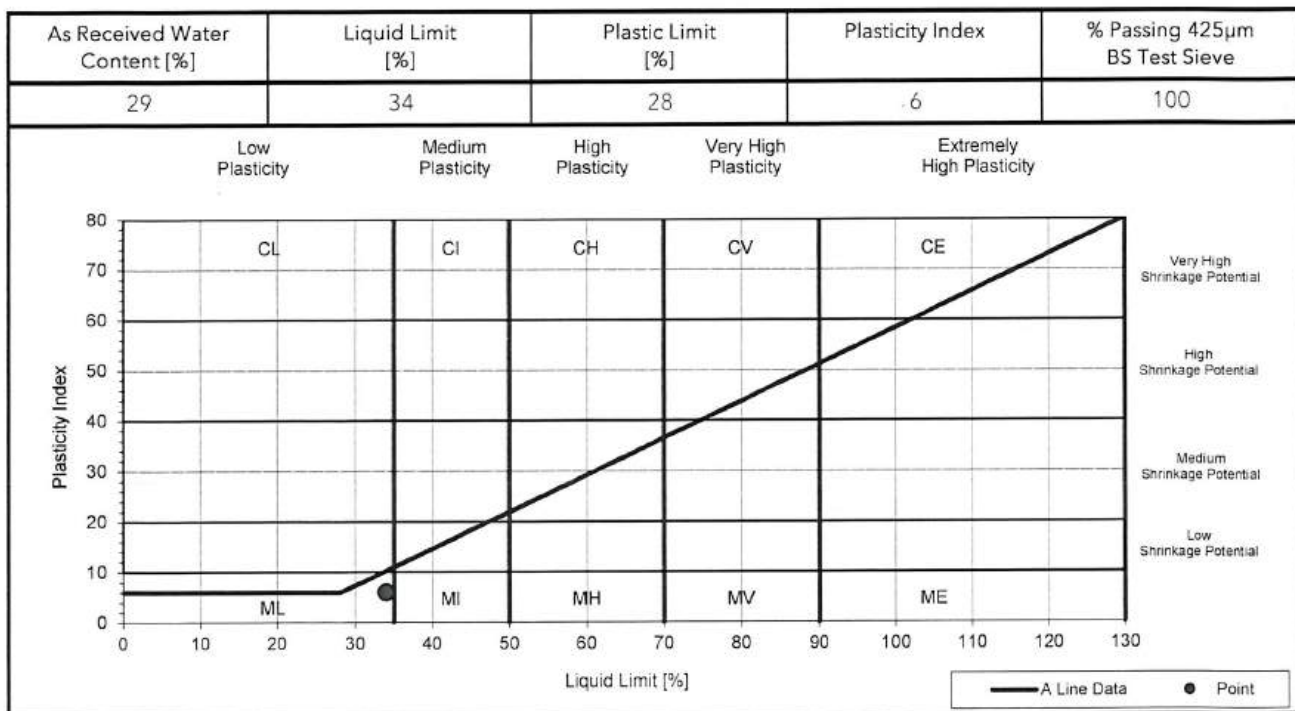
Ground Engineering Ltd**TEST CERTIFICATE****Determination of Liquid and Plastic Limits by Fall****Cone**

BS EN ISO 17892-12 : 2018 + A2 : 2022, clause 5.3 and 5.5

Newark Road, Peterborough
t: 01733 566566
e: geadmin@luciongroup.com

Client: Dice Environmental Ltd
Client Address: Bridge House
9 - 13 Holbrook Lane
Coventry
CV6 4AD
Contact: Jon Higgins
Site Name: Holland Park, Spalding

Certificate Number: PL9341-1/1/704
Client Reference: 147776
Job Number: PL9341-1
Date Sampled: Unknown
Date Received: 12/03/2026
Date Tested: 23/03/2026
Certificate of Sampling: N/A
Sampling Certificate No.: N/A
Sampled By: Client

TEST RESULTS**Laboratory Reference:** PL9341-1/1**Sample Reference:** D1**Sample Description:** Brown-grey slightly clayey very sandy SILT.**Location:** TP01**Depth:** 2.00m**Sample Preparation:** Tested in as received condition

Comments:

Single Point Test carried out.
80g/30 degree fall cone used during test.

Single point test average cone penetration, average water content and associated correlation factor: 21.8mm, 34.7%, x0.975. Factors for 1 point cone penetrometer liquid limit taken from Table 1 BS1377-2:2022 5.3 (Clayton and Jukes)

Approved Signatory: Matt Hartnup - Laboratory Manager**Signed:**

for and on behalf of Lucion Ground Engineering Ltd

Date Reported: 10/04/2026 Page 1 of 1
Form Number: GELab/C/704 Issue 2 Version 1

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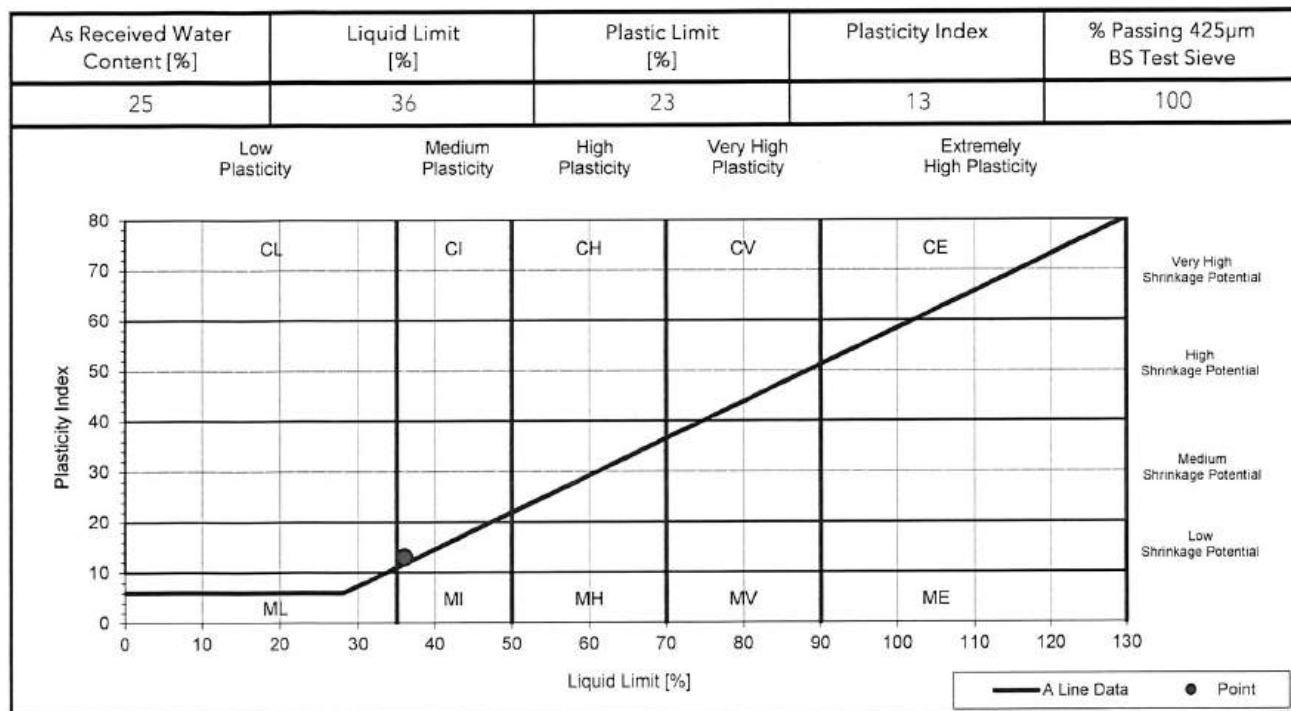
Newark Road, Peterborough

t: 01733 566566

e: geadmin@luciongroup.com

Client: Dice Environmental Ltd
 Client Address: Bridge House
 9 - 13 Holbrook Lane
 Coventry
 CV6 4AD
 Contact: Jon Higgins
 Site Name: Holland Park, Spalding

Certificate Number: PL9341-1/2/704
 Client Reference: 147776
 Job Number: PL9341-1
 Date Sampled: Unknown
 Date Received: 12/03/2026
 Date Tested: 26/03/2026
 Certificate of Sampling: N/A
 Sampling Certificate No.: N/A
 Sampled By: Client

TEST RESULTS**Laboratory Reference:** PL9341-1/2**Sample Reference:** D1**Sample Description:** Grey orange-brown brown clayey sandy SILT.**Location:** TP02**Depth:** 1.30m**Sample Preparation:** Tested in as received condition

Comments:

Single Point Test carried out.
 80g/30 degree fall cone used during test.

Single point test average cone penetration, average water content and associated correlation factor: 19.7mm, 35.6%, x1.006. Factors for 1 point cone penetrometer liquid limit taken from Table 1 BS1377-2:2022 5.3 (Clayton and Jukes)

Approved Signatory: Matt Hartnup - Laboratory Manager**Signed:**

for and on behalf of Lucion Ground Engineering Ltd

Date Reported: 10/04/2026 Page 1 of 1
 Form Number: GELab/C/704 Issue 2 Version 1

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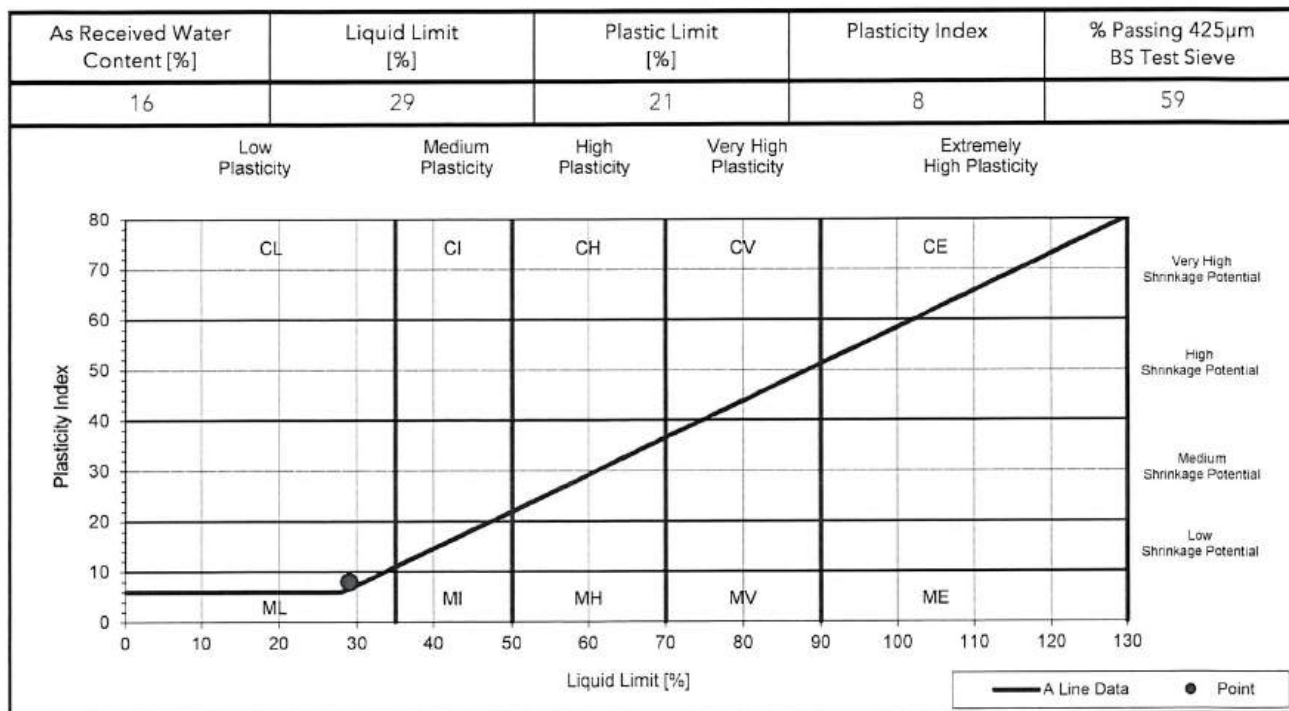
TEST CERTIFICATE**Determination of Liquid and Plastic Limits by Fall****Cone**

BS EN ISO 17892-12 : 2018 + A2 : 2022, clause 5.3 and 5.5

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Client: Dice Environmental Ltd
Client Address: Bridge House
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Contact: Jon Higgins
Site Name: Holland Park, Spalding

Certificate Number: PL9341-1/3/704
Client Reference: 147776
Job Number: PL9341-1
Date Sampled: Unknown
Date Received: 12/03/2026
Date Tested: 25/03/2026
Certificate of Sampling: N/A
Sampling Certificate No.: N/A
Sampled By: Client

TEST RESULTS**Laboratory Reference:** PL9341-1/3**Sample Reference:** B1**Sample Description:** Brown slightly clayey silty sandy GRAVEL with occasional roots < 1 mm in diameter. Gravel consists of angular to subrounded flint limestone and granite.**Location:** TP03**Depth:** 0.55m**Sample Preparation:** Tested after washing to remove > 425µm

Comments:

Single Point Test carried out.
80g/30 degree fall cone used during test.

Single point test average cone penetration, average water content and associated correlation factor: 21.8mm, 29.5%, x0.974. Factors for 1 point cone penetrometer liquid limit taken from Table 1 BS1377-2:2022 5.3 (Clayton and Jukes)

Approved Signatory: Matt Hartnup - Laboratory Manager

Signed:

for and on behalf of Lucion Ground Engineering Ltd

Date Reported: 10/04/2026 Page 1 of 1
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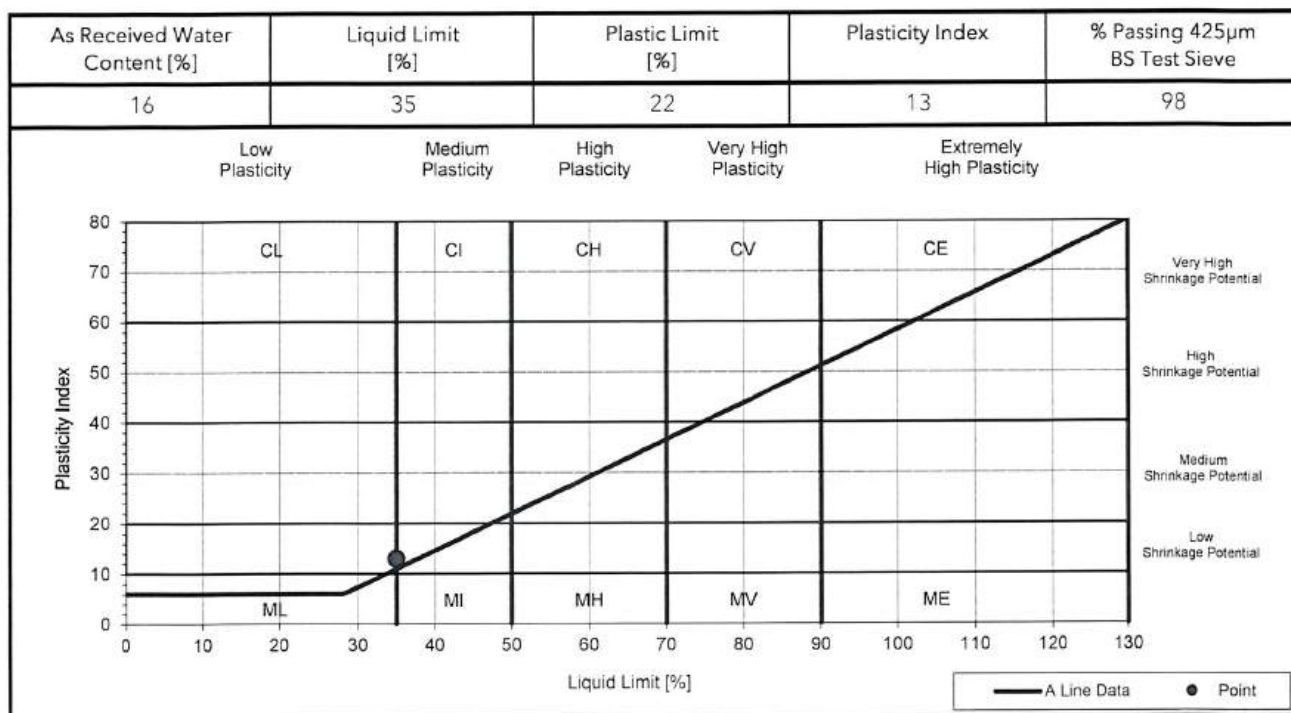
Newark Road, Peterborough

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Client: Dice Environmental Ltd
 Client Address: Bridge House
 9 - 13 Holbrook Lane
 Coventry
 CV6 4AD
 Contact: Jon Higgins
 Site Name: Holland Park, Spalding

Certificate Number: PL9341-1/4/704
 Client Reference: 147776
 Job Number: PL9341-1
 Date Sampled: Unknown
 Date Received: 12/03/2026
 Date Tested: 25/03/2026
 Certificate of Sampling: N/A
 Sampling Certificate No.: N/A
 Sampled By: Client

TEST RESULTS**Laboratory Reference:** PL9341-1/4**Sample Reference:** D1**Sample Description:** Dark-brown slightly clayey slightly sandy SILT.**Location:** TP03**Depth:** 1.10m**Sample Preparation:** Tested after >425um removed by hand**Comments:**

Single Point Test carried out.
 80g/30 degree fall cone used during test.

Single point test average cone penetration, average water content and associated correlation factor: 20.4mm, 35.1%, x0.994. Factors for 1 point cone penetrometer liquid limit taken from Table 1 BS1377-2:2022 5.3 (Clayton and Jukes)

Approved Signatory: Matt Hartnup - Laboratory Manager**Signed:**

for and on behalf of Lucion Ground Engineering Ltd

Date Reported: 10/04/2026 Page 1 of 1
 Form Number: GELab/C/704 Issue 2 Version 1

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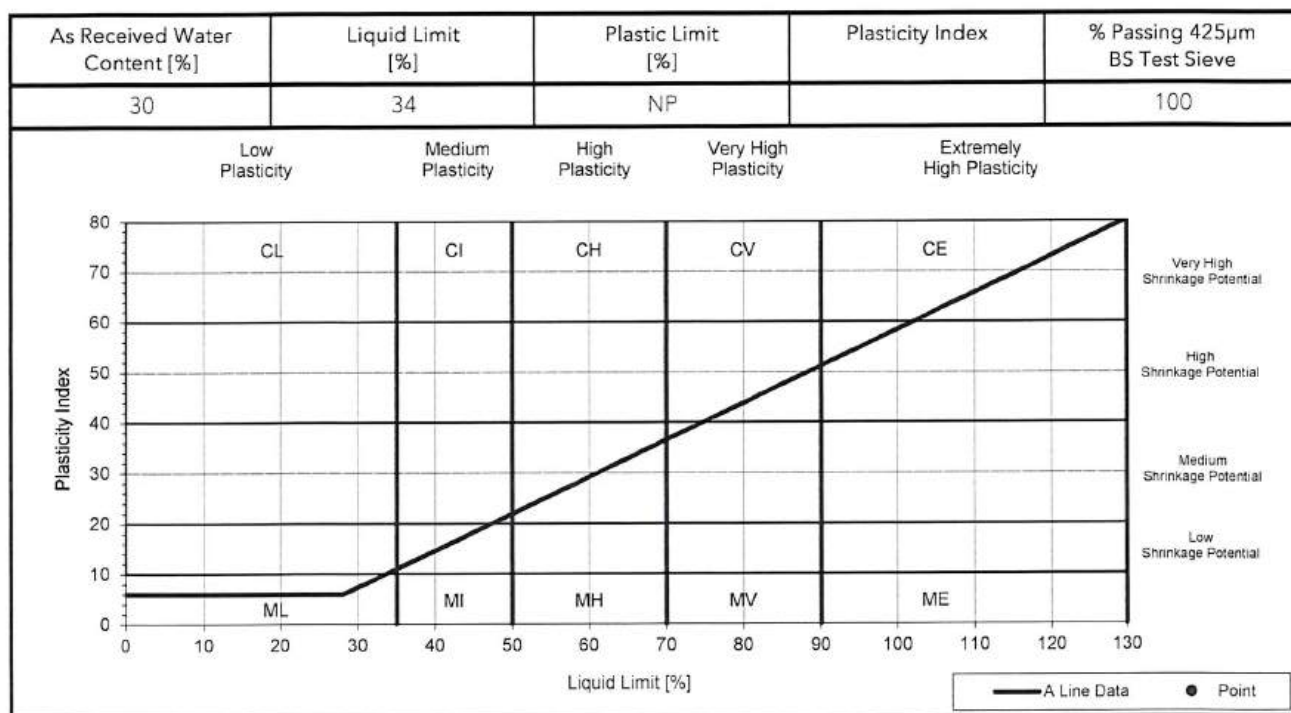
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Client: Dice Environmental Ltd
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 Contact: Jon Higgins
 Site Name: Holland Park, Spalding

Certificate Number: PL9341-1/6/704
 Client Reference: 147776
 Job Number: PL9341-1
 Date Sampled: Unknown
 Date Received: 12/03/2026
 Date Tested: 27/03/2027
 Certificate of Sampling: N/A
 Sampling Certificate No.: N/A
 Sampled By: Client

TEST RESULTS**Laboratory Reference:** PL9341-1/6**Sample Reference:** D1**Sample Description:** Light-brown orange-brown very sandy SILT.**Location:** TP04**Depth:** 1.40m**Sample Preparation:** Tested after >425um removed by hand

Comments: Sample is Non-Plastic.

Single Point Test carried out.
 80g/30 degree fall cone used during test.

Single point test average cone penetration, average water content and associated correlation factor: 22.4mm, 35.3%, x0.964. Factors for 1 point cone penetrometer liquid limit taken from Table 1 BS1377-2:2022 5.3 (Clayton and Jukes)

Approved Signatory: Matt Hartnup - Laboratory Manager

Signed:

for and on behalf of Lucion Ground Engineering Ltd

Date Reported: 10/04/2026 Page 1 of 1
 Form Number: GELab/C/704 Issue 2 Version 1

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 Site Name: Holland Park, Spalding

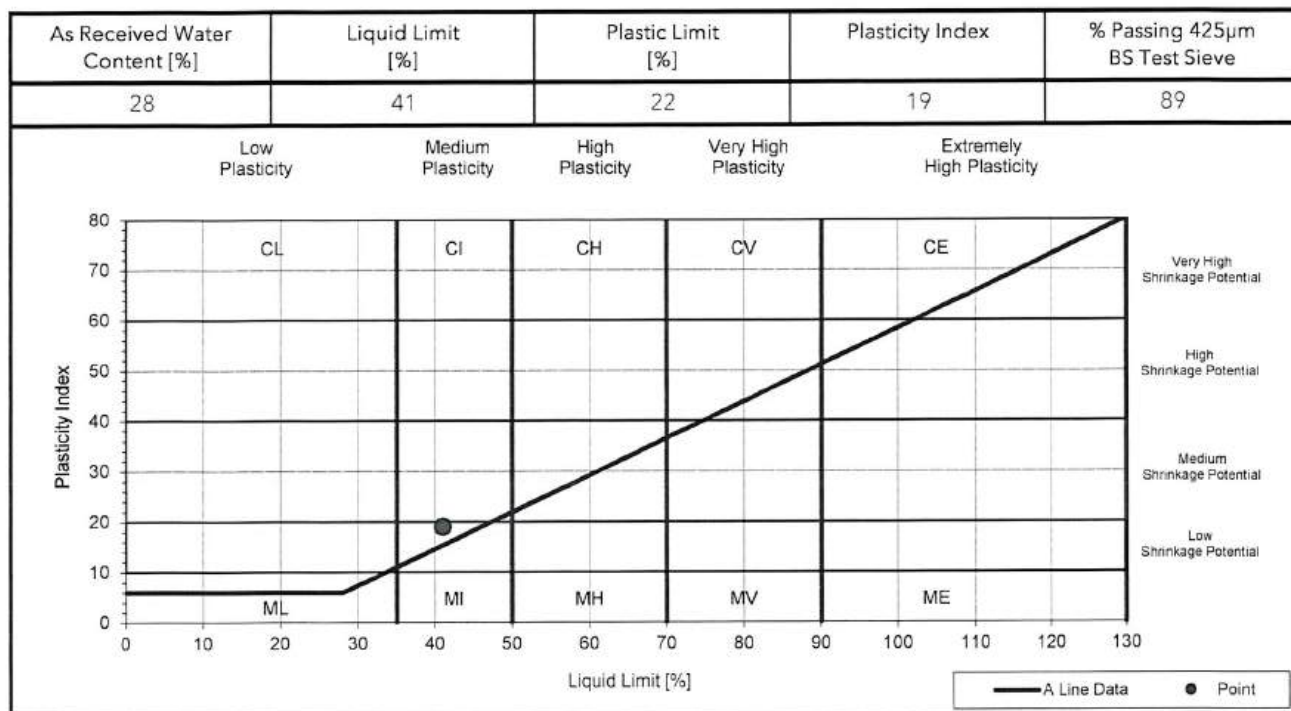
Certificate Number: PL9341-1/8/704
 Client Reference: 147776
 Job Number: PL9341-1
 Date Sampled: Unknown
 Date Received: 12/03/2026
 Date Tested: 27/03/2026
 Certificate of Sampling: N/A
 Sampling Certificate No.: N/A
 Sampled By: Client

TEST RESULTS**Laboratory Reference:** PL9341-1/8**Sample Reference:** B1**Sample Description:**

Very soft brown grey-brown slightly gravelly clayey sandy SILT with occasional roots <1 mm in diameter. Gravel consists of subangular flint limestone and occasional brick.

Location:

TP05

Depth: 0.65m**Sample Preparation:** Tested after >425um removed by hand**Comments:**

Single Point Test carried out.
 80g/30 degree fall cone used during test.

Single point test average cone penetration, average water content and associated correlation factor: 22.1mm, 42.1%, x0.968. Factors for 1 point cone penetrometer liquid limit taken from Table 1 BS1377-2:2022 5.3 (Clayton and Jukes)

Approved Signatory: Matt Hartnup - Laboratory Manager**Signed:**

for and on behalf of Lucion Ground Engineering Ltd

Date Reported: 10/04/2026 Page 1 of 1
 Form Number: GELab/C/704 Issue 2 Version 1

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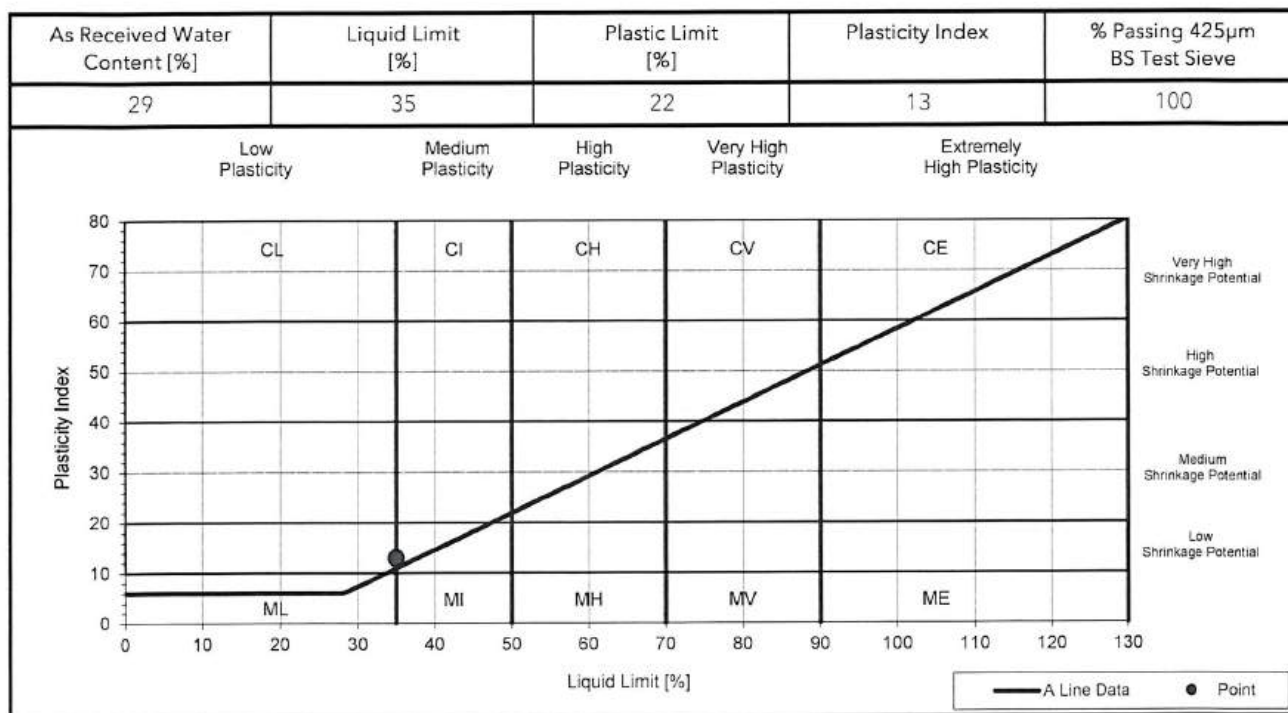
Ground Engineering Ltd**TEST CERTIFICATE****Determination of Liquid and Plastic Limits by Fall
Cone**

BS EN ISO 17892-12 : 2018 + A2 : 2022, clause 5.3 and 5.5

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Client: Dice Environmental Ltd
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 Coventry
 CV6 4AD
 Contact: Jon Higgins
 Site Name: Holland Park, Spalding

Certificate Number: PL9341-1/10/704
 Client Reference: 147776
 Job Number: PL9341-1
 Date Sampled: Unknown
 Date Received: 12/03/2026
 Date Tested: 25/03/2026
 Certificate of Sampling: N/A
 Sampling Certificate No.: N/A
 Sampled By: Client

TEST RESULTS**Laboratory Reference:** PL9341-1/10**Sample Reference:** D1**Sample Description:** Very soft brown orange-brown slightly sandy very silty CLAY:**Location:** TP06**Depth:** 1.70m**Sample Preparation:** Tested in as received condition

Comments:

Single Point Test carried out.
 80g/30 degree fall cone used during test.

Single point test average cone penetration, average water content and associated correlation factor: 20.8mm, 35.1%, x0.988. Factors for 1 point cone penetrometer liquid limit taken from Table 1 BS1377-2:2022 5.3 (Clayton and Jukes)

Approved Signatory: Matt Hartnup - Laboratory Manager

Signed:

Date Reported: 10/04/2026 Page 1 of 1
 Form Number: GELab/C/704 Issue 2 Version 1

for and on behalf of Lucion Ground Engineering Ltd

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 Reg Office: Lucion Ground Engineering Ltd
 Newark Road, Peterborough PE1 5UA



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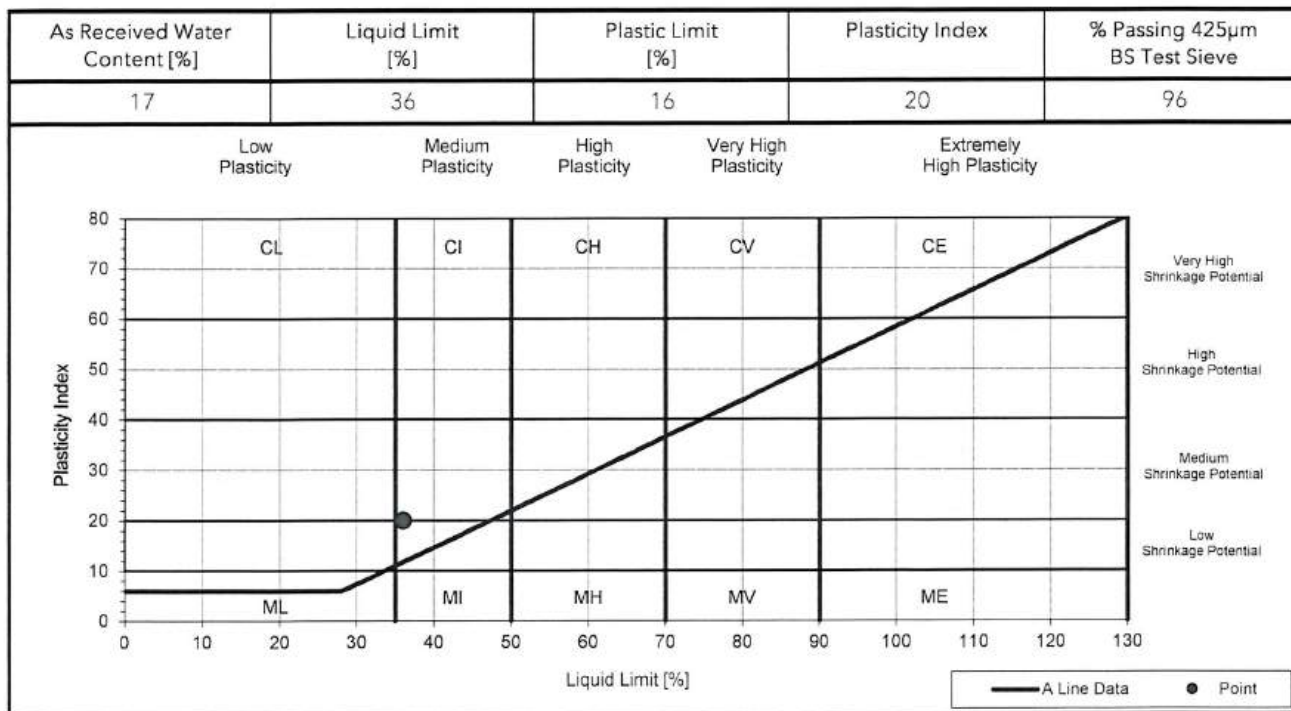
TEST CERTIFICATE**Determination of Liquid and Plastic Limits by Fall****Cone**

BS EN ISO 17892-12 : 2018 + A2 : 2022, clause 5.3 and 5.5

Newark Road, Peterborough
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e: geadmin@luciongroup.com

Client: Dice Environmental Ltd
 Client Address: Bridge House
 9 - 13 Holbrook Lane
 Coventry
 CV6 4AD
 Contact: Jon Higgins
 Site Name: Holland Park, Spalding

Certificate Number: PL9341-1/23/704
 Client Reference: 147776
 Job Number: PL9341-1
 Date Sampled: Unknown
 Date Received: 12/03/2026
 Date Tested: 26/03/2026
 Certificate of Sampling: N/A
 Sampling Certificate No.: N/A
 Sampled By: Client

TEST RESULTS**Laboratory Reference:** PL9341-1/23**Sample Reference:** B27**Sample Description:** Stiff dark-grey slightly gravelly CLAY. Gravel consists of fine to medium subrounded chalk.**Location:** BH02**Depth Top:** 16.00m**Sample Preparation:** Tested after >425um removed by hand**Depth Base:** 16.50m**Comments:**

Single Point Test carried out.
 80g/30 degree fall cone used during test.

Single point test average cone penetration, average water content and associated correlation factor: 22.9mm, 38.2%, x0.956. Factors for 1 point cone penetrometer liquid limit taken from Table 1 BS1377-2:2022 5.3 (Clayton and Jukes)

Approved Signatory: Matt Hartnup - Laboratory Manager**Signed:**

for and on behalf of Lucion Ground Engineering Ltd

Date Reported: 10/04/2026 Page 1 of 1
 Form Number: GELab/C/704 Issue 2 Version 1

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**Ground Engineering Ltd****TEST CERTIFICATE**

Newark Road, Peterborough
t: 01733 566566
e: geadmin@luciongroup.com

Determination of Particle Size Distribution

BS EN ISO 17892-4: 2016 Clause 5.2

Client: Dice Environmental Ltd
Client Address: Bridge House
9 - 13 Holbrook Lane
Coventry
CV6 4AD
Contact: Jon Higgins
Site Name: Holland Park, Spalding

Certificate Number: PL9341-1/14/702
Client Reference: 147776
Lab Job Number: PL9341-1
Date Sampled: Unknown
Date Received: 12/03/2026
Date Tested: 17/03/2026
Certificate of Sampling: N/A
Sampling Certificate No.: N/A
Sampled By: Client

TEST RESULTS

Laboratory Reference: PL9341-1/14
Client Reference: B22

Method of pre-treatment: N/A

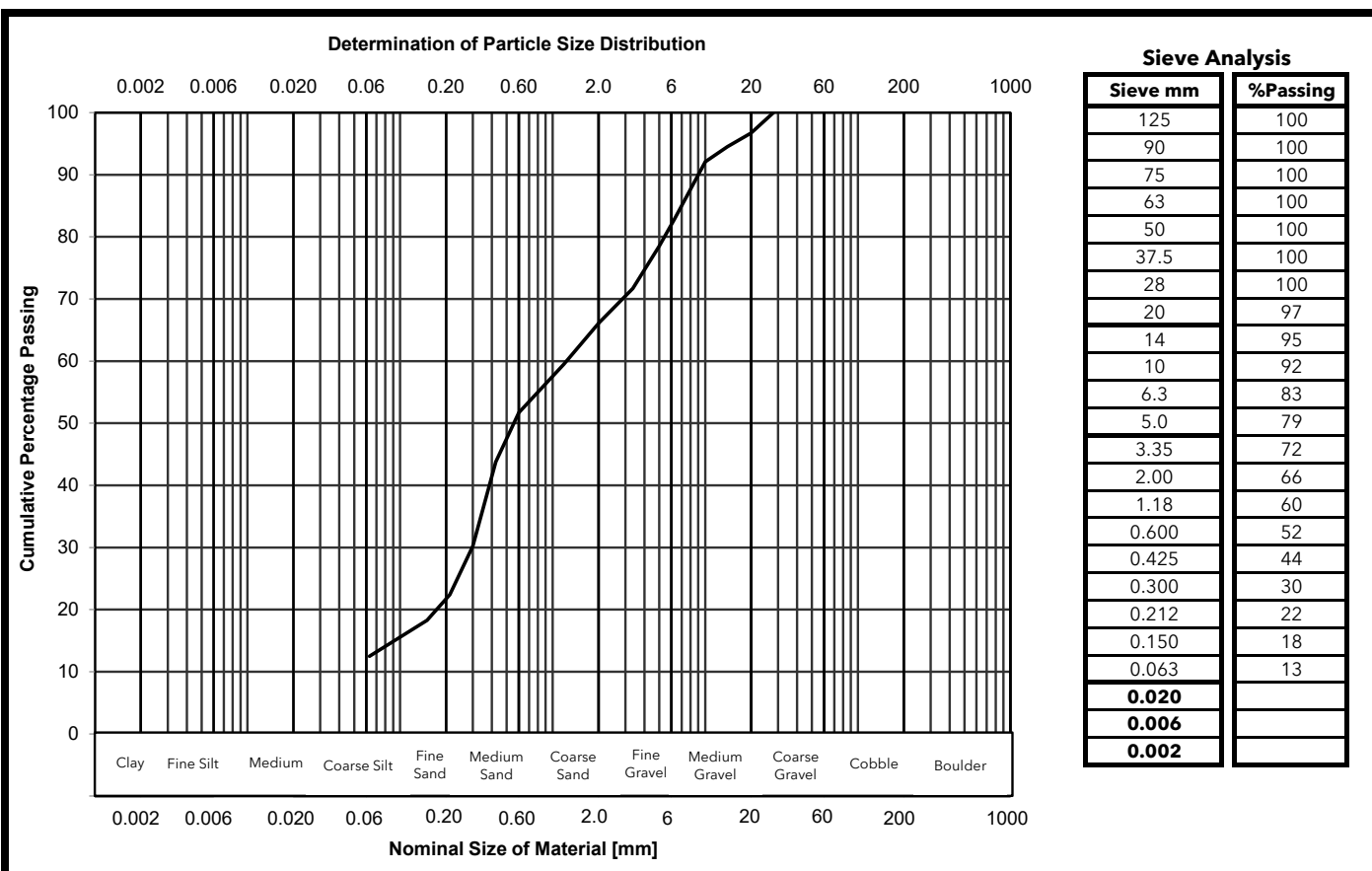
Sample Description:

Yellow-brown slightly clayey gravelly SAND with rare soft dark-grey silty slightly organic clay lumps.
Gravel consists of angular to subrounded flint quartzite and quartzite.

Material Specification: Not Required
Location: BH01

Depth Top: 13.50m
Depth Base: 14.00m
No

Is the initial specimen amount less than the recommended minimum mass?



Comments:

Approved Signatory: Matt Hartnup - Laboratory Manager

Signed:

for and on behalf of Lucion Ground Engineering Ltd

Date Reported: 10/04/2026 Page 1 of 1
Form Number: GELab/C/702 Iss 2 Rev 14

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Registration Number: 6929574
Reg Office: Lucion Ground Engineering Ltd
Newark Road, Peterborough PE1 5UA



8180

**Ground Engineering Ltd****TEST CERTIFICATE****Determination of Particle Size Distribution**

Newark Road, Peterborough
t: 01733 566566
e: geadmin@luciongroup.com

BS EN ISO 17892-4: 2016 Clause 5.2

Client: Dice Environmental Ltd
Client Address: Bridge House
9 - 13 Holbrook Lane
Coventry
CV6 4AD
Contact: Jon Higgins
Site Name: Holland Park, Spalding

Certificate Number: PL9341-1/3/702
Client Reference: 147776
Lab Job Number: PL9341-1
Date Sampled: Unknown
Date Received: 12/03/2026
Date Tested: 18/03/2026
Certificate of Sampling: N/A
Sampling Certificate No.: N/A
Sampled By: Client

TEST RESULTS**Laboratory Reference:** PL9341-1/3**Method of pre-treatment :**

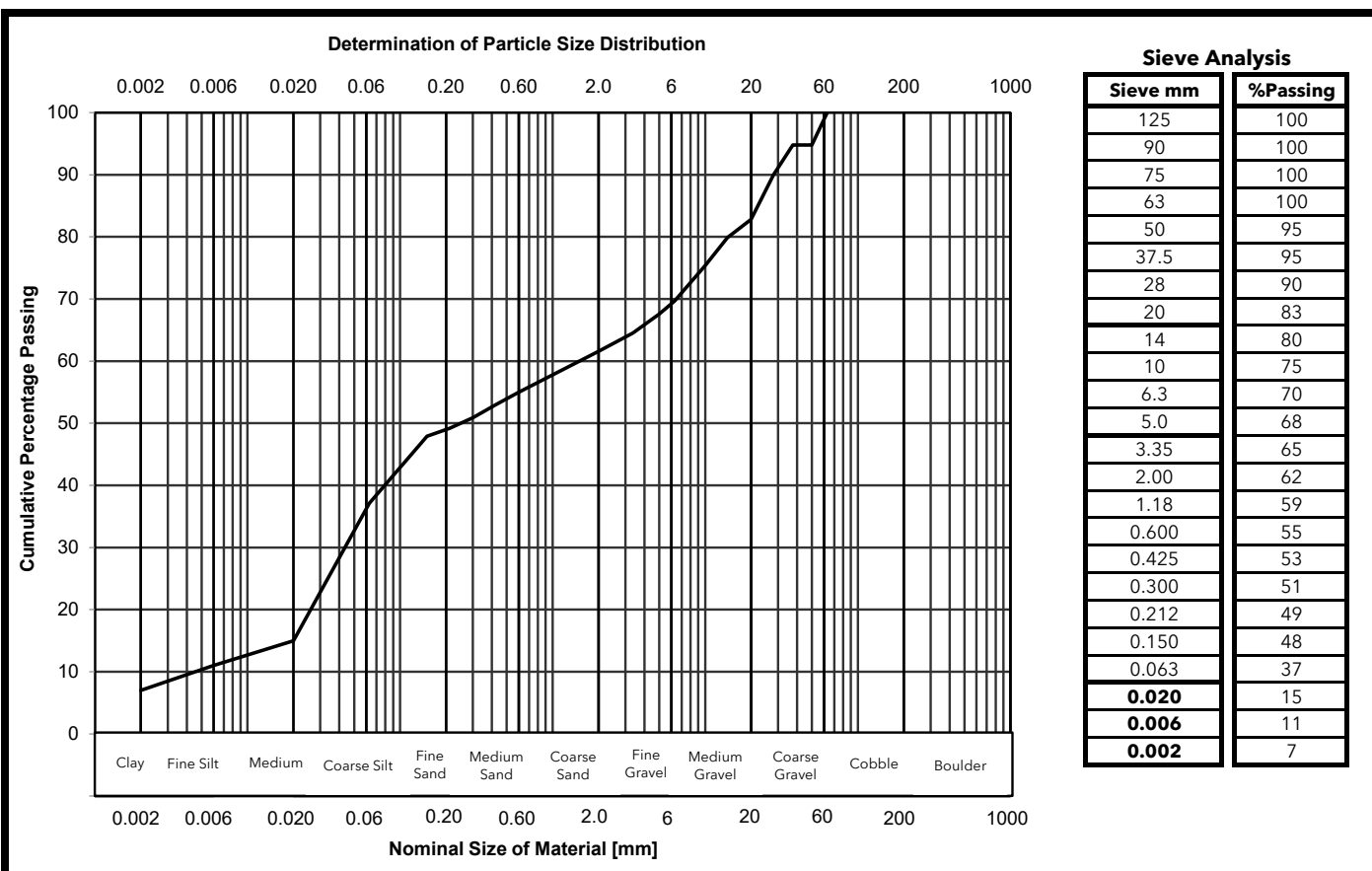
N/A

Client Reference: B1**Sample Description:**

Brown slightly clayey silty sandy GRAVEL with occasional roots <1 mm in diameter. Gravel consists of angular to subrounded flint limestone and granite.

Material Specification: Not Required**Depth Top:** 0.55m**Location:** TP03**Is the initial specimen amount less than the recommended minimum mass?**

No



Comments: Data relevant to material below 63 microns is outside the current scope of UKAS accreditation

Approved Signatory: Matt Hartnup - Laboratory Manager

Signed:

for and on behalf of Lucion Ground Engineering Ltd

Date Reported: 10/04/2026 Page 1 of 1

Form Number: GELab/C/702 Iss 2 Rev 14

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Newark Road, Peterborough PE1 5UA



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**Ground Engineering Ltd****TEST CERTIFICATE**

Newark Road, Peterborough
t: 01733 566566
e: geadmin@luciongroup.com

Determination of Particle Size Distribution

BS EN ISO 17892-4: 2016 Clause 5.2

Client: Dice Environmental Ltd
Client Address: Bridge House
9 - 13 Holbrook Lane
Coventry
CV6 4AD
Contact: Jon Higgins
Site Name: Holland Park, Spalding

Certificate Number: PL9341-1/8/702
Client Reference: 147776
Lab Job Number: PL9341-1
Date Sampled: Unknown
Date Received: 12/03/2026
Date Tested: 18/03/2026
Certificate of Sampling: N/A
Sampling Certificate No.: N/A
Sampled By: Client

TEST RESULTS**Laboratory Reference:** PL9341-1/8**Method of pre-treatment :**

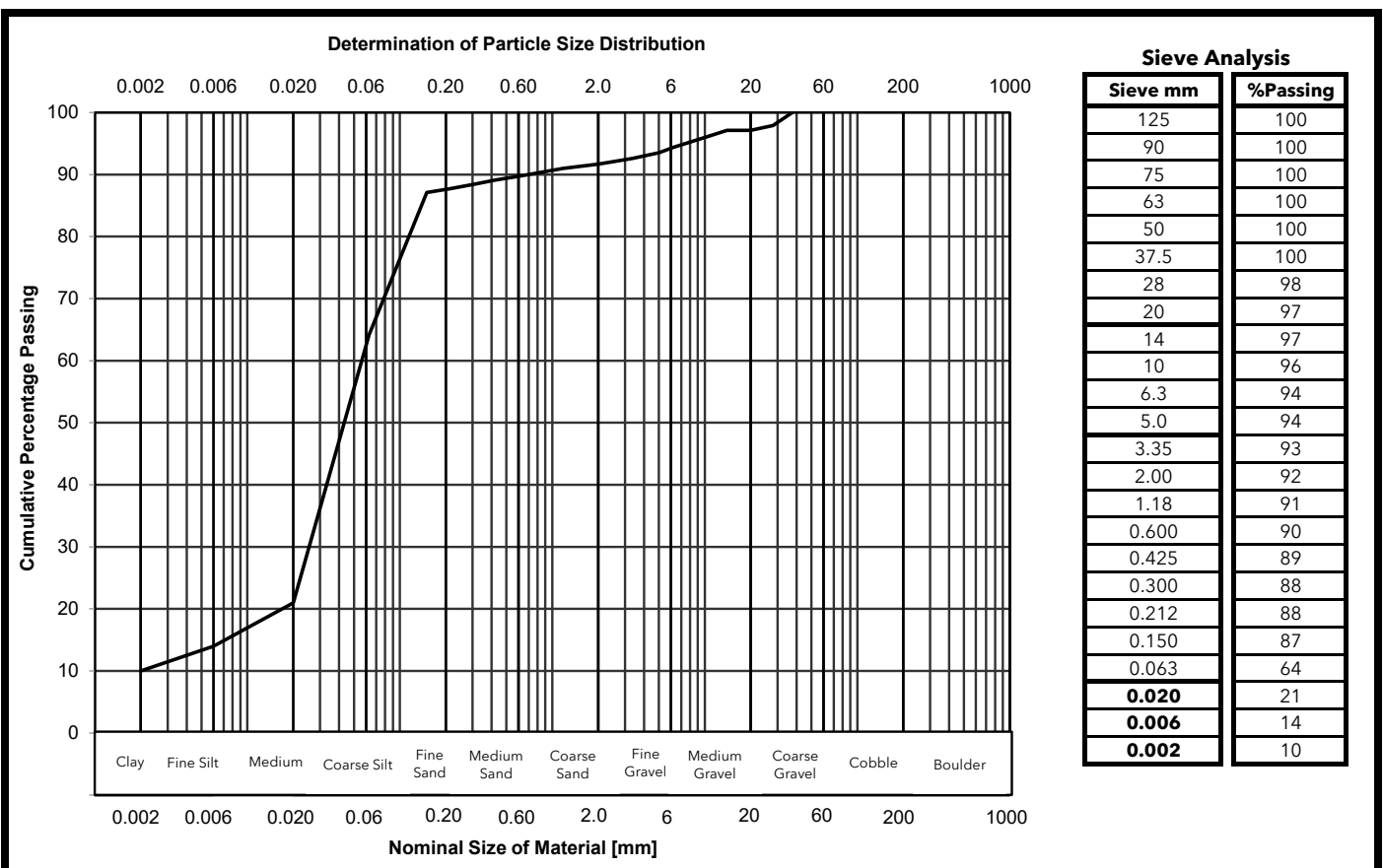
N/A

Client Reference: B1**Sample Description:**

Very soft brown grey-brown slightly gravelly clayey sandy SILT with occasional roots <1 mm in diameter.
Gravel consists of subangular flint limestone and occasional brick.

Material Specification: Not Required**Depth Top:** 0.65m**Location:** TP05**Is the initial specimen amount less than the recommended minimum mass?**

No



Comments: Data relevant to material below 63 microns is outside the current scope of UKAS accreditation

Approved Signatory: Matt Hartnup - Laboratory Manager

Signed:

for and on behalf of Lucion Ground Engineering Ltd

Date Reported: 10/04/2026 Page 1 of 1

Form Number: GELab/C/702 Iss 2 Rev 14

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Newark Road, Peterborough PE1 5UA



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**Ground Engineering Ltd****TEST CERTIFICATE**

Newark Road, Peterborough
 t: 01733 566566
 e: geadmin@luciongroup.com

Determination of Particle Size Distribution

BS EN ISO 17892-4: 2016 Clause 5.2

Client: Dice Environmental Ltd
 Client Address: Bridge House
 9 - 13 Holbrook Lane
 Coventry
 CV6 4AD
 Contact: Jon Higgins
 Site Name: Holland Park, Spalding

Certificate Number: PL9341-1/9/702
 Client Reference: 147776
 Lab Job Number: PL9341-1
 Date Sampled: Unknown
 Date Received: 12/03/2026
 Date Tested: 17/03/2026
 Certificate of Sampling: N/A
 Sampling Certificate No.: N/A
 Sampled By: Client

TEST RESULTS

Laboratory Reference: PL9341-1/9
Client Reference: D1

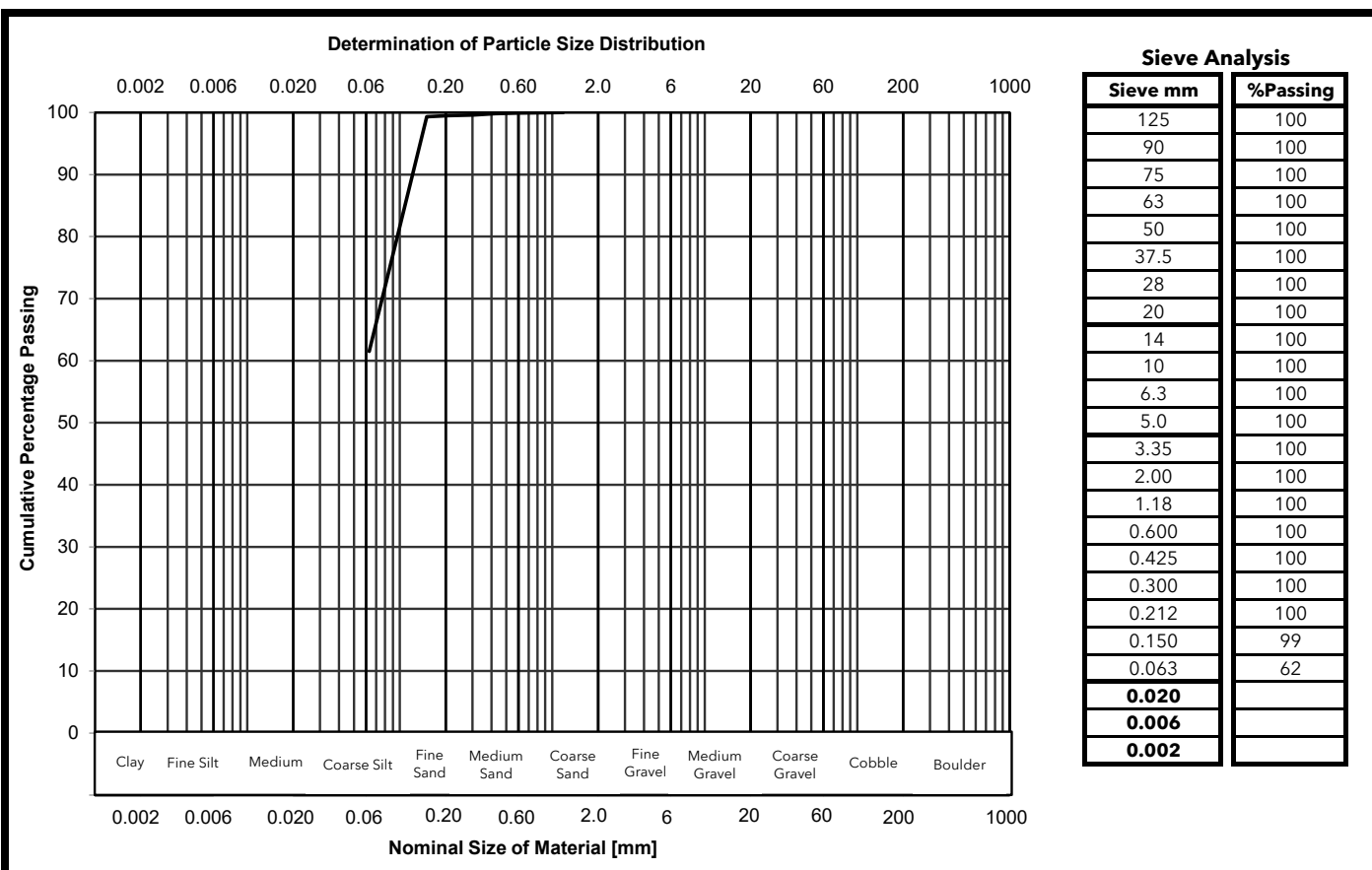
Method of pre-treatment: N/A

Sample Description:

Light-brown orange-brown very sandy SILT.

Material Specification: Not Required**Depth Top:** 1.30m**Location:** TP05**Is the initial specimen amount less than the recommended minimum mass?**

No



Comments:

Approved Signatory: Matt Hartnup - Laboratory Manager

Signed:

for and on behalf of Lucion Ground Engineering Ltd

Date Reported: 10/04/2026 Page 1 of 1

Form Number: GELab/C/702 Iss 2 Rev 14

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Registered in England & Wales
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 Reg Office: Lucion Ground Engineering Ltd
 Newark Road, Peterborough PE1 5UA



8180

**Ground Engineering Ltd**

TEST CERTIFICATE

Determination of Water Content

Tested in accordance with BS EN ISO 17892-1:2014, clause 5

Newark Road, Peterborough
t: 01733 566566
e: geadmin@luciongroup.com

Client: Dice Environmental Ltd
Client Address: Bridge House
9 - 13 Holbrook Lane
Coventry
CV6 4AD
Contact: Jon Higgins
Site Name: Holland Park, Spalding

Certificate No: PL9341-1/23/705
Client Reference: 147776
Job Number: PL9341-1
Date Sampled: Unknown
Date Received: 12/03/2026
Date Tested: 17/03/2026
Certificate of Sampling: N/A
Sampling Certificate No.: N/A
Sampled By: Client

TEST RESULTS

Laboratory Reference	Sample Reference	Location	Depth Top (m)	Depth Base (m)	Description	Water Content [%]
PL9341-1/23	B27	BH02	16.00	16.50	Stiff dark-grey slightly gravelly CLAY. Gravel consists of fine to medium subrounded chalk.	17.1
PL9341-1/1	D1	TP01	2.00		Brown-grey slightly clayey very sandy SILT.	29.1
PL9341-1/2	D1	TP02	1.30		Grey orange-brown brown clayey sandy SILT.	24.8
PL9341-1/3	B1	TP03	0.55		Brown slightly clayey silty sandy GRAVEL with occasional roots < 1 mm in diameter. Gravel consists of angular to subrounded flint limestone and granite.	16.3
PL9341-1/4	D1	TP03	1.10		Dark-brown slightly clayey slightly sandy SILT.	16.3

Comments:

Approved Signatory: Matt Hartnup - Laboratory Manager

Signed:

Date Reported: 10/04/2026
Form Number: LGELab/C/705 Iss 2 Rev 39

for and on behalf of Lucion Ground Engineering Ltd

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Registered in England & Wales
Registration Number: 6929574
Reg Office: Lucion Ground Engineering Ltd
Newark Rd, Peterborough PE1 5UA



8180

**Ground Engineering Ltd**

TEST CERTIFICATE

Determination of Water Content

Tested in accordance with BS EN ISO 17892-1:2014, clause 5

Newark Road, Peterborough
t: 01733 566566
e: geadmin@luciongroup.com

Client: Dice Environmental Ltd
Client Address: Bridge House
9 - 13 Holbrook Lane
Coventry
CV6 4AD
Contact: Jon Higgins
Site Name: Holland Park, Spalding

Certificate No: PL9341-1/6/705
Client Reference: 147776
Job Number: PL9341-1
Date Sampled: Unknown
Date Received: 12/03/2026
Date Tested: 19/03/2026
Certificate of Sampling: N/A
Sampling Certificate No.: N/A
Sampled By: Client

TEST RESULTS

Laboratory Reference	Sample Reference	Location	Depth Top (m)	Depth Base (m)	Description	Water Content [%]
PL9341-1/6	D1	TP04	1.40		Light-brown orange-brown very sandy SILT.	29.6
PL9341-1/8	B1	TP05	0.65		Very soft brown grey-brown slightly gravelly clayey sandy SILT with occasional roots <1 mm in diameter. Gravel consists of subangular flint limestone and occasional brick.	27.8
PL9341-1/9	D1	TP05	1.30		Light-brown orange-brown very sandy SILT.	25.8
PL9341-1/10	D1	TP06	1.70		Very soft brown orange-brown slightly sandy very silty CLAY.	28.8

Comments:

Approved Signatory: Matt Hartnup - Laboratory Manager

Signed:

for and on behalf of Lucion Ground Engineering Ltd

Date Reported: 10/04/2026
Form Number: LGELab/C/705 Iss 2 Rev 39

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Registered in England & Wales
Registration Number: 6929574
Reg Office: Lucion Ground Engineering Ltd
Newark Rd, Peterborough PE1 5UA



8180

**Ground Engineering Ltd****TEST CERTIFICATE****Determination of Undrained Shear Strength in Triaxial Compression**

In accordance with BS1377-2:2022 Clause 28 & ISO 17892-8:2018 Clause 6

Newark Road, Peterborough
 t: 01733 566566
 e: geadmin@luciongroup.com

Client: Dice Environmental Ltd
 Client: Bridge House
 Address: 9 - 13 Holbrook Lane
 Coventry
 CV6 4AD

Certificate Number: PL9341-1/16 / 714

Client Reference Number: 147776

Date Sampled: Unknown

Date Received: 12/03/2026

Date Tested: 13/03/2026

Contact: Jon Higgins
 Site: Holland Park, Spalding
 Name:

Sampling Certificate No: N/A

Certificate of Sampling: N/A

Sampled by: Client

Test Results:

Lab Reference: PL9341-1/16

Location: BH01

Sample: Very Stiff fissured grey slightly gravelly silty CLAY. Gravel consists of

Description: fine to medium subrounded chalk and flint.

Sample Ref: U24

Top Depth (m): 15.00

Base Depth (m): 15.45

Variations from Standard: None

Laboratory Temp (oC): 20

Sample Details

Initial Height (mm): 195.0

Initial Diameter (mm): 102.1

Depth within Sample: 15.60 - 15.80

Sample Orientation: Vertical

Method of Preparation: Undisturbed (BS 1377-1:2022:Pt 1:9)

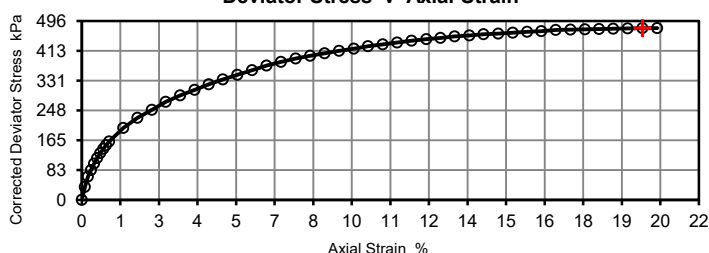
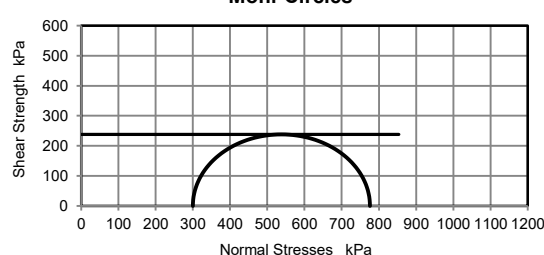
Latex Membrane Thickness (mm): 0.40

Mean Rate of Strain (%/min): 1.0

Initial Bulk Density (Mg/m3): 2.18

Water Content (%): 16.8

Dry Density (Mg/m3): 1.87

Deviator Stress v Axial Strain**Mohr Circles**

Cell Pressure: **300**
 Membrane Correction: 1.5
 Corrected Maximum Deviator Stress: 476
 Strain at Failure: 19.8
 Undrained Shear Strength: **238**
 Mode Of Failure: Compound

kPa

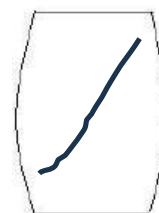
kPa

kPa

%

kPa

Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

**Comments:**

Approved Signatory: Matt Hartnup - Laboratory Manager

Signed:

for and on behalf of Lucion Ground Engineering Ltd

Date Reported: 10/04/2026

Form Number: LGELab/C/713 Iss 2 Rev 9

Page 1 of 1

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Registered in England and Wales
 Registration Number: 6929574
 Reg Office: Lucion Ground Engineering Ltd
 Newark Road, Peterborough PE1 5UA



8180

**Ground Engineering Ltd****TEST CERTIFICATE****Determination of Undrained Shear Strength in Triaxial Compression**

In accordance with BS1377-2:2022 Clause 28 & ISO 17892-8:2018 Clause 6

Newark Road, Peterborough
 t: 01733 566566
 e: geadmin@luciongroup.com

Client: Dice Environmental Ltd
 Client: Bridge House
 Address: 9 - 13 Holbrook Lane
 Coventry
 CV6 4AD

Certificate Number: PL9341-1/22 / 714

Client Reference Number: 147776

Date Sampled: Unknown

Date Received: 12/03/2026

Date Tested: 13/03/2026

Contact: Jon Higgins
 Site: Holland Park, Spalding
 Name:

Sampling Certificate No: N/A

Certificate of Sampling: N/A

Sampled by: Client

Test Results:

Lab Reference: PL9341-1/22

Location: BH02

Sample: Stiff fissured grey slightly gravelly silty CLAY.

Description:

Sample Ref: U26

Top Depth (m): 15.00

Base Depth (m): 15.45

Variations from Standard: None

Laboratory Temp (oC): 20

Sample Details

Initial Height (mm): 195.0

Initial Diameter (mm): 102.1

Depth within Sample: 15.60 - 15.80

Sample Orientation: Vertical

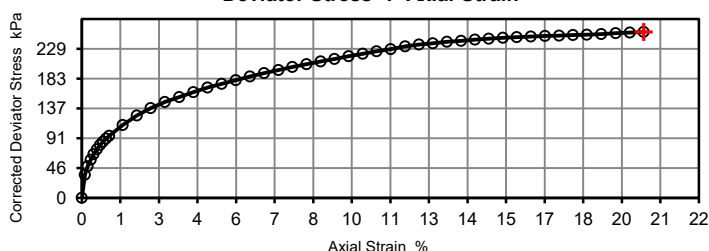
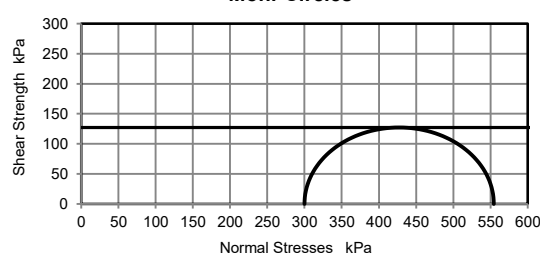
Method of Preparation: Undisturbed (BS 1377-1:2022:Pt 1:9)

Latex Membrane Thickness (mm): 0.40

Mean Rate of Strain (%/min): 1.0

Initial Bulk Density (Mg/m³): 2.16

Water Content (%): 17.2

Dry Density (Mg/m³): 1.84**Deviator Stress v Axial Strain****Mohr Circles**

Cell Pressure: **300**
 Membrane Correction: 1.5
 Corrected Maximum Deviator Stress: 254
 Strain at Failure: 20.4
 Undrained Shear Strength: **127**
 Mode Of Failure: Compound

kPa

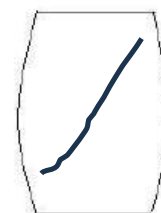
kPa

kPa

%

kPa

Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

**Comments:**

Approved Signatory: Matt Hartnup - Laboratory Manager

Signed:

for and on behalf of Lucion Ground Engineering Ltd

Date Reported: 10/04/2026

Form Number: LGELab/C/713 Iss 2 Rev 9

Page 1 of 1

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Registered in England and Wales
 Registration Number: 6929574
 Reg Office: Lucion Ground Engineering Ltd
 Newark Road, Peterborough PE1 5UA



8180

TEST CERTIFICATE**Determination of California Bearing Ratio**

Tested in accordance with BS1377-2:2022 Clause 15

Newark Road, Peterborough
t: 01733 566566
e: geadmin@luciongroup.com

Client: Dice Environmental Ltd
Client Address: Bridge House
9 - 13 Holbrook Lane
Coventry
CV6 4AD
Contact: Jon Higgins
Site Name: Holland Park, Spalding

Certificate Number: PL9341-1/3/1/736
Client Reference: 147776
Job Number: PL9341-1
Date Sampled: Unknown
Date Received: 12/03/2026
Date Tested: 18/03/2026
Certificate of Sampling: N/A
Sampling Certificate No.: N/A
Sampled By: Client

TEST RESULTS Laboratory Reference: PL9341-1/3

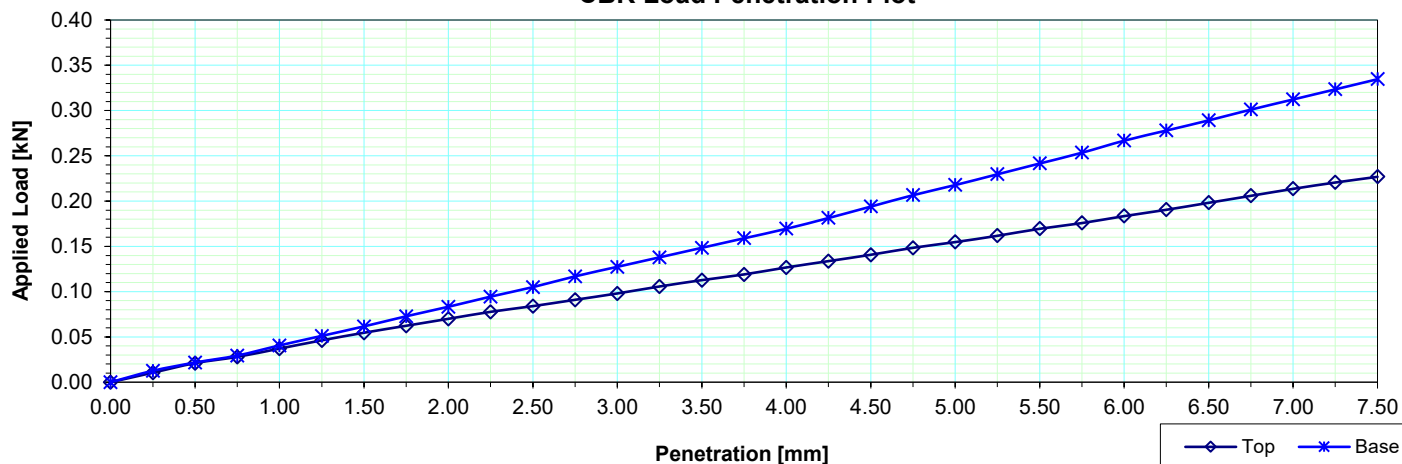
Sample Reference: B1

Sample Description: Brown slightly clayey silty sandy GRAVEL with occasional roots < 1 mm in diameter. Gravel consists of angular to subrounded flint limestone and granite.**Sample Location:** TP03**Depth:** 0.55m**Sample Soaked:** No**Sample Preparation:** Recompacted with specified standard effort using 2.5kg rammer

Retained on 20mm test sieve: 10 (%)
Final Water Content (Top): 17.4 (%)
Final Water Content (Base): 17.5 (%)
Water Content (Mean): 17.5 (%)
Initial Bulk Density: 2.09 (Mg/m³)
Initial Dry Density: 1.80 (Mg/m³)
Initial Water Content: 16.0 (%)

Applied Seating Load (top): 10 N
Applied Seating Load (base): 10 N
Applied Surcharge: 12 kg

CBR Top (%):	0.8	CBR Base (%):	1.1	Average CBR (%):	N/A
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CBR Load Penetration Plot**Comments:** Slight loss of water during testing.**Approver:** Matt Hartnup - Laboratory Manager**Signed:****for and on behalf of Lucion Ground Engineering Ltd**

Date Reported: 10/04/2026 Page 1 of 1
Form Number: LGELab/C/736 Iss 2 Rev 17

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Registered in England and Wales
Registration Number: 6929574
Reg Office: Lucion Ground Engineering Ltd
Newark Road, Peterborough PE1 5UA



8180

TEST CERTIFICATE**Determination of California Bearing Ratio**

Tested in accordance with BS1377-2:2022 Clause 15

 Newark Road, Peterborough
 t: 01733 566566
 e: geadmin@luciongroup.com

Client: Dice Environmental Ltd
 Client Address: Bridge House
 9 - 13 Holbrook Lane
 Coventry
 CV6 4AD
 Contact: Jon Higgins
 Site Name: Holland Park, Spalding

Certificate Number: PL9341-1/8/1/736
 Client Reference: 147776
 Job Number: PL9341-1
 Date Sampled: Unknown
 Date Received: 12/03/2026
 Date Tested: 25/03/2026
 Certificate of Sampling: N/A
 Sampling Certificate No.: N/A
 Sampled By: Client

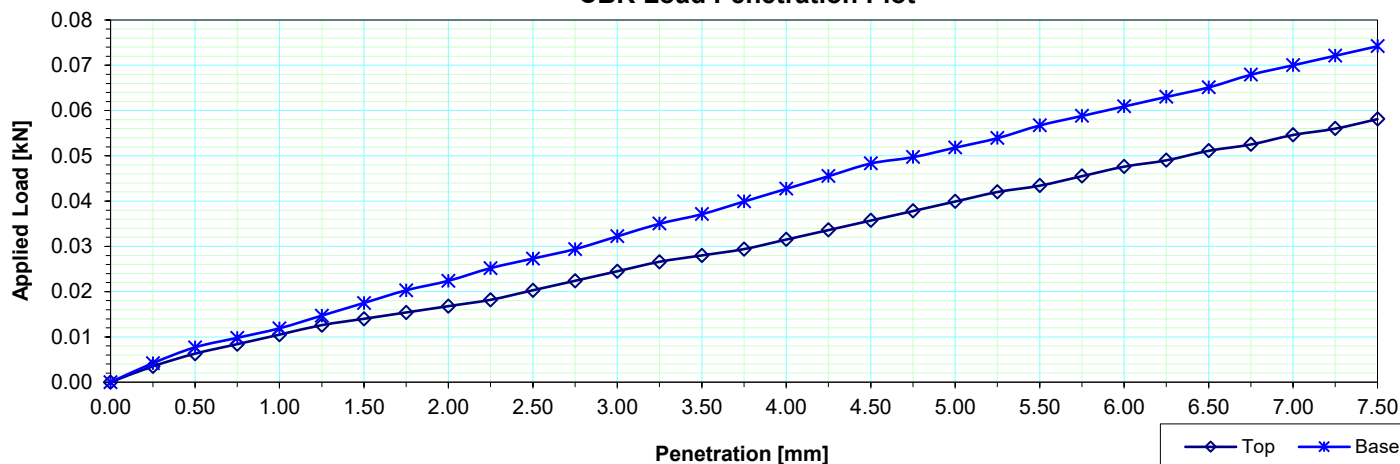
TEST RESULTS Laboratory Reference: PL9341-1/8

Sample Reference: B1

Sample Description: Very soft brown grey-brown slightly gravelly clayey sandy SILT with occasional roots <1 mm in diameter. Gravel consists of subangular flint limestone and occasional brick.
Sample Location: TP05**Depth:** 0.65m**Sample Soaked:** No**Sample Preparation:** Recompacted with specified standard effort using 2.5kg rammer

Retained on 20mm test sieve: 2 (%)
 Final Water Content (Top): 26.9 (%)
 Final Water Content (Base): 27.8 (%)
 Water Content (Mean): 27.4 (%)
 Initial Bulk Density: 1.91 (Mg/m³)
 Initial Dry Density: 1.50 (Mg/m³)
 Initial Water Content: 27.5 (%)

Applied Seating Load (top): 10 N
 Applied Seating Load (base): 10 N
 Applied Surcharge: 12 kg

CBR Top (%): 0.2 CBR Base (%): 0.3 Average CBR (%): N/A
CBR Load Penetration Plot**Comments:** Significant loss of water during testing.**Approver:** Matt Hartnup - Laboratory Manager**Signed:**

for and on behalf of Lucion Ground Engineering Ltd

Date Reported: 10/04/2026 Page 1 of 1
 Form Number: LGELab/C/736 Iss 2 Rev 17

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Registered in England and Wales
 Registration Number: 6929574
 Reg Office: Lucion Ground Engineering Ltd
 Newark Road, Peterborough PE1 5UA

Dice Environmental Ltd
9-13 Holbrook Lane
CV6 4AD

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 7522421017

t: 01923 225404

e: michael.delia@diceenvironmental.co.uk
abbie.davies@diceenvironmental.co.uk

f: 01923 237404

e: info-i2analytical@normecgroup.com

Analytical Report Number : 26-012159

Replaces Analytical Report Number: 26-012159, issue no. 1

Additional analysis undertaken.

Asbestos Quantification added to sample 853996 as per client's request

Project / Site name:	Holland Park, Spalding	Samples received on:	09/03/2026
Your job number:	102378	Samples instructed on/ Analysis started on:	09/03/2026
Your order number:		Analysis completed by:	26/03/2026
Report Issue Number:	2	Report issued on:	26/03/2026
Samples Analysed:	6 soil samples		



Signed:

Trevor Hill
Customer Service
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

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Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 26-012159
Project / Site name: Holland Park, Spalding

Lab Sample Number	853993				853994	853995	853996	853997
Sample Reference	TP01 ES1				TP02 ES1+O	TP03 ES1	TP04 ES1+O	TP05 ES1
Sample Number	None Supplied				None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A				N/A	N/A	N/A	N/A
Depth (m)	0.10				0.30	0.20	0.50	0.05
Date Sampled	06/03/2026				06/03/2026	06/03/2026	06/03/2026	06/03/2026
Time Taken	None Supplied				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	37.3	< 0.1
Moisture Content	%	0.01	NONE	24	15	20	11	23
Total mass of sample received	kg	0.1	NONE	0.9	1	1	0.9	0.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	KMC	KMC	KMC	KMC	KMC
Analysis completed	N/A	N/A	N/A	18/03/2026	18/03/2026	18/03/2026	18/03/2026	18/03/2026
Actinolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Amosite detected	Type	N/A	ISO 17025	-	-	-	Detected	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Tremolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	< 0.001	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	Loose Fibres	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.5	8	9	8.3	7.6
Total Sulphate as SO ₄	mg/kg	50	MCERTS	590	540	680	1100	620
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	31	20	100	170	170
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	15.5	10	50.9	85.3	84.2
Organic Matter (automated)	%	0.1	MCERTS	3.5	2.2	2.4	2.5	3.4
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	2	1.3	1.4	1.4	2

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.08	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.13	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.09	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.06	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.06	0.05	0.15	1.5	0.09
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.51	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.17	0.23	0.61	8.8	0.26
Pyrene	mg/kg	0.05	MCERTS	0.17	0.23	0.6	8.4	0.23
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.11	0.18	0.34	5.2	0.15
Chrysene	mg/kg	0.05	MCERTS	0.14	0.23	0.42	4.7	0.17
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.17	0.31	0.52	6.7	0.22
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.08	0.13	0.2	2.7	0.09
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.13	0.24	0.4	5.6	0.17
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.07	0.14	0.21	2.6	0.09
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.53	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.07	0.17	0.25	2.9	0.1

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	1.17	1.91	3.7	50.5	1.56
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Analytical Report Number: 26-012159
Project / Site name: Holland Park, Spalding

Lab Sample Number	853993	853994	853995	853996	853997
Sample Reference	TP01 ES1	TP02 ES1+O	TP03 ES1	TP04 ES1+O	TP05 ES1
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.10	0.30	0.20	0.50	0.05
Date Sampled	06/03/2026	06/03/2026	06/03/2026	06/03/2026	06/03/2026
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9	9	11	17	12
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	0.3	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	U/S ^{U/S g}	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (hexavalent) by IC	mg/kg	1.8	NONE	< 1.80	-	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	18	17	19	25	28
Copper (aqua regia extractable)	mg/kg	1	MCERTS	22	19	20	34	15
Lead (aqua regia extractable)	mg/kg	1	MCERTS	36	42	28	83	25
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.7	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	15	14	14	24	20
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	1	< 1.0	1.3	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	27	27	28	43	42
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	63	56	57	88	60

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	< 0.010	-	< 0.010	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	< 0.010	-	< 0.010	-
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	< 0.010	-	< 0.010	-
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	< 1.0	-	< 1.0	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	< 2.0	-	< 2.0	-
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	< 8.0	-	< 8.0	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	< 8.0	-	< 8.0	-
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	-	< 8.4	-	< 8.4	-
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	< 10	-	< 10	-
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	< 10	-	< 10	-

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	-	< 0.010	-	< 0.010	-
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	-	< 0.010	-	< 0.010	-
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	-	< 0.020	-	< 0.020	-
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	< 1.0	-	< 1.0	-
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	< 2.0	-	< 2.0	-
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	< 10	-	15	-
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	< 10	-	52	-
TPHCWG - Aromatic >EC35 - EC44 _{EH_CU_1D_AR}	mg/kg	8.4	NONE	-	< 8.4	-	32	-
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	< 10	-	68	-
TPHCWG - Aromatic >EC5 - EC44 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	< 10	-	99	-

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
Benzene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
Toluene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
Ethylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
p & m-Xylene	µg/kg	8	MCERTS	-	< 8.0	-	< 8.0	-
o-Xylene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 26-012159
Project / Site name: Holland Park, Spalding

Lab Sample Number	853998			
Sample Reference	TP056 ES12			
Sample Number	None Supplied			
Water Matrix	N/A			
Depth (m)	0.20			
Date Sampled	06/03/2026			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	16
Total mass of sample received	kg	0.1	NONE	1.2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	KMC
Analysis completed	N/A	N/A	N/A	18/03/2026
Actinolite detected	Type	N/A	ISO 17025	-
Amosite detected	Type	N/A	ISO 17025	-
Anthophyllite detected	Type	N/A	ISO 17025	-
Chrysotile detected	Type	N/A	ISO 17025	-
Crocidolite detected	Type	N/A	ISO 17025	-
Tremolite detected	Type	N/A	ISO 17025	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.8
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1500
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	830
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	416
Organic Matter (automated)	%	0.1	MCERTS	2.7
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	1.5

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.18
Anthracene	mg/kg	0.05	MCERTS	0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.51
Pyrene	mg/kg	0.05	MCERTS	0.47
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.33
Chrysene	mg/kg	0.05	MCERTS	0.32
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.41
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.16
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.31
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.15
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.14

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	3.02
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Analytical Report Number: 26-012159
Project / Site name: Holland Park, Spalding

Lab Sample Number	853998			
Sample Reference	TP056 ES12			
Sample Number	None Supplied			
Water Matrix	N/A			
Depth (m)	0.20			
Date Sampled	06/03/2026			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	11
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8
Chromium (hexavalent) by IC	mg/kg	1.8	NONE	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	20
Copper (aqua regia extractable)	mg/kg	1	MCERTS	25
Lead (aqua regia extractable)	mg/kg	1	MCERTS	42
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	16
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	32
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	67

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	-
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	-
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	-
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	-
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-
TPHCWG - Aromatic >EC35 - EC44 _{EH_CU_1D_AR}	mg/kg	8.4	NONE	-
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-
TPHCWG - Aromatic >EC5 - EC44 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	-
Benzene	µg/kg	5	MCERTS	-
Toluene	µg/kg	5	MCERTS	-
Ethylbenzene	µg/kg	5	MCERTS	-
p & m-Xylene	µg/kg	8	MCERTS	-
o-Xylene	µg/kg	5	MCERTS	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



Analytical Report Number: **26-012159**
Project / Site name: **Holland Park, Spalding**
Your Order No:

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample	Analysis completed	Analyst ID
853996	TP04 ES1+O	0.5	230	Loose Fibres	Amosite	< 0.001	< 0.001	26/03/2026	KMC

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

Analytical Report Number : 26-012159

Project / Site name: Holland Park, Spalding

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
853993	TP01 ES1	None Supplied	0.1	Brown clay and loam with gravel and vegetation
853994	TP02 ES1+O	None Supplied	0.3	Brown sandy clay with gravel and vegetation
853995	TP03 ES1	None Supplied	0.2	Brown clay and loam with gravel and vegetation
853996	TP04 ES1+O	None Supplied	0.5	Brown loam and sand with stones and vegetation
853997	TP05 ES1	None Supplied	0.05	Brown clay and loam with gravel and vegetation
853998	TP056 ES12	None Supplied	0.2	Brown loam and clay with gravel and vegetation

Analytical Report Number : 26-012159

Project / Site name: Holland Park, Spalding

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Moisture Content (Wet Weight)	Moisture content (% wet weight), determined gravimetrically (up to 30°C)	In-house-procedure based on BS EN 12880:2000	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Hexavalent chromium in soil by Ion Chromatography	Determination of hexavalent chromium in alkaline soil extract by use of ion chromatography with spectrophotometric detection	In-house method	L130B	W	NONE
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID with carbon banding aliphatic and aromatic	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE

Analytical Report Number : 26-012159

Project / Site name: Holland Park, Spalding

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total petroleum hydrocarbons with carbon banding by HS-GC/MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC/MS with carbon banding aliphatic and aromatic	In-house method	L088-PL	W	MCERTS
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references	HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)	A006B	D	ISO 17025

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

*U/S g- Unsuitable for analysis due to high colour intensity.



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Analytical Report Number : 26-013273

Project / Site name:	Holland Park, Spalding	Samples received on:	13/03/2026
Your job number:	102378	Samples instructed on/ Analysis started on:	13/03/2026
Your order number:		Analysis completed by:	19/03/2026
Report Issue Number:	1	Report issued on:	19/03/2026
Samples Analysed:	2 water samples		

Signed: _____

Eric Crociquia
Customer Service
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

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Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.



Analytical Report Number: 26-013273

Project / Site name: Holland Park, Spalding

Lab Sample Number				859330	859331
Sample Reference				BH01 GW01	BH02 GW02
Sample Number				None Supplied	None Supplied
Water Matrix				Ground water	Ground water
Depth (m)				None Supplied	None Supplied
Date Sampled				12/03/2026	12/03/2026
Time Taken				None Supplied	None Supplied
Analytical Parameter (Water Analysis)				Units	Test Limit of detection
				Test Accreditation Status	

General Inorganics

pH (L099)	pH Units	N/A	ISO 17025	7.2	7.1
Sulphate as SO ₄	mg/l	0.045	ISO 17025	96.3	44.5

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



Analytical Report Number : 26-013273

Project / Site name: Holland Park, Spalding

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
pH of water at 20°C (automated)	Determination of pH of water by electrochemical measurement. Accredited matrices: SW, PW, GW, FSE, LL	In-house method	L099-PL	W	ISO 17025
Sulphate in water	Determination of sulphate in water after filtration by acidification followed by ICP-OES. Accredited matrices: SW, PW, GW, PrW, DI PrW, FSE, LL	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L039B	W	ISO 17025

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

APPENDIX G

Rational and full list of General Assessment Criteria used by Dice Environmental.

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Determinand	Allotment	R _{HP}	R _{WOHP}	Commercial/ Industrial	POSresi	POSpark
Metals						
Arsenic (Inorganic) ^{a, b, c}	43	37	40	640	79	170
Beryllium ^{a, b, d, e}	35	1.7	1.7	12	2.2	63
Boron ^{a, b, d}	45	290	11000	240000	21000	46000
Cadmium (pH6-8) ^{a, b, d, f}	1.9	11	85	190	120	560
Chromium (trivalent) ^{a, b, d, g}	18000	910	910	8600	1500	33000
Chromium (hexavalent) ^{a, b, c}	1.8 ⁿ	6 ⁱ	6 ⁱ	33 ^j	7.7 ^j	220 ^j
Copper ^{a, b, c}	520	2400	7100	68000	12000	44000
Mercury (elemental) ^{a, b, c, j}	21	1.2	1.2	58 ^{rsp} (25.8)	16	30 ^{rsp} (25.8)
Mercury (inorganic) ^{a, b, c}	19	40	56	1100	120	240
Methylmercury ^{a, b, c}	6	11	15	320	40	68
Nickel ^{a, b, c}	230 ^k	180 ^e	180 ^e	980 ^e	230 ^e	3400 ^e
Selenium ^{a, b, c}	88	250	430	12000	1100	1800
Vanadium ^{a, b, c, l, j}	91	410	1200	9000	2000	5000
Zinc ^{a, b, c}	620	3700	40000	730000	81000	170000
BTEX Compounds (SOM 1%/ 2.5%/ 6%)						
Benzene ^{a, b, l, m}	0.017/0.034/ 0.075	0.087/0.17/ 0.37	0.38/0.7/1.4	27 / 47 / 90	72 / 72 / 73	90 / 100 / 110
Toluene ^{a, b, l, m}	22 / 51 / 120	130 / 290 / 660	800 ^{rsp} (869) /1900/3900	56000 ^{rsp} (869) / 110000 ^{rsp} 1920/ 180000 ^{rsp} (4360)	56000 / 56000 / 56000	87000 ^{rsp} (869)/ 95000 ^{rsp} (1920)/ 100000 ^{rsp} (4360)
Ethylbenzene ^{a, b, l, m}	16 / 39 / 91	47 / 110 / 260	83 / 190 / 440	5700 ^{rsp} (518) / 13000 ^{rsp} (1220) / 27000 ^{rsp} (2840)	24000 / 24000 / 25000	17000 ^{rsp} (518) / 22000 ^{rsp} (1220) / 27000 ^{rsp} (2840)
O – Xylene ^{a, b, l, m, n}	28 / 67 / 160	60 / 140 / 330	88 / 210 / 480	6600 ^{scf} (478) / 15000 ^{scf} (1120) / 33000 ^{scf} (2620)	41000 / 42000 / 43000	17000 ^{scf} (478) / 24000 ^{scf} (1120) / 33000 ^{scf} (2620)
M – Xylene ^{a, b, l, m, n}	31 / 74 / 170	59 / 140 / 320	82 / 190 / 450	6200 ^{rsp} (625) / 14000 ^{rsp} (1470) / 31000 ^{rsp} (3460)	41000 / 42000 / 43000	17000 ^{rsp} (625) / 24000 ^{rsp} (1470) / 32000 ^{rsp} (3460)
P – Xylene ^{a, b, l, m, n}	29 / 69 / 160	56 / 130 / 310	79 / 180 / 430	5900 ^{scf} (576) / 14000 ^{scf} (1350) / 30000 ^{scf} (3170)	41000 / 42000 / 43000	17000 ^{scf} (576) / 23000 ^{scf} (1350) / 31000 ^{scf} (3170)
Polycyclic Aromatic Hydrocarbons (SOM 1%/ 2.5%/ 6%)^{a, b, l, p}						
Acenaphthene	34 / 85 / 200	210 / 510 / 1100	3000 ^{scf} (57.0)/ 4700 ^{scf} (141)/ 6000 ^{scf} (336)	84000 ^{scf} (57.0)/ 97000 ^{scf} (141)/ 100000	15000 / 15000 / 15000	29000/ 30000/ 30000
Acenaphthylene	28 / 69 / 160	170 / 420 / 920	2900 ^{scf} (86.1)/ 4600 ^{scf} (212)/ 6000 ^{scf} (506)	83000 ^{scf} (86.1)/ 97000 ^{scf} (212)/ 100000	15000 / 15000 / 15000	29000 / 30000 / 30000
Anthracene	380 / 950 / 2200	2400 / 5400 / 11000	31000 ^{scf} (1.17 /35000/ 37000	520000/ 540000/ 540000	74000 / 74000 / 74000	150000 / 150000 / 150000
Benz(a)anthracene	2.9 / 6.5 / 13	7.2 / 11 / 13	11 / 14 / 15	170 / 170 / 180	29 / 29 / 29	49 / 56 / 62
Benzo(a)pyrene (Bap)	0.97 / 2.0 / 3.5	2.2 / 2.7 / 3.0	3.2 / 3.2 / 3.2	35 / 35 / 36	5.7 / 5.7 / 5.7	11 / 12 / 13
Benzo(b)fluoranthene	0.99 / 2.1 / 3.9	2.6 / 3.3 / 3.7	3.9 / 4.0 / 4.0	44 / 44 / 45	7.1 / 7.2 / 7.2	13 / 15 / 16
Benzo(g,h,i)perylene	290 / 470 / 640	320 / 340 / 350	360/360 / 360	3900/4000/ 4000	640/640/640	1400/1500/ 1600
Benzo(k)fluoranthene	37 / 75 / 130	77 / 93 / 100	110/ 110 / 110	1200/ 1200/1200	190/190/190	370 / 410 / 440
Chrysene	4.1 / 9.4 / 19	15 / 22 / 27	30 / 31 / 32	350 / 350 / 350	57 / 57 / 57	93 / 110 / 120
Dibenzo(ah)anthracene	0.14 / 0.27 / 0.43	0.24 / 0.28 / 0.3	0.31/0.32/ 0.32	3.5 / 3.6 / 3.6	0.57/0.57/0.58	1.1 / 1.3 / 1.4
Fluoranthene	52 / 130 / 290	280 / 560 / 890	1500/1600/ 1600	23000/23000/ 23000	3100/3100/ 3100	6300 / 6300 / 6400
Fluorene	27 / 67 / 160	170 / 400 / 860	2800 ^{scf} (30.9) /3800 ^{scf} (76.5) /4500 ^{scf} (183)	63000 ^{scf} (30.9) / 68000 / 71000	9900 / 9900 / 9900	20000 / 20000 / 20000
Indeno(1,2,3-cd)pyrene	9.5 / 21 / 39	27 / 36 / 41	45 / 46 / 46	500 / 510 / 510	82 / 82 / 82	150 / 170 / 180
Naphthalene ^q	4.1 / 10 / 24	2.3 / 5.6 / 13	2.3 / 5.6 / 13	190 ^{scf} (76.4) / 460 ^{scf} (183) / 1100 ^{scf} (432)	4900/ 4900/ 4900	1200 ^{scf} (76.4) / 1900 ^{scf} (183) / 3000
Phenanthrene	15 / 38 / 90	95 / 220 / 440	1300 ^{scf} (36.0)/ 1500/1500	22000 / 22000 / 23000	3100 / 3100 / 3100	6200 / 6200 / 6300
Pyrene	110 / 270 / 620	620 / 1200 / 2000	3700 / 3800 / 3800	54000 / 54000 / 54000	7400 / 7400 / 7400	15000 / 15000 / 15000
Coal Tar (Bap as surrogate marker)	0.32 / 0.67 / 1.2	0.79 / 0.98 / 1.1	1.2 / 1.2 / 1.2	15 / 15 / 15	2.2 / 2.2 / 2.2	4.4 / 4.7 / 4.8
Explosives^{a, b, l, p}						
2, 4, 6 Trinitrotoluene	0.24 / 0.58 / 1.40	1.6 / 3.7 / 8.0	65 / 66 / 66	1000/1000/1000	130/130 / 130	260 / 270 / 270
RDX (Royal Demolition Explosive C ₃ H ₆ N ₆ O ₆)	17 / 38 / 85	120 / 250 / 540	13000 / 13000 / 13000	210000 / 210000 / 210000	26000/26000/ 27000	49000 ^{scf} (18.7) / 51000 / 53000
HMX (High Melting Explosive C ₄ H ₈ N ₈ O ₈)	0.86 / 1.9 / 3.9	5.7 / 13 / 26	6700 / 6700 / 6700	110000 / 110000 / 110000	13000 / 13000 / 13000	23000 ^{rsp} (0.35) /23000 ^{rsp} (0.39) /24000 ^{rsp} (0.48)

Determinand	Allotment	R _{HP}	R _{HP}	Commercial/ Industrial	POSrest	POSpark
Petroleum Hydrocarbons (SOM 1%/ 2.5%/ 6%)^{a, b, l, m}						
Aliphatic EC 5-6	730 / 1700 / 3900	42 / 78 / 160	42 / 78 / 160	3200 ^{sol} (304) / 5900 ^{sol} (558) / 12000 ^{sol} (1150)	570000 ^{sol} (304) / 590000 / 600000	95000 ^{sol} (304) / 130000 ^{sol} (558) / 180000 ^{sol} (1150)
Aliphatic EC >6-8	2300 / 5600 / 13000	100 / 230 / 530	100 / 230 / 530	7800 ^{sol} (144) / 17000 ^{sol} (322) / 40000 ^{sol} (736)	600000 / 610000 / 620000	150000 ^{sol} (144) / 220000 ^{sol} (322) / 320000 ^{sol} (736)
Aliphatic EC >8-10	320 / 770 / 1700	27 / 65 / 150	27 / 65 / 150	2000 ^{sol} (78) / 4800 ^{sol} (190) / 11000 ^{sol} (451)	13000 / 13000 / 13000	14000 ^{sol} (78) / 18000 ^{sol} (190) / 21000 ^{sol} (451)
Aliphatic EC >10-12	2200 / 4400 / 7300	130v ^{sp} (48) / 330 ^{sp} (118) / 760 ^{sp} (283)	130v ^{sp} (48) / 330 ^{sp} (118) / 770 ^{sp} (283)	9700 ^{sol} (48) / 23000 ^{sol} (118) / 47000 ^{sol} (283)	13000 / 13000 / 13000	21000 ^{sol} (48) / 23000 ^{sol} (118) / 24000 ^{sol} (283)
Aliphatic EC >12-16	11000 / 13000 / 13000	1100 ^{sol} (24) / 2400 ^{sol} (59) / 4300 ^{sol} (142)	1100 ^{sol} (24) / 2400 ^{sol} (59) / 4400 ^{sol} (142)	59000 ^{sol} (24) / 82000 ^{sol} (59) / 90000 ^{sol} (142)	13000 / 13000 / 13000	25000 ^{sol} (24) / 25000 ^{sol} (59) / 26000 ^{sol} (142)
Aliphatic EC >16-35 °	260000 / 270000 / 270000	65000 ^{sol} (8.48) / 92000 ^{sol} (21) / 110000	65000 ^{sol} (8.48) / 92000 ^{sol} (21) / 110000	1600000 / 1700000 / 1800000	250000 / 250000 / 250000	450000 / 480000 / 490000
Aliphatic EC >35-44 °	260000 / 270000 / 270000	65000 ^{sol} (8.48) / 92000 ^{sol} (21) / 110000	65000 ^{sol} (8.48) / 92000 ^{sol} (21) / 110000	1600000 / 1700000 / 1800000	250000 / 250000 / 250000	450000 / 480000 / 490000
Aromatic EC 5-7 (benzene)	13 / 27 / 57	70 / 140 / 300	370 / 690 / 1400	260000 ^{sol} (1220) / 46000 ^{sol} (2260) / 86000 ^{sol} (4710)	56000 / 56000 / 56000	76000 ^{sol} (1220) / 84000 ^{sol} (2260) / 92000 ^{sol} (4710)
Aromatic EC >7-8 (toluene)	22 / 51 / 120	130 / 290 / 660	860 / 1800 / 3900	56000 ^{sol} (869) / 110000 ^{sol} (1920) / 180000 ^{sol} (4360)	56000 / 56000 / 56000	87000 ^{sol} (869) / 95000 ^{sol} (1920) / 100000 ^{sol} (4360)
Aromatic EC >8-10	8.6 / 21 / 51	34 / 83 / 190	47 / 110 / 270	3500 ^{sol} (613) / 8100 ^{sol} (1500) / 17000 ^{sol} (3580)	5000 / 5000 / 5000	7200 ^{sol} (613) / 8500 ^{sol} (1500) / 9300 ^{sol} (3580)
Aromatic EC >10-12	13 / 31 / 74	74 / 180 / 380	250 / 590 / 1200	16000 ^{sol} (364) / 28000 ^{sol} (899) / 34000 ^{sol} (2150)	5000 / 5000 / 5000	9200 ^{sol} (364) / 97000 ^{sol} (899) / 10000
Aromatic EC >12-16	23 / 57 / 130	140 / 330 / 660	1800 / 2300 ^{sol} (419) / 2500	36000 ^{sol} (169) / 37000 / 38000	5100 / 5100 / 5000	10000 / 10000 / 10000
Aromatic EC >16-21 °	46 / 110 / 260	260 / 540 / 930	1900 / 1900 / 1900	28000 / 28000 / 28000	3800 / 3800 / 3800	7600 / 7700 / 7800
Aromatic EC >21-35 °	370 / 820 / 1600	1100 / 1500 / 1700	1900 / 1900 / 1900	28000 / 28000 / 28000	3800 / 3800 / 3800	7800 / 7800 / 7900
Aromatic EC >35-44 °	370 / 820 / 1600	1100 / 1500 / 1700	1900 / 1900 / 1900	28000 / 28000 / 28000	3800 / 3800 / 3800	7800 / 7800 / 7900
Aliphatic+Aromatic EC >44-70 °	1200 / 2100 / 3000	1600 / 1800 / 1900	1900 / 1900 / 1900	28000 / 28000 / 28000	3800 / 3800 / 3800	7800 / 7800 / 7900
Chloroalkanes & Chloroalkenes (SOM 1%/ 2.5%/ 6%)^{a, b, l, p}						
1,2-Dichloroethane	0.0046 / 0.0083 / 0.016	0.0071 / 0.011 / 0.019	0.092 / 0.013 / 0.023	0.67 / 0.97 / 1.7	29 / 29 / 29	21 / 24 / 28
1,1,1 Trichloroethane (TCA)	48 / 110 / 240	8.8 / 18 / 39	9.0 / 18 / 40	660 / 1300 / 3000	140000 / 140000 / 140000	57000 ^{sol} (1425) / 76000 ^{sol} (2915) / 100000 ^{sol} (6392)
1,1,1,2 Tetrachloroethane	0.79 / 1.9 / 4.4	1.2 / 2.8 / 6.4	1.5 / 3.5 / 8.2	110 / 250 / 560	1400 / 1400 / 1400	1500 / 1800 / 2100
1,1,2,2 Tetrachloroethane	0.41 / 0.89 / 2.0	1.6 / 3.4 / 7.5	3.9 / 8.0 / 17	270 / 550 / 1100	1400 / 1400 / 1400	1800 / 2100 / 2300
Tetrachloroethene (PCE)	0.65 / 1.5 / 3.6	0.18 / 0.39 / 0.90	0.18 / 0.4 / 0.92	19 / 42 / 95	1400 / 1400 / 1400	810 ^{sol} (424) / 1100 ^{sol} (951) / 1500
Tetrachloromethane (Carbon Tetrachloride)	0.45 / 1.0 / 2.4	0.026 / 0.056 / 0.13	0.026 / 0.056 / 0.13	2.9 / 6.3 / 14	890 / 920 / 950	190 / 270 / 400
Trichloroethene (TCE)	0.041 / 0.091 / 0.21	0.016 / 0.034 / 0.075	0.017 / 0.036 / 0.080	1.2 / 2.6 / 5.7	120 / 120 / 120	70 / 91 / 120
Trichloromethane (Chloroform)	0.42 / 0.83 / 1.7	0.91 / 1.7 / 3.4	1.2 / 2.1 / 4.2	99 / 170 / 350	2500 / 2500 / 2500	2600 / 2800 / 3100
Chloroethene (Vinyl Chloride)	0.00055 / 0.001 / 0.0018	0.00064 / 0.00087 / 0.0014	0.00077 / 0.001 / 0.0015	0.059 / 0.077 / 0.12	3.5 / 3.5 / 3.5	4.8 / 5.0 / 5.4
Phenol & Chlorophenols^{a, b, l, p}						
Phenol	23 / 42 / 83	120 / 200 / 380	440 / 690 / 1200	440 ^{dr} (26000) / 690 ^{dr} (30000) / 1300 ^{dr} (34000)	440 ^{dr} (10000) / 690 ^{dr} (10000) / 1300 ^{dr} (10000)	440 ^{dr} (7600) / 690 ^{dr} (8300) / 1300 ^{dr} (93000)
Chlorophenols (excluding PCP) [†]	0.13 ^s / 0.3 / 0.7	0.87 ^s / 2.0 / 4.5	94 / 150 / 210	3500 / 4000 / 4300	620 / 620 / 620	1100 / 1100 / 1100
Pentachlorophenol (PCP)	0.03 / 0.08 / 0.19	0.22 / 0.52 / 1.2	27 ^{sol} (16.4) / 29 / 31	400 / 400 / 400	60 / 60 / 60	110 / 120 / 120
Other^{a, b, l, p}						
Carbon Disulphide	4.8 / 10 / 23	0.14 / 0.29 / 0.62	0.14 / 0.29 / 0.62	11 / 22 / 47	11000 / 11000 / 12000	1300 / 1900 / 2700
Hexachlorobutadiene (HCBD)	0.25 / 0.61 / 1.4	0.29 / 0.7 / 1.6	0.32 / 0.78 / 1.8	31 / 66 / 120	25 / 25 / 25	48 / 50 / 51

Determinand	Allotment	R _W HP	R _{WO} HP	Commercial/ Industrial	POSresi	POSpark
Pesticides (SOM 1%/ 2.5%/ 6%)^{a, b, c, p}						
Aldrin	3.2 / 6.1 / 9.6	5.7 / 6.6 / 7.1	7.3 / 7.4 / 7.5	170 / 170 / 170	18 / 18 / 18	30 / 31 / 31
Atrazine	0.5 / 1.2 / 2.7	3.3 / 7.6 / 17.4	610 / 620 / 620	9300 / 9400 / 9400	1200 / 1200 / 1200	2300 / 2400 / 2400
Dichlorvos	0.0049 / 0.010 / 0.022	0.032 / 0.066 / 0.14	6.4 / 6.5 / 6.6	140 / 140 / 140	16 / 16 / 16	26 / 26 / 27
Dieldrin	0.17 / 0.41 / 0.96	0.97 / 2 / 3.5	7.0 / 7.3 / 7.4	170 / 170 / 170	18 / 18 / 18	30 / 30 / 31
Alpha - Endosulfan	1.2 / 2.9 / 6.8	7.4 / 18 / 41	160 ^{vap} (0.003) / 280 ^{vap} (0.007) / 410 ^{vap} (0.016)	5600 ^{vap} (0.003) / 7400 ^{vap} (0.007) / 8400 ^{vap} (0.016)	1200 / 1200 / 1200	2400 / 2400 / 2500
Beta - Endosulfan	1.1 / 2.7 / 6.4	7.0 / 17 / 39	190 ^{vap} (0.00007) / 320 ^{vap} (0.0002) / 440 ^{vap} (0.0004)	6300 ^{vap} (0.00007) / 7800 ^{vap} (0.0002) / 8700	1200 / 1200 / 1200	2400 / 2400 / 2500
Alpha-Hexachlorocyclohexane	0.035 / 0.087 / 0.21	0.23 / 0.55 / 1.2	6.9 / 9.2 / 11	170 / 180 / 180	24 / 24 / 24	47 / 48 / 48
Beta - Hexachlorocyclohexane	0.013 / 0.032 / 0.077	0.085 / 0.2 / 0.46	3.7 / 3.8 / 3.8	65 / 65 / 65	8.1 / 8.1 / 8.1	15 / 15 / 16
Gamma - Hexachlorocyclohexane	0.0092 / 0.023 / 0.054	0.06 / 0.14 / 0.33	2.9 / 3.3 / 3.5	67 / 69 / 70	8.2 / 8.2 / 8.2	14 / 15 / 15
Chlorobenzenes^{a, b, c, p}						
Chlorobenzene	5.9 / 14 / 32	0.46 / 1.0 / 2.4	0.46 / 1.0 / 2.4	56 / 130 / 290	11000 / 13000 / 14000	1300 ^{sol} (675) / 2000 ^{sol} (1520) / 2900
1,2-dichlorobenzene (1,2-DCB)	94 / 230 / 540	23 / 55 / 130	24 / 57 / 130	2000 ^{sol} (571) / 4800 ^{sol} (1370) / 11000 ^{sol} (3240)	90000 / 95000 / 98000	24000 ^{sol} (571) / 36000 ^{sol} (1370) / 51000 ^{sol} (3240)
1,3-dichlorobenzene (1,3-DCB)	0.25 / 0.6 / 1.5	0.4 / 1.0 / 2.3	0.44 / 1.1 / 2.5	30 / 73 / 170	300 / 300 / 300	390 / 440 / 470
1,4-dichlorobenzene (1,4-DCB)	15 ¹ / 37 / 88 ¹	61 ¹ / 150 ¹ / 350 ¹	61 ¹ / 150 ¹ / 350 ¹	4400 ^{vap, q} (224) / 10000 ^{vap, q} (540) / 25000 ^{vap, q} (1280)	17000 ¹ / 17000 ¹ / 17000 ¹	36000 ^{vap, q} (224) / 36000 ^{vap, q} (540) / 36000 ^{vap, q} (1280)
1,2,3-Trichlorobenzene	4.7 / 12 / 28	1.5 / 3.6 / 8.6	1.5 / 3.7 / 8.8	102 / 250 / 590	1800 / 1800 / 1800	770 ^{vap} (134) / 1100 ^{vap} (330) / 1600 ^{vap} (789)
1,2,4- Trichlorobenzene	55 / 140 / 320	2.6 / 6.4 / 15	2.6 / 6.4 / 15	220 / 530 / 1300	15000 / 17000 / 19000	1700 ^{vap} (318) / 2600 ^{vap} (786) / 4000 ^{vap} (1880)
1,3,5- Trichlorobenzene	4.7 / 12 / 28	0.33 / 0.81 / 1.9	0.33 / 0.81 / 1.9	23 / 55 / 130	1700 / 1700 / 1800	380 ^{vap} (36.7) / 580 ^{vap} (90.8) / 860 ^{vap} (217)
1,2,3,4-Tetrachlorobenzene	4.4 / 11 / 26	15 / 36 / 78	24 / 56 / 120	1700 ^{vap} (122) / 3080 ^{vap} (304) / 4400 ^{vap} (728)	830 / 830 / 830	1500 ^{vap} (122) / 1600 / 1600
1,2,3,5- Tetrachlorobenzene	0.38 / 0.90 / 2.2	0.66 / 1.6 / 3.7	0.75 / 1.9 / 4.3	49 ^{vap} (39.4) / 120 ^{vap} (98.1) / 240 ^{vap} (235)	78 / 79 / 79	110 ^{vap} (39) / 120 / 130
1,2,4,5- Tetrachlorobenzene	0.06 / 0.16 / 0.37	0.33 / 0.77 / 1.6	0.73 / 1.7 / 3.5	42 ^{sol} (19.7) / 72 ^{sol} (49.1) / 96	13 / 13 / 13	25 / 26 / 26
Pentachlorobenzene (PeCB)	1.2 / 3.1 / 7.0	5.8 / 12 / 22	19 / 30 / 38	640 ^{sol} (43.0) / 770 ^{sol} (107) / 830	100 / 100 / 100	190 / 190 / 190
Hexachlorobenzene (HCB)	0.47 / 1.1 / 2.5	1.8 ^{vap} (0.20) / 3.3 ^{vap} (0.5) / 4.9	4.1 ^{vap} (0.20) / 5.7 ^{vap} (0.5) / 6.7 ^{vap} (1.2)	110 ^{vap} (0.20) / 120 / 120	16 / 16 / 16	30 / 30 / 30

- R_WHP Residential with homegrown produce
 R_{WO}HP Residential without homegrown produce
 POSresi public open spaces near residential housing
 POSpark public open space for recreational use but not dedicated sports pitches
 SOM Soil Organic Matter – **the S4UL for all organic compounds will vary according to SOM**
 a Based on a sandy loam soil as defined in SR3 (Environment Agency, 2009b) and 6% soil organic matter (SOM)
 b Figures rounded to two significant figures
 c Based only on a comparison of oral and dermal soil exposure with oral Index Dose
 d The background ADE is limited to being no larger than the contribution from the relevant soil ADE
 e Based on comparison of inhalation exposure with inhalation TDI only
 f Based on a lifetime exposure via the oral, dermal and inhalation pathways
 g Based on localised effects comparing inhalation exposure with inhalation ID only
 h Based on comparison of inhalation exposure with inhalation ID
 i Based on comparison of oral and dermal exposure with oral TDI
 j Based on comparison of oral, dermal and inhalation exposure with inhalation TDI
 k Based on comparison of all exposure pathways with oral TDI
 l S4ULs assume that free phase contamination is not present
 m S4ULs based on a sub-surface soil to indoor air correction factor of 10
 n The HCV applied is based on the intake of total Xylene and therefore exposure should not consider an isomer in isolation
 o Oral, dermal and inhalation exposure compared with oral HCV
 p S4ULs based on a sub-surface soil to indoor air correction factor of 1
 q Based on a comparison of inhalation exposure with the inhalation TDI for localised effects
 r Based on 2,4-dichlorophenol unless otherwise stated
 s Based on 2,3,4,6-tetrachlorophenol
 vap S4UL presented exceeded the vapour saturation limit, which is presented in brackets
 sol S4UL presented exceeds the solubility saturation limit, which is presented in brackets
 dir S4ULs based on a threshold protective of direct skin contact, guideline in brackets based on the health effects following long term exposure provided for illustration only

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Category 4 Screening Levels (C4SL) – Table taken from SP1010: Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination – Policy Companion Document (Department for Environmental, Food and Rural Affairs December 2014).

	Residential (with home-grown produce)	Residential (without home-grown produce)	Allotments	Commercial	Public Open Space 1	Public Open Space 2
Arsenic	37	40	49	640	79	170
Benzene	0.87	3.3	0.18	98	140	230
Benzo(a)pyrene	5.0	5.3	5.7	77	10	21
Cadmium	22	150	3.9	410	220	880
Chromium VI	21	21	170	49	21	250
Lead	200	310	80	2300	630	1300

All in mg/kg

Public Open Space 1 – for grassed area adjacent to residential housing

Public Open Space 2 - Park Type Public Open Space Scenario

APPENDIX H

GROUNDWATER / GAS MONITORING RECORD SHEET

Client:	Country Court Care Group		Job No:	102378			Instruments Used:		GFM 435					
Project:	Holland Park, Spalding		Date:	12-Mar-26			Monitored By:		AD					
Weather:	Windy, Overcast													
Installation No.	Peak ¹		Steady ²			Steady gas flow rate	Peak gas flow rate	Atmospheric Pressure	Minutes Monitored	Methane		Carbon Dioxide		Groundwater depth
	CH ₄	CO ₂	CH ₄	CO ₂	O ₂					GSV	CS	GSV	CS	
	(% vol)	(% vol)	(% vol)	(% vol)	(% vol)	(l/hr)	(l/hr)	(mbar)						
BH01	0.0	1.6	0.0	1.6	19.4	0.1	3.2	1001	5	0	CSI	0.0512	CSI	1.88
BH02	0.0	0.3	0.0	0.3	20.6	0.1	0.1	1001	5	0	CSI	0.0003	CSI	0.91

GROUNDWATER / GAS MONITORING RECORD SHEET

Client:	Country Court Care Group		Job No:	102378			Instruments Used:		GFM 435					
Project:	Holland Park, Spalding		Date:	19-Mar-26			Monitored By:		AD					
Weather:	Clear Skies													
Installation No.	Peak ¹		Steady ²			Steady gas flow rate (l/hr)	Peak gas flow rate (l/hr)	Atmospheric Pressure (mbar)	Minutes Monitored	Methane		Carbon Dioxide		Groundwater depth (m)
	CH ₄	CO ₂	CH ₄	CO ₂	O ₂					GSV	CS	GSV	CS	
	(% vol)	(% vol)	(% vol)	(% vol)	(% vol)									
BH01	0.0	1.6	0.0	1.6	19.3	0.1	0.1	1026	5	0	CSI	0.0016	CSI	1.85
BH02	0.0	0.3	0.0	0.3	20.7	0.1	0.1	1026	5	0	CSI	0.0003	CSI	2.1

GROUNDWATER / GAS MONITORING RECORD SHEET

Client:	Country Court Care Group		Job No:	102378		Instruments Used:		GFM 435						
Project:	Holland Park, Spalding		Date:	26-Mar-26		Monitored By:		AD						
Weather:	Windy, Clear Skies													
Installation No.	Peak ¹		Steady ²			Steady gas flow rate (l/hr)	Peak gas flow rate (l/hr)	Atmospheric Pressure (mbar)	Minutes Monitored	Methane		Carbon Dioxide		Groundwater depth (m)
	CH ₄	CO ₂	CH ₄	CO ₂	O ₂					GSV	CS	GSV	CS	
	(% vol)	(% vol)	(% vol)	(% vol)	(% vol)									
BH01	0.0	1.7	0.0	1.7	18.4	0.1	0.1	1021	5	0	CSI	0.0017	CSI	1.78
BH02	0.0	0.2	0.0	0.2	20.6	0.1	0.3	1021	5	0	CSI	0.0006	CSI	2.08

GROUNDWATER / GAS MONITORING RECORD SHEET

Client:	Country Court Care Group		Job No:	102378		Instruments Used:		GFM 435						
Project:	Holland Park, Spalding		Date:	30-Mar-26		Monitored By:		FP						
Weather:	Sunny, windy													
Installation No.	Peak ¹		Steady ²			Steady gas	Peak gas	Atmospheric	Minutes	Methane		Carbon Dioxide		Groundwater
	CH ₄	CO ₂	CH ₄	CO ₂	O ₂	flow rate	flow rate	Pressure	Monitored	GSV	CS	GSV	CS	depth
	(% vol)	(% vol)	(% vol)	(% vol)	(% vol)	(l/hr)	(l/hr)	(mbar)						(m)
BH01	0.0	2.1	0.0	2.1	17.2	0.1	0.1	1021	5	0	CSI	0.0021	CSI	2.11
BH02	0.0	0.2	0.0	0.2	20.9	0.1	0.1	1021	5	0	CSI	0.0002	CSI	2.22

GROUNDWATER / GAS MONITORING RECORD SHEET

Client:	Country Court Care Group			Job No:	102378			Instruments Used:			GFM 435				
Project:	Holland Park, Spalding			Date:	10-Apr-26			Monitored By:			FP				
Weather:	Sunny, dry														
Installation No.	Peak ¹		Steady ²			Steady gas flow rate	Peak gas flow rate	Atmospheric Pressure	Minutes Monitored	Methane		Carbon Dioxide		Groundwater depth	
	CH ₄	CO ₂	CH ₄	CO ₂	O ₂					GSV	CS	GSV	CS		
	(% vol)	(% vol)	(% vol)	(% vol)	(% vol)										
BH01	0.0	3.0	0.0	3.0	14.6	0.1	0.1	1018	5	0	CSI	0.003	CSI	2.21	
BH02	0.0	0.1	0.0	0.1	20.7	0.1	0.1	1019	5	0	CSI	0.0001	CSI	2.32	

GROUNDWATER / GAS MONITORING RECORD SHEET

Client:	Country Court Care Group				Job No:	102378			Instruments Used:		GFM 435				
Project:	Holland Park, Spalding				Date:	15-Apr-26			Monitored By:		FP				
Weather:	Cloudy, windy														
Installation No.	Peak ¹		Steady ²			Steady gas flow rate	Peak gas flow rate	Atmospheric Pressure	Minutes Monitored	Methane		Carbon Dioxide		Groundwater depth	
	CH ₄	CO ₂	CH ₄	CO ₂	O ₂					GSV	CS	GSV	CS		
	(% vol)	(% vol)	(% vol)	(% vol)	(% vol)	(l/hr)	(l/hr)	(mbar)							
BH01	0.0	3.5	0.0	3.5	13.9	0.1	0.1	1010	5	0	CSI	0.0035	CSI	2.22	
BH02	0.0	0.7	0.0	0.7	20.4	0.1	0.1	1011	5	0	CSI	0.0007	CSI	2.37	

¹ The peak reading is the maximum recorded level during a monitoring event.

² The steady reading is the level which remained constant after approximately 2 minutes.

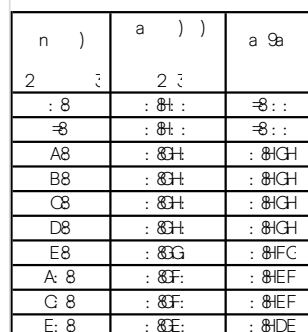
APPENDIX I

$$i \Rightarrow =$$

m)i l

The diagram shows a vertical pipe with a water level indicated by a horizontal line. A wavy line represents the water surface inside the pipe. A dashed line indicates the bottom of the pipe. A horizontal double-headed arrow labeled 'U' represents the width of the pipe. A vertical double-headed arrow on the right indicates the height of the water column. A small triangle is shown on the right side of the pipe, pointing downwards.

	U	)	S	)	)	O8::
	U	)	V	)	)	=8t:
	U	)	)	)	)	: 8::
	U	)	)	)	)	=8::
t	e	)	)	)	)	: 8t:
U	U	)	)	)	)	: 8D
Y	b	)	Y	)	)	=8FC
	2	)	T	)	SmDB: HHHHm	)C9Y JE3



)R)a)=HD=7)S)n)e)R

T)) R)M : 8: ~~HEBC~~ A
b)Y Y)M ~~DFC~~
n))))a 9a: n)M A=EG4

[illegible]

Dice
Environmental

$$i \Rightarrow =$$

m)i l

U		U
Y	I	
: 8:	: 8:	f RUV)Z I h o g U) m)) nh i m h æ
: 8:	A8:	m))) T e R s 9 r t æ
A8:	BÆ:	m))) T e R s 9 r t æ
BÆ:	C8:	e))))) m R g U

The diagram shows a vertical pipe with a water level indicated by a wavy line. A submerged object is shown at the bottom of the pipe, with a horizontal dimension U indicated. A vertical double-headed arrow on the right indicates the height of the water level above the object.

n	a (solid line)	a (dashed line)
2	1.00	0.55
3	0.95	0.55
4	0.94	0.55
5	0.93	0.55
6	0.92	0.55
7	0.91	0.55
8	0.90	0.55
9	0.89	0.55
10	0.88	0.55

n)	a))	a 9
2 2	2 2	
: 8	: 8	: 8 :
: 8	: 8	: 8 :
A8	: 8	: 8 :
B8	: 8 H	: 8 :
C8	: 8 H	: 8 :
D8	: 8 H	: 8 :
E8	: 8 H	: 8 :
A: 8	: 8 G	: 8 :
G 8	: 8 G	: 8 :
E: 8	: 8 G	: 8 :

$\neg R$ $\neg a$ $\neg \exists D \neg S$ $\neg n$ $\neg e$ $\neg R$

T)) R)M : 8: #EBC A
b)Y Y)M : 8BD
n))) a a: n)M AEC 4

i)N A8GV7: C 9

[illegible]

c)g 8 = ABFG
m l a)i 0m
T l T)T)T)Z