



## **BEK Geo-Environmental Consulting**

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**01254 377622**

Our Ref: BEK-24075-240624-LH

24<sup>th</sup> June 2024

### **Lynne Howard**

180 Stapleton Hall Road

London

N4 4QL

### **Tincklers Lane, Ecclestone - Site Investigation Report**

BEK has been commissioned to prepare a Factual Letter Report detailing the findings of site investigation works undertaken at an area of land located off Tincklers Lane, Ecclestone, Chorley, PR7 5QU (hereafter referred to as 'the site').

The site investigation works were undertaken by BEK in order to provide information regarding the shallow ground conditions at the site.

#### **Site Location**

The site is located to the east of Tincklers Lane in the north-west of the village of Ecclestone, approximately 6.8 km west of Chorley.

#### **BEK Site Investigation**

The site investigation works were undertaken at the site by BEK on 14<sup>th</sup> June 2024 and consisted of the machine excavation of 7 x trial pits to a maximum depth of 3.4 m through the use of a JCB 3CX machine.

The ground conditions were recorded by an engineer from BEK and copies of the trial pit records are presented in Annex A. A series of photographs showing the trial pits are presented in Annex B. The exploratory locations are illustrated on BEK Drawing No 24075-1, a copy of which is presented in Annex C.

#### Ground Conditions

The site investigation works encountered an uppermost layer of topsoil in all exploratory locations described as 'Brown organic slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine stone of mixed lithologies'. The topsoil was encountered to depths varying from 0.1 m (Trial Pit TP7) to 0.2 m (Trial Pit TP2, TP3 & TP5).

Natural strata was encountered beneath the topsoil in all exploratory locations and comprised the following three subtypes:

'Reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular to rounded stone of mixed lithologies (Boulder Clay)' was encountered beneath topsoil in all exploratory locations to depths varying from 2.0 m (Trial Pit TP5) to 2.5 m (Trial Pit TP4). The base of this strata was proven in all exploratory locations excluding Trial Pit TP1.

'Brownish red very clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse stone of mixed lithologies including light brown, fine to medium grained sandstone. Occasional sandstone cobbles & boulders increasing in abundance with depth (Bedrock Pieces?). Occasional sandy clay lenses' was encountered beneath clay in 6 of the 7 exploratory locations to depths varying from 3.2 m to 3.4 m. The base of this strata was only proven in Trial Pit TP3 at a depth of 3.2 m.

'Light brown slightly clayey gravelly fine to medium silty SAND. Gravel is fine to coarse light brown fine to medium grained subangular to angular sandstone' was encountered within Trial Pit TP3 from 3.2 m to a maximum proven depth of 3.4 m. This strata was interpreted to possibly be the upper weathered portion of the Sherwood Sandstone bedrock.

No evidence of groundwater was encountered during site investigation works, with all trial pits remaining dry during excavation.

No visual/olfactory evidence of contamination was encountered within any of the exploratory locations, with all strata encountered devoid of any evidence of anthropogenic influence.

In-situ testing using a handheld shear vane was carried out where suitable clay strata was encountered, the details of which can be seen on the trial pit logs presented in Annex A.

I trust the above is satisfactory. Please call me should you have any questions.

Yours sincerely



**Michael Buckley**

*BSC (Hons) MSc MEnvSci CEnv*



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ANNEX A

Trial Pit Records













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<b>PROJECT NUMBER</b> 24075 <b>PROJECT NAME</b> Tincklers Lane, Eccleston <b>CLIENT</b> Lynne Howard	<b>DATE</b> 14th June 2024  <b>TRIAL PIT NO</b> TP1 <b>SHEET</b> 1/7
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**COMPLETION** 2.1 m

**COMMENTS** Pit dry

Depth (m)	Depth (m)	Samples/ Test	Field Records	Water	Graphic Log	Material Description	Elevation (m)
0.2						Long grass onto brown organic slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine stone of mixed lithologies. (TOPSOIL)	0.2
0.4						Reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular to rounded stone of mixed lithologies. (BOULDER CLAY)	0.4
0.6							0.6
0.8							0.8
1							1
1.2							1.2
1.4							1.4
1.6							1.6
1.8							1.8
2							2
2.2						Termination Depth at: 2.1 m	2.2
2.4							2.4
2.6							2.6
2.8							2.8
3							3
3.2							3.2
3.4							3.4
3.6							3.6
3.8							3.8






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<b>PROJECT NUMBER</b> 24075	<b>DATE</b> 14th June 2024
<b>PROJECT NAME</b> Tinklers Lane, Eccleston	<b>TRIAL PIT NO</b> TP2
<b>CLIENT</b> Lynne Howard	<b>SHEET</b> 2/7

**COMPLETION** 3.4 m

**COMMENTS** Pit dry

Depth (m)	Depth (m)	Samples/ Test	Field Records	Water	Graphic Log	Material Description	Elevation (m)
0.2						Long grass onto brown organic slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine stone of mixed lithologies. (TOPSOIL)	0.2
0.4						Reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular to rounded stone of mixed lithologies. (BOULDER CLAY)	0.4
0.6							0.6
0.8							0.8
1							1
1.2			Shear Vane at 1.4 m >120KPa				1.2
1.4							1.4
1.6							1.6
1.8							1.8
2							2
2.2							2.2
2.4						Brownish red very clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse stone of mixed lithologies including light brown, fine to medium grained sandstone. Occasional sandstone cobbles & boulders increasing in abundance with depth (Bedrock Pieces?). Occasional sandy clay lenses	2.4
2.6							2.6
2.8							2.8
3							3
3.2							3.2
3.4						Termination Depth at: 3.4 m	3.4
3.6							3.6
3.8							3.8



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<b>PROJECT NUMBER</b> 24075	<b>DATE</b> 14th June 2024
<b>PROJECT NAME</b> Tinklers Lane, Eccleston	
<b>CLIENT</b> Lynne Howard	<b>TRIAL PIT NO</b> TP3
	<b>SHEET</b> 3/7

**COMPLETION** 3.4 m

**COMMENTS** Pit dry

Depth (m)	Depth (m)	Samples/ Test	Field Records	Water	Graphic Log	Material Description	Elevation (m)
0.2					[Cross-hatched pattern]	Long grass onto brown organic slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine stone of mixed lithologies. (TOPSOIL)	0.2
0.4					[Pattern with small circles]	Reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular to rounded stone of mixed lithologies. (BOULDER CLAY)	0.4
0.6					[Pattern with small circles]		0.6
0.8			Shear Vane at 0.8 m >120KPa		[Pattern with small circles]		0.8
1.0					[Pattern with small circles]		1.0
1.2					[Pattern with small circles]		1.2
1.4					[Pattern with small circles]		1.4
1.6					[Pattern with small circles]		1.6
1.8					[Pattern with small circles]		1.8
2.0					[Pattern with small circles]		2.0
2.2					[Pattern with small circles]		2.2
2.4					[Pattern with small circles]	Brownish red very clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse stone of mixed lithologies including light brown, fine to medium grained sandstone. Occasional sandstone cobbles & boulders increasing in abundance with depth (Bedrock Pieces?). Occasional sandy clay lenses	2.4
2.6					[Pattern with small circles]		2.6
2.8					[Pattern with small circles]		2.8
3.0					[Pattern with small circles]		3.0
3.2					[Pattern with small circles]	Light brown slightly clayey gravelly fine to medium silty SAND. Gravel is fine to coarse light brown fine to medium grained subangular to angular sandstone. (Weathered Bedrock?)	3.2
3.4					[Pattern with small circles]	Termination Depth at: 3.4 m	3.4
3.6							3.6
3.8							3.8






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<b>PROJECT NUMBER</b> 24075 <b>PROJECT NAME</b> Tinklers Lane, Eccleston <b>CLIENT</b> Lynne Howard	<b>DATE</b> 14th June 2024  <b>TRIAL PIT NO</b> TP4 <b>SHEET</b> 4/7
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**COMPLETION** 3.2 m

**COMMENTS** Pit dry

Depth (m)	Depth (m)	Samples/ Test	Field Records	Water	Graphic Log	Material Description	Elevation (m)
0.2						Long grass onto brown organic slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine stone of mixed lithologies. (TOPSOIL)	0.2
0.4						Reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular to rounded stone of mixed lithologies. (BOULDER CLAY)	0.4
0.6							0.6
0.8			Shear Vane at 0.9 m >120KPa				0.8
1							1
1.2							1.2
1.4							1.4
1.6							1.6
1.8							1.8
2							2
2.2							2.2
2.4							2.4
2.6						Brownish red very clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse stone of mixed lithologies including light brown, fine to medium grained sandstone. Occasional sandstone cobbles & boulders increasing in abundance with depth (Bedrock Pieces?). Occasional sandy clay lenses	2.6
2.8							2.8
3							3
3.2						Termination Depth at: 3.2 m	3.2
3.4							3.4
3.6							3.6
3.8							3.8




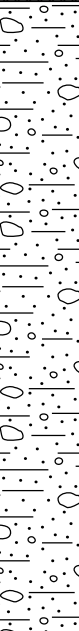
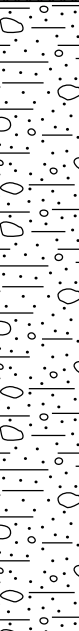
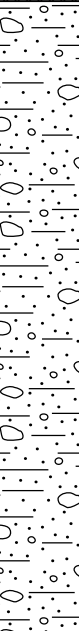
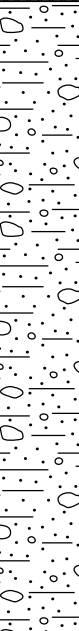
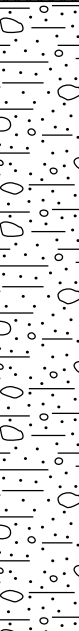
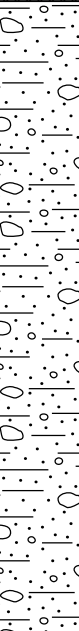
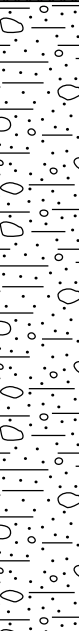
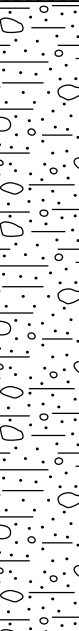







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<b>PROJECT NUMBER</b> 24075 <b>PROJECT NAME</b> Tinklers Lane, Eccleston <b>CLIENT</b> Lynne Howard	<b>DATE</b> 14th June 2024  <b>TRIAL PIT NO</b> TP5 <b>SHEET</b> 5/7
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**COMPLETION** 3.2 m

**COMMENTS** Pit dry

Depth (m)	Depth (m)	Samples/ Test	Field Records	Water	Graphic Log	Material Description	Elevation (m)
0.2						Long grass onto brown organic slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine stone of mixed lithologies. (TOPSOIL)	0.2
0.4						Reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular to rounded stone of mixed lithologies. (BOULDER CLAY)	0.4
0.6							0.6
0.8							0.8
1.0			Shear Vane at 1.1 m >120KPa				1.0
1.2							1.2
1.4							1.4
1.6							1.6
1.8							1.8
2.0						Brownish red very clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse stone of mixed lithologies including light brown, fine to medium grained sandstone. Occasional sandstone cobbles & boulders increasing in abundance with depth (Bedrock Pieces?). Occasional sandy clay lenses	2.0
2.2							2.2
2.4							2.4
2.6							2.6
2.8							2.8
3.0							3.0
3.2						Termination Depth at: 3.2 m	3.2
3.4							3.4
3.6							3.6
3.8							3.8








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<b>PROJECT NUMBER</b> 24075	<b>DATE</b> 14th June 2024
<b>PROJECT NAME</b> Tinklers Lane, Eccleston	<b>TRIAL PIT NO</b> TP6
<b>CLIENT</b> Lynne Howard	<b>SHEET</b> 6/7

**COMPLETION** 3.4 m

**COMMENTS** Pit dry

Depth (m)	Depth (m)	Samples/ Test	Field Records	Water	Graphic Log	Material Description	Elevation (m)
0.2						Long grass onto brown organic slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine stone of mixed lithologies. (TOPSOIL)	0.2
0.4						Reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular to rounded stone of mixed lithologies. (BOULDER CLAY)	0.4
0.6			Shear Vane at 0.7 m >120KPa				0.6
0.8							0.8
1							1
1.2							1.2
1.4							1.4
1.6							1.6
1.8							1.8
2							2
2.2						Brownish red very clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse stone of mixed lithologies including light brown, fine to medium grained sandstone. Occasional sandstone cobbles & boulders increasing in abundance with depth (Bedrock Pieces?). Occasional sandy clay lenses	2.2
2.4							2.4
2.6							2.6
2.8							2.8
3							3
3.2							3.2
3.4						Termination Depth at: 3.4 m	3.4
3.6							3.6
3.8							3.8



















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<b>PROJECT NUMBER</b> 24075	<b>DATE</b> 14th June 2024
<b>PROJECT NAME</b> Tincklers Lane, Eccleston	
<b>CLIENT</b> Lynne Howard	<b>TRIAL PIT NO</b> TP7
	<b>SHEET</b> 7/7

**COMPLETION** 3.2 m

**COMMENTS** Pit dry

Depth (m)	Depth (m)	Samples/ Test	Field Records	Water	Graphic Log	Material Description	Elevation (m)
0.2						Long grass onto brown organic slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine stone of mixed lithologies. (TOPSOIL)	0.2
0.4						Reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular to rounded stone of mixed lithologies. (BOULDER CLAY)	0.4
0.6			Shear Vane at 0.7 m 107KPa				0.6
0.8							0.8
1							1
1.2							1.2
1.4			Shear Vane at 1.4 >120KPa				1.4
1.6							1.6
1.8							1.8
2							2
2.2						Brownish red very clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse stone of mixed lithologies including light brown, fine to medium grained sandstone. Occasional sandstone cobbles & boulders increasing in abundance with depth (Bedrock Pieces?). Occasional sandy clay lenses	2.2
2.4							2.4
2.6							2.6
2.8							2.8
3							3
3.2							3.2
3.2						Termination Depth at: 3.2 m	3.2
3.4							3.4
3.6							3.6
3.8							3.8



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ANNEX B

Trial Pit Photographs



P1: Trial Pit TP1



P2: Trial Pit TP1



P3: Trial Pit TP2



P4: Trial Pit TP2



P5: Trial Pit TP3



P6: Trial Pit TP3



Photographs 1 to 6

This appendix is for illustrative purposes only and is for use only in conjunction with associated reports relating to the project details adjacent. BEK accepts no liability for the misinterpretation or use of this illustration by any other parties.

Site: Tincklers Lane, Ecclestone

Title: Annex B - Photographs

Project No: 24075

Created By: AH

Date: June 2024

Client: Lynne Howard



**P7: Trial Pit TP4**



**P8: Trial Pit TP4**



**P9: Trial Pit TP5**



**P10: Trial Pit TP5**



**P11: Trial Pit TP6**



**P12: Trial Pit TP6**



**Photographs 7 to 12**

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**Site:** Tincklers Lane, Ecclestone

**Title:** Annex B - Photographs

**Project No:** 24075

**Created By:**  
AH

**Date:** June 2024

**Client:** Lynne Howard



**P13:** Trial Pit TP7

**P14:** Trial Pit TP7



**Photographs 13 to 14**

This appendix is for illustrative purposes only and is for use only in conjunction with associated reports relating to the project details adjacent. BEK accepts no liability for the misinterpretation or use of this illustration by any other parties.

**Site:** Tincklers Lane, Eccleston

**Title:** Annex B - Photographs

**Project No:** 24075

**Created By:** AH

**Date:** June 2024

**Client:** Lynne Howard



**BEK Geo-Environmental Consulting**

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## ANNEX C

Drawings



## LEGEND



BEK TRIAL PIT

REV	DESCRIPTION	DATE	BY



GEO-ENVIRONMENTAL CONSULTING

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CLIENT.

LYNNE HOWARD

JOB TITLE.

TINCKLERS LANE, ECCLESTON

DRAWING TITLE.

SITE INVESTIGATION PLAN

SCALE © A3. N'TS	DRAWN BY. D.E.	APPROVED BY. M.B.	DATE. 21/06/24
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DRAWING No. 24075-1	REV. -
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