Trial Pit Record

DCP02

Sheet 1 of 1

Project ID: **GL24466**	Client: The Big Yellow Construction Company Ltd	E: 528767.17	N: 185123.60
Location: Big Yellow, Kentish Town	Consultant: Campbell Reith Hill LLP		
	Plant used: Hand Excavated	Date: 12/08/2021	

Geology Description	Legend	Depth	Elevation (maOD) 36.89	Sample / In-Situ Test Information			Installation & Backfill
				Type	Depth	Results / Remarks	
Grass over TOPSOIL. Soft dark brown slightly sandy slightly gravelly CLAY. Gravel is subangular fine to coarse flint.				D1	0.15		
At 0.25m: Plastic membrane.							
		0.30	36.59				
MADE GROUND. Dark brown slightly sandy clayey GRAVEL with rare pockets of light brown clay. Gravel is subangular fine to coarse flint with occasional brick, possible clinker and rare cast iron.				D2	0.35		
		0.60	36.29				
MADE GROUND. Soft to firm slightly sandy gravelly CLAY. Gravel is angular fine to coarse brick with rare flint.							
At 0.70m: Rare cast iron fragments.				D3	0.70		
		0.75	36.14				
MADE GROUND. Dark brown slightly sandy clayey GRAVEL with rare pockets of light brown clay. Gravel is angular to subangular fine to coarse flint with occasional brick.							
From 0.95m: Low cobble content. Cobbles are brick.							
		1.00	35.89				
Trial pit terminated at 1.00m.							

Weather: Sunny and dry

Pit Stability: Stable

Shoring Used:

Pit Dimensions: L: 0.40m x W: 0.40m

Water Strike

Date	Water Strike (m)	Time Elapsed (mins)	Standing Level (m)	Remarks
				No groundwater encountered

Remarks

1. Backfill: GL to 1.00m arisings.

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Logged by: T. Leather-Younghusband | Checked by: J. Keay | **Fm-Hn-R-3069-Rev E**

Trial Pit Record

DCP03

Sheet 1 of 1

Project ID: **GL24466**	Client: The Big Yellow Construction Company Ltd	E: 528790.40	N: 185115.97
Location: Big Yellow, Kentish Town	Consultant: Campbell Reith Hill LLP		
	Plant used: Hand Excavated	Date: 12/08/2021	

Geology Description	Legend	Depth	Elevation (maOD) 37.00	Sample / In-Situ Test Information			Installation & Backfill
				Type	Depth	Results / Remarks	
Grass over TOPSOIL. Soft dark brown slightly sandy slightly gravelly CLAY. Gravel is subangular fine to coarse flint with rare brick.				D1	0.15		
		0.20	36.80				
MADE GROUND. Dark brown sandy clayey GRAVEL. Gravel is subangular fine to coarse flint with occasional brick and possible clinker. *At 0.30m: Plastic membrane.* *At 0.35m: 20mm and 40mm rebar.*				D2	0.35		
From 0.50m: Low cobble content. Cobbles are brick.							
At 0.60m: Rope and metal cap.							
At 0.75m: Rare concrete cobble.				D3	0.80		
		1.00	36.00				
Trial pit terminated at 1.00m.							

Weather:	Sunny and dry
Pit Stability:	Stable
Shoring Used:	
Pit Dimensions:	L: 0.40m x W: 0.40m

Water Strike

Date	Water Strike (m)	Time Elapsed (mins)	Standing Level (m)	Remarks
				No groundwater encountered

Remarks

1. Backfill: GL to 1.00m arisings.

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Trial Pit Record

DCP05

Sheet 1 of 1

Project ID: **GL24466**	Client: The Big Yellow Construction Company Ltd	E: 528815.96	N: 185122.00
Location: Big Yellow, Kentish Town	Consultant: Campbell Reith Hill LLP		
	Plant used: Hand Excavated	Date: 12/08/2021	

Geology Description	Legend	Depth	Elevation (maOD) 36.57	Sample / In-Situ Test Information			Installation & Backfill
				Type	Depth	Results / Remarks	
MADE GROUND. CONCRETE. *From 0.10m to 0.15m: 20mm rebar.*							
MADE GROUND. Brown very sandy GRAVEL with low cobble content. Gravel is angular to subangular fine to coarse flint with occasional brick, concrete and possible clinker. Cobbles are brick. *At 0.35m: Plastic membrane.*		0.20	36.37	D1	0.30		
MADE GROUND. Black very sandy GRAVEL. Gravel is subangular fine to coarse flint with occasional brick and possible clinker.		0.40	36.17	D2	0.50		
MADE GROUND. Soft to firm brown slightly sandy gravelly CLAY. Gravel is angular fine to coarse brick with rare flint.		0.70	35.87	D3	0.80		
Trial pit terminated at 1.00m.		1.00	35.57				

Weather:	Sunny and dry
Pit Stability:	Stable
Shoring Used:	
Pit Dimensions:	L: 0.40m x W: 0.40m

Water Strike

Date	Water Strike (m)	Time Elapsed (mins)	Standing Level (m)	Remarks
12-08-2021	1.00			Seepage through base

Remarks

1. Backfill: GL to 1.00m arisings.

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Trial Pit Record

TP01

Sheet 1 of 1

Project ID:	**GL24466**	Client:	The Big Yellow Construction Company Ltd	E: 528825.14	N: 185137.88
Location:	Big Yellow, Kentish Town	Consultant:	Campbell Reith Hill LLP		
		Plant used:	JCB 3CX	Date:	18/08/2021

Geology Description	Legend	Depth	Elevation (maOD) 36.66	Sample / In-Situ Test Information			Installation & Backfill
				Type	Depth	Results / Remarks	
MADE GROUND. CONCRETE. *At 0.05m: 5mm rebar.* *At 0.40m: 5mm rebar.*							
		0.50	36.16				
MADE GROUND. Greyish brown gravelly fine to coarse SAND with high cobble and boulder content. Gravel is angular to subrounded fine to coarse brick, flint, metal and possible clinker. Cobbles and boulders are concrete and brick. *At 0.50m: Blue plastic membrane.* *From 0.80m: Pocket of dark greyish brown gravelly fine to coarse sand with high cobble content in west side of pit. Gravel is angular to subrounded fine to coarse concrete, brick, possible clinker, possible charcoal and possible slag. Cobbles are brick and concrete.*				B1 ES1 B2 ES2	0.60 - 0.80 0.60 0.90 - 1.20 1.00		
		1.20	35.46				
MADE GROUND. CONCRETE.		1.40	35.26				
MADE GROUND. Reddish brown very gravelly fine to coarse SAND with high cobble content, low boulder content and occasional clayey lenses. Gravel is angular to subrounded fine to coarse brick, concrete, flint and possible clinker. Cobbles are brick and old metal pipe.				B3 ES3	1.60 - 1.80 1.70		
		2.20	34.46				▼
Firm to stiff brown mottled light grey CLAY.				B4 ES4 HV01	2.40 - 2.60 2.50 2.50	90 kPa	
		2.90	33.76				
Trial pit terminated at 2.90m.							

Weather:	Sunny and dry
Pit Stability:	Stable
Shoring Used:	
Pit Dimensions:	L: 2.40m x W: 0.80m

Water Strike

Date	Water Strike (m)	Time Elapsed (mins)	Standing Level (m)	Remarks
18-08-2021	2.20			Perched water

Remarks

1. Historical foundations possibly encountered in northeast to east face of pit. Foundation slab at 1.20mbgl.
2. Backfill: GL to 2.90m arisings.

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Logged by: J. Blyth | Checked by: J. Keay | **Fm-Hn-R-3069-Rev E**

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Trial Pit Record

TP02

Sheet 1 of 1

Project ID:	**GL24466**	Client:	The Big Yellow Construction Company Ltd	E: 528803.30	N: 185149.10
Location:	Big Yellow, Kentish Town	Consultant:	Campbell Reith Hill LLP		
		Plant used:	JCB 3CX	Date:	18/08/2021

Geology Description	Legend	Depth	Elevation (maOD) 36.66	Sample / In-Situ Test Information			Installation & Backfill
				Type	Depth	Results / Remarks	
MADE GROUND. CONCRETE. *At 0.05m: 5mm rebar.*							
MADE GROUND. Greyish brown gravelly fine to coarse SAND with high cobble and boulder content. Gravel is angular to subrounded fine to coarse concrete, brick, flint, glass, metal, possible clinker and possible charcoal. Cobbles are brick, concrete and metal. *At 0.30m: Plastic membrane.*		0.30	36.36	ES1 B1	0.50 0.60 - 0.80		
				ES2	1.00		
Trial pit terminated at 1.20m: Concrete encountered		1.20	35.46				

Weather:	Sunny and dry
Pit Stability:	Stable
Shoring Used:	
Pit Dimensions:	L: 2.50m x W: 0.90m

Water Strike

Date	Water Strike (m)	Time Elapsed (mins)	Standing Level (m)	Remarks
				No groundwater encountered

Remarks

1. Pit terminated early due to concrete encountered. Old chamber with 0.40m x 0.40m entrance uncovered. Possible old drain cover and drainage pipe/tank.
2. Backfill: GL to 1.20m arisings.

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Logged by: J. Blyth | Checked by: J. Keay | **Fm-Hn-R-3069-Rev E**

harrisongroup	Photograph Record Sheet	
	Project:	Big Yellow, Kentish Town
Client: The Big Yellow Self Storage Company Ltd	Project ID:	GL24466
Exploratory Hole Reference.: TP01	Date:	18/08/2021

Remarks:	Engineer: J. Blyth	Checked: J. Keay

harrisongroup	Photograph Record Sheet
	Project: Big Yellow, Kentish Town
Client: The Big Yellow Self Storage Company Ltd	Project ID: GL24466
Exploratory Hole Reference.: TP02	Date: 18/08/2021

Remarks:	Engineer: J. Blyth	Checked: J. Keay

harrisongroup ENVIRONMENTAL

Trial Pit Record

SSS01

Sheet 1 of 1

Project ID: **GL24466**	Client: The Big Yellow Construction Company Ltd	E: 528763.95	N: 185124.83
Location: Big Yellow, Kentish Town	Consultant: Campbell Reith Hill LLP		
	Plant used: Hand Excavated	Date: 12/08/2021	

Geology Description	Legend	Depth	Elevation (maOD) 36.70	Sample / In-Situ Test Information			Installation & Backfill
				Type	Depth	Results / Remarks	
Grass over TOPSOIL. Soft dark brown slightly sandy slightly gravelly CLAY. Gravel is subangular fine to coarse flint.							
Trial pit terminated at 0.20m.		0.20	36.50	ES1	0.20		

Weather:	Sunny and dry
Pit Stability:	Stable
Shoring Used:	
Pit Dimensions:	L: 0.30m x W: 0.30m

Water Strike

Date	Water Strike (m)	Time Elapsed (mins)	Standing Level (m)	Remarks
				No groundwater encountered

Remarks

1. Backfill: GL to 0.20m arisings.

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Logged by: T. Leather-Younghusband | Checked by: J. Keay | **Fm-Hn-R-3069-Rev E**

Trial Pit Record

SSS02

Sheet 1 of 1

Project ID: **GL24466**	Client: The Big Yellow Construction Company Ltd	E: 528785.61	N: 185117.69
Location: Big Yellow, Kentish Town	Consultant: Campbell Reith Hill LLP		
	Plant used: Hand Excavated	Date: 12/08/2021	

Geology Description	Legend	Depth	Elevation (maOD) 37.03	Sample / In-Situ Test Information			Installation & Backfill
				Type	Depth	Results / Remarks	
Grass over TOPSOIL. Soft dark brown slightly sandy slightly gravelly CLAY. Gravel is subangular fine to coarse flint with rare brick.							
		0.20	36.83	ES1	0.20		
Trial pit terminated at 0.20m.							

Weather:	Sunny and dry
Pit Stability:	Stable
Shoring Used:	
Pit Dimensions:	L: 0.30m x W: 0.30m

Water Strike

Date	Water Strike (m)	Time Elapsed (mins)	Standing Level (m)	Remarks
				No groundwater encountered

Remarks

1. Backfill: GL to 0.20m arisings.

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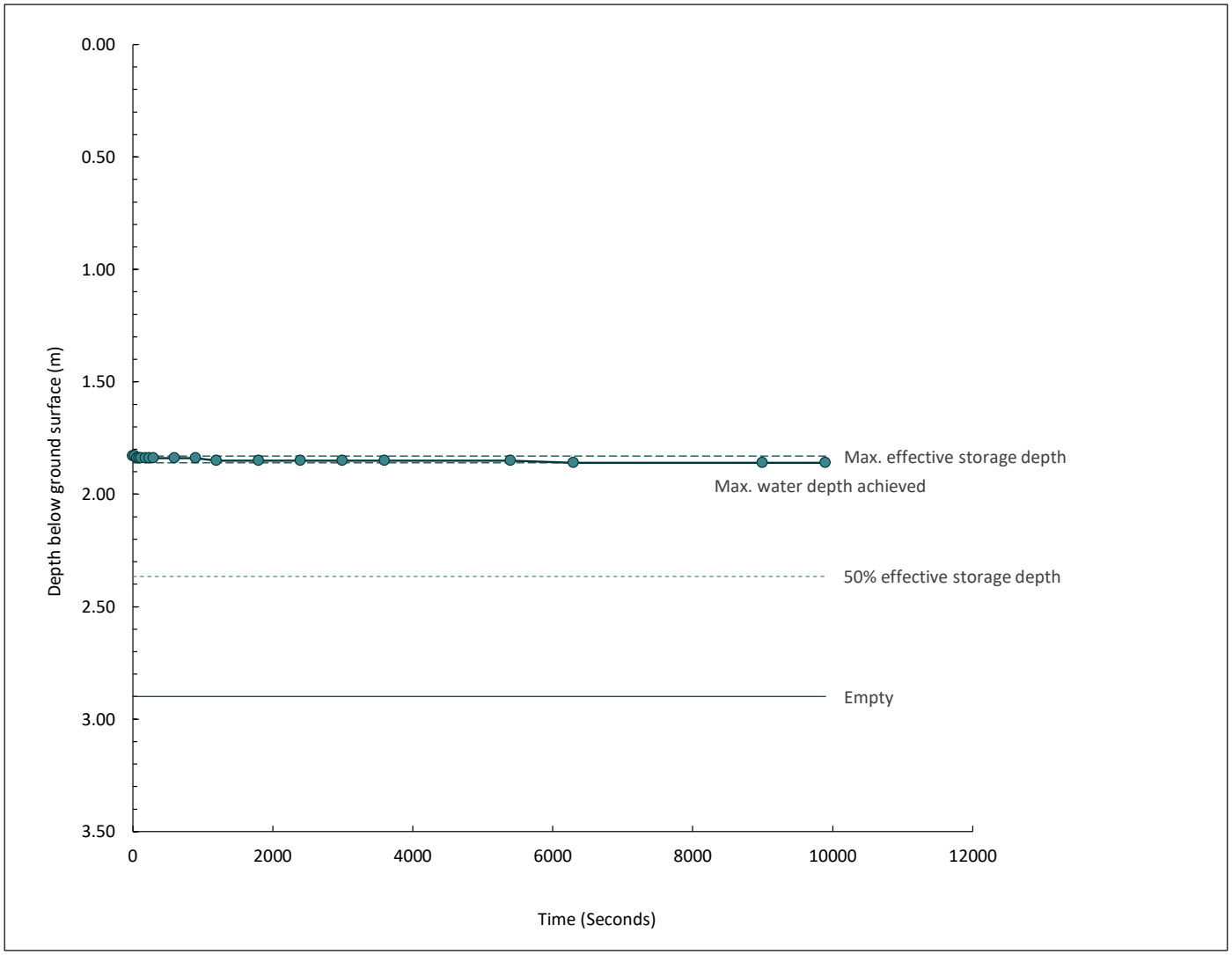
Logged by: T. Leather-Younghusband | Checked by: J. Keay | **Fm-Hn-R-3069-Rev E**

harrisongroup ENVIRONMENTAL	Soakaway Test	Location ID - Test Number
		TP01
Project ID: GL24466	Client: The Big Yellow Construction Company Ltd	E: 528825.14 N: 185137.88
Location: Big Yellow, Kentish Town	Consultant: Campbell Reith Hill LLP	Ground Level: 36.66 maOD
	Infilling 1	Test Date: 18/08/2021



Soil Infiltration Rate: N/A

Pit Dimensions			
Length (m)	Width (m)	Depth at Start of Test (m)	Depth at End of Test (m)
2.40	0.80	2.90	2.90

Fill Porosity: 100%	Test Duration (hh:mm): 02:45	Soakaway Construction: Vertical sides trimmed square

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Colchester Office: 01206 986675
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Water measuring device: Dip Meter
Weather conditions: Sunny and dry
Test in accordance with BRE DG 365 Revised 2016

Remarks:
1. Groundwater was not encountered during testing, but perched water encountered at 2.20m.

Operator: J. Blyth	Checked by: J. Keay	Approved by: J. Keay	Fm-Hn-R-3064-Rev C

APPENDIX C

GAS AND GROUNDWATER MONITORING

harrisongroup ENVIRONMENTAL

Gas and PID Monitoring Results

AGS

Project ID:	GL24466	Client:	The Big Yellow Construction Company Ltd	Equipment	Model / Serial Number	Manufacturer's Calibration Date
Date:	25/08/2021	Location:	Big Yellow, Kentish Town	Gas Analyser:	GA5000 / G501752	03/03/2020
Weather conditions:	Cloudy and dry			PID:	Tiger Handheld VOC Detector / T-113655	14/05/2020

Pump Running Time (Purge): Standard 30 secs. Pump Running Time (Sampling): Standard 180 secs. Flow Details: 5 sec average for 1 min.

PID Details: "<" indicates reading is under the detection limit. ">" indicates reading is over the upper limit. "*" level to be determined.

Field engineer(s): T. Leather-Younghusband

Remarks:

Location ID	Monitoring Pipe and Diameter	Date Monitored	Time	Air Temp (°C)	Atmospheric Pressure 48Hrs Prior to Sampling (mB)	Atmospheric Pressure 24Hrs Prior to Sampling (mB)	Atmospheric Pressure 3Hrs Prior to Sampling (mB)	Atmospheric Pressure When Sampled (mB)	Relative Pressure (mB)	Peak PID (ppm)	Stable PID (ppm)	Methane (%)	Peak Methane (%)	Methane LEL (%)	Carbon Dioxide (%)	Oxygen (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)	Flow (l/hr)	Remarks
BH01	PIPE1 (50mm)	25/08/2021	09:55:00	16.4	1027	1030	1027	1023	0.14	0.8	4.3	0.0	0.1	2.0	4.4	18.8	0.0	0.0	0.0	
			09:55:15							1.2		0.0			4.5	15.5	0.0	0.0	0.0	
			09:55:30							2.0		0.0			4.5	15.2	0.0	0.0	0.0	
			09:55:45							2.5		0.0			4.5	15.2	0.0	0.0	0.0	
			09:56:00							2.8		0.0			4.5	15.2	0.0	0.0	0.0	
			09:56:30							3.1		0.0			4.5	15.2	0.0	0.0	0.0	
			09:57:00							3.4		0.0			4.5	15.2	0.0	0.0	0.0	
			09:58:00							4.0		0.0			4.5	15.2	0.0	0.0	0.0	
			09:59:00							4.4		0.0			4.5	15.2	0.0	0.0	0.0	
			10:00:00							4.3		0.0			4.5	15.2	0.0	0.0	0.0	
	PIPE2 (19mm)	25/08/2021	10:02:00	16.4	1028	1030	1027	1023	-0.10	1.9	1.2	0.0	0.0	0.0	0.9	18.5	0.0	0.0	0.0	
			10:02:15							2.4		0.0			0.9	19.9	0.0	0.0	0.0	
			10:02:30							3.1		0.0			0.9	20.0	0.0	0.0	0.0	
			10:02:45							2.4		0.0			1.0	19.9	0.0	0.0	0.0	
			10:03:00							1.9		0.0			1.1	19.8	0.0	0.0	0.0	
			10:03:30							1.7		0.0			1.3	19.3	0.0	0.0	0.0	
			10:04:00							1.6		0.0			1.5	19.0	0.0	0.0	0.0	
			10:05:00							1.2		0.0			1.8	18.9	0.0	0.0	0.0	
BH02	PIPE1 (50mm)	25/08/2021	10:50:00	17.1	1028	1030	1027	1025	-0.02	1.2	1.6	0.1	0.1	2.0	2.2	16.0	0.0	0.0	0.0	
			10:50:15							1.9		0.1			2.2	11.5	0.0	0.0	0.0	
			10:50:30							2.3		0.1			2.2	11.3	0.0	0.0	0.0	
			10:50:45							2.3		0.1			2.2	11.3	0.0	0.0	0.0	
			10:51:00							2.2		0.1			2.2	11.3	0.0	0.0	0.0	
			10:51:30							2.0		0.1			2.2	11.3	0.0	0.0	0.0	
			10:52:00							1.9		0.1			2.2	11.2	0.0	0.0	0.0	
			10:53:00							1.6		0.1			2.2	11.1	0.0	0.0	0.0	
BH03	PIPE1 (50mm)	25/08/2021	09:20:00	16.1	1027	1030	1027	1023	0.26	0.8	0.9	0.2	0.2	4.0	4.2	18.4	0.0	0.0	0.0	
			09:20:15							0.9		0.2			4.3	13.2	0.0	0.0	0.0	
			09:20:30							0.8		0.2			4.3	12.4	0.0	0.0	0.0	
			09:20:45							0.9		0.2			4.3	12.3	0.0	0.0	0.0	
			09:21:00							0.9		0.2			4.3	12.2	0.0	0.0	0.0	
			09:21:30							1.0		0.2			4.4	12.1	0.0	0.0	0.0	
			09:22:00							1.0		0.2			4.6	12.0	0.0	0.0	0.0	
			09:23:00							0.9		0.2			4.7	11.8	0.0	0.0	0.0	
WS01	PIPE1 (50mm)	25/08/2021	11:03:00	17.4	1028	1030	1027	1025	0.09	0.6	0.7	0.0	0.0	0.0	2.2	17.7	0.0	0.0	0.0	
			11:03:15							1.3		0.0			2.3	19.2	0.0	0.0	0.0	
			11:03:30							1.1		0.0			2.3	19.3	0.0	0.0	0.0	
			11:03:45							1.0		0.0			2.3	19.3	0.0	0.0	0.0	Bung had been disturbed. Replaced for 1hr prior to monitoring.
			11:04:00							1.0		0.0			2.3	19.3	0.0	0.0	0.0	
			11:04:30							0.9		0.0			2.4	19.3	0.0	0.0	0.0	
			11:05:00							0.8		0.0			2.4	19.3	0.0	0.0	0.0	
			11:06:00							0.7		0.0			2.4	19.3	0.0	0.0	0.0	
WS02	PIPE1 (50mm)	25/08/2021	10:26:00	16.5	1028	1030	1027	1024	-0.09	1.4	2.1	0.4	0.4	8.0	3.5	17.9	0.0	0.0	0.0	
			10:26:15							2.4		0.4			3.5	14.9	0.0	0.0	0.0	
			10:26:30							2.5		0.4			3.5	14.8	0.0	0.0	0.0	
			10:26:45							2.6		0.4			3.5	14.7	0.0	0.0	0.0	
			10:27:00							2.6		0.4			3.5	14.7	0.0	0.0	0.0	
			10:27:30							2.5		0.4			3.6	14.7	0.0	0.0	0.0	
			10:28:00							2.4		0.4			3.6	14.7	0.0	0.0	0.0	
			10:29:00							2.1		0.4			3.6	14.7	0.0	0.0	0.0	

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Gas and PID Monitoring Results

AGS

Project ID:	GL24466	Client:	The Big Yellow Construction Company Ltd	Equipment	Model / Serial Number
Date:	25/08/2021	Location:	Big Yellow, Kentish Town	Gas Analyser:	GA5000 / G501752
Weather conditions:	Cloudy and dry			PID:	Tiger Handheld VOC Detector / T-113655

Manufacturer's Calibration Date: 03/03/2020; 14/05/2020

Pump Running Time (Purge): Standard 30 secs. Pump Running Time (Sampling): Standard 180 secs. Flow Details: 5 sec average for 1 min.

PID Details: "<" indicates reading is under the detection limit. ">" indicates reading is over the upper limit. "*" level to be determined.

Field engineer(s): T. Leather-Younghusband

Remarks:

Location ID	Monitoring Pipe and Diameter	Date Monitored	Time	Air Temp (°C)	Atmospheric Pressure 48Hrs Prior to Sampling (mB)	Atmospheric Pressure 24Hrs Prior to Sampling (mB)	Atmospheric Pressure 3Hrs Prior to Sampling (mB)	Atmospheric Pressure When Sampled (mB)	Relative Pressure (mB)	Peak PID (ppm)	Stable PID (ppm)	Methane (%)	Peak Methane (%)	Methane LEL (%)	Carbon Dioxide (%)	Oxygen (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)	Flow (l/hr)	Remarks
WS03	PIPE1 (50mm)	25/08/2021	09:37:00	16.3	1027	1030	1027	1023	0.07	0.8	0.5	0.1	0.1	2.0	0.3	16.9	0.0	0.0	0.0	
			09:37:15							0.8		0.0			0.2	20.3	0.0	0.0	0.0	
			09:37:30							0.7		0.0			0.2	20.6	0.0	0.0	0.0	
			09:37:45							0.6		0.0			0.2	20.8	0.0	0.0	0.0	
			09:38:00							0.6		0.0			0.2	20.9	0.0	0.0	0.0	
			09:38:30							0.6		0.0			0.2	20.9	0.0	0.0	0.0	
			09:39:00							0.5		0.0			0.2	21.1	0.0	0.0	0.0	
			09:40:00							0.5		0.0			0.1	21.2	0.0	0.0	0.0	

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Groundwater Monitoring Results

AGS

Project ID:	GL24466	Client:	The Big Yellow Construction Company Ltd	Weather conditions:	Cloudy and dry
Date:	25/08/2021	Location:	Big Yellow, Kentish Town	Ground conditions:	-

[1] = All (m) depth measurements are recorded as meters from the top of the installation cover.

[2] = I: Inertial, S: Submersible, B: Bailer, P: Peristaltic Pump.

[3] = Purge volume standardisation: 50mm standpipe = 6 x water column, 35mm = 3.5 x water column, 19mm = 1 x water column.

Field engineer(s): T. Leather-Younghusband

Remarks:

Location ID	Monitoring Pipe and Diameter	Date Monitored	Time	Surface Elevation (maOD)	LNAPL Depth[1] (mbgl)	LNAPL Depth (maOD)	Water Level[1] (mbgl)	Water Level (maOD)	DNAPL Depth[1] (mbgl)	DNAPL Depth (maOD)	Depth to base[1] (mbgl)	Depth to base (maOD)	Readings: Barometric Pressure (mB)	Air Temp (°C)	Downhole Temp (°C)	pH	Electrical Conductivity (µS/cm)	DO (%)	Redox Potential (mV)	Resistivity (Ohm-cm)	Salinity (psu)	Density (g/cm³)	TDS (ppt)	Water Pressure (psi)	Sampling Method[2] (I, S, B, P)	Water Column (m)	Purged Volume[3] (L)	Sample Ref	Comments: (e.g. problems encountered, standpipe conditions, unusual odours, colour, tubidity, sheens)
BH01	PIPE1 (50mm)	25/08/2021	09:55:00	36.55	N/E		Dry		N/E		3.95	32.60																	
BH02	PIPE1 (50mm)	25/08/2021	10:50:00	36.81	N/E		3.65	33.16	N/E		3.69	33.12														0.04			
BH03	PIPE1 (50mm)	25/08/2021	09:20:00	36.59	N/E		Dry		N/E		2.80	33.79																	
WS01	PIPE1 (50mm)	25/08/2021	11:03:00	36.60	N/E		2.82	33.78	N/E		3.68	32.92														0.86			
WS02	PIPE1 (50mm)	25/08/2021	10:26:00	36.82	N/E		2.23	34.59	N/E		2.34	34.48														0.11			
WS03	PIPE1 (50mm)	25/08/2021	09:37:00	36.61	N/E		Dry		N/E		1.35	35.26																	

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Gas and PID Monitoring Results

AGS

Project ID:	GL24466	Client:	The Big Yellow Construction Company Ltd	Equipment	Model / Serial Number
Date:	31/08/2021	Location:	Big Yellow, Kentish Town	Gas Analyser:	GA5000 / G501752
Weather conditions:	Cloudy and dry			PID:	Tiger Handheld VOC Detector / T-113655

Manufacturer's Calibration Date: 03/03/2020 (Gas Analyser); 14/05/2020 (PID)

Pump Running Time (Purge): Standard 30 secs. Pump Running Time (Sampling): Standard 180 secs. Flow Details: 5 sec average for 1 min.

PID Details: "<" indicates reading is under the detection limit. ">" indicates reading is over the upper limit. "*" level to be determined.

Field engineer(s): T. Leather-Younghusband

Remarks:

Location ID	Monitoring Pipe and Diameter	Date Monitored	Time	Air Temp (°C)	Atmospheric Pressure 48Hrs Prior to Sampling (mB)	Atmospheric Pressure 24Hrs Prior to Sampling (mB)	Atmospheric Pressure 3Hrs Prior to Sampling (mB)	Atmospheric Pressure When Sampled (mB)	Relative Pressure (mB)	Peak PID (ppm)	Stable PID (ppm)	Methane (%)	Peak Methane (%)	Methane LEL (%)	Carbon Dioxide (%)	Oxygen (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)	Flow (l/hr)	Remarks
BH01	PIPE1 (50mm)	31/08/2021	12:26:00	16.7	1025	1026	1030	1028	0.31	0.1	4.9	0.1	0.1	2.0	0.0	22.6	0.0	0.0	0.0	
			12:26:15							1.4		0.1			3.8	19.0	0.0	0.0	0.0	
			12:26:30							2.3		0.1			3.8	18.1	0.0	0.0	0.0	
			12:26:45							2.7		0.1			3.8	18.0	0.0	0.0	0.0	
			12:27:00							3.0		0.1			3.8	18.0	0.0	0.0	0.0	
			12:27:30							3.4		0.1			3.8	18.0	0.0	0.0	0.0	
			12:28:00							3.6		0.1			3.8	18.0	0.0	0.0	0.0	
			12:29:00							3.9		0.1			3.8	17.9	0.0	0.0	0.0	
			12:30:00							4.3		0.1			3.9	17.8	0.0	0.0	0.0	
			12:31:00							4.7		0.1			3.9	17.8	0.0	0.0	0.0	
			12:32:00							4.9		0.1			3.9	17.8	0.0	0.0	0.0	
			12:33:00							4.9		0.1			3.9	17.8	0.0	0.0	0.0	
	PIPE2 (19mm)	31/08/2021	12:46:00	16.9	1025	1027	1030	1028	1.66	1.5	1.2	0.1	0.1	2.0	0.9	22.4	0.0	0.0	0.1	
			12:46:15							1.4		0.1			2.4	19.4	0.0	0.0	0.1	
			12:46:30							1.2		0.1			2.4	18.0	0.0	0.0	0.1	
			12:46:45							1.1		0.1			2.4	17.9	0.0	0.0	0.1	
			12:47:00							1.0		0.1			2.5	17.8	0.0	0.0	0.1	
			12:47:30							0.9		0.1			2.5	17.5	0.0	0.0	0.1	
			12:48:00							0.8		0.1			2.8	16.6	0.0	0.0	0.1	
			12:49:00							1.2		0.1			3.3	16.1	0.0	0.0	0.1	
			12:50:00							1.2		0.1			3.3	16.0	0.0	0.0	0.1	
BH02	PIPE1 (50mm)	31/08/2021	14:38:00	17.5	1025	1027	1030	1028	-0.03	0.6	0.5	0.0	0.0	0.0	0.4	22.4	0.0	0.0	0.0	
			14:38:15							1.6		0.0			2.9	7.5	0.0	0.0	0.0	
			14:38:30							1.8		0.0			2.9	7.0	0.0	0.0	0.0	
			14:38:45							1.8		0.0			2.9	7.0	0.0	0.0	0.0	
			14:39:00							1.8		0.0			2.9	6.9	0.0	0.0	0.0	
			14:39:30							1.6		0.0			2.9	6.8	0.0	0.0	0.0	
			14:40:00							1.5		0.0			2.9	6.8	0.0	0.0	0.0	
			14:41:00							1.2		0.0			2.9	6.7	0.0	0.0	0.0	
			14:42:00							0.9		0.0			3.0	6.7	0.0	0.0	0.0	
			14:43:00							0.7		0.0			3.0	6.6	0.0	0.0	0.0	
			14:44:00							0.5		0.0			3.0	6.6	0.0	0.0	0.0	
			14:45:00							0.5		0.0			2.9	6.5	0.0	0.0	0.0	
BH03	PIPE1 (50mm)	31/08/2021	14:00:00	18.1	1025	1027	1030	1027	0.15	0.7	0.4	0.0	0.0	0.0	0.2	22.7	0.0	0.0	0.0	
			14:00:15							0.6		0.0			4.1	18.3	0.0	0.0	0.0	
			14:00:30							0.6		0.0			4.3	16.2	0.0	0.0	0.0	
			14:00:45							0.6		0.0			4.5	15.8	0.0	0.0	0.0	
			14:01:00							0.6		0.0			4.7	15.4	0.0	0.0	0.0	
			14:01:30							0.6		0.0			5.0	14.9	0.0	0.0	0.0	
			14:02:00							0.5		0.0			5.4	14.5	0.0	0.0	0.0	
			14:03:00							0.4		0.0			5.6	14.1	0.0	0.0	0.0	
WS01	PIPE1 (50mm)	31/08/2021	12:58:00	16.9	1025	1027	1030	1028	0.03	0.4	0.2	0.0	0.0	0.0	0.3	22.0	0.0	0.0	0.0	
			12:58:15							0.4		0.0			1.6	22.0	0.0	0.0	0.0	
			12:58:30							0.3		0.0			1.7	21.5	0.0	0.0	0.0	
			12:58:45							0.3		0.0			1.8	21.4	0.0	0.0	0.0	
			12:59:00							0.3		0.0			1.8	21.4	0.0	0.0	0.0	
			12:59:30							0.3		0.0			1.9	21.4	0.0	0.0	0.0	
			13:00:00							0.2		0.0			1.9	21.4	0.0	0.0	0.0	
			13:01:00							0.2		0.0			1.9	21.4	0.0	0.0	0.0	

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Gas and PID Monitoring Results

AGS

Project ID:	GL24466	Client:	The Big Yellow Construction Company Ltd	Equipment	Model / Serial Number
Date:	31/08/2021	Location:	Big Yellow, Kentish Town	Gas Analyser:	GA5000 / G501752
Weather conditions:	Cloudy and dry			PID:	Tiger Handheld VOC Detector / T-113655

Pump Running Time (Purge): Standard 30 secs. Pump Running Time (Sampling): Standard 180 secs. Flow Details: 5 sec average for 1 min.

PID Details: "<" indicates reading is under the detection limit. ">" indicates reading is over the upper limit. "*" level to be determined.

Field engineer(s): T. Leather-Younghusband

Remarks:

Location ID	Monitoring Pipe and Diameter	Date Monitored	Time	Air Temp (°C)	Atmospheric Pressure 48Hrs Prior to Sampling (mB)	Atmospheric Pressure 24Hrs Prior to Sampling (mB)	Atmospheric Pressure 3Hrs Prior to Sampling (mB)	Atmospheric Pressure When Sampled (mB)	Relative Pressure (mB)	Peak PID (ppm)	Stable PID (ppm)	Methane (%)	Peak Methane (%)	Methane LEL (%)	Carbon Dioxide (%)	Oxygen (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)	Flow (l/hr)	Remarks
WS02	PIPE1 (50mm)	31/08/2021	14:18:00	18.1	1025	1027	1030	1028	-0.15	1.2	0.7	0.0	0.1	2.0	0.6	22.4	0.0	0.0	0.0	
			14:18:15							1.6		0.1			3.7	17.3	0.0	0.0	0.0	
			14:18:30							1.8		0.1			3.7	15.2	0.0	0.0	0.0	
			14:18:45							1.9		0.1			3.7	15.1	0.0	0.0	0.0	
			14:19:00							1.8		0.1			3.7	15.1	0.0	0.0	0.0	
			14:19:30							1.8		0.1			3.7	15.0	0.0	0.0	0.0	
			14:20:00							1.6		0.1			3.7	15.0	0.0	0.0	0.0	
			14:21:00							1.3		0.1			3.7	15.0	0.0	0.0	0.0	
			14:22:00							0.7		0.1			3.4	15.3	0.0	0.0	0.0	
			14:23:00							0.7		0.1			3.2	15.5	0.0	0.0	0.0	
WS03	PIPE1 (50mm)	31/08/2021	12:10:00	16.9	1025	1027	1029	1028	0.07	0.2	0.0	0.1	0.1	2.0	0.0	22.6	0.0	0.0	0.0	
			12:10:15							0.2		0.1			0.1	22.7	0.0	0.0	0.0	
			12:10:30							0.1		0.1			0.1	22.5	0.0	0.0	0.0	
			12:10:45							0.0		0.1			0.1	22.5	0.0	0.0	0.0	
			12:11:00							0.0		0.1			0.1	22.4	0.0	0.0	0.0	
			12:11:30							0.0		0.1			0.1	22.4	0.0	0.0	0.0	
			12:12:00							0.0		0.1			0.1	22.3	0.0	0.0	0.0	
			12:13:00							0.0		0.1			0.2	22.3	0.0	0.0	0.0	

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Groundwater Monitoring Results

AGS

Project ID:	GL24466	Client:	The Big Yellow Construction Company Ltd	Weather conditions:	Cloudy and dry
Date:	31/08/2021	Location:	Big Yellow, Kentish Town	Ground conditions:	-

[1] = All (m) depth measurements are recorded as meters from the top of the installation cover.

[2] = I: Inertial, S: Submersible, B: Bailer, P: Peristaltic Pump.

[3] = Purge volume standardisation: 50mm standpipe = 6 x water column, 35mm = 3.5 x water column, 19mm = 1 x water column.

Field engineer(s): T. Leather-Younghusband

Remarks:

Location ID	Monitoring Pipe and Diameter	Date Monitored	Time	Surface Elevation (maOD)	LNAPL Depth[1] (mbgl)	LNAPL Depth (maOD)	Water Level[1] (mbgl)	Water Level (maOD)	DNAPL Depth[1] (mbgl)	DNAPL Depth (maOD)	Depth to base[1] (mbgl)	Depth to base (maOD)	Readings: SmarTROLL Multiparameter Handheld / PN0093230												Sampling Method[2] (I, S, B, P)	Water Column (m)	Purged Volume[3] (L)	Sample Ref	Comments: (e.g. problems encountered, standpipe conditions, unusual odours, colour, tubidity, sheens)
													Barometric Pressure (mB)	Air Temp (°C)	Downhole Temp (°C)	pH	Electrical Conductivity (µS/cm)	DO (%)	Redox Potential (mV)	Resistivity (Ohm-cm)	Salinity (psu)	Density (g/cm³)	TDS (ppt)	Water Pressure (psi)					
BH01	PIPE1 (50mm)	31/08/2021	12:26:00	36.55	N/E		Dry		N/E		3.97	32.58																	
	PIPE2 (19mm)	31/08/2021	12:50:00	36.55	N/E		6.42	30.13	N/E		9.25	27.30			16.0	7.6	33	98.0	162.3						P	2.83		EW1-SP2	Slightly cloudy.
BH02	PIPE1 (50mm)	31/08/2021	14:38:00	36.81	N/E		3.63	33.18	N/E		3.69	33.12														0.06			
BH03	PIPE1 (50mm)	31/08/2021	14:00:00	36.59	N/E		2.64	33.95	N/E		2.79	33.80														0.15			
WS01	PIPE1 (50mm)	31/08/2021	13:10:00	36.60	N/E		2.83	33.77	N/E		3.68	32.92			16.8	7.5	349	95.7	91.9						P	0.85		EW1-SP1	Slightly cloudy.
WS02	PIPE1 (50mm)	31/08/2021	14:18:00	36.82	N/E		2.17	34.65	N/E		2.33	34.49														0.16			
WS03	PIPE1 (50mm)	31/08/2021	12:10:00	36.61	N/E		Dry		N/E		1.34	35.27																	

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Gas and PID Monitoring Results

AGS

Project ID:	GL24466	Client:	The Big Yellow Construction Company Ltd	Equipment	Model / Serial Number
Date:	10/09/2021	Location:	Big Yellow, Kentish Town	Gas Analyser:	GA5000 / G501752
Weather conditions:	Cloudy and dry			PID:	Tiger Handheld VOC Detector / T-113655

Manufacturer's Calibration Date: 03/03/2020 (Gas Analyser); 14/05/2020 (PID)

Pump Running Time (Purge): Standard 30 secs. Pump Running Time (Sampling): Standard 180 secs. Flow Details: 5 sec average for 1 min.

PID Details: "<" indicates reading is under the detection limit. ">" indicates reading is over the upper limit. "*" level to be determined.

Field engineer(s): T. Leather-Younghusband

Remarks:

Location ID	Monitoring Pipe and Diameter	Date Monitored	Time	Air Temp (°C)	Atmospheric Pressure 48Hrs Prior to Sampling (mB)	Atmospheric Pressure 24Hrs Prior to Sampling (mB)	Atmospheric Pressure 3Hrs Prior to Sampling (mB)	Atmospheric Pressure When Sampled (mB)	Relative Pressure (mB)	Peak PID (ppm)	Stable PID (ppm)	Methane (%)	Peak Methane (%)	Methane LEL (%)	Carbon Dioxide (%)	Oxygen (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)	Flow (l/hr)	Remarks
BH01	PIPE1 (50mm)	10/09/2021	14:03:00	19.4	1011	1007	1010	1007	0.00	0.6	5.5	0.2	0.2	4.0	0.1	20.6	0.0	0.0	0.0	
			14:03:15							1.1		0.2			4.1	16.9	0.0	0.0	0.0	
			14:03:30							2.5		0.2			4.4	15.3	0.0	0.0	0.0	
			14:03:45							3.2		0.2			4.7	14.7	0.0	0.0	0.0	
			14:04:00							3.6		0.2			4.9	14.5	0.0	0.0	0.0	
			14:04:30							4.1		0.2			5.0	14.3	0.0	0.0	0.0	
			14:05:00							4.4		0.2			5.0	14.3	0.0	0.0	0.0	
			14:06:00							4.7		0.2			5.0	14.3	0.0	0.0	0.0	
			14:07:00							5.0		0.2			5.1	14.3	0.0	0.0	0.0	
			14:08:00							5.3		0.2			5.0	14.3	0.0	0.0	0.0	
			14:09:00							5.5		0.2			5.0	14.3	0.0	0.0	0.0	
			14:10:00							5.5		0.2			4.9	14.3	0.0	0.0	0.0	
	PIPE2 (19mm)	10/09/2021	14:15:00	19.4	1011	1007	1010	1008	5.58	2.9	1.3	0.2	0.2	4.0	0.4	20.2	0.0	0.0	3.8	
			14:15:15							2.7		0.2			1.7	18.5	0.0	1.0	1.8	
			14:15:30							2.2		0.2			1.7	17.4	0.0	1.0	1.3	
			14:15:45							1.9		0.2			1.7	17.3	0.0	1.0	0.6	
			14:16:00							1.8		0.2			1.7	17.3	0.0	1.0	0.2	
			14:16:30							1.6		0.2			1.7	17.2	0.0	1.0	0.1	
			14:17:00							1.4		0.2			1.7	17.2	0.0	1.0	0.0	
			14:18:00							1.3		0.2			2.5	10.3	0.0	1.0	0.0	
BH02	PIPE1 (50mm)	10/09/2021	14:29:00	19.4	1011	1007	1009	1008	0.02	1.9	1.1	0.2	0.2	4.0	0.1	21.1	0.0	1.0	0.0	
			14:29:15							2.2		0.2			3.3	7.9	0.0	2.0	0.0	
			14:29:30							2.3		0.2			3.3	3.5	0.0	3.0	0.0	
			14:29:45							2.3		0.2			3.3	3.4	0.0	3.0	0.0	
			14:30:00							2.1		0.2			3.3	3.4	0.0	3.0	0.0	
			14:30:30							1.9		0.2			3.3	3.3	0.0	3.0	0.0	
			14:31:00							1.6		0.2			3.3	3.3	0.0	3.0	0.0	
			14:32:00							1.1		0.2			3.3	3.3	0.0	3.0	0.0	
			15:35:00	19.4	1010	1006	1010	1008	0.03	0.6	0.5	0.2	0.2	4.0	0.2	21.0	0.0	1.0	0.0	
			15:35:15							1.3		0.2			0.1	6.3	2.0	0.0	0.0	
			15:35:30							1.2		0.2			0.1	1.6	3.0	0.0	0.0	
			15:35:45							1.1		0.2			0.0	1.5	3.0	0.0	0.0	
			15:36:00							1.0		0.2			0.0	1.4	3.0	0.0	0.0	
			15:36:30							0.8		0.2			0.0	1.1	3.0	0.0	0.0	
			15:37:00							0.6		0.2			0.0	0.9	3.0	0.0	0.0	
			15:38:00							0.5		0.2			0.1	0.5	3.0	0.0	0.0	
BH03	PIPE1 (50mm)	10/09/2021	13:46:00	19.4	1011	1008	1010	1007	0.00	0.9	0.3	0.5	4.3	86.0	0.1	20.8	0.0	0.0	0.0	
			13:46:15							0.8		3.8			6.6	10.8	0.0	0.0	0.0	
			13:46:30							0.6		3.8			6.7	6.9	0.0	1.0	0.0	
			13:46:45							0.6		3.8			6.8	6.6	0.0	1.0	0.0	
			13:47:00							0.5		3.9			6.9	6.4	0.0	1.0	0.0	
			13:47:30							0.5		4.1			7.1	6.3	0.0	1.0	0.0	
			13:48:00							0.5		4.3			7.3	6.1	0.0	1.0	0.0	
			13:49:00							0.3		4.2			7.3	6.0	0.0	1.0	0.0	
WS01	PIPE1 (50mm)	10/09/2021	14:59:00	19.4	1010	1007	1010	1008	0.02	0.8	0.2	0.2	0.2	4.0	0.2	20.7	0.0	1.0	0.0	
			14:59:15							0.7		0.2			0.6	20.9	0.0	1.0	0.0	
			14:59:30							0.6		0.2			0.6	20.5	0.0	1.0	0.0	
			14:59:45							0.5		0.2			0.7	20.4	0.0	1.0	0.0	
			15:00:00							0.4		0.2			0.8	20.3	0.0	0.0	0.0	
			15:00:30							0.4		0.2			0.9	20.2	0.0	0.0	0.0	
			15:01:00							0.3		0.2			1.0	20.2	0.0	0.0	0.0	
			15:02:00							0.2		0.2			1.2	20.2	0.0	0.0	0.0	

Pre-Nitrogen Purge

Post-Nitrogen Purge

Kimberley Street, Norwich, NR2 2RJ

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Gas and PID Monitoring Results

AGS

Project ID:	GL24466	Client:	The Big Yellow Construction Company Ltd	Equipment	Model / Serial Number
Date:	10/09/2021	Location:	Big Yellow, Kentish Town	Gas Analyser:	GA5000 / G501752
Weather conditions:	Cloudy and dry			PID:	Tiger Handheld VOC Detector / T-113655

Manufacturer's Calibration Date: 03/03/2020 (Gas Analyser); 14/05/2020 (PID)

Pump Running Time (Purge): Standard 30 secs. Pump Running Time (Sampling): Standard 180 secs. Flow Details: 5 sec average for 1 min.

PID Details: "<" indicates reading is under the detection limit. ">" indicates reading is over the upper limit. "*" level to be determined.

Field engineer(s): T. Leather-Younghusband

Remarks:

Location ID	Monitoring Pipe and Diameter	Date Monitored	Time	Air Temp (°C)	Atmospheric Pressure 48Hrs Prior to Sampling (mB)	Atmospheric Pressure 24Hrs Prior to Sampling (mB)	Atmospheric Pressure 3Hrs Prior to Sampling (mB)	Atmospheric Pressure When Sampled (mB)	Relative Pressure (mB)	Peak PID (ppm)	Stable PID (ppm)	Methane (%)	Peak Methane (%)	Methane LEL (%)	Carbon Dioxide (%)	Oxygen (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)	Flow (l/hr)	Remarks
WS02	PIPE1 (50mm)	10/09/2021	14:43:00	19.4	1011	1007	1009	1008	-0.09	2.3	2.0	0.2	0.3	6.0	0.3	20.2	0.0	1.0	0.0	
			14:43:15							2.4		0.3			3.9	15.0	0.0	1.0	0.0	
			14:43:30							2.4		0.3			3.9	13.2	0.0	1.0	0.0	
			14:43:45							2.7		0.3			4.0	13.1	0.0	1.0	0.0	
			14:44:00							2.8		0.3			4.0	13.1	0.0	1.0	0.0	
			14:44:30							2.7		0.3			4.0	13.1	0.0	1.0	0.0	
			14:45:00							2.5		0.3			4.0	13.1	0.0	1.0	0.0	
			14:46:00							2.0		0.3			4.0	13.2	0.0	1.0	0.0	
WS03	PIPE1 (50mm)	10/09/2021	13:55:00	19.4	1011	1007	1010	1008	-0.12	0.4	0.0	0.4	0.4	8.0	0.5	19.8	0.0	0.0	0.0	
			13:55:15							0.4		0.3			0.5	19.4	0.0	0.0	0.0	
			13:55:30							0.3		0.2			0.6	19.0	0.0	0.0	0.0	
			13:55:45							0.2		0.2			0.6	19.2	0.0	0.0	0.0	
			13:56:00							0.1		0.2			0.5	19.4	0.0	0.0	0.0	
			13:56:30							0.0		0.2			0.3	19.9	0.0	0.0	0.0	
			13:57:00							0.0		0.2			0.3	19.9	0.0	0.0	0.0	
			13:58:00							0.0		0.2			0.3	19.9	0.0	0.0	0.0	

Kimberley Street, Norwich, NR2 2RJ

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Groundwater Monitoring Results

AGS

Project ID:	GL24466	Client:	The Big Yellow Construction Company Ltd	Weather conditions:	Cloudy and dry
Date:	10/09/2021	Location:	Big Yellow, Kentish Town	Ground conditions:	-

[1] = All (m) depth measurements are recorded as meters from the top of the installation cover.

[2] = I: Inertial, S: Submersible, B: Bailer, P: Peristaltic Pump.

[3] = Purge volume standardisation: 50mm standpipe = 6 x water column, 35mm = 3.5 x water column, 19mm = 1 x water column.

Field engineer(s): T. Leather-Younghusband

Remarks:

Location ID	Monitoring Pipe and Diameter	Date Monitored	Time	Surface Elevation (maOD)	LNAPL Depth[1] (mbgl)	LNAPL Depth (maOD)	Water Level[1] (mbgl)	Water Level (maOD)	DNAPL Depth[1] (mbgl)	DNAPL Depth (maOD)	Depth to base[1] (mbgl)	Depth to base (maOD)	Readings: Barometric Pressure (mB)	Air Temp (°C)	Downhole Temp (°C)	pH	Electrical Conductivity (µS/cm)	DO (%)	Redox Potential (mV)	Resistivity (Ohm-cm)	Salinity (psu)	Density (g/cm³)	TDS (ppt)	Water Pressure (psi)	Sampling Method[2] (I, S, B, P)	Water Column (m)	Purged Volume[3] (L)	Sample Ref	Comments: (e.g. problems encountered, standpipe conditions, unusual odours, colour, tubidity, sheens)
BH01	PIPE1 (50mm)	10/09/2021	14:12:00	36.55	N/E		Dry		N/E		4.93	31.62																	
	PIPE2 (19mm)	10/09/2021	14:25:00	36.55	N/E		4.26	32.29	N/E		9.19	27.36														4.93			
BH02	PIPE1 (50mm)	10/09/2021	14:36:00	36.81	N/E		3.64	33.17	N/E		3.67	33.14														0.03			
BH03	PIPE1 (50mm)	10/09/2021	13:53:00	36.59	N/E		2.54	34.05	N/E		2.80	33.79														0.26			
WS01	PIPE1 (50mm)	10/09/2021	15:10:00	36.60	N/E		2.93	33.67	N/E		3.70	32.90														0.77			
WS02	PIPE1 (50mm)	10/09/2021	14:52:00	36.82	N/E		Dry		N/E		2.34	34.48																	
WS03	PIPE1 (50mm)	10/09/2021	13:59:00	36.61	N/E		Dry		N/E		1.35	35.26																	

Kimberley Street, Norwich, NR2 2RJ

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Gas and PID Monitoring Results

AGS

Project ID:	GL24466	Client:	The Big Yellow Construction Company Ltd	Equipment	Model / Serial Number	Manufacturer's Calibration Date
Date:	22/09/2021	Location:	Big Yellow, Kentish Town	Gas Analyser:	GA5000 / G501752	03/03/2020
Weather conditions:	Sunny and dry			PID:	Tiger Handheld VOC Detector / T-113655	14/05/2020
Pump Running Time (Purge): Standard 30 secs. Pump Running Time (Sampling): Standard 180 secs. Flow Details: 5 sec average for 1 min.				PID Details: "<" indicates reading is under the detection limit. ">" indicates reading is over the upper limit. "*" level to be determined.		
Field engineer(s):	J. Blyth	Remarks:				

Location ID	Monitoring Pipe and Diameter	Date Monitored	Time	Air Temp (°C)	Atmospheric Pressure 48Hrs Prior to Sampling (mB)	Atmospheric Pressure 24Hrs Prior to Sampling (mB)	Atmospheric Pressure 3Hrs Prior to Sampling (mB)	Atmospheric Pressure When Sampled (mB)	Relative Pressure (mB)	Peak PID (ppm)	Stable PID (ppm)	Methane (%)	Peak Methane (%)	Methane LEL (%)	Carbon Dioxide (%)	Oxygen (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)	Flow (l/hr)	Remarks
BH01	PIPE1 (50mm)	22/09/2021	15:35:00	21.4	1023	1030	1027	1025	0.07	0.3	4.7	0.0	0.0	0.0	0.2	23.4	1.0	0.0	0.0	
			15:35:15							1.8		0.0			4.9	16.5	1.0	0.0	0.0	
			15:35:30							2.6		0.0			4.9	16.3	0.0	0.0	0.1	
			15:35:45							3.0		0.0			4.9	16.3	0.0	0.0	0.1	
			15:36:00							3.3		0.0			4.9	16.3	0.0	0.0	0.1	
			15:36:30							3.7		0.0			5.0	16.2	0.0	0.0	0.1	
			15:37:00							3.8		0.0			5.0	16.2	0.0	0.0	0.1	
			15:38:00							4.1		0.0			5.0	16.0	0.0	0.0	0.1	
			15:39:00							4.4		0.0			5.1	15.8	0.0	0.0		
			15:40:00							4.6		0.0			5.1	15.7	0.0	0.0		
			15:41:00							4.7		0.0			5.0	15.7	0.0	0.0		
			15:42:00							4.7		0.0			5.0	15.7	0.0	0.0		
BH02	PIPE1 (50mm)	22/09/2021	15:00:00	21.3	1023	1030	1028	1026	-0.03	0.3	0.9	0.0	0.0	0.0	0.1	23.5	1.0	0.0	0.0	
			15:00:15							1.4		0.0			3.8	11.1	1.0	0.0	0.0	
			15:00:30							1.5		0.0			3.9	10.8	1.0	0.0	0.0	
			15:00:45							1.5		0.0			3.9	10.7	1.0	0.0	0.0	
			15:01:00							1.5		0.0			3.9	10.7	1.0	0.0	0.0	
			15:01:30							1.4		0.0			3.9	10.7	0.0	0.0	0.0	
			15:02:00							1.2		0.0			3.9	10.7	0.0	0.0	0.0	
			15:03:00							0.9		0.0			3.9	10.7	0.0	0.0	0.0	
BH03	PIPE1 (50mm)	22/09/2021	14:40:00	21.1	1023	1030	1028	1026	0.32	0.2	0.1	0.0	0.0	0.0	5.1	13.7	0.0	0.0	0.0	
			14:40:15							0.2		0.0			5.5	12.4	0.0	0.0	0.0	
			14:40:30							0.2		0.0			5.6	12.2	0.0	0.0	0.0	
			14:40:45							0.2		0.0			5.6	12.1	0.0	0.0	0.0	Pre-Nitrogen Purge. Gas sample taken with tedlar bag.
			14:41:00							0.2		0.0			5.6	12.1	0.0	0.0	0.0	
			14:41:30							0.2		0.0			5.7	12.1	0.0	0.0	0.0	
			14:42:00							0.2		0.0			5.7	12.0	0.0	0.0	0.0	
			14:43:00							0.1		0.0			5.7	12.0	0.0	0.0	0.0	
			16:20:00	20.9	1024	1030	1027	1025	0.82	0.7	0.3	0.0	0.0	0.0	0.1	24.0	0.0	0.0	0.0	
			16:20:15							1.2		0.0			0.9	3.0	0.0	0.0	0.0	
			16:20:30							1.0		0.0			1.0	2.5	1.0	0.0	0.0	
			16:20:45							0.8		0.0			1.2	2.5	1.0	0.0	0.0	
			16:21:00							0.7		0.0			1.3	2.6	1.0	0.0	0.0	
			16:21:30							0.6		0.0			2.0	3.6	1.0	0.0	0.0	
			16:22:00							0.5		0.0			2.6	4.2	1.0	0.0	0.0	
			16:23:00							0.4		0.0			3.1	4.8	1.0	0.0	0.0	Post-Nitrogen Purge. Gas sample taken with tedlar bag.
			16:24:00							0.4		0.0			3.3	5.2	1.0	0.0		
			16:25:00							0.4		0.0			3.4	5.5	1.0	0.0		
			16:26:00							0.3		0.0			3.5	5.8	0.0	0.0		
			16:27:00							0.3		0.0			3.6	6.1	0.0	0.0		
			16:28:00							0.3		0.0			3.6	6.5	0.0	0.0		
WS01	PIPE1 (50mm)	22/09/2021	16:45:00	20.7	1024	1029	1027	1025	0.00	0.4	0.1	0.0	0.0	0.0	0.2	23.4	0.0	0.0	0.0	
			16:45:15							0.4		0.0			0.5	23.0	0.0	0.0	0.0	
			16:45:30							0.3		0.0			0.6	22.9	0.0	0.0	0.0	
			16:45:45							0.3		0.0			0.6	22.9	0.0	0.0	0.0	
			16:46:00							0.3		0.0			0.7	22.8	0.0	0.0	0.0	
			16:46:30							0.2		0.0			0.8	22.6	0.0	0.0	0.0	
			16:47:00							0.2		0.0			0.9	22.5	0.0	0.0	0.0	
			16:48:00							0.1		0.0			1.0	22.4	0.0	0.0	0.0	
			16:49:00							0.1		0.0			1.1	22.3	0.0	0.0		
			16:50:00							0.1		0.0			1.1	22.3	0.0	0.0		

Kimberley Street, Norwich, NR2 2RJ

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Gas and PID Monitoring Results

AGS

Project ID:	GL24466	Client:	The Big Yellow Construction Company Ltd	Equipment	Model / Serial Number	Manufacturer's Calibration Date
Date:	22/09/2021	Location:	Big Yellow, Kentish Town	Gas Analyser:	GA5000 / G501752	03/03/2020
Weather conditions:	Sunny and dry			PID:	Tiger Handheld VOC Detector / T-113655	14/05/2020
Pump Running Time (Purge): Standard 30 secs. Pump Running Time (Sampling): Standard 180 secs. Flow Details: 5 sec average for 1 min.				PID Details: "<" indicates reading is under the detection limit. ">" indicates reading is over the upper limit. "*" level to be determined.		
Field engineer(s):	J. Blyth	Remarks:				

Location ID	Monitoring Pipe and Diameter	Date Monitored	Time	Air Temp (°C)	Atmospheric Pressure 48Hrs Prior to Sampling (mB)	Atmospheric Pressure 24Hrs Prior to Sampling (mB)	Atmospheric Pressure 3Hrs Prior to Sampling (mB)	Atmospheric Pressure When Sampled (mB)	Relative Pressure (mB)	Peak PID (ppm)	Stable PID (ppm)	Methane (%)	Peak Methane (%)	Methane LEL (%)	Carbon Dioxide (%)	Oxygen (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)	Flow (l/hr)	Remarks
WS02	PIPE1 (50mm)	22/09/2021	14:00:00	21.4	1023	1030	1028	1027	0.00	0.1	0.2	0.0	0.0	0.0	0.1	23.3	0.0	0.0	0.0	
			14:00:15							1.0		0.0			4.1	17.8	1.0	0.0	0.0	
			14:00:30							1.0		0.0			4.2	15.7	0.0	0.0	0.0	
			14:00:45							1.0		0.0			4.2	15.6	0.0	0.0	0.0	
			14:01:00							1.0		0.0			4.2	15.6	0.0	0.0	0.0	
			14:01:30							0.9		0.0			4.2	15.5	0.0	0.0	0.0	
			14:02:00							0.8		0.0			4.2	15.5	0.0	0.0	0.0	
			14:03:00							0.6		0.0			4.1	15.5	0.0	0.0	0.0	
			14:04:00							0.4		0.0			3.8	15.8	0.0	0.0		
			14:05:00							0.3		0.0			3.5	16.1	0.0	0.0		
			14:06:00							0.3		0.0			3.4	16.1	0.0	0.0		
			14:07:00							0.2		0.0			3.1	16.3	0.0	0.0		
			14:08:00							0.2		0.0			3.0	16.4	0.0	0.0		
			14:09:00							0.2		0.0			2.8	16.6	0.0	0.0		
			14:10:00							0.2		0.0			2.7	16.7	0.0	0.0		
			14:11:00							0.2		0.0			2.6	16.8	0.0	0.0		
			14:12:00							0.2		0.0			2.5	17.0	0.0	0.0		
			14:13:00							0.2		0.0			2.5	17.1	0.0	0.0		
WS03	PIPE1 (50mm)	22/09/2021	16:00:00	21.1	1023	1030	1027	1025	-0.02	0.6	0.4	0.0	0.0	0.0	0.1	23.9	0.0	0.0	0.0	
			16:00:15							1.2		0.0			2.8	18.0	0.0	0.0	0.1	
			16:00:30							0.9		0.0			2.7	17.9	0.0	0.0	0.1	
			16:00:45							0.7		0.0			2.6	18.0	0.0	0.0	0.1	
			16:01:00							0.6		0.0			2.5	18.1	0.0	0.0	0.1	
			16:01:30							0.5		0.0			2.3	18.3	0.0	0.0	0.1	
			16:02:00							0.4		0.0			2.3	18.3	0.0	0.0	0.1	
			16:03:00							0.4		0.0			2.3	18.5	0.0	0.0	0.1	

Kimberley Street, Norwich, NR2 2RJ

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Groundwater Monitoring Results

AGS

Project ID:	GL24466	Client:	The Big Yellow Construction Company Ltd	Weather conditions:	Sunny and dry
Date:	22/09/2021	Location:	Big Yellow, Kentish Town	Ground conditions:	-

[1] = All (m) depth measurements are recorded as meters from the top of the installation cover.

[2] = I: Inertial, S: Submersible, B: Bailer, P: Peristaltic Pump.

[3] = Purge volume standardisation: 50mm standpipe = 6 x water column, 35mm = 3.5 x water column, 19mm = 1 x water column.

Field engineer(s): J. Blyth

Remarks:

Location ID	Monitoring Pipe and Diameter	Date Monitored	Time	Surface Elevation (maOD)	LNAPL Depth[1] (mbgl)	LNAPL Depth (maOD)	Water Level[1] (mbgl)	Water Level (maOD)	DNAPL Depth[1] (mbgl)	DNAPL Depth (maOD)	Depth to base[1] (mbgl)	Depth to base (maOD)	Readings: Barometric Pressure (mB)	Air Temp (°C)	Downhole Temp (°C)	pH	Electrical Conductivity (µS/cm)	DO (%)	Redox Potential (mV)	Resistivity (Ohm-cm)	Salinity (psu)	Density (g/cm³)	TDS (ppt)	Water Pressure (psi)	Sampling Method[2] (I, S, B, P)	Water Column (m)	Purged Volume[3] (L)	Sample Ref	Comments: (e.g. problems encountered, standpipe conditions, unusual odours, colour, tubidity, sheens)
BH01	PIPE1 (50mm)	22/09/2021	15:35:00	36.55	N/E		2.37	34.18	N/E		3.94	32.61														1.57			
	PIPE2 (19mm)	22/09/2021	15:35:00	36.55	N/E		2.44	34.11	N/E		9.18	27.37														6.74			
BH02	PIPE1 (50mm)	22/09/2021	15:00:00	36.81	N/E		2.57	34.24	N/E		3.67	33.14														1.10			
BH03	PIPE1 (50mm)	22/09/2021	14:40:00	36.59	N/E		2.35	34.24	N/E		2.82	33.77														0.47			
WS01	PIPE1 (50mm)	22/09/2021	16:45:00	36.60	N/E		2.86	33.74	N/E		3.68	32.92														0.82			
WS02	PIPE1 (50mm)	22/09/2021	14:00:00	36.82	N/E		2.03	34.79	N/E		2.33	34.49														0.30			
WS03	PIPE1 (50mm)	22/09/2021	16:00:00	36.61	N/E		Dry		N/E		1.34	35.27																	

Kimberley Street, Norwich, NR2 2RJ

APPENDIX D

GEOTECHNICAL LABORATORY TESTING

harrisontesting
SERVICES

Harrison Testing Services
Unit 1, Alston Road
Hellesdon Park Industrial Estate
Norwich NR6 5DS

Tel: +44 (0) 1603 416333
www.harrisongroupuk.com
Email: laboratory@harrisongroupuk.com

Harrison Group Environmental
12, Waterways Business Centre
Navigation Drive
Enfield
EN3 6JJ

For the attention of: Martin Cooper

Project:	**BY Kentish Town**	Samples received:	25/08/2021
Report No:	**GL24466-01**	Instruction received:	25/08/2021
Your Ref:	**GL24466**	Testing commenced:	07/09/2021

Please find results attached as summarised below.

Item	Description	Quantity	UKAS Accredited
1	Moisture Content	27	Yes
2	Liquid & Plastic Limits	5	Yes
4	Particle Size Distribution - Wet Sieve Method	6	Yes
5	Particle Size Distribution - Pipette Sedimentation Method	3	Yes
6	Unconsolidated Undrained Shear Strength - Single Stage	17	Yes

Only those results indicated in this report are UKAS accredited and any opinion or interpretations expressed are outside the scope of UKAS accreditation.

Unless we are notified to the contrary, samples will be disposed after a period of one month from this date.

This report should not be reproduced except in full without the written approval of the laboratory.

Issued by:

M. Willson
Laboratory Manager

Date Issued:

19 October 2021

UKAS TESTING
4031

harrisontesting SERVICES

DETERMINATION OF MOISTURE CONTENT

BS 1377 : Part 2 : 1990 : Clause 3.2

Project Name:	**BY Kentish Town**	Project Number:
Client Name:	**The Big Yellow Construction Company Ltd**	**GL24466**

Location	Depth m	Sample Ref	Sample Description	Moisture Content %	Remarks
BH02	0.30	D1	MADE GROUND (Brown clayey slightly sandy GRAVEL. Gravel is of flint and brick fragments).	7.7	
BH02	0.60	D2	MADE GROUND (Grey and grey brown slightly gravelly CLAY. Gravel is of flint and brick fragments).	30	
BH02	0.80	D3	MADE GROUND (Dark grey slightly gravelly CLAY. Gravel is of flint and brick fragments).	30	
BH02	3.40	D4	Brown mottled grey CLAY with selenite crystals.	22	
BH02	3.95-4.05	D5	Brown mottled grey CLAY with selenite crystals.	29	
BH02	4.50-4.95	D6	Brown mottled grey CLAY with selenite crystals.	25	
BH02	6.45-6.55	D7	Brown mottled grey CLAY with selenite crystals.	28	
BH03	1.50-1.95	D3	MADE GROUND (Dark grey brown and grey brown slightly gravelly CLAY. Gravel is of flint and brick fragments).	21	
BH03	2.00	D4	Grey and dark grey mottled orange brown slightly gravelly CLAY with roots. Gravel is of flint.	22	
BH03	2.50	D5	Brown and grey brown slightly gravelly CLAY. Gravel is of flint.	29	

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DETERMINATION OF MOISTURE CONTENT

BS 1377 : Part 2 : 1990 : Clause 3.2

Project Name:	**BY Kentish Town**	Project Number:
Client Name:	**The Big Yellow Construction Company Ltd**	**GL24466**

Location	Depth m	Sample Ref	Sample Description	Moisture Content %	Remarks
BH03	3.00	D6	Brown mottled grey and orange brown slightly gravelly CLAY. Gravel is of siltstone.	26	
BH03	3.50	D7	Brown mottled grey and orange brown slightly gravelly CLAY. Gravel is of siltstone.	26	
BH03	3.50-3.95	D8	Brown mottled grey and orange brown CLAY.	31	
BH03	4.50	D9	Brown mottled grey and orange brown CLAY.	32	
TP01	2.40-2.60	B4	Brown CLAY.	30	
WS01	0.20	D1	MADE GROUND (Brown slightly gravelly CLAY. Gravel is of flint and brick fragments).	25	
WS01	0.40	D2	MADE GROUND (Brown and dark brown slightly gravelly CLAY. Gravel is of flint and brick fragments).	25	
WS01	0.70	D3	MADE GROUND (Dark grey brown gravelly CLAY. Gravel is of flint and brick fragments).	20	
WS01	1.00	D4	MADE GROUND (Dark grey sandy clayey GRAVEL. Gravel is of flint, quartzite and brick fragments).	17	
WS01	1.50	D5	MADE GROUND (Grey brown and brown gravelly CLAY. Gravel is of brick fragments).	24	

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DETERMINATION OF MOISTURE CONTENT

BS 1377 : Part 2 : 1990 : Clause 3.2

Project Name:	**BY Kentish Town**	Project Number:
Client Name:	**The Big Yellow Construction Company Ltd**	**GL24466**

Location	Depth m	Sample Ref	Sample Description	Moisture Content %	Remarks
WS01	2.00	D6	MADE GROUND (Brown mottled grey slightly gravelly CLAY. Gravel is of coal and brick fragments).	29	
WS01	2.50	D7	MADE GROUND (Brown mottled grey slightly gravelly CLAY. Gravel is of flint).	29	
WS01	3.00	D8	MADE GROUND (Dark grey gravelly slightly sandy CLAY. Gravel is of flint and brick fragments).	25	
WS01	3.60	D9	Grey and brown CLAY.	34	
WS01	4.50	D10	Brown mottled grey CLAY.	41	
WS02	1.00	D4	MADE GROUND (Grey brown mottled grey slightly gravelly slightly sandy CLAY. Gravel is of brick fragments).	33	
WS02	2.80	D8	Brown mottled occasional grey slightly gravelly CLAY. Gravel is of flint	34	

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DETERMINATION OF LIQUID LIMIT, PLASTIC LIMIT & PLASTICITY INDEX

BS1377 : Part 2 : 1990

Project Name:	**BY Kentish Town**	Project Number:
Client Name:	**The Big Yellow Construction Company Ltd**	**GL24466**

Location	Depth m	Sample Ref	Moisture Content %	Liquid Limit %	Plastic Limit %	Plasticity Index	Percentage passing 425µm %	Classification	Sample Description
BH02	0.80	D3	30	63	21	42	87	CH	MADE GROUND (Dark grey slightly gravelly CLAY. Gravel is of flint and brick fragments)
TP01	2.40-2.60	B4	30	73	23	50	96	CV	Brown CLAY.
WS01	0.40	D2	25	65	20	45	73	CH	MADE GROUND (Brown and dark brown slightly gravelly CLAY. Gravel is of flint and brick fragments)
WS02	1.00	D4	33	59	20	39	78	CH	MADE GROUND (Grey brown mottled grey slightly gravelly slightly sandy CLAY. Gravel is of brick fragments)
WS02	2.80	D8	34	75	23	52	96	CV	Brown mottled occasional grey slightly gravelly CLAY. Gravel is of flint

Notes:

1) This summary sheet is provided for convenience and in no way replaces individual test result sheets which shall, without exception, be regarded as the definitive result. Please refer to the individual test result sheets for the respective methods used.
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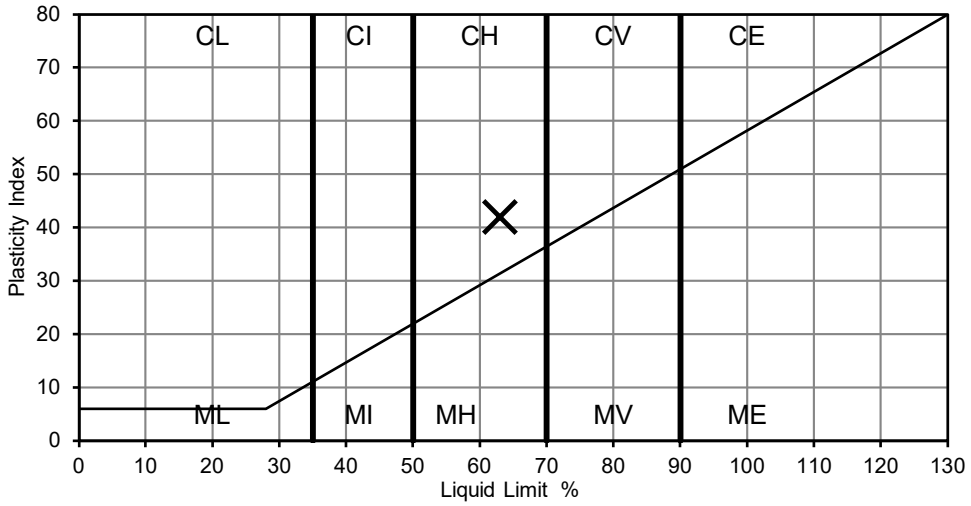
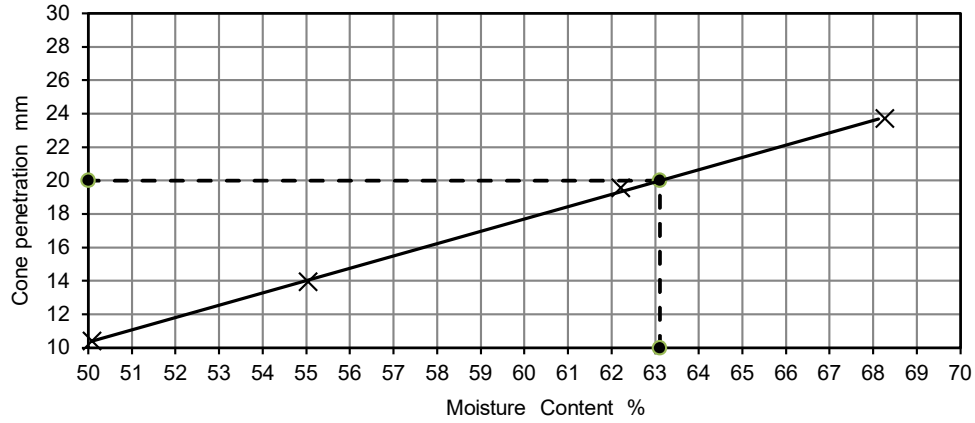
LIQUID LIMIT, PLASTIC LIMIT, PLASTICITY INDEX, & LIQUIDITY INDEX

BS 1377 : Part 2 : 1990, clause 4.3 and 5

Project Name:	**BY Kentish Town**	Project Number:	**GL24466**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	BH02
Sample Description:	MADE GROUND (Dark grey slightly gravelly CLAY. Gravel is of flint and brick fragments)	Sample Depth (m)	0.80
		Sample Reference	D3





Preparation: Material was washed and oven dried at below 50°C

Results:		
	As Received Moisture Content: (BS1377 : Part 2 : Clause 3 : 1990)	30 %
	Percentage Passing 425µm sieve:	87 %
	Liquid Limit:	63 %
	Plastic Limit:	21 %
	Plasticity Index:	42
	Liquidity Index:	0.21
	Modified Plasticity Index: (NHBC Standards Chapter 4.2)	37

Notes:

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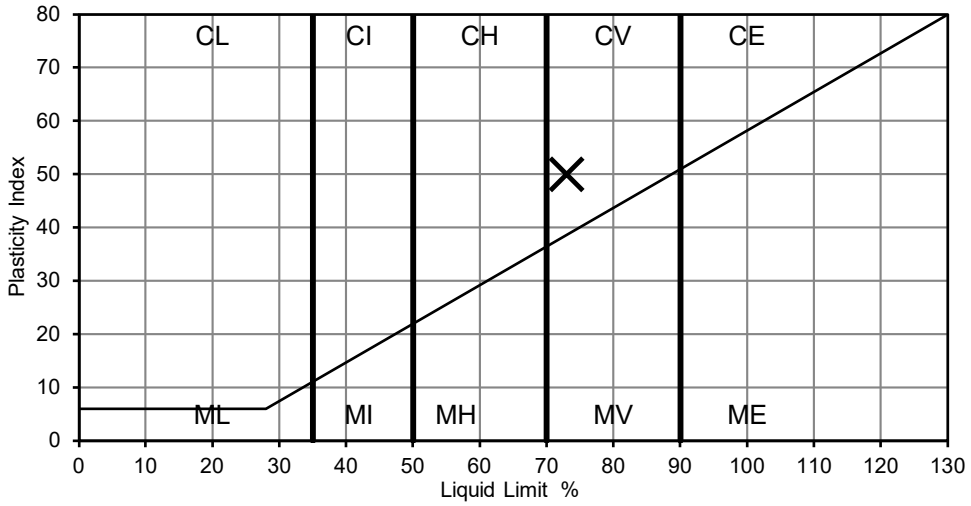
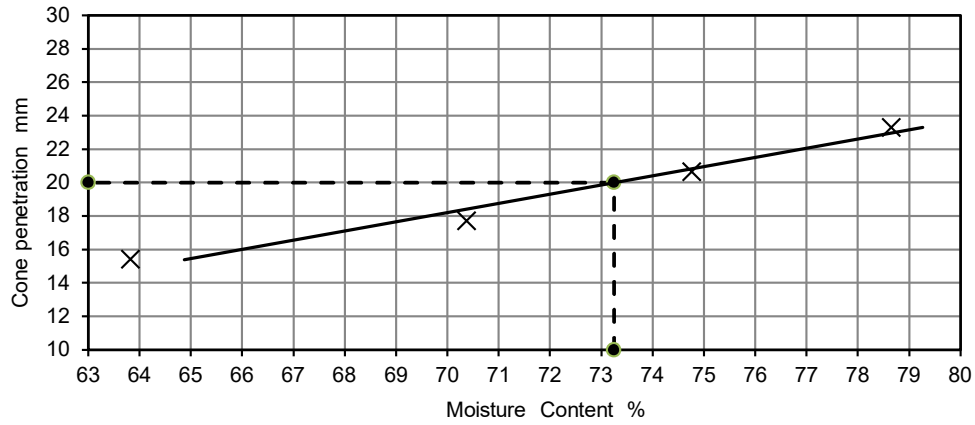
LIQUID LIMIT, PLASTIC LIMIT, PLASTICITY INDEX, & LIQUIDITY INDEX

BS 1377 : Part 2 : 1990, clause 4.3 and 5

Project Name:	**BY Kentish Town**	Project Number:	**GL24466**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	TP01
Sample Description:	Brown CLAY.	Sample Depth (m)	2.40
		Sample Reference	B4





Preparation: Material was washed and oven dried at below 50°C

Results:		
	As Received Moisture Content: (BS1377 : Part 2 : Clause 3 : 1990)	30 %
	Percentage Passing 425µm sieve:	96 %
	Liquid Limit:	73 %
	Plastic Limit:	23 %
	Plasticity Index:	50
	Liquidity Index:	0.14
	Modified Plasticity Index: (NHBC Standards Chapter 4.2)	48

Notes:

1) Modified Plasticity Index: (NHBC Standards Chapter 4.2) not covered by UKAS accreditation.
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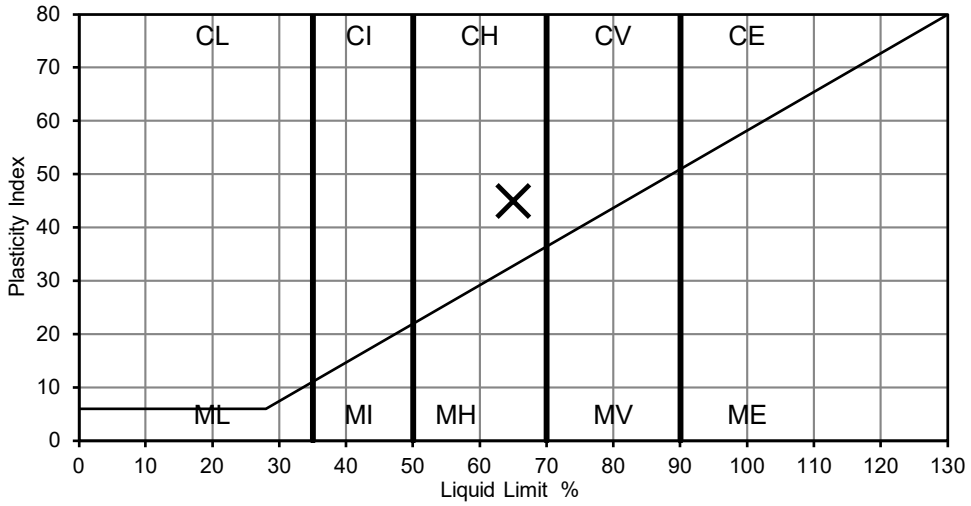
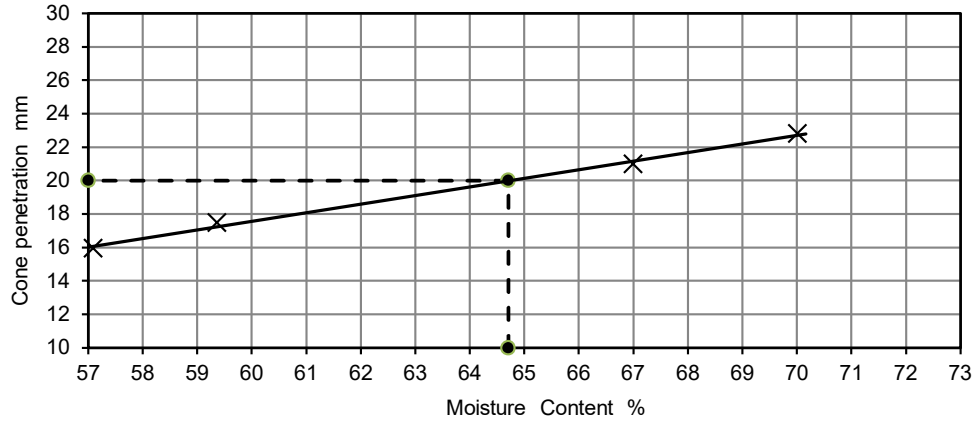
LIQUID LIMIT, PLASTIC LIMIT, PLASTICITY INDEX, & LIQUIDITY INDEX

BS 1377 : Part 2 : 1990, clause 4.3 and 5

Project Name:	**BY Kentish Town**	Project Number:	**GL24466**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	WS01
Sample Description:	MADE GROUND (Brown and dark brown slightly gravelly CLAY. Gravel is of flint and brick fragments)	Sample Depth (m)	0.40
		Sample Reference	D2





Preparation: Material was washed and oven dried at below 50°C

Results:		
	As Received Moisture Content: (BS1377 : Part 2 : Clause 3 : 1990)	25 %
	Percentage Passing 425µm sieve:	73 %
	Liquid Limit:	65 %
	Plastic Limit:	20 %
	Plasticity Index:	45
	Liquidity Index:	0.11
	Modified Plasticity Index: (NHBC Standards Chapter 4.2)	33

Notes:

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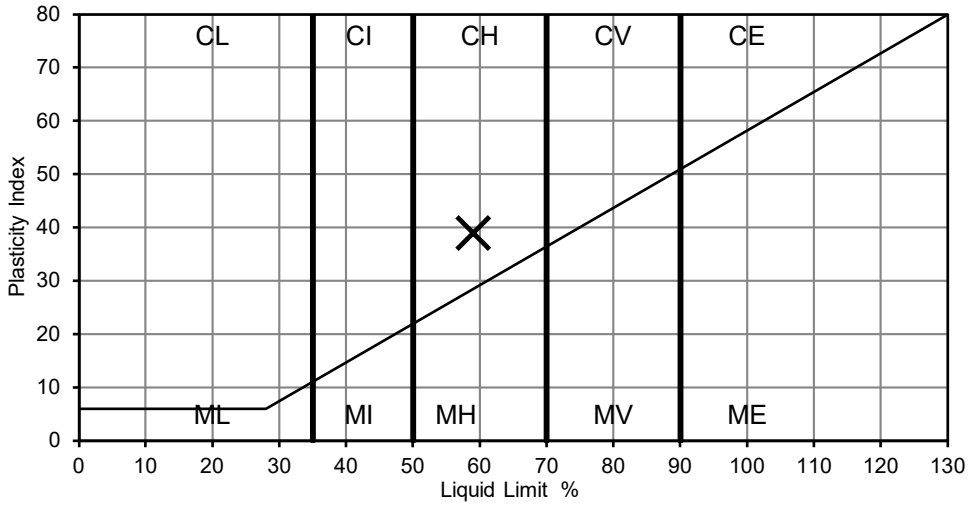
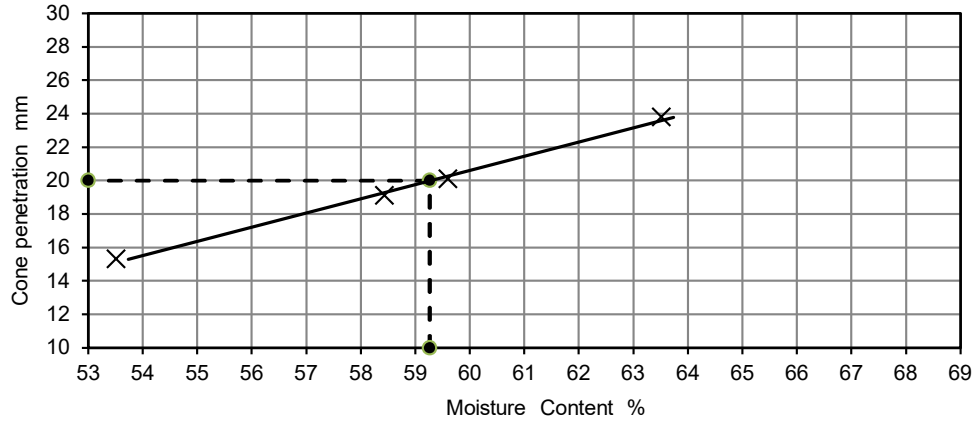
LIQUID LIMIT, PLASTIC LIMIT, PLASTICITY INDEX, & LIQUIDITY INDEX

BS 1377 : Part 2 : 1990, clause 4.3 and 5

Project Name:	**BY Kentish Town**	Project Number:	**GL24466**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	WS02
Sample Description:	MADE GROUND (Grey brown mottled grey slightly gravelly slightly sandy CLAY. Gravel is of brick fragments)	Sample Depth (m)	1.00
		Sample Reference	D4





Preparation: Material was washed and oven dried at below 50°C

Results:		
	As Received Moisture Content: (BS1377 : Part 2 : Clause 3 : 1990)	33 %
	Percentage Passing 425µm sieve:	78 %
	Liquid Limit:	59 %
	Plastic Limit:	20 %
	Plasticity Index:	39
	Liquidity Index:	0.33
	Modified Plasticity Index: (NHBC Standards Chapter 4.2)	30

Notes:

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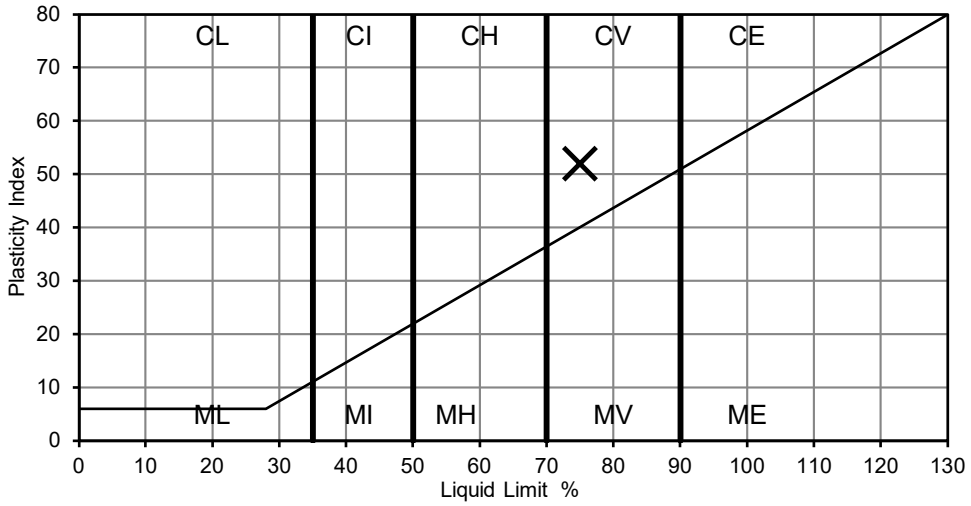
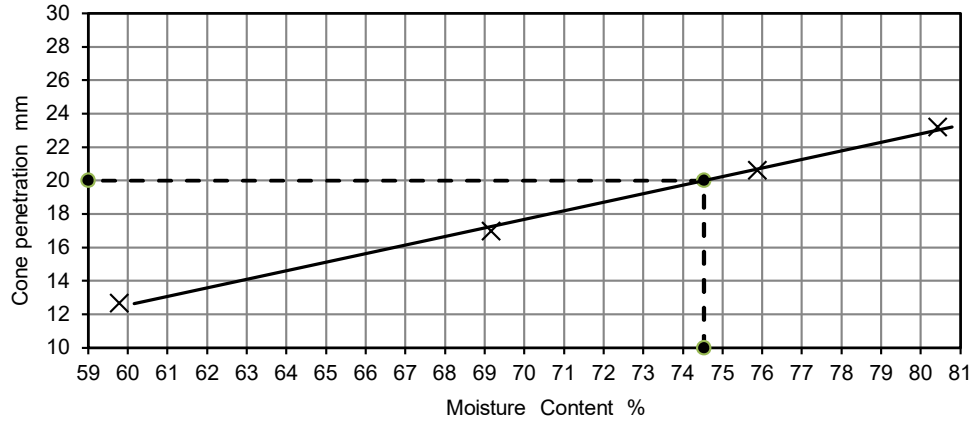
LIQUID LIMIT, PLASTIC LIMIT, PLASTICITY INDEX, & LIQUIDITY INDEX

BS 1377 : Part 2 : 1990, clause 4.3 and 5

Project Name:	**BY Kentish Town**	Project Number:	**GL24466**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	WS02
Sample Description:	Brown mottled occasional grey slightly gravelly CLAY. Gravel is of flint	Sample Depth (m)	2.80
		Sample Reference	D8





Preparation: Material was washed and oven dried at below 50°C

Results:		
	As Received Moisture Content: (BS1377 : Part 2 : Clause 3 : 1990)	34 %
	Percentage Passing 425µm sieve:	96 %
	Liquid Limit:	75 %
	Plastic Limit:	23 %
	Plasticity Index:	52
	Liquidity Index:	0.21
	Modified Plasticity Index: (NHBC Standards Chapter 4.2)	50

Notes:

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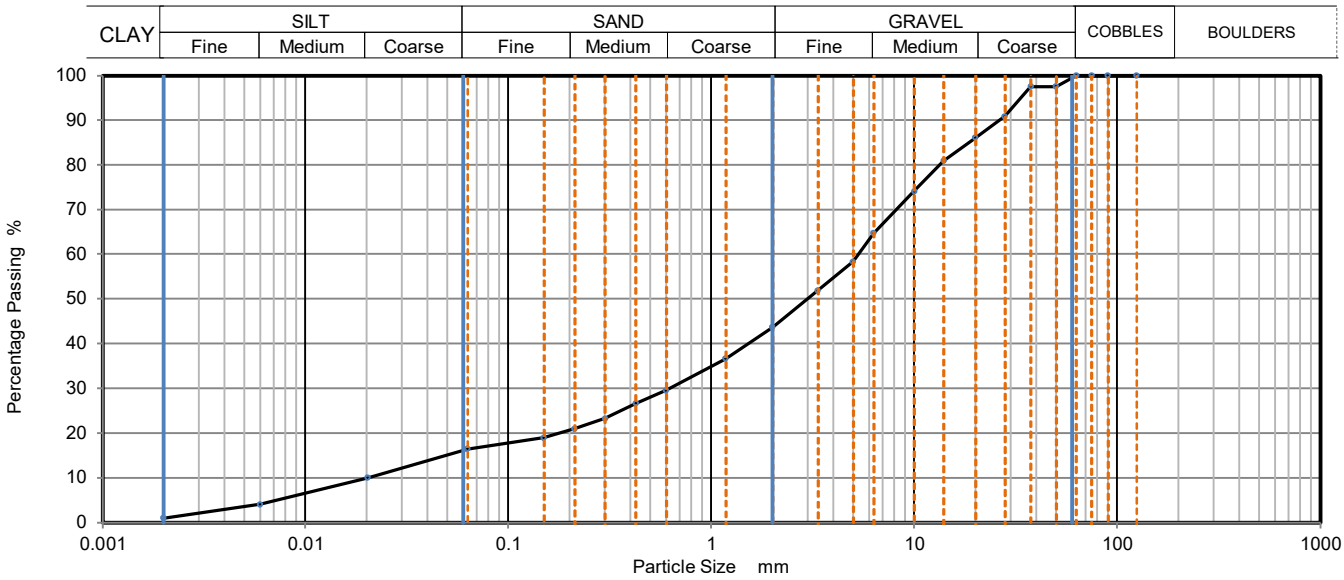
DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS1377:Part 2:1990, clauses 9.2 and 9.4

Project Name:	**BY Kentish Town**	Project Number:	**GL24466-01**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	BH01
Sample Description:	MADE GROUND (Dark grey and black slightly clayey silty very sandy GRAVEL. Gravel is of flint, brick, concrete and plastic fragments)	Sample Depth (m)	0.60
		Sample Reference	B1



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	10
90	100	0.0060	4
75	100	0.0020	1
63	100		
50	98		
37.5	98		
28	91		
20	86		
14	81		
10	74		
6.3	65		
5	58		
3.35	52		
2	44		
1.18	37		
0.6	30	Particle density	(assumed)
0.425	27	2.65	Mg/m3
0.3	23		
0.212	21		
0.15	19		
0.063	16		

Sample Proportions	% dry mass
Very coarse	0
Gravel	56
Sand	27
Silt	16
Clay	1

Grading Analysis		
D100	mm	
D60	mm	5.310
D30	mm	0.631
D10	mm	0.019
Uniformity Coefficient		280
Curvature Coefficient		4

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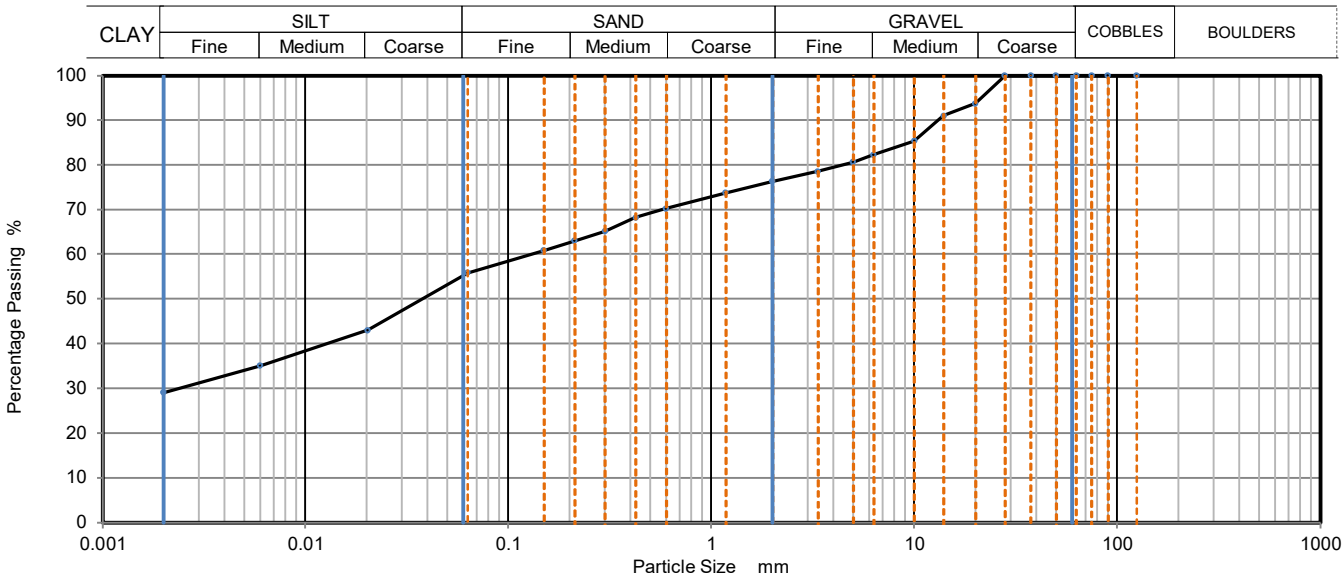
DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS1377:Part 2:1990, clauses 9.2 and 9.4

Project Name:	**BY Kentish Town**	Project Number:	**GL24466-01**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	BH01
Sample Description:	MADE GROUND (Dark grey brown and brown slightly gravelly slightly sandy silty CLAY. Gravel is of flint and brick fragments)	Sample Depth (m)	3.50
		Sample Reference	B4



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	43
90	100	0.0060	35
75	100	0.0020	29
63	100		
50	100		
37.5	100		
28	100		
20	94		
14	91		
10	85		
6.3	82		
5	81		
3.35	79		
2	76		
1.18	74		
0.6	70	Particle density	(assumed)
0.425	68	2.65	Mg/m3
0.3	65		
0.212	63		
0.15	61		
0.063	56		

Sample Proportions	% dry mass
Very coarse	0
Gravel	24
Sand	21
Silt	27
Clay	29

Grading Analysis		
D100	mm	
D60	mm	0.131
D30	mm	0.002
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

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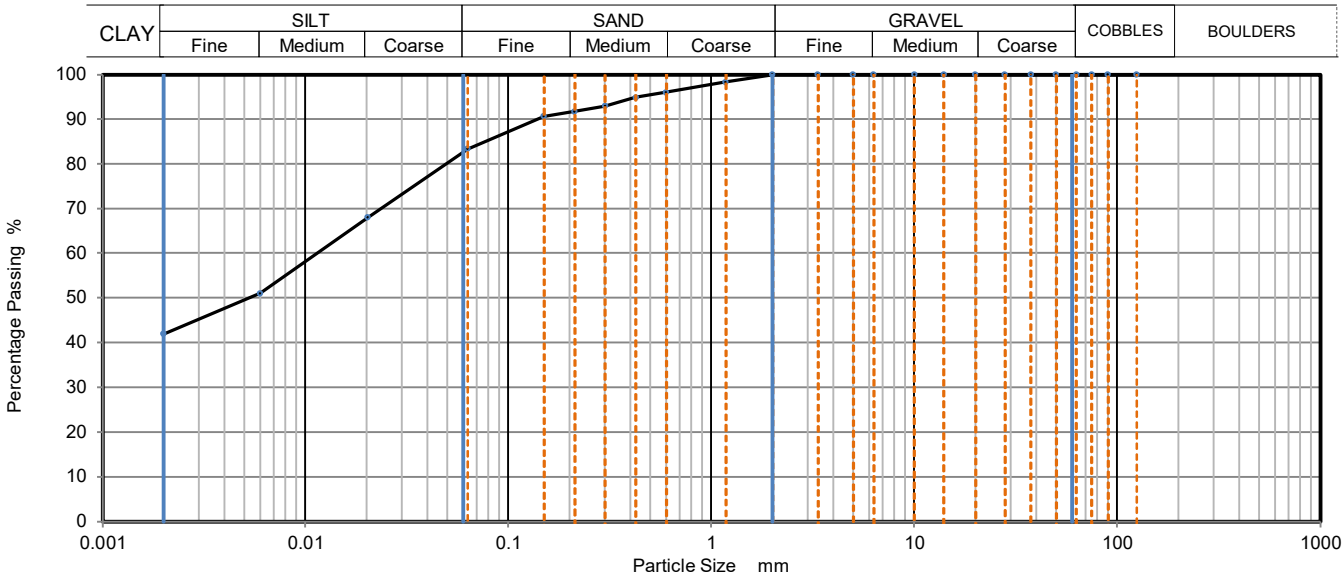
DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS1377:Part 2:1990, clauses 9.2 and 9.4

Project Name:	**BY Kentish Town**	Project Number:	**GL24466-01**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	BH02
Sample Description:	Grey and grey brown slightly sandy silty CLAY	Sample Depth (m)	1.50
		Sample Reference	B2



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	68
90	100	0.0060	51
75	100	0.0020	42
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	98		
0.6	96	Particle density	(assumed)
0.425	95	2.65	Mg/m3
0.3	93		
0.212	92		
0.15	91		
0.063	83		

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	17
Silt	41
Clay	42

Grading Analysis		
D100	mm	
D60	mm	0.011
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

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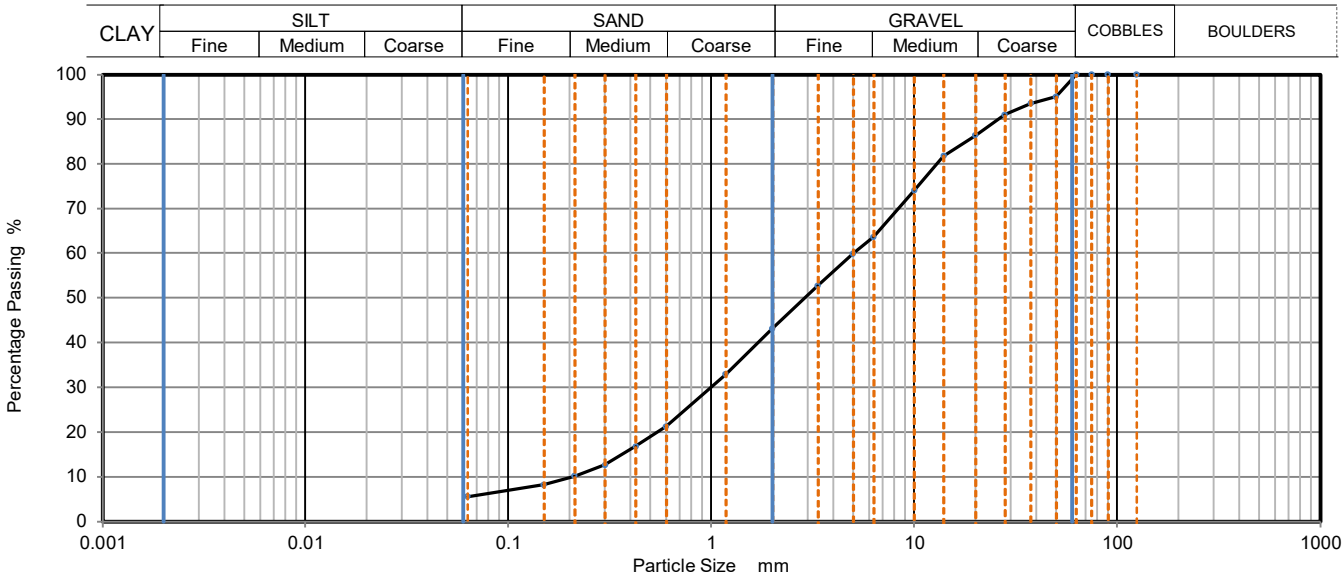
DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS1377:Part 2:1990, clause 9.2

Project Name:	**BY Kentish Town**	Project Number:	**GL24466-01**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	BH03
Sample Description:	MADE GROUND (Black silty very sandy GRAVEL. Gravel is of brick and concrete fragments)	Sample Depth (m)	0.60
		Sample Reference	B1



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	95		
37.5	94		
28	91		
20	86		
14	82		
10	74		
6.3	64		
5	60		
3.35	53		
2	43		
1.18	33		
0.6	21		
0.425	17		
0.3	13		
0.212	10		
0.15	8		
0.063	6		

Sample Proportions	% dry mass
Very coarse	0
Gravel	57
Sand	38
Fines <0.063mm	6

Grading Analysis		
D100	mm	
D60	mm	5.020
D30	mm	0.997
D10	mm	0.208
Uniformity Coefficient		24
Curvature Coefficient		0.95

Notes:

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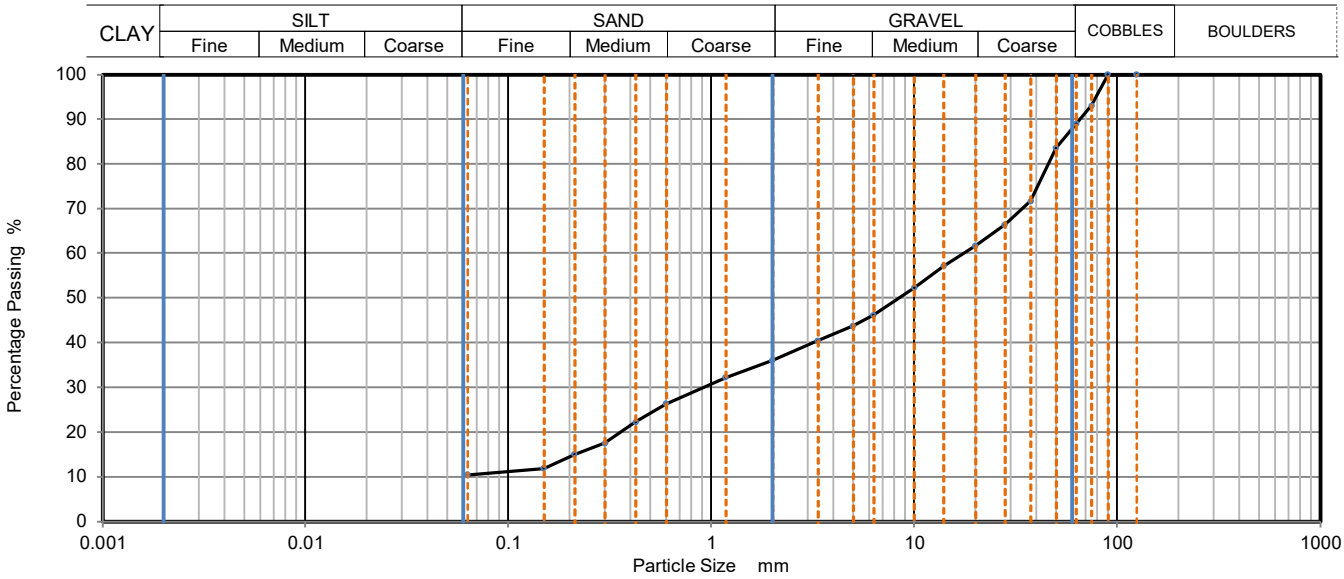
Remarks	Approved	Date	Sheet No.:
	MW M. Willson Laboratory Manager	22/09/2021	1 of 1

harrisontesting SERVICES

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS1377:Part 2:1990, clause 9.2

Project Name:	**BY Kentish Town**	Project Number:	**GL24466-01**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	TP02
Sample Description:	MADE GROUND (Dark grey brown silty very sandy GRAVEL with medium cobble content. Cobbles are of concrete. Gravel is of flint, brick, concrete, glass, metal and asphalt fragments)	Sample Depth (m)	0.60
		Sample Reference	B1



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	93		
63	89		
50	84		
37.5	72		
28	66		
20	62		
14	57		
10	52		
6.3	46		
5	44		
3.35	40		
2	36		
1.18	32		
0.6	26		
0.425	22		
0.3	18		
0.212	15		
0.15	12		
0.063	10		

Sample Proportions	% dry mass
Very coarse	11
Gravel	53
Sand	26
Fines <0.063mm	10

Grading Analysis		
D100	mm	
D60	mm	17.600
D30	mm	0.915
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

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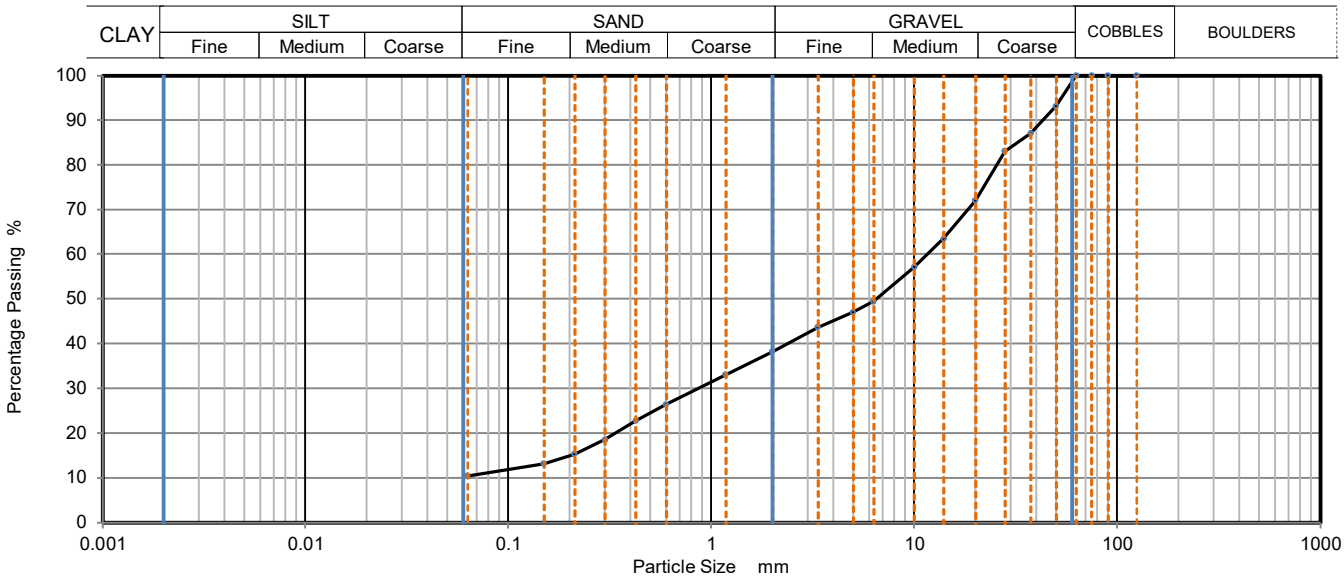
Remarks	Approved	Date	Sheet No.:
Insufficient sample to test in full accordance with BS 1377	MW M. Willson Laboratory Manager	22/09/2021	1 of 1

harrisontesting SERVICES

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS1377:Part 2:1990, clause 9.2

Project Name:	**BY Kentish Town**	Project Number:	**GL24466-01**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	WS03
Sample Description:	MADE GROUND (Grey slightly clayey silty very sandy GRAVEL. Gravel is of flint, brick, concrete and asphalt fragments)	Sample Depth (m)	0.20
		Sample Reference	B1



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	93		
37.5	87		
28	83		
20	72		
14	64		
10	57		
6.3	49		
5	47		
3.35	44		
2	38		
1.18	33		
0.6	26		
0.425	23		
0.3	19		
0.212	15		
0.15	13		
0.063	11		

Sample Proportions	% dry mass
Very coarse	0
Gravel	62
Sand	28
Fines <0.063mm	11

Grading Analysis		
D100	mm	
D60	mm	11.600
D30	mm	0.867
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

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Remarks	Approved	Date	Sheet No.:
Insufficient sample to test in full accordance with BS 1377	MW M. Willson Laboratory Manager	22/09/2021	1 of 1

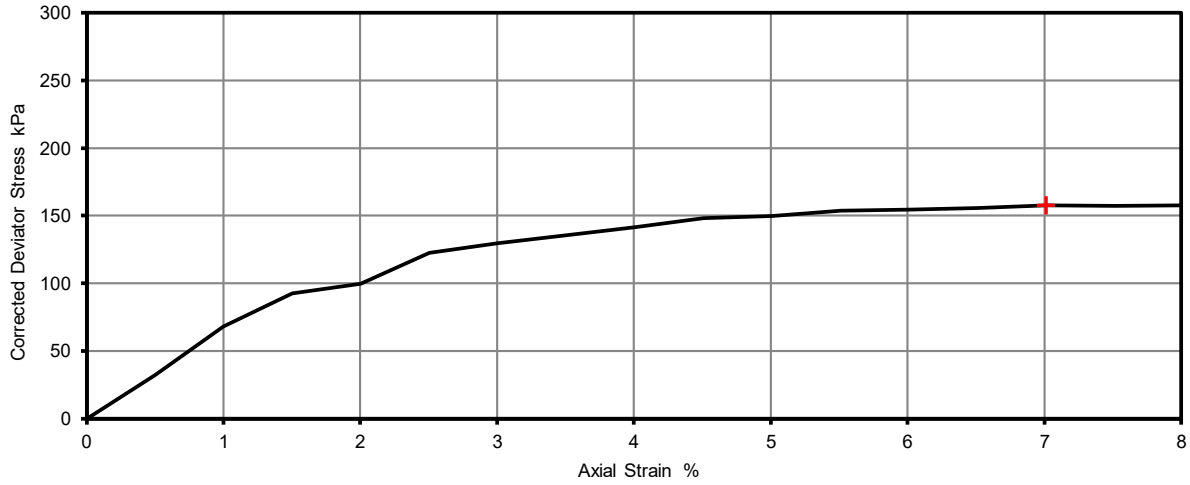
DETERMINATION OF UNDRAINED SHEAR STRENGTH - DEFINITIVE

BS1377 : Part 7 : 1990, Clause 8, Single Specimen

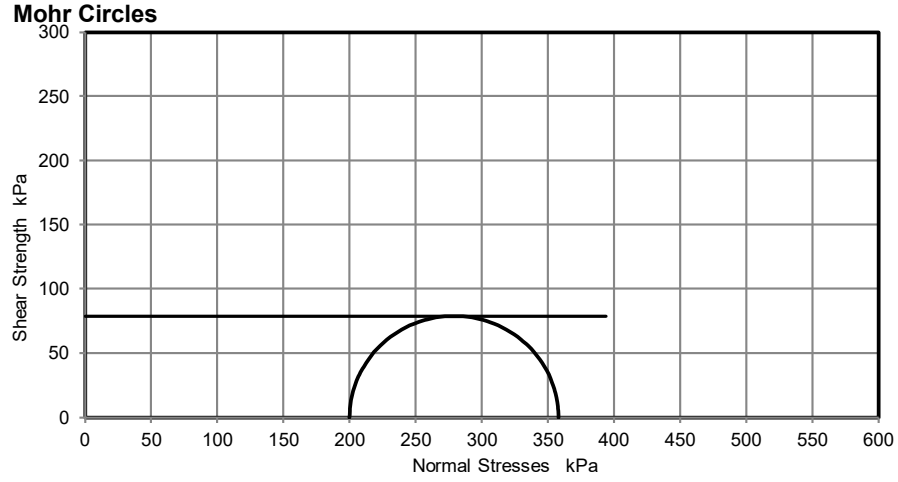
Project Name:	**BY Kentish Town**	Project Number:	**GL24466-01**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	BH01
Sample Description:	High strength brown mottled light grey CLAY.	Sample Depth (m)	5.00
		Sample Reference	UT2

Test Number		1	
Length		199.6	mm
Diameter		101.0	mm
Bulk Density		1.95	Mg/m3
Moisture Content		30.1	%
Dry Density		1.50	Mg/m3
Rate of Strain		1.3	%/min
Cell Pressure		200	kPa
At failure	Axial Strain	7.0	%
	Deviator Stress, (σ1 - σ3)f	158	kPa
	Undrained Shear Strength, cu	79	kPa ½(σ1 - σ3)f
	Mode of Failure	Compound	

Deviator Stress v Axial Strain



Mohr Circles



Deviator stress corrected for area change and membrane effects

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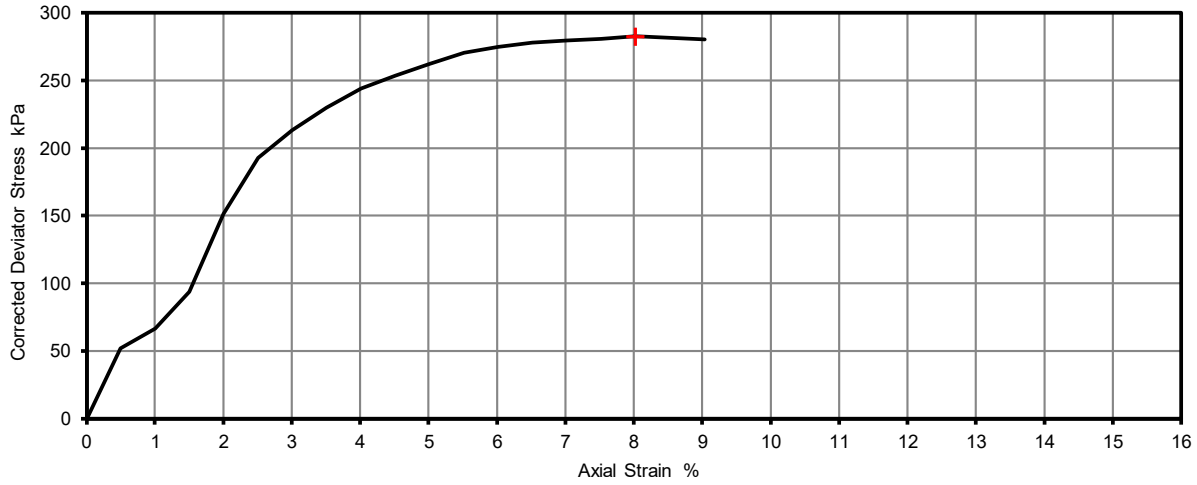
DETERMINATION OF UNDRAINED SHEAR STRENGTH - DEFINITIVE

BS1377 : Part 7 : 1990, Clause 8, Single Specimen

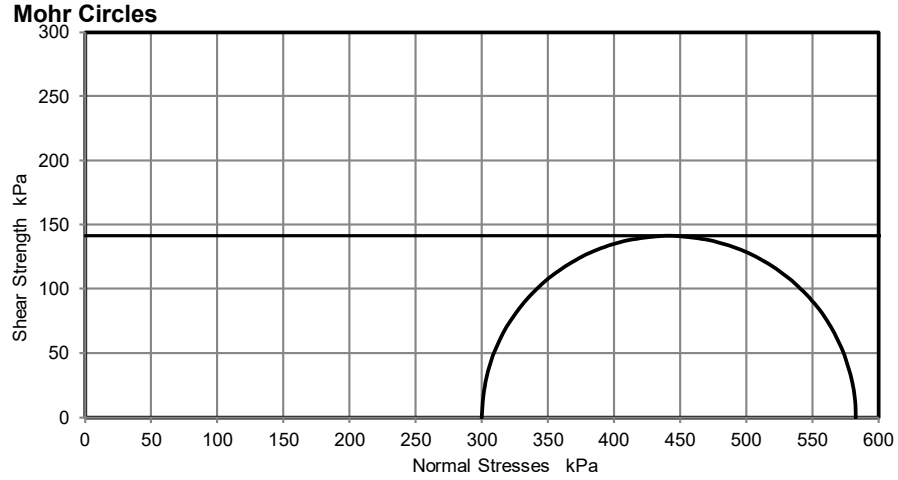
Project Name:	**BY Kentish Town**	Project Number:	**GL24466-01**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	BH01
Sample Description:	High strength brown mottled grey CLAY.	Sample Depth (m)	7.50
		Sample Reference	UT3

Test Number		1	
Length		199.4	mm
Diameter		101.0	mm
Bulk Density		1.96	Mg/m3
Moisture Content		27.5	%
Dry Density		1.54	Mg/m3
Rate of Strain		1.3	%/min
Cell Pressure		300	kPa
At failure	Axial Strain	8.0	%
	Deviator Stress, (σ1 - σ3)f	283	kPa
	Undrained Shear Strength, cu	141	kPa ½(σ1 - σ3)f
	Mode of Failure	Compound	

Deviator Stress v Axial Strain



Mohr Circles



Deviator stress corrected for area change and membrane effects

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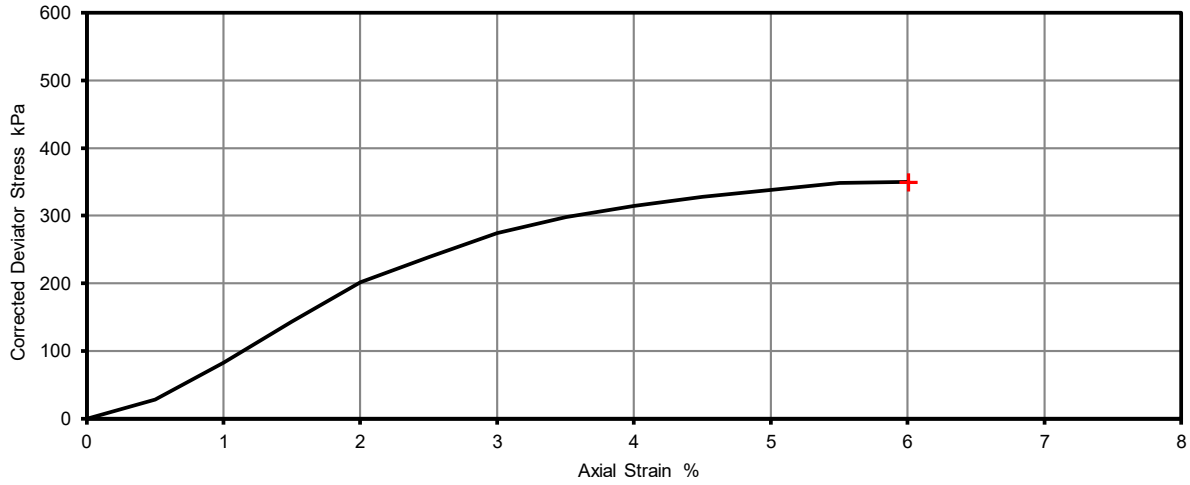
DETERMINATION OF UNDRAINED SHEAR STRENGTH - DEFINITIVE

BS1377 : Part 7 : 1990, Clause 8, Single Specimen

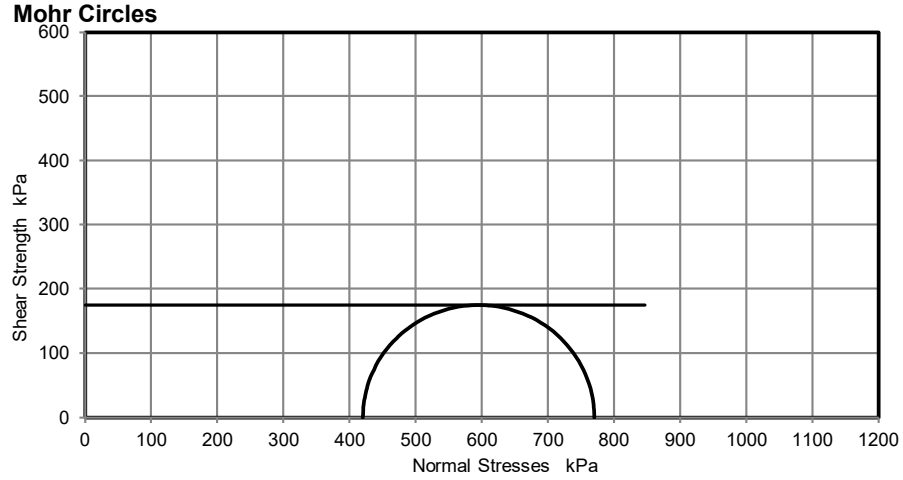
Project Name:	**BY Kentish Town**	Project Number:	**GL24466-01**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	BH01
Sample Description:	Very high strength brown mottled grey CLAY with selenite crystals.	Sample Depth (m)	10.50
		Sample Reference	UT4

Test Number		1	
Length		199.8	mm
Diameter		100.3	mm
Bulk Density		1.98	Mg/m3
Moisture Content		27.0	%
Dry Density		1.56	Mg/m3
Rate of Strain		1.3	%/min
Cell Pressure		420	kPa
At failure	Axial Strain	6.0	%
	Deviator Stress, (σ1 - σ3)f	350	kPa
	Undrained Shear Strength, cu	175	kPa ½(σ1 - σ3)f
	Mode of Failure	Brittle	

Deviator Stress v Axial Strain



Mohr Circles



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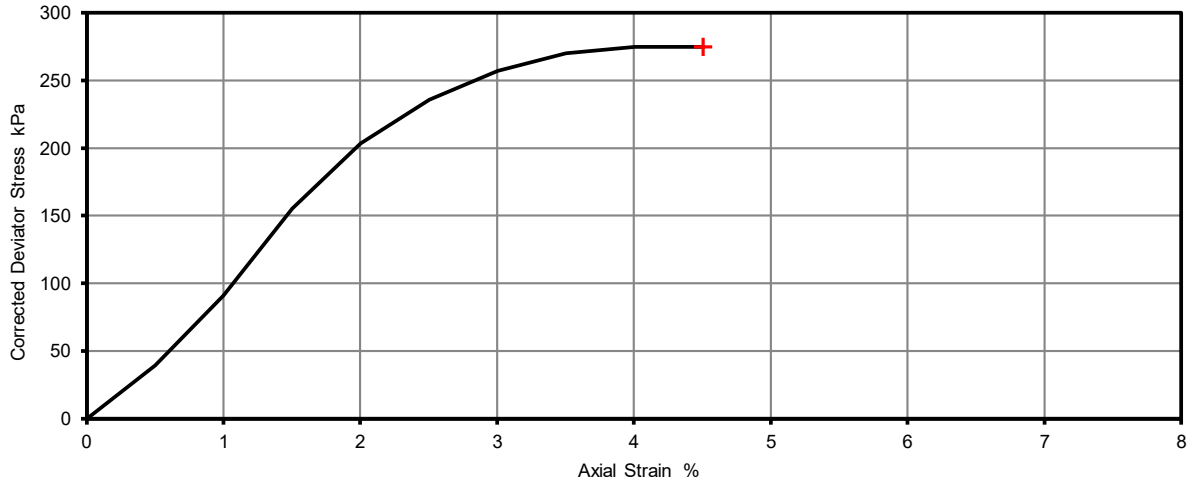
DETERMINATION OF UNDRAINED SHEAR STRENGTH - DEFINITIVE

BS1377 : Part 7 : 1990, Clause 8, Single Specimen

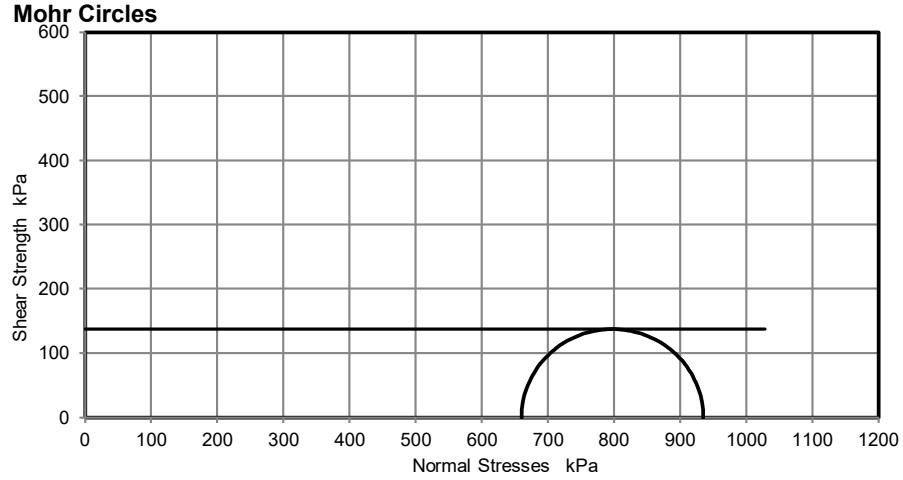
Project Name:	**BY Kentish Town**	Project Number:	**GL24466-01**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	BH01
Sample Description:	High strength dark grey slightly gravelly CLAY. Gravel is of pyrite.	Sample Depth (m)	16.50
		Sample Reference	UT6

Test Number		1	
Length		199.6	mm
Diameter		101.6	mm
Bulk Density		1.95	Mg/m3
Moisture Content		26.6	%
Dry Density		1.54	Mg/m3
Rate of Strain		1.3	%/min
Cell Pressure		660	kPa
At failure	Axial Strain	4.5	%
	Deviator Stress, (σ1 - σ3)f	275	kPa
	Undrained Shear Strength, cu	137	kPa ½(σ1 - σ3)f
	Mode of Failure	Brittle	

Deviator Stress v Axial Strain



Mohr Circles



Deviator stress corrected for area change and membrane effects

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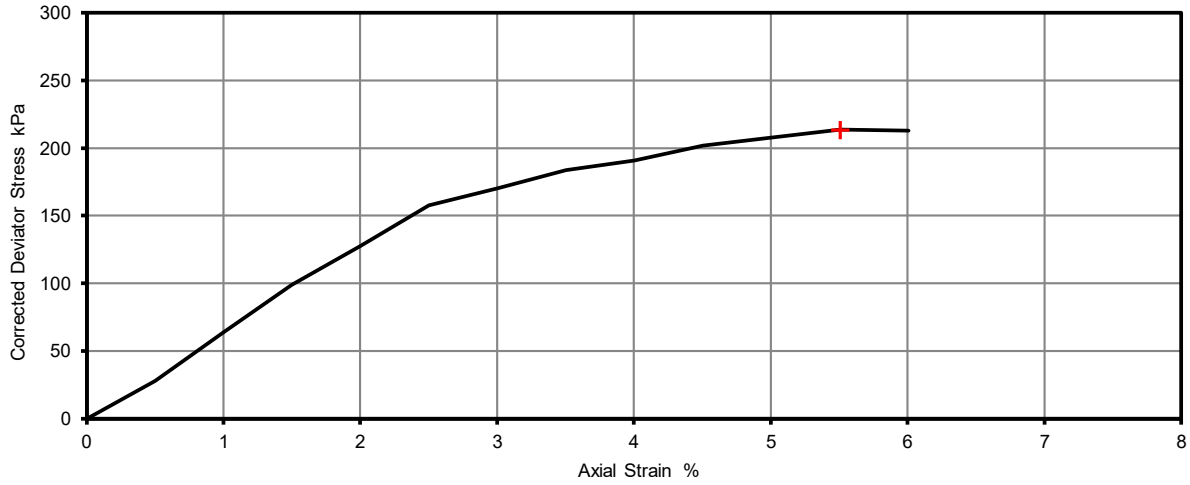
DETERMINATION OF UNDRAINED SHEAR STRENGTH - DEFINITIVE

BS1377 : Part 7 : 1990, Clause 8, Single Specimen

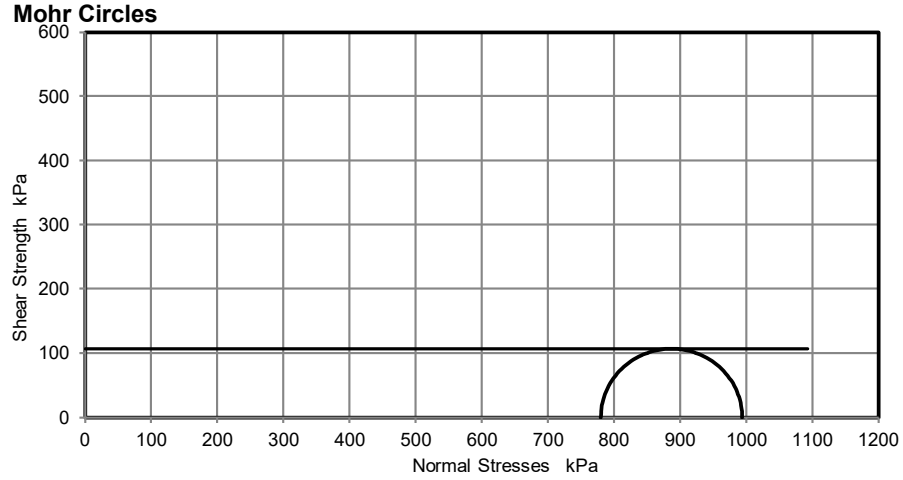
Project Name:	**BY Kentish Town**	Project Number:	**GL24466-01**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	BH01
Sample Description:	High strength dark grey CLAY.	Sample Depth (m)	19.50
		Sample Reference	UT7

Test Number		1	
Length		199.8	mm
Diameter		102.6	mm
Bulk Density		1.97	Mg/m3
Moisture Content		26.9	%
Dry Density		1.55	Mg/m3
Rate of Strain		1.3	%/min
Cell Pressure		780	kPa
At failure	Axial Strain	5.5	%
	Deviator Stress, (σ1 - σ3)f	214	kPa
	Undrained Shear Strength, cu	107	kPa ½(σ1 - σ3)f
	Mode of Failure	Brittle	

Deviator Stress v Axial Strain



Mohr Circles



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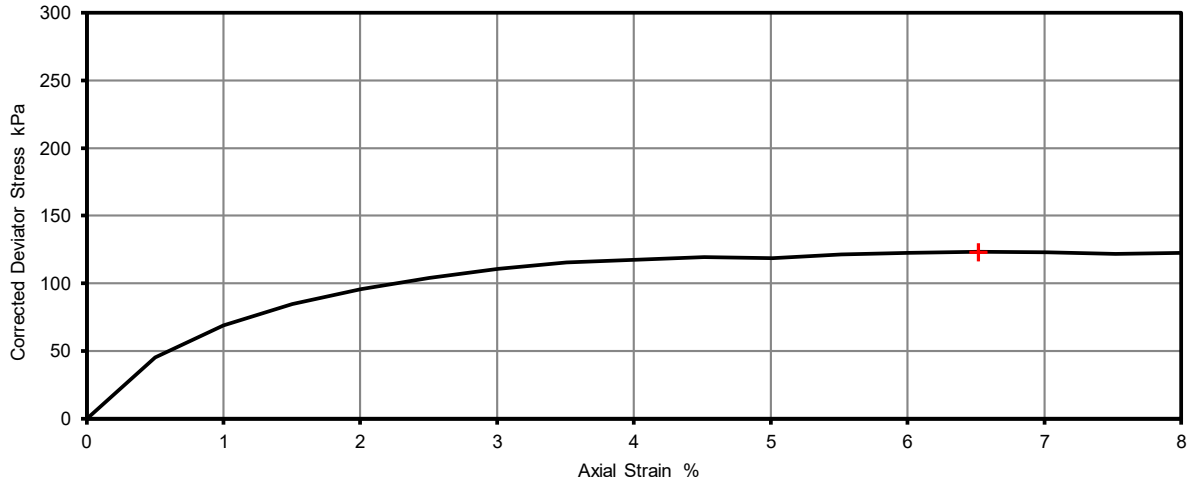
DETERMINATION OF UNDRAINED SHEAR STRENGTH - DEFINITIVE

BS1377 : Part 7 : 1990, Clause 8, Single Specimen

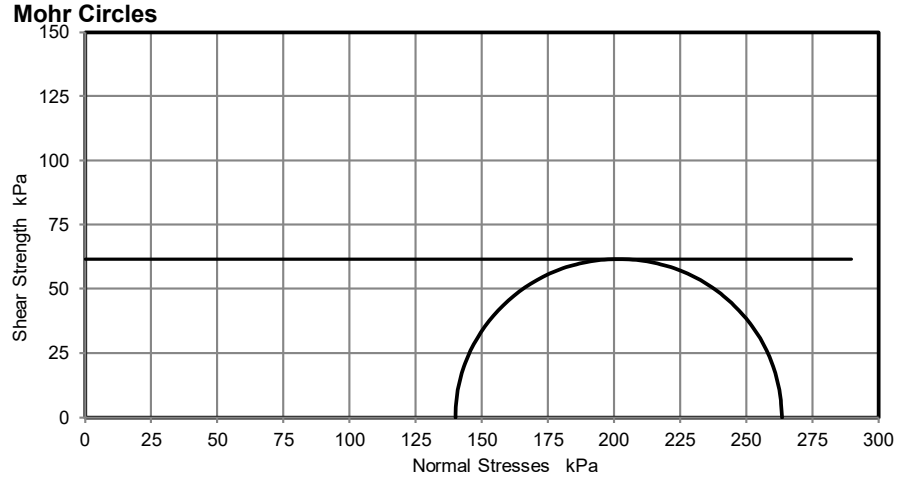
Project Name:	**BY Kentish Town**	Project Number:	**GL24466-01**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	BH02
Sample Description:	Medium strength brown slightly gravelly CLAY. Gravel is of claystone.	Sample Depth (m)	3.50
		Sample Reference	UT1

Test Number		1	
Length		199.4	mm
Diameter		99.0	mm
Bulk Density		2.02	Mg/m3
Moisture Content		26.9	%
Dry Density		1.59	Mg/m3
Rate of Strain		1.0	%/min
Cell Pressure		140	kPa
At failure	Axial Strain	6.5	%
	Deviator Stress, (σ1 - σ3)f	123	kPa
	Undrained Shear Strength, cu	62	kPa ½(σ1 - σ3)f
	Mode of Failure	Compound	

Deviator Stress v Axial Strain



Mohr Circles



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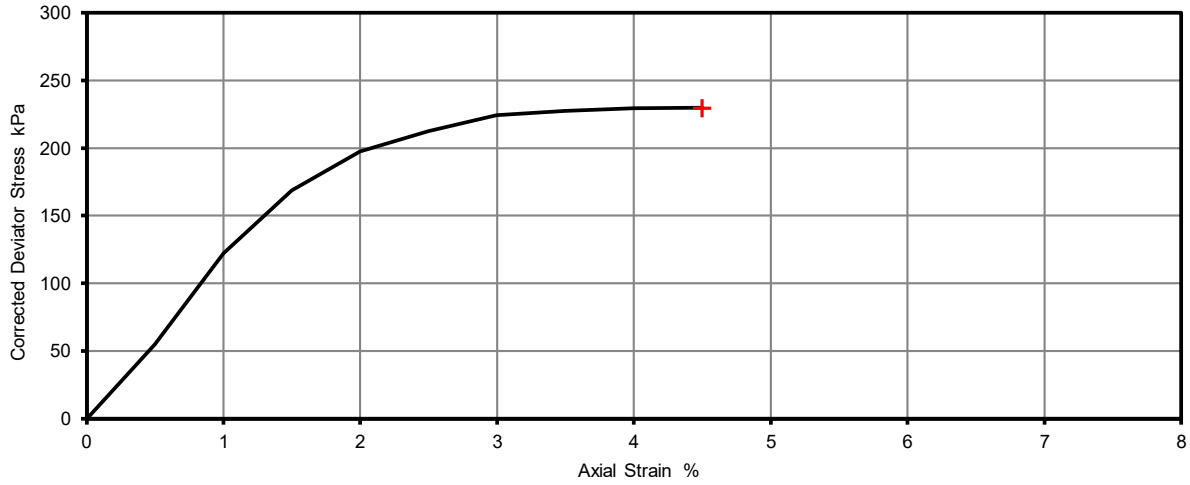
DETERMINATION OF UNDRAINED SHEAR STRENGTH - DEFINITIVE

BS1377 : Part 7 : 1990, Clause 8, Single Specimen

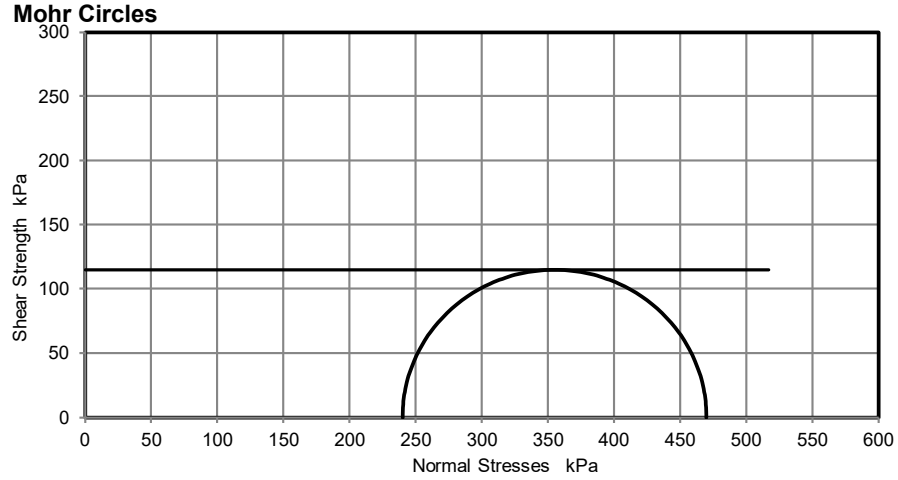
Project Name:	**BY Kentish Town**	Project Number:	**GL24466-01**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	BH02
Sample Description:	High strength brown mottled grey CLAY with selenite crystals.	Sample Depth (m)	6.00
		Sample Reference	UT2

Test Number		1	
Length		200.1	mm
Diameter		101.8	mm
Bulk Density		1.96	Mg/m3
Moisture Content		27.6	%
Dry Density		1.53	Mg/m3
Rate of Strain		1.2	%/min
Cell Pressure		240	kPa
At failure	Axial Strain	4.5	%
	Deviator Stress, (σ1 - σ3)f	230	kPa
	Undrained Shear Strength, cu	115	kPa ½(σ1 - σ3)f
	Mode of Failure	Brittle	

Deviator Stress v Axial Strain



Mohr Circles



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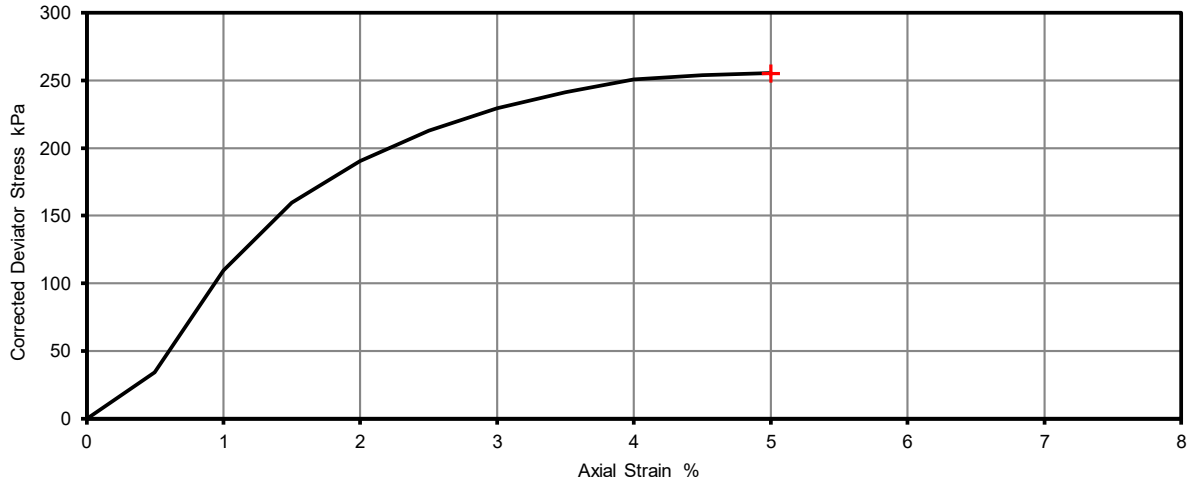
DETERMINATION OF UNDRAINED SHEAR STRENGTH - DEFINITIVE

BS1377 : Part 7 : 1990, Clause 8, Single Specimen

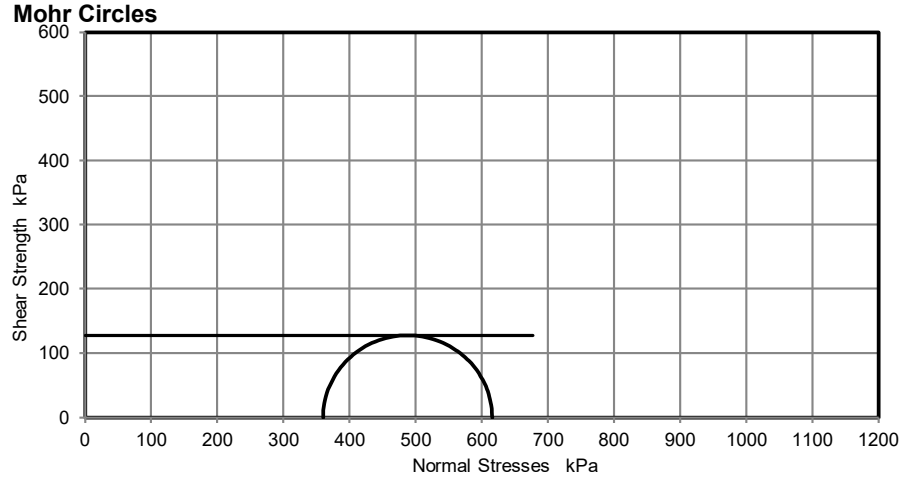
Project Name:	**BY Kentish Town**	Project Number:	**GL24466-01**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	BH02
Sample Description:	High strength brown mottled grey slightly sandy CLAY with selenite crystals.	Sample Depth (m)	9.00
		Sample Reference	UT3

Test Number		1	
Length		199.9	mm
Diameter		103.5	mm
Bulk Density		1.97	Mg/m3
Moisture Content		25.2	%
Dry Density		1.57	Mg/m3
Rate of Strain		1.0	%/min
Cell Pressure		360	kPa
At failure	Axial Strain	5.0	%
	Deviator Stress, (σ1 - σ3)f	256	kPa
	Undrained Shear Strength, cu	128	kPa ½(σ1 - σ3)f
	Mode of Failure	Compound	

Deviator Stress v Axial Strain



Mohr Circles



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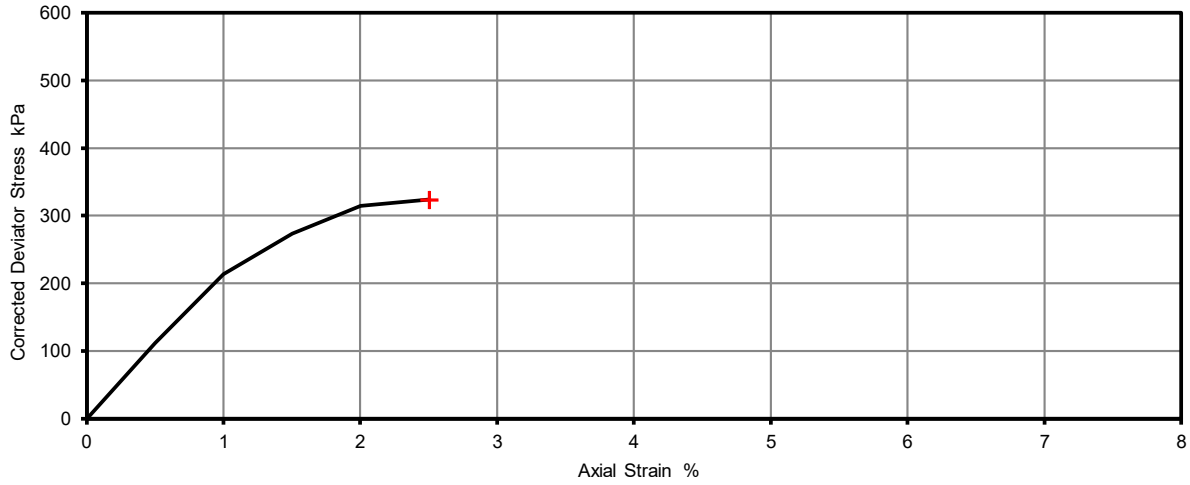
DETERMINATION OF UNDRAINED SHEAR STRENGTH - DEFINITIVE

BS1377 : Part 7 : 1990, Clause 8, Single Specimen

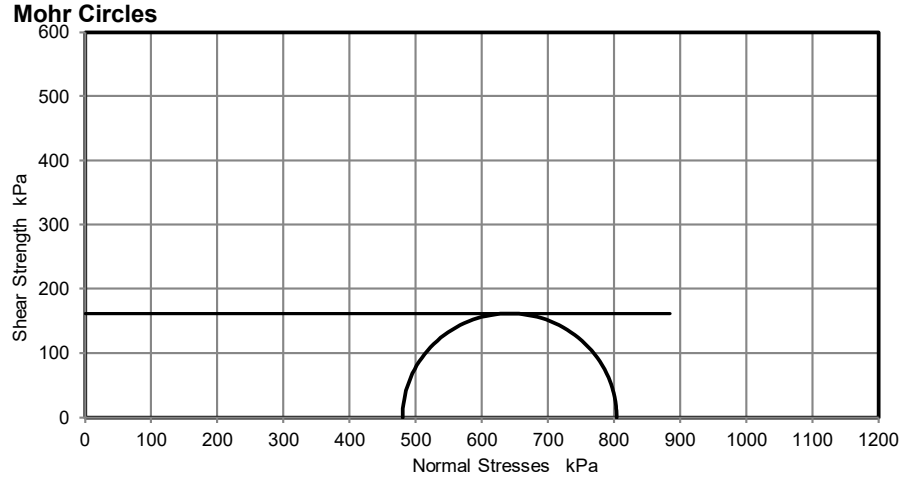
Project Name:	**BY Kentish Town**	Project Number:	**GL24466-01**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	BH02
Sample Description:	Very high strength dark brown mottled orange brown CLAY with selenite crystals.	Sample Depth (m)	12.00
		Sample Reference	UT4

Test Number		1	
Length		199.6	mm
Diameter		99.6	mm
Bulk Density		1.99	Mg/m3
Moisture Content		25.5	%
Dry Density		1.59	Mg/m3
Rate of Strain		1.0	%/min
Cell Pressure		480	kPa
At failure	Axial Strain	2.5	%
	Deviator Stress, (σ1 - σ3)f	324	kPa
	Undrained Shear Strength, cu	162	kPa ½(σ1 - σ3)f
	Mode of Failure	Brittle	

Deviator Stress v Axial Strain



Mohr Circles



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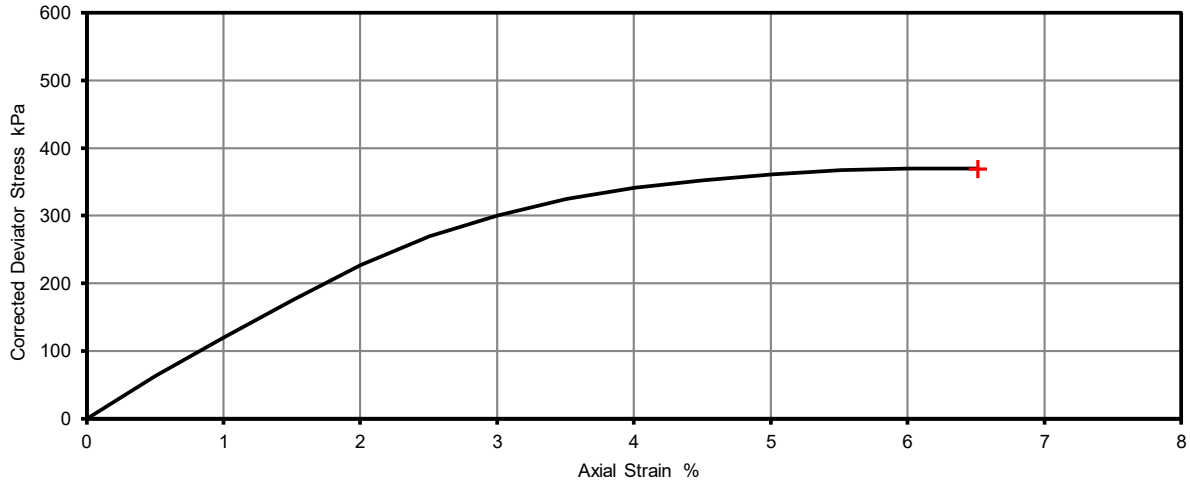
DETERMINATION OF UNDRAINED SHEAR STRENGTH - DEFINITIVE

BS1377 : Part 7 : 1990, Clause 8, Single Specimen

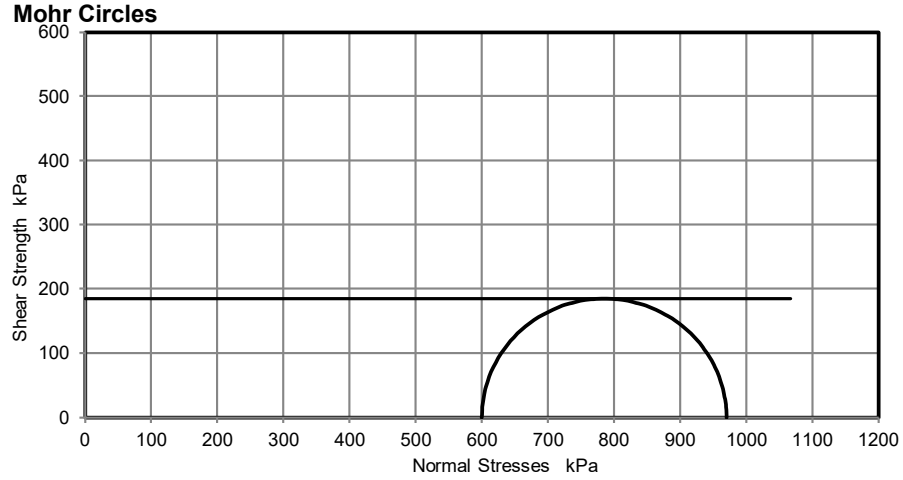
Project Name:	**BY Kentish Town**	Project Number:	**GL24466-01**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	BH02
Sample Description:	Very high strength dark grey CLAY.	Sample Depth (m)	15.00
		Sample Reference	UT5

Test Number		1	
Length		199.6	mm
Diameter		101.9	mm
Bulk Density		1.99	Mg/m3
Moisture Content		24.5	%
Dry Density		1.59	Mg/m3
Rate of Strain		1.0	%/min
Cell Pressure		600	kPa
At failure	Axial Strain	6.5	%
	Deviator Stress, (σ1 - σ3)f	370	kPa
	Undrained Shear Strength, cu	185	kPa ½(σ1 - σ3)f
	Mode of Failure	Compound	

Deviator Stress v Axial Strain



Mohr Circles



Deviator stress corrected for area change and membrane effects

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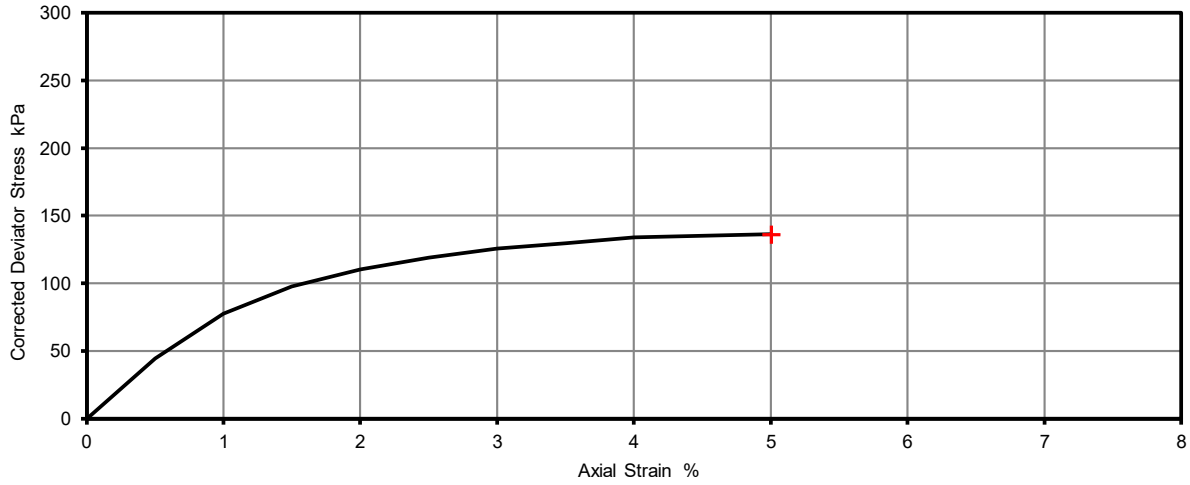
DETERMINATION OF UNDRAINED SHEAR STRENGTH - DEFINITIVE

BS1377 : Part 7 : 1990, Clause 8, Single Specimen

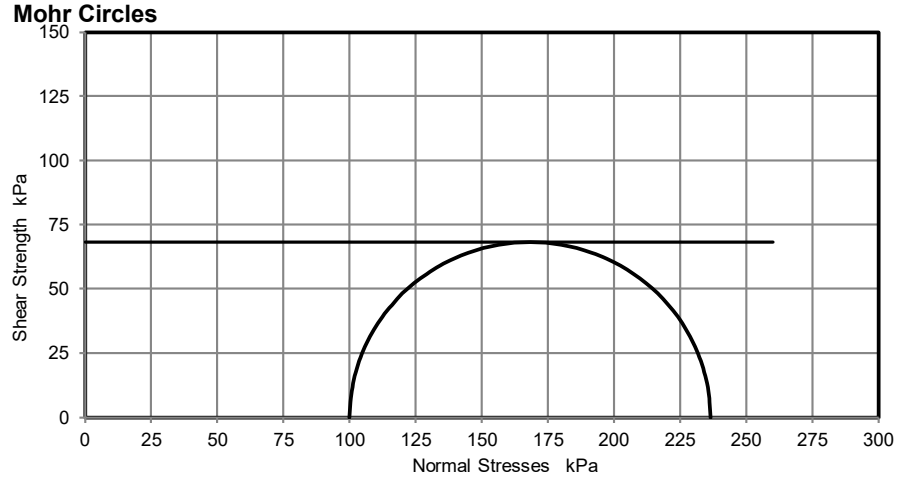
Project Name:	**BY Kentish Town**	Project Number:	**GL24466-01**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	BH03
Sample Description:	Medium strength brown mottled grey slightly gravelly CLAY. Gravel is of siltstone.	Sample Depth (m)	2.50
		Sample Reference	UT1

Test Number		1	
Length		199.8	mm
Diameter		102.1	mm
Bulk Density		1.96	Mg/m3
Moisture Content		28.0	%
Dry Density		1.53	Mg/m3
Rate of Strain		1.0	%/min
Cell Pressure		100	kPa
At failure	Axial Strain	5.0	%
	Deviator Stress, (σ1 - σ3)f	136	kPa
	Undrained Shear Strength, cu	68	kPa ½(σ1 - σ3)f
	Mode of Failure	Brittle	

Deviator Stress v Axial Strain



Mohr Circles



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	MW M. Willson Laboratory Manager	20/09/2021	1 of 1

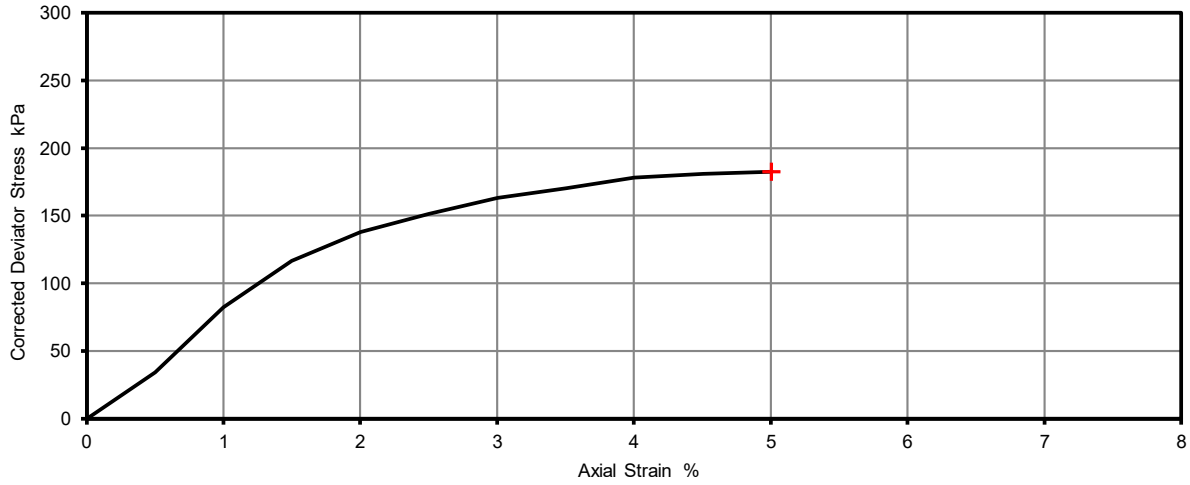
DETERMINATION OF UNDRAINED SHEAR STRENGTH - DEFINITIVE

BS1377 : Part 7 : 1990, Clause 8, Single Specimen

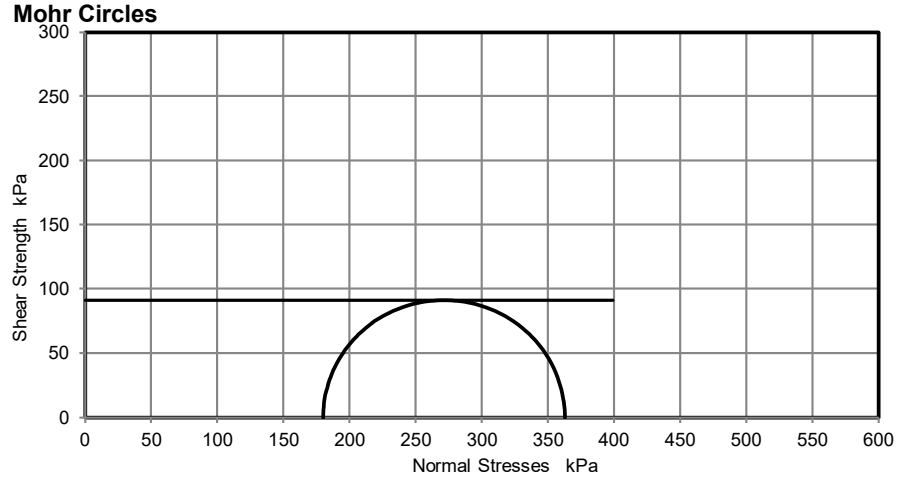
Project Name:	**BY Kentish Town**	Project Number:	**GL24466-01**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	BH03
Sample Description:	High strength brown mottled grey CLAY.	Sample Depth (m)	4.50
		Sample Reference	UT2

Test Number		1	
Length		199.8	mm
Diameter		102.0	mm
Bulk Density		1.92	Mg/m3
Moisture Content		29.3	%
Dry Density		1.48	Mg/m3
Rate of Strain		1.0	%/min
Cell Pressure		180	kPa
At failure	Axial Strain	5.0	%
	Deviator Stress, (σ1 - σ3)f	183	kPa
	Undrained Shear Strength, cu	91	kPa ½(σ1 - σ3)f
	Mode of Failure	Brittle	

Deviator Stress v Axial Strain



Mohr Circles



Deviator stress corrected for area change and membrane effects

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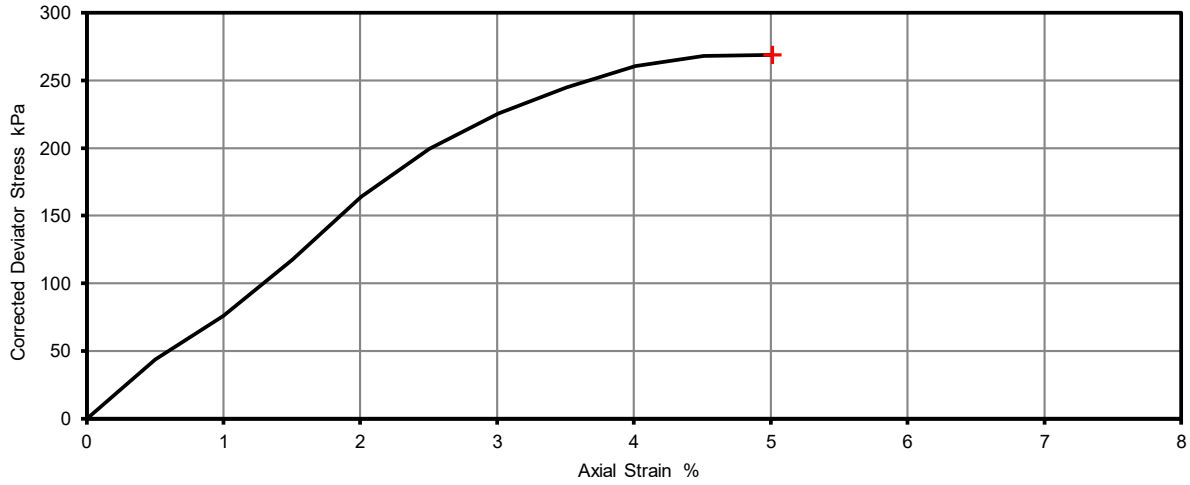
DETERMINATION OF UNDRAINED SHEAR STRENGTH - DEFINITIVE

BS1377 : Part 7 : 1990, Clause 8, Single Specimen

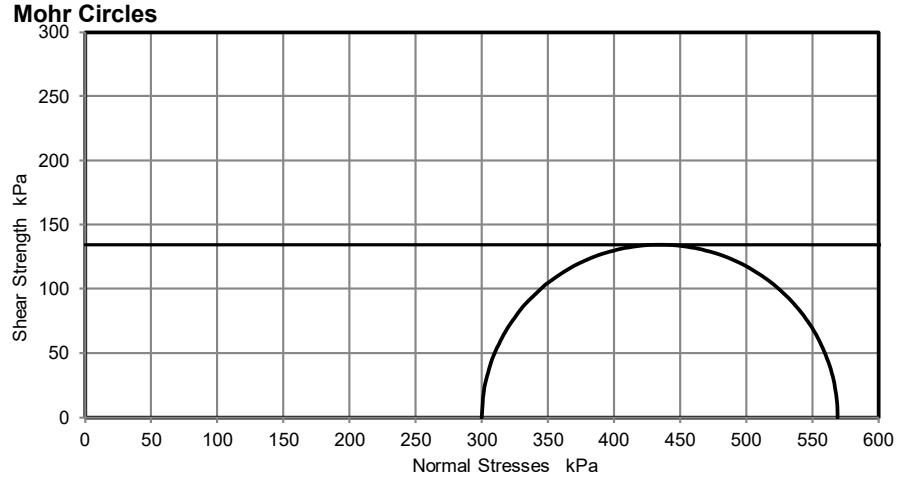
Project Name:	**BY Kentish Town**	Project Number:	**GL24466-01**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	BH03
Sample Description:	High strength brown CLAY with selenite crystals.	Sample Depth (m)	7.50
		Sample Reference	UT3

Test Number		1	
Length		199.5	mm
Diameter		102.0	mm
Bulk Density		1.96	Mg/m3
Moisture Content		26.7	%
Dry Density		1.54	Mg/m3
Rate of Strain		1.0	%/min
Cell Pressure		300	kPa
At failure	Axial Strain	5.0	%
	Deviator Stress, (σ1 - σ3)f	269	kPa
	Undrained Shear Strength, cu	135	kPa ½(σ1 - σ3)f
	Mode of Failure	Brittle	

Deviator Stress v Axial Strain



Mohr Circles



Deviator stress corrected for area change and membrane effects

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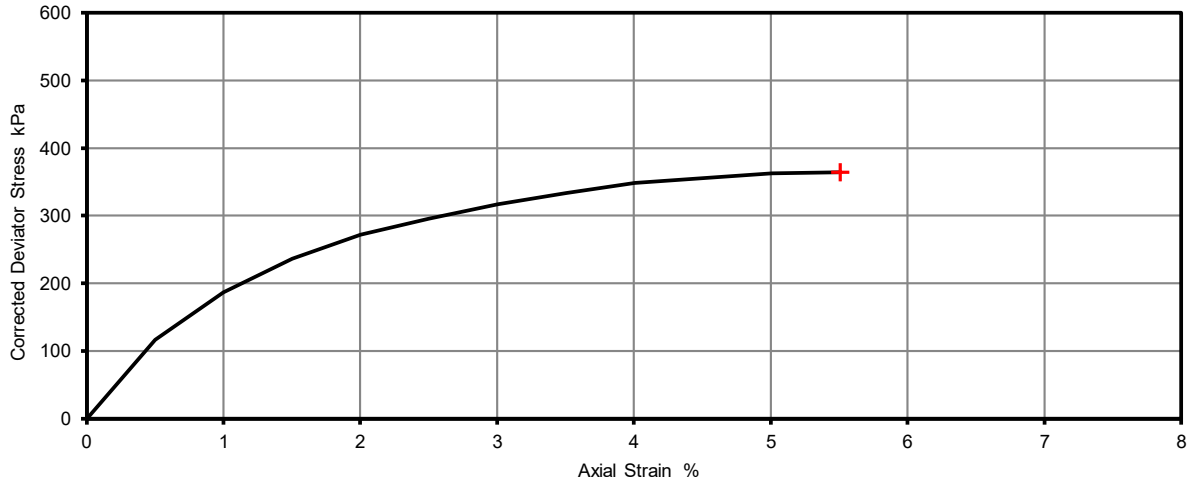
DETERMINATION OF UNDRAINED SHEAR STRENGTH - DEFINITIVE

BS1377 : Part 7 : 1990, Clause 8, Single Specimen

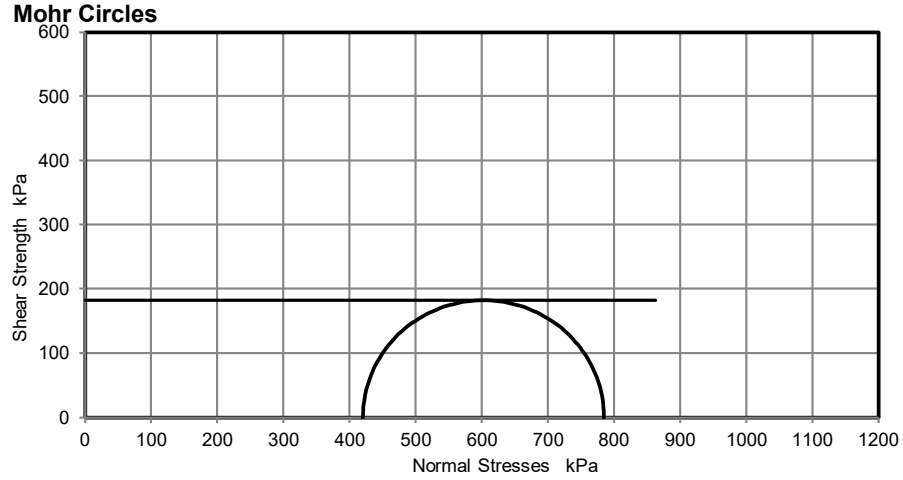
Project Name:	**BY Kentish Town**	Project Number:	**GL24466-01**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	BH03
Sample Description:	Very high strength dark grey mottled orange brown CLAY with selenite crystals.	Sample Depth (m)	10.50
		Sample Reference	UT4

Test Number		1	
Length		199.7	mm
Diameter		101.7	mm
Bulk Density		1.97	Mg/m3
Moisture Content		25.6	%
Dry Density		1.56	Mg/m3
Rate of Strain		1.0	%/min
Cell Pressure		420	kPa
At failure	Axial Strain	5.5	%
	Deviator Stress, (σ1 - σ3)f	365	kPa
	Undrained Shear Strength, cu	182	kPa ½(σ1 - σ3)f
	Mode of Failure	Brittle	

Deviator Stress v Axial Strain



Mohr Circles



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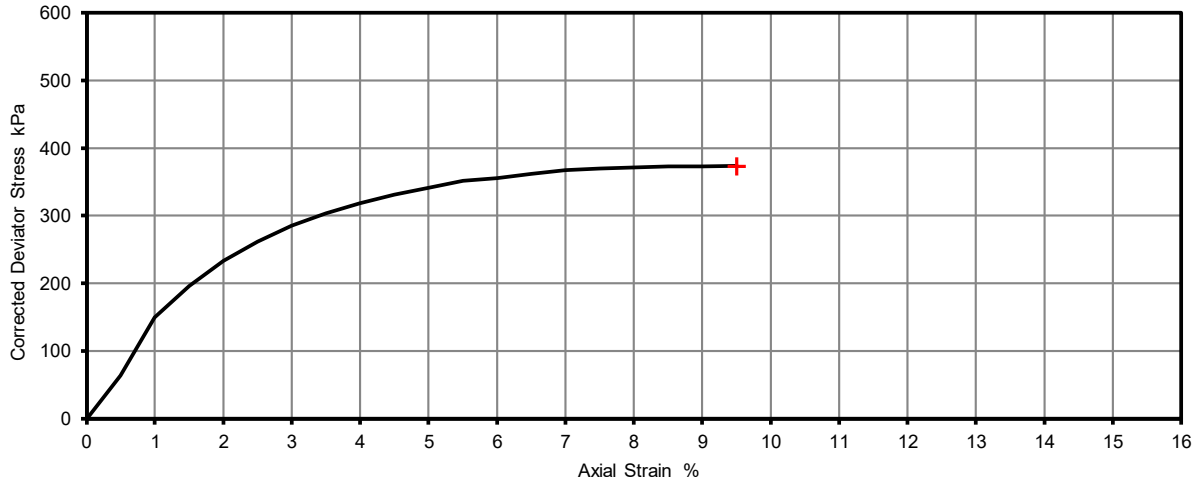
DETERMINATION OF UNDRAINED SHEAR STRENGTH - DEFINITIVE

BS1377 : Part 7 : 1990, Clause 8, Single Specimen

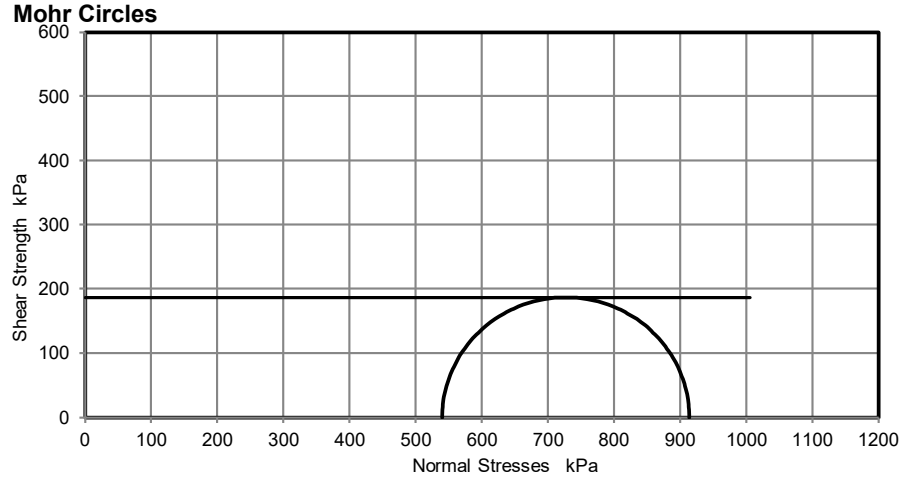
Project Name:	**BY Kentish Town**	Project Number:	**GL24466-01**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	BH03
Sample Description:	Very high strength dark grey CLAY.	Sample Depth (m)	13.50
		Sample Reference	UT5

Test Number		1	
Length		199.9	mm
Diameter		102.5	mm
Bulk Density		2.00	Mg/m3
Moisture Content		26.1	%
Dry Density		1.59	Mg/m3
Rate of Strain		1.0	%/min
Cell Pressure		540	kPa
At failure	Axial Strain	9.5	%
	Deviator Stress, (σ1 - σ3)f	374	kPa
	Undrained Shear Strength, cu	187	kPa ½(σ1 - σ3)f
	Mode of Failure	Compound	

Deviator Stress v Axial Strain



Mohr Circles



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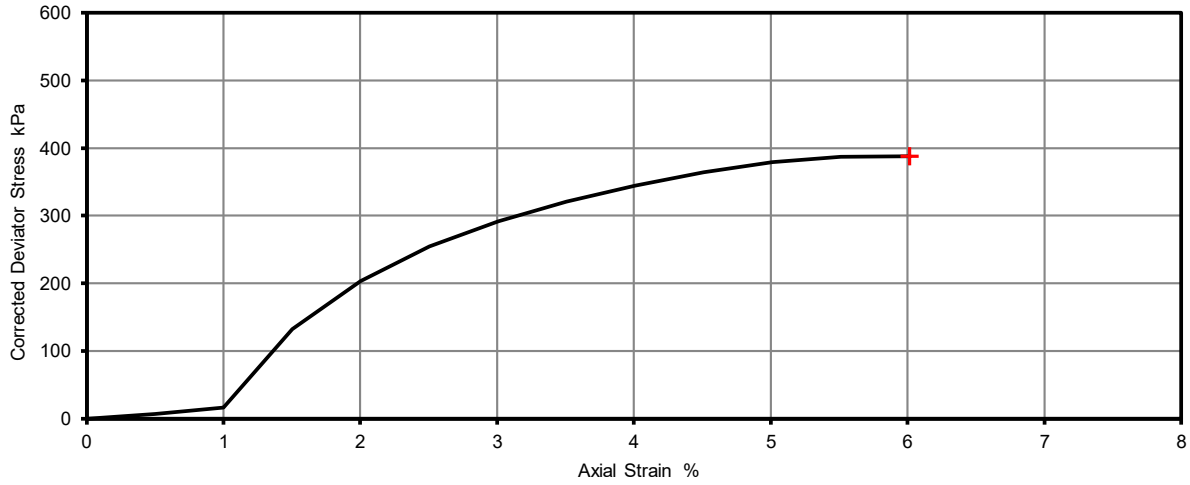
DETERMINATION OF UNDRAINED SHEAR STRENGTH - DEFINITIVE

BS1377 : Part 7 : 1990, Clause 8, Single Specimen

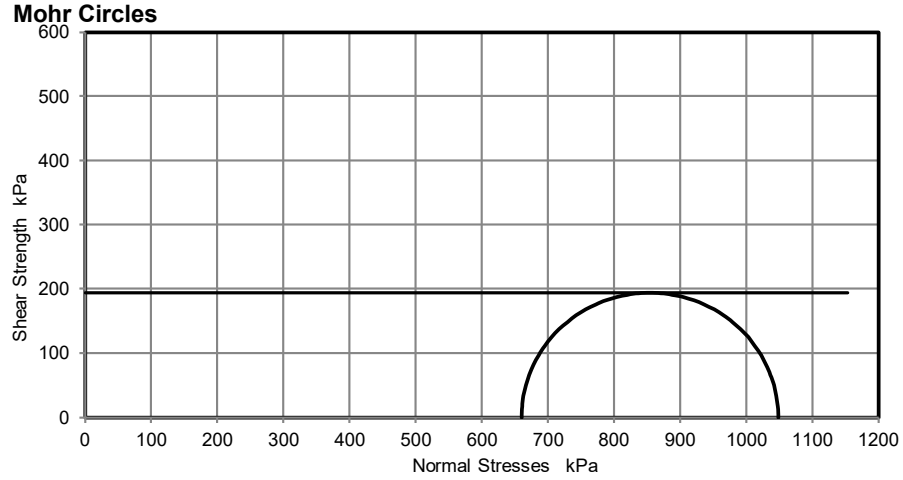
Project Name:	**BY Kentish Town**	Project Number:	**GL24466-01**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	BH03
Sample Description:	Very high strength dark grey CLAY.	Sample Depth (m)	16.50
		Sample Reference	UT6

Test Number		1	
Length		199.5	mm
Diameter		101.9	mm
Bulk Density		1.99	Mg/m3
Moisture Content		24.8	%
Dry Density		1.59	Mg/m3
Rate of Strain		1.0	%/min
Cell Pressure		660	kPa
At failure	Axial Strain	6.0	%
	Deviator Stress, (σ1 - σ3)f	388	kPa
	Undrained Shear Strength, cu	194	kPa ½(σ1 - σ3)f
	Mode of Failure	Brittle	

Deviator Stress v Axial Strain



Mohr Circles



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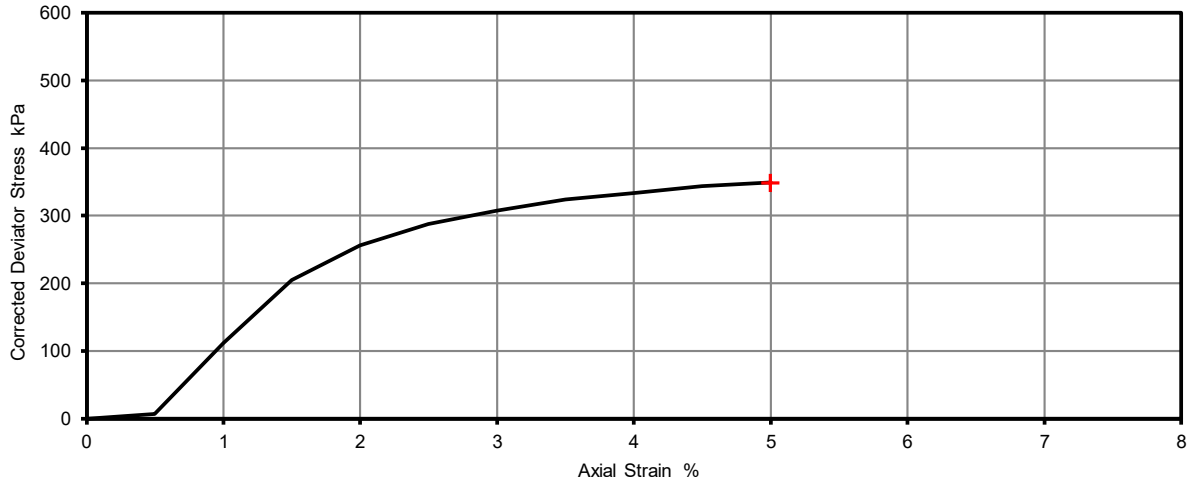
DETERMINATION OF UNDRAINED SHEAR STRENGTH - DEFINITIVE

BS1377 : Part 7 : 1990, Clause 8, Single Specimen

Project Name:	**BY Kentish Town**	Project Number:	**GL24466-01**
Client Name:	**The Big Yellow Construction Company Ltd**	Sample Location:	BH03
Sample Description:	Very high strength dark grey CLAY.	Sample Depth (m)	19.50
		Sample Reference	UT7

Test Number		1	
Length		200.0	mm
Diameter		102.1	mm
Bulk Density		1.96	Mg/m3
Moisture Content		25.7	%
Dry Density		1.56	Mg/m3
Rate of Strain		1.0	%/min
Cell Pressure		780	kPa
At failure	Axial Strain	5.0	%
	Deviator Stress, (σ1 - σ3)f	349	kPa
	Undrained Shear Strength, cu	175	kPa ½(σ1 - σ3)f
	Mode of Failure	Brittle	

Deviator Stress v Axial Strain



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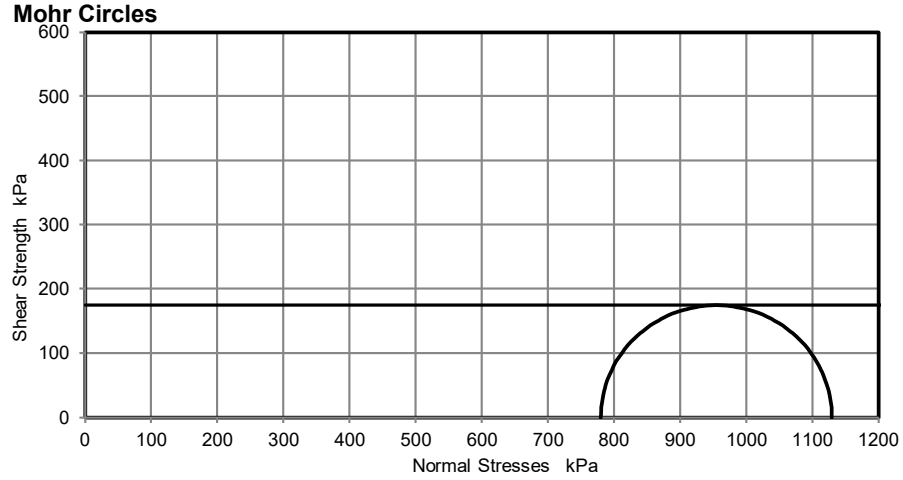

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Analytical Report Number : 21-98090

Replaces Analytical Report Number: 21-98090, issue no. 1
Client references/information amended.

Project / Site name:	B Y Kentish Town	**Samples received on:**	09/09/2021
Your job number:	GL24466	**Samples instructed on/ Analysis started on:**	09/09/2021
Your order number:	PO 37611 GB	**Analysis completed by:**	23/09/2021
Report Issue Number:	2	**Report issued on:**	23/09/2021
Samples Analysed:	31 soil samples		

Signed:

Joanna Wawrzeczko
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

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

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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

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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: 21-98090
Project / Site name: B Y Kentish Town
Your Order No: PO 37611 GB

Lab Sample Number				2003531	2003532	2003533	2003534	2003535
Sample Reference				BH01	BH01	BH01	BH01	BH01
Sample Number				D1	B3	D3	D5	D7
Depth (m)				0.50-0.50	2.50-2.95	5.50-5.50	8.00-8.00	11.00-1.00
Date Sampled				25/08/2021	25/08/2021	25/08/2021	25/08/2021	25/08/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	17	19	16	18
Total mass of sample received	kg	0.001	NONE	2.0	0.30	0.50	0.50	1.5

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.6	7.8	8.7	8.0	8.1
Total Sulphate as SO4	%	0.005	MCERTS	0.124	-	-	-	-
Water Soluble Sulphate (Soil Equivalent)	g/kg	0.0025	MCERTS	0.68	2.3	0.32	5.1	5.2
Water Soluble Sulphate as SO4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	680	2300	320	5100	5200
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.34	1.2	0.16	2.6	2.6
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	341	-	-	-	-
Total Sulphur	%	0.005	MCERTS	0.094	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-98090
Project / Site name: B Y Kentish Town
Your Order No: PO 37611 GB

Lab Sample Number				2003536	2003537	2003538	2003539	2003540
Sample Reference				BH01	BH01	BH01	BH02	BH02
Sample Number				D8	D11	D15	B1	D7
Depth (m)				12.00-12.45	17.00-17.00	23.00-23.00	0.90-1.20	6.45-6.55
Date Sampled				25/08/2021	25/08/2021	25/08/2021	25/08/2021	25/08/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	18	17	17	18
Total mass of sample received	kg	0.001	NONE	1.5	0.30	0.30	0.30	0.40

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.4	9.0	9.0	8.6	8.4
Total Sulphate as SO4	%	0.005	MCERTS	-	-	-	0.067	-
Water Soluble Sulphate (Soil Equivalent)	g/kg	0.0025	MCERTS	5.3	1.6	1.1	0.36	1.8
Water Soluble Sulphate as SO4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	5300	1600	1100	360	1800
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	2.6	0.82	0.57	0.18	0.90
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	181	-
Total Sulphur	%	0.005	MCERTS	-	-	-	0.041	-

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-98090
Project / Site name: B Y Kentish Town
Your Order No: PO 37611 GB

Lab Sample Number				2003541	2003542	2003543	2003544	2003545
Sample Reference				BH02	BH02	BH03	BH03	BH03
Sample Number				D11	UT5	D1	D5	D11
Depth (m)				12.50-12.50	15.00-15.45	0.50-0.50	2.50-2.50	5.50-5.50
Date Sampled				25/08/2021	25/08/2021	25/08/2021	25/08/2021	25/08/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	16	13	17	18
Total mass of sample received	kg	0.001	NONE	1.5	0.30	2.0	0.30	1.5

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.2	8.5	9.3	8.4	7.5
Total Sulphate as SO4	%	0.005	MCERTS	-	-	-	0.051	-
Water Soluble Sulphate (Soil Equivalent)	g/kg	0.0025	MCERTS	2.5	2.0	0.34	0.34	4.7
Water Soluble Sulphate as SO4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	2500	2000	340	340	4700
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	1.2	1.0	0.17	0.17	2.4
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	171	-
Total Sulphur	%	0.005	MCERTS	-	-	-	0.024	-

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-98090
Project / Site name: B Y Kentish Town
Your Order No: PO 37611 GB

Lab Sample Number				2003546	2003547	2003548	2003549	2003550
Sample Reference				BH03	BH03	BH03	BH03	BH03
Sample Number				D17	D20	D26	D31	D35
Depth (m)				8.50	10.00	13.00	18.00	24.00-24.45
Date Sampled				25/08/2021	25/08/2021	25/08/2021	25/08/2021	25/08/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	18	17	17	17	18
Total mass of sample received	kg	0.001	NONE	1.5	1.5	1.5	1.0	0.80

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.8	7.6	8.2	8.6	8.7
Total Sulphate as SO4	%	0.005	MCERTS	-	-	-	-	-
Water Soluble Sulphate (Soil Equivalent)	g/kg	0.0025	MCERTS	3.8	2.5	2.2	1.6	1.4
Water Soluble Sulphate as SO4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	3800	2500	2200	1600	1400
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	1.9	1.2	1.1	0.82	0.71
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-	-
Total Sulphur	%	0.005	MCERTS	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-98090
Project / Site name: B Y Kentish Town
Your Order No: PO 37611 GB

Lab Sample Number				2003551	2003552	2003553	2003554	2003555
Sample Reference				DCP05	TP01	TP01	TP02	WS01
Sample Number				D3	B3	B4	B1	D3
Depth (m)				0.80-0.80	1.60-1.80	2.40-2.60	0.60-0.80	0.70-0.70
Date Sampled				25/08/2021	25/08/2021	25/08/2021	25/08/2021	25/08/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	22	14	20	9.5	16
Total mass of sample received	kg	0.001	NONE	1.0	0.70	0.50	0.70	0.70

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.5	10.0	8.4	9.4	8.5
Total Sulphate as SO4	%	0.005	MCERTS	-	-	0.080	-	-
Water Soluble Sulphate (Soil Equivalent)	g/kg	0.0025	MCERTS	0.14	0.58	0.55	1.3	0.094
Water Soluble Sulphate as SO4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	140	580	550	1300	94
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.069	0.29	0.27	0.64	0.047
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	275	-	-
Total Sulphur	%	0.005	MCERTS	-	-	0.032	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-98090
Project / Site name: B Y Kentish Town
Your Order No: PO 37611 GB

Lab Sample Number				2003556	2003557	2003558	2003559	2003560
Sample Reference				WS01	WS01	WS02	WS02	WS02
Sample Number				D6	D10	D4	D5	D7
Depth (m)				2.00-2.00	4.50-4.50	1.00-1.00	1.50-1.50	2.30-2.30
Date Sampled				25/08/2021	25/08/2021	25/08/2021	25/08/2021	25/08/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	18	19	14	20	20
Total mass of sample received	kg	0.001	NONE	0.30	0.30	0.40	1.0	1.0

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.9	8.4	8.6	8.8	7.8
Total Sulphate as SO4	%	0.005	MCERTS	0.189	-	0.056	-	0.109
Water Soluble Sulphate (Soil Equivalent)	g/kg	0.0025	MCERTS	1.6	0.31	0.21	0.19	1.1
Water Soluble Sulphate as SO4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	1600	310	210	190	1100
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.81	0.16	0.10	0.096	0.57
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	811	-	105	-	568
Total Sulphur	%	0.005	MCERTS	0.067	-	0.021	-	0.148

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-98090
Project / Site name: B Y Kentish Town
Your Order No: PO 37611 GB

Lab Sample Number				2003561
Sample Reference				WS03
Sample Number				D1
Depth (m)				0.25-0.25
Date Sampled				25/08/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	8.8
Total mass of sample received	kg	0.001	NONE	1.0

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	10.6
Total Sulphate as SO4	%	0.005	MCERTS	0.533
Water Soluble Sulphate (Soil Equivalent)	g/kg	0.0025	MCERTS	0.62
Water Soluble Sulphate as SO4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	620
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.31
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	312
Total Sulphur	%	0.005	MCERTS	0.179

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 21-98090
Project / Site name: B Y Kentish Town

* 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 *
2003531	BH01	D1	0.50-0.50	Brown clay and loam with gravel.
2003532	BH01	B3	2.50-2.95	Brown clay and loam with gravel.
2003533	BH01	D3	5.50-5.50	Brown clay.
2003534	BH01	D5	8.00-8.00	Brown clay.
2003535	BH01	D7	11.00-1.00	Brown clay.
2003536	BH01	D8	12.00-12.45	Brown clay.
2003537	BH01	D11	17.00-17.00	Brown clay.
2003538	BH01	D15	23.00-23.00	Brown clay.
2003539	BH02	B1	0.90-1.20	Brown clay with gravel.
2003540	BH02	D7	6.45-6.55	Brown clay.
2003541	BH02	D11	12.50-12.50	Brown clay.
2003542	BH02	UT5	15.00-15.45	Brown clay.
2003543	BH03	D1	0.50-0.50	Brown loam and gravel.
2003544	BH03	D5	2.50-2.50	Brown clay.
2003545	BH03	D11	5.50-5.50	Brown clay.
2003546	BH03	D17	8.5	Brown clay.
2003547	BH03	D20	10	Brown clay.
2003548	BH03	D26	13	Brown clay.
2003549	BH03	D31	18	Brown clay.
2003550	BH03	D35	24.00-24.45	Brown clay.
2003551	DCP05	D3	0.80-0.80	Brown clay and loam with gravel.
2003552	TP01	B3	1.60-1.80	Brown clay and loam with gravel and brick.
2003553	TP01	B4	2.40-2.60	Brown clay with gravel.
2003554	TP02	B1	0.60-0.80	Brown loam and clay with gravel and vegetation.
2003555	WS01	D3	0.70-0.70	Brown clay and loam with gravel and vegetation.
2003556	WS01	D6	2.00-2.00	Brown clay with gravel and vegetation.
2003557	WS01	D10	4.50-4.50	Brown clay.
2003558	WS02	D4	1.00-1.00	Brown clay and sand with gravel.
2003559	WS02	D5	1.50-1.50	Brown clay and sand with gravel.
2003560	WS02	D7	2.30-2.30	Brown clay and sand with gravel.
2003561	WS03	D1	0.25-0.25	Brown loam and sand with gravel.

Analytical Report Number : 21-98090
Project / Site name: B Y Kentish Town

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
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
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.	L019-UK/PL	D	NONE
Total Sulphate in soil as %	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total Sulphur in soil as %	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' 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.

APPENDIX E

ENVIRONMENTAL LABORATORY TESTING

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e: GL@harrisongroupuk.com

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Analytical Report Number : 21-92702

Replaces Analytical Report Number: 21-92702, issue no. 1
Additional analysis undertaken.

Project / Site name:	BY Kentish Town	**Samples received on:**	12/08/2021
Your job number:	GL24466	**Samples instructed on/ Analysis started on:**	13/08/2021
Your order number:		**Analysis completed by:**	06/09/2021
Report Issue Number:	2	**Report issued on:**	06/09/2021
Samples Analysed:	7 soil samples		

Signed: Karolina Marek

Karolina Marek
PL Head of Reporting Team
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

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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: 21-92702
Project / Site name: BY Kentish Town

Lab Sample Number				1971183	1971184	1971185	1971186	1971187
Sample Reference				BH02	BH02	WS01	WS02	WS02
Sample Number				1	2	1	1	3
Depth (m)				0.30-0.30	0.60-0.60	0.20-0.20	0.30-0.30	0.80-0.80
Date Sampled				11/08/2021	11/08/2021	11/08/2021	11/08/2021	11/08/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	9.0	17	14	11	13
Total mass of sample received	kg	0.001	NONE	1.2	1.2	1.2	1.2	1.0
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	Chrysotile	-
Asbestos in Soil	Type	N/A	ISO 17025	-	Not-detected	Not-detected	Detected	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	0.084	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	0.084	-
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	-	8.5	8.1	8.4	-
Total Cyanide	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	-
Total Sulphate as SO4	mg/kg	50	MCERTS	-	1300	750	4300	-
Sulphide	mg/kg	1	MCERTS	-	32	< 1.0	66	-
Total Organic Carbon (TOC)	%	0.1	MCERTS	1.0	-	2.5	-	2.1
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	-
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	-	< 0.05	< 0.05	< 0.05	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	< 0.05	< 0.05	< 0.05	-
Acenaphthene	mg/kg	0.05	MCERTS	-	< 0.05	< 0.05	0.80	-
Fluorene	mg/kg	0.05	MCERTS	-	< 0.05	< 0.05	0.51	-
Phenanthrene	mg/kg	0.05	MCERTS	-	0.63	0.76	2.5	-
Anthracene	mg/kg	0.05	MCERTS	-	< 0.05	0.71	0.72	-
Fluoranthene	mg/kg	0.05	MCERTS	-	0.88	0.79	4.1	-
Pyrene	mg/kg	0.05	MCERTS	-	0.80	0.62	3.7	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	0.42	0.29	2.1	-
Chrysene	mg/kg	0.05	MCERTS	-	0.40	0.35	1.9	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	0.56	0.48	2.6	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	0.25	0.14	1.1	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	0.43	0.32	1.9	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	< 0.05	< 0.05	1.0	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	< 0.05	< 0.05	0.32	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	< 0.05	< 0.05	1.2	-
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	-	4.37	4.46	24.2	-

Analytical Report Number: 21-92702
Project / Site name: BY Kentish Town

Lab Sample Number				1971183	1971184	1971185	1971186	1971187
Sample Reference				BH02	BH02	WS01	WS02	WS02
Sample Number				1	2	1	1	3
Depth (m)				0.30-0.30	0.60-0.60	0.20-0.20	0.30-0.30	0.80-0.80
Date Sampled				11/08/2021	11/08/2021	11/08/2021	11/08/2021	11/08/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	14	13	28	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	1.4	0.96	1.4	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	3.9	2.5	7.5	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	< 0.2	0.6	1.6	-
Chromium (hexavalent)	mg/kg	4	MCERTS	-	< 4.0	< 4.0	< 4.0	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	48	28	37	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	70	35	240	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	180	71	500	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	< 0.3	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	33	21	52	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	78	41	68	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	110	110	470	-
Petroleum Hydrocarbons								
TPH Texas (C6 - C8)	mg/kg	0.1	ISO 17025	-	< 0.1	< 0.1	< 0.1	-
TPH Texas (C8 - C10)	mg/kg	10	MCERTS	-	< 10	< 10	< 10	-
TPH Texas (C10 - C12)	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	-
TPH Texas (C12 - C16)	mg/kg	4	MCERTS	-	4.1	< 4.0	20	-
TPH Texas (C16 - C21)	mg/kg	10	MCERTS	-	28	< 10	110	-
TPH Texas (C21 - C40)	mg/kg	10	MCERTS	-	130	14	660	-
TPH Texas (C6 - C40)	mg/kg	10	NONE	-	160	14	790	-

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-92702
Project / Site name: BY Kentish Town

Lab Sample Number				1971188	1971189
Sample Reference				WS03	WS03
Sample Number				2	3
Depth (m)				0.50-0.50	1.00-1.00
Date Sampled				11/08/2021	11/08/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	7.7	8.0
Total mass of sample received	kg	0.001	NONE	1.2	1.2
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-
Asbestos in Soil	Type	N/A	ISO 17025	-	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-
General Inorganics					
pH - Automated	pH Units	N/A	MCERTS	-	9.6
Total Cyanide	mg/kg	1	MCERTS	-	< 1.0
Total Sulphate as SO4	mg/kg	50	MCERTS	-	2200
Sulphide	mg/kg	1	MCERTS	-	40
Total Organic Carbon (TOC)	%	0.1	MCERTS	1.4	-
Total Phenols					
Total Phenols (monohydric)	mg/kg	1	MCERTS	-	< 1.0
Speciated PAHs					
Naphthalene	mg/kg	0.05	MCERTS	-	0.98
Acenaphthylene	mg/kg	0.05	MCERTS	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	4.2
Fluorene	mg/kg	0.05	MCERTS	-	2.5
Phenanthrene	mg/kg	0.05	MCERTS	-	25
Anthracene	mg/kg	0.05	MCERTS	-	1.6
Fluoranthene	mg/kg	0.05	MCERTS	-	34
Pyrene	mg/kg	0.05	MCERTS	-	29
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	15
Chrysene	mg/kg	0.05	MCERTS	-	11
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	13
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	6.1
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	10
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	4.6
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	1.4
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	5.2
Total PAH					
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	-	163

Analytical Report Number: 21-92702
Project / Site name: BY Kentish Town

Lab Sample Number				1971188	1971189
Sample Reference				WS03	WS03
Sample Number				2	3
Depth (m)				0.50-0.50	1.00-1.00
Date Sampled				11/08/2021	11/08/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**		
Heavy Metals / Metalloids					
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	31
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	3.0
Boron (water soluble)	mg/kg	0.2	MCERTS	-	3.1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	1.1
Chromium (hexavalent)	mg/kg	4	MCERTS	-	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	32
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	310
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	320
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	58
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	62
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	320
Petroleum Hydrocarbons					
TPH Texas (C6 - C8)	mg/kg	0.1	ISO 17025	-	< 0.1
TPH Texas (C8 - C10)	mg/kg	10	MCERTS	-	< 10
TPH Texas (C10 - C12)	mg/kg	1	MCERTS	-	3.4
TPH Texas (C12 - C16)	mg/kg	4	MCERTS	-	13
TPH Texas (C16 - C21)	mg/kg	10	MCERTS	-	51
TPH Texas (C21 - C40)	mg/kg	10	MCERTS	-	290
TPH Texas (C6 - C40)	mg/kg	10	NONE	-	360

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-92702
Project / Site name: BY Kentish Town
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-PL 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
1971186	WS02	0.30-0.30	131	Loose Fibrous Debris	**Chrysotile**	0.084	**0.084**

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

Analytical Report Number : 21-92702
Project / Site name: BY Kentish Town

* 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 *
1971183	BH02	1	0.30-0.30	Brown clay and sand with gravel.
1971184	BH02	2	0.60-0.60	Grey clay and sand with gravel.
1971185	WS01	1	0.20-0.20	Brown loam and clay with vegetation and gravel
1971186	WS02	1	0.30-0.30	Brown clay and sand with rubble and gravel
1971187	WS02	3	0.80-0.80	Brown loam and gravel.
1971188	WS03	2	0.50-0.50	Brown loam and gravel.
1971189	WS03	3	1.00-1.00	Brown loam and gravel.

Analytical Report Number : 21-92702
Project / Site name: BY Kentish Town

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	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
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
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.	L019-UK/PL	D	NONE
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
TPH Texas (Soil)	Determination of dichloromethane/hexane extractable hydrocarbons in soil by GC-MS.	In-house method	L064-PL	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.	In house method.	L009-PL	D	MCERTS
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' 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.

Analytical Report Number : 21-92702
Project / Site name: BY Kentish Town

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status

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.

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Analytical Report Number : 21-92708

Project / Site name:	BY Kentish Town	**Samples received on:**	12/08/2021
Your job number:	GL24466	**Samples instructed on/ Analysis started on:**	12/08/2021
Your order number:		**Analysis completed by:**	19/08/2021
Report Issue Number:	1	**Report issued on:**	19/08/2021
Samples Analysed:	3 10:1 WAC Samples		

Signed:

Joanna Wawrzeczko
Technical Reviewer (Reporting Team)
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

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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.

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Waste Acceptance Criteria Analytical Results

Report No:	**21-92708**						
					Client:	**HARRIGROUP**	
Location	**BY Kentish Town**						
Lab Reference (Sample Number)	1971197 / 1971198				**Landfill Waste Acceptance Criteria Limits**		
Sampling Date	11/08/2021				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	BH02 2						
Depth (m)	0.60-0.60						
Solid Waste Analysis							
TOC (%)**	1.1				3%	5%	6%
Loss on Ignition (%) **	4.9				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	0.019				1	--	--
Mineral Oil (mg/kg)	150				500	--	--
Total PAH (WAC-17) (mg/kg)	7.24				100	--	--
pH (units)**	8.4				--	>6	--
Acid Neutralisation Capacity (mol / kg)	7.1				--	To be evaluated	To be evaluated
Eluate Analysis	10:1			10:1	Limit values for compliance leaching test		
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	mg/l			mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	0.0048			0.0376	0.5	2	25
Barium *	0.0303			0.237	20	100	300
Cadmium *	< 0.0001			< 0.0008	0.04	1	5
Chromium *	0.0009			0.0068	0.5	10	70
Copper *	0.013			0.10	2	50	100
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2
Molybdenum *	0.0198			0.155	0.5	10	30
Nickel *	0.0055			0.043	0.4	10	40
Lead *	0.0033			0.026	0.5	10	50
Antimony *	0.0074			0.058	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.0068			0.053	4	50	200
Chloride *	20			160	800	15000	25000
Fluoride	1.4			11	10	150	500
Sulphate *	63			490	1000	20000	50000
TDS*	130			990	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	17.5			137	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.2						
Dry Matter (%)	83						
Moisture (%)	17						

Results are expressed on a dry weight basis, after correction for moisture content where applicable.
*= UKAS accredited (liquid eluate analysis only)
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation
** = MCERTS accredited

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

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Waste Acceptance Criteria Analytical Results

Report No:	**21-92708**						
					Client:	**HARRIGROUP**	
Location	**BY Kentish Town**						
Lab Reference (Sample Number)	1971199 / 1971200				**Landfill Waste Acceptance Criteria Limits**		
Sampling Date	11/08/2021				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	WS02 1						
Depth (m)	0.30-0.30						
Solid Waste Analysis							
TOC (%)**	2.4				3%	5%	6%
Loss on Ignition (%) **	7.1				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	0.095				1	--	--
Mineral Oil (mg/kg)	520				500	--	--
Total PAH (WAC-17) (mg/kg)	27.4				100	--	--
pH (units)**	8.0				--	>6	--
Acid Neutralisation Capacity (mol / kg)	9.1				--	To be evaluated	To be evaluated
Eluate Analysis (BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1 mg/l			10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	0.0011			0.0104	0.5	2	25
Barium *	0.0672			0.620	20	100	300
Cadmium *	< 0.0001			< 0.0008	0.04	1	5
Chromium *	0.0007			0.0066	0.5	10	70
Copper *	0.0061			0.057	2	50	100
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2
Molybdenum *	0.0130			0.120	0.5	10	30
Nickel *	0.0031			0.029	0.4	10	40
Lead *	0.0020			0.018	0.5	10	50
Antimony *	0.031			0.29	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.0073			0.067	4	50	200
Chloride *	11			98	800	15000	25000
Fluoride	0.40			3.7	10	150	500
Sulphate *	120			1100	1000	20000	50000
TDS*	180			1600	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	6.03			55.6	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.2						
Dry Matter (%)	89						
Moisture (%)	11						

Results are expressed on a dry weight basis, after correction for moisture content where applicable.
*= UKAS accredited (liquid eluate analysis only)
Stated limits are for guidance only and i2 cannot be held responsible for any discrepencies with current legislation
** = MCERTS accredited

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

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Waste Acceptance Criteria Analytical Results

Report No:	**21-92708**						
					Client:	**HARRIGROUP**	
Location	**BY Kentish Town**						
Lab Reference (Sample Number)	1971201 / 1971202				**Landfill Waste Acceptance Criteria Limits**		
Sampling Date	11/08/2021				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	WS03 3						
Depth (m)	1.00-1.00						
Solid Waste Analysis							
TOC (%)**	3.4				3%	5%	6%
Loss on Ignition (%) **	9.8				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.007				1	--	--
Mineral Oil (mg/kg)	88				500	--	--
Total PAH (WAC-17) (mg/kg)	129				100	--	--
pH (units)**	8.4				--	>6	--
Acid Neutralisation Capacity (mol / kg)	9.6				--	To be evaluated	To be evaluated
Eluate Analysis (BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1 mg/l			10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	0.0043			0.0354	0.5	2	25
Barium *	0.0278			0.229	20	100	300
Cadmium *	< 0.0001			< 0.0008	0.04	1	5
Chromium *	0.0033			0.027	0.5	10	70
Copper *	0.0080			0.066	2	50	100
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2
Molybdenum *	0.0033			0.0268	0.5	10	30
Nickel *	0.0031			0.025	0.4	10	40
Lead *	0.0061			0.050	0.5	10	50
Antimony *	< 0.0017			< 0.017	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.0056			0.046	4	50	200
Chloride *	2.3			19	800	15000	25000
Fluoride	1.4			12	10	150	500
Sulphate *	18			150	1000	20000	50000
TDS*	78			640	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	7.59			62.3	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.2						
Dry Matter (%)	92						
Moisture (%)	8.0						

Results are expressed on a dry weight basis, after correction for moisture content where applicable.
*= UKAS accredited (liquid eluate analysis only)
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** = MCERTS accredited

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Analytical Report Number : 21-92708
Project / Site name: BY Kentish Town

* 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 *
1971197	BH02	2	0.60-0.60	Grey clay and sand with gravel.
1971199	WS02	1	0.30-0.30	Brown clay and sand with rubble and gravel
1971201	WS03	3	1.00-1.00	Brown loam and gravel.

Analytical Report Number : 21-92708
Project / Site name: BY Kentish Town

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BS EN 12457-2 (10:1) Leachate Prep	10:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-2.	L043-PL	W	NONE
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe.	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance""	L046-PL	W	NONE
Loss on ignition of soil @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace.	In house method.	L047-PL	D	MCERTS
Mineral Oil (Soil) C10 - C40	Determination of mineral oil fraction extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L076-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270. MCERTS accredited except Coronene.	L064-PL	D	NONE
PCB's By GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS
pH at 20oC in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In house method.	L005-PL	W	MCERTS
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.	L019-UK/PL	D	NONE
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
BTEX in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Total BTEX in soil (Poland)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073-PL	W	MCERTS
Metals in leachate by ICP-OES	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil""	L039-PL	W	ISO 17025
Chloride 10:1 WAC	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260.	L082-PL	W	ISO 17025
Fluoride 10:1 WAC	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination"	L033B-PL	W	ISO 17025
Sulphate 10:1 WAC	Determination of sulphate in leachate by ICP-OES	In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil""	L039-PL	W	ISO 17025
Total dissolved solids 10:1 WAC	Determination of total dissolved solids in water by EC probe using a factor of 0.6.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L004-PL	W	ISO 17025

Analytical Report Number : 21-92708
Project / Site name: BY Kentish Town

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Monohydric phenols 10:1 WAC	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Dissolved organic carbon 10:1 WAC	Determination of dissolved inorganic carbon in leachate by TOC/DOC NDIR Analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037-PL	W	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' 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.

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Analytical Report Number : 21-93023

Project / Site name:	BY Kentish Town	**Samples received on:**	12/08/2021
Your job number:	GL24466	**Samples instructed on/ Analysis started on:**	16/08/2021
Your order number:		**Analysis completed by:**	23/08/2021
Report Issue Number:	1	**Report issued on:**	23/08/2021
Samples Analysed:	3 soil samples		

Signed:

Joanna Wawrzeczko
Technical Reviewer (Reporting Team)
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

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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: 21-93023
Project / Site name: BY Kentish Town

Lab Sample Number				1973038	1973039	1973040
Sample Reference				BH03	SSS01	SSS02
Sample Number				1	1	1
Depth (m)				0.45-0.45	0.20-0.20	0.20-0.20
Date Sampled				12/08/2021	12/08/2021	12/08/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	12	16	17
Total mass of sample received	kg	0.001	NONE	1.0	1.2	1.2
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected
General Inorganics						
pH - Automated	pH Units	N/A	MCERTS	9.3	8.2	6.9
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Total Sulphate as SO4	mg/kg	50	MCERTS	2200	650	590
Sulphide	mg/kg	1	MCERTS	37	< 1.0	< 1.0
Total Organic Carbon (TOC)	%	0.1	MCERTS	3.4	1.6	1.7
Total Phenols						
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Speciated PAHs						
Naphthalene	mg/kg	0.05	MCERTS	0.45	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	0.32	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.27	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.66	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	4.4	0.33	< 0.05
Anthracene	mg/kg	0.05	MCERTS	1.2	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	5.2	0.70	< 0.05
Pyrene	mg/kg	0.05	MCERTS	4.7	0.64	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	3.4	0.51	< 0.05
Chrysene	mg/kg	0.05	MCERTS	3.0	0.44	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	3.4	0.57	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	1.4	0.21	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	3.0	0.62	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.6	0.28	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.47	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.7	0.45	< 0.05
Total PAH						
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	35.2	4.75	< 0.80

Analytical Report Number: 21-93023
Project / Site name: BY Kentish Town

Lab Sample Number				1973038	1973039	1973040
Sample Reference				BH03	SSS01	SSS02
Sample Number				1	1	1
Depth (m)				0.45-0.45	0.20-0.20	0.20-0.20
Date Sampled				12/08/2021	12/08/2021	12/08/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
Heavy Metals / Metalloids						
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	15	15	16
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.7	1.0	1.1
Boron (water soluble)	mg/kg	0.2	MCERTS	0.7	1.2	0.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.5	0.7	0.6
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	19	34	28
Copper (aqua regia extractable)	mg/kg	1	MCERTS	180	70	26
Lead (aqua regia extractable)	mg/kg	1	MCERTS	260	130	74
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	25	26	22
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	36	49	46
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	150	140	91
Petroleum Hydrocarbons						
TPH Texas (C6 - C8)	mg/kg	0.1	ISO 17025	< 0.1	< 0.1	< 0.1
TPH Texas (C8 - C10)	mg/kg	10	MCERTS	< 10	< 10	< 10
TPH Texas (C10 - C12)	mg/kg	1	MCERTS	2.8	< 1.0	< 1.0
TPH Texas (C12 - C16)	mg/kg	4	MCERTS	13	< 4.0	< 4.0
TPH Texas (C16 - C21)	mg/kg	10	MCERTS	47	< 10	< 10
TPH Texas (C21 - C40)	mg/kg	10	MCERTS	310	< 10	< 10
TPH Texas (C6 - C40)	mg/kg	10	NONE	370	< 10	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 21-93023
Project / Site name: BY Kentish Town

* 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 *
1973038	BH03	1	0.45-0.45	Brown loam and sand with gravel.
1973039	SSS01	1	0.20-0.20	Brown loam and clay with gravel and vegetation.
1973040	SSS02	1	0.20-0.20	Brown loam and clay with gravel and vegetation.

Analytical Report Number : 21-93023
Project / Site name: BY Kentish Town

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	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
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
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.	L019-UK/PL	D	NONE
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
TPH Texas (Soil)	Determination of dichloromethane/hexane extractable hydrocarbons in soil by GC-MS.	In-house method	L064-PL	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.	In house method.	L009-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' 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.

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Analytical Report Number : 21-93449

Project / Site name:	BY Kentish Town	**Samples received on:**	17/08/2021
Your job number:	GL24466	**Samples instructed on/ Analysis started on:**	17/08/2021
Your order number:	GL24466	**Analysis completed by:**	25/08/2021
Report Issue Number:	1	**Report issued on:**	25/08/2021
Samples Analysed:	2 soil samples		

Signed: A. Czerwińska

Agnieszka Czerwińska
Technical Reviewer (Reporting Team)
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

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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: 21-93449
Project / Site name: BY Kentish Town
Your Order No: GL24466

Lab Sample Number				1976193	1976194
Sample Reference				BH01	BH01
Sample Number				1	2
Depth (m)				0.50-0.50	1.00-1.00
Date Sampled				16/08/2021	16/08/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	11	13
Total mass of sample received	kg	0.001	NONE	1.0	1.0
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-
General Inorganics					
pH - Automated	pH Units	N/A	MCERTS	9.0	-
Total Cyanide	mg/kg	1	MCERTS	< 1.0	-
Total Sulphate as SO4	mg/kg	50	MCERTS	1400	-
Sulphide	mg/kg	1	MCERTS	9.8	-
Total Organic Carbon (TOC)	%	0.1	MCERTS	-	3.6
Total Phenols					
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	-
Speciated PAHs					
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-
Acenaphthene	mg/kg	0.05	MCERTS	1.7	-
Fluorene	mg/kg	0.05	MCERTS	1.6	-
Phenanthrene	mg/kg	0.05	MCERTS	8.1	-
Anthracene	mg/kg	0.05	MCERTS	1.7	-
Fluoranthene	mg/kg	0.05	MCERTS	9.8	-
Pyrene	mg/kg	0.05	MCERTS	9.1	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	4.7	-
Chrysene	mg/kg	0.05	MCERTS	3.1	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	4.0	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	1.8	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	3.5	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.6	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.53	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	2.0	-
Total PAH					
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	53.3	-

Analytical Report Number: 21-93449
Project / Site name: BY Kentish Town
Your Order No: GL24466

Lab Sample Number				1976193	1976194
Sample Reference				BH01	BH01
Sample Number				1	2
Depth (m)				0.50-0.50	1.00-1.00
Date Sampled				16/08/2021	16/08/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**		
Heavy Metals / Metalloids					
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	24	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	2.4	-
Boron (water soluble)	mg/kg	0.2	MCERTS	3.9	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.5	-
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	38	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	310	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	620	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.9	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	40	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	68	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	510	-
Petroleum Hydrocarbons					
TPH Texas (C6 - C8)	mg/kg	0.1	ISO 17025	I/S	-
TPH Texas (C8 - C10)	mg/kg	10	MCERTS	I/S	-
TPH Texas (C10 - C12)	mg/kg	1	MCERTS	10	-
TPH Texas (C12 - C16)	mg/kg	4	MCERTS	140	-
TPH Texas (C16 - C21)	mg/kg	10	MCERTS	380	-
TPH Texas (C21 - C40)	mg/kg	10	MCERTS	680	-
TPH Texas (C6 - C40)	mg/kg	10	NONE	1200	-

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 21-93449
Project / Site name: BY Kentish Town

* 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 *
1976193	BH01	1	0.50-0.50	Brown clay and loam with gravel and vegetation.
1976194	BH01	2	1.00-1.00	Brown loam and clay with gravel.

Analytical Report Number : 21-93449
Project / Site name: BY Kentish Town

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	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
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
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.	L019-UK/PL	D	NONE
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
TPH Texas (Soil)	Determination of dichloromethane/hexane extractable hydrocarbons in soil by GC-MS.	In-house method	L064-PL	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.	In house method.	L009-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' 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.

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Analytical Report Number : 21-93450

Project / Site name:	BY Kentish Town	**Samples received on:**	17/08/2021
Your job number:	GL24466	**Samples instructed on/ Analysis started on:**	17/08/2021
Your order number:	GL24466	**Analysis completed by:**	24/08/2021
Report Issue Number:	1	**Report issued on:**	24/08/2021
Samples Analysed:	1 10:1 WAC Sample		

Signed:

Joanna Wawrzeczko
Technical Reviewer (Reporting Team)
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

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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.

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Waste Acceptance Criteria Analytical Results

Report No:	**21-93450**						
					Client:	**HARRIGROUP**	
Location	**BY Kentish Town**						
Lab Reference (Sample Number)	1976195 / 1976196				**Landfill Waste Acceptance Criteria Limits**		
Sampling Date	16/08/2021				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	BH01 1						
Depth (m)	0.50-0.50						
Solid Waste Analysis							
TOC (%)**	3.9				3%	5%	6%
Loss on Ignition (%) **	11.6				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	0.045				1	--	--
Mineral Oil (mg/kg)	790				500	--	--
Total PAH (WAC-17) (mg/kg)	52.2				100	--	--
pH (units)**	8.6				--	>6	--
Acid Neutralisation Capacity (mol / kg)	5.7				--	To be evaluated	To be evaluated
Eluate Analysis	10:1			10:1	Limit values for compliance leaching test		
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	mg/l			mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	< 0.0010			< 0.0100	0.5	2	25
Barium *	0.0190			0.158	20	100	300
Cadmium *	< 0.0001			< 0.0008	0.04	1	5
Chromium *	0.0033			0.028	0.5	10	70
Copper *	0.013			0.11	2	50	100
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2
Molybdenum *	0.0026			0.0216	0.5	10	30
Nickel *	0.0040			0.033	0.4	10	40
Lead *	0.0070			0.058	0.5	10	50
Antimony *	0.011			0.089	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.020			0.17	4	50	200
Chloride *	3.7			31	800	15000	25000
Fluoride	2.0			17	10	150	500
Sulphate *	15			120	1000	20000	50000
TDS*	80			670	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	8.79			73.1	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.0						
Dry Matter (%)	89						
Moisture (%)	11						

Results are expressed on a dry weight basis, after correction for moisture content where applicable.
*= UKAS accredited (liquid eluate analysis only)
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation
** = MCERTS accredited

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Analytical Report Number : 21-93450
Project / Site name: BY Kentish Town

* 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 *
1976195	BH01	1	0.50-0.50	Brown clay and loam with gravel and vegetation.

Analytical Report Number : 21-93450
Project / Site name: BY Kentish Town

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BS EN 12457-2 (10:1) Leachate Prep	10:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-2.	L043-PL	W	NONE
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe.	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance""	L046-PL	W	NONE
Loss on ignition of soil @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace.	In house method.	L047-PL	D	MCERTS
Mineral Oil (Soil) C10 - C40	Determination of mineral oil fraction extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L076-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270. MCERTS accredited except Coronene.	L064-PL	D	NONE
PCB's By GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS
pH at 20oC in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In house method.	L005-PL	W	MCERTS
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.	L019-UK/PL	D	NONE
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
BTEX in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Total BTEX in soil (Poland)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073-PL	W	MCERTS
Metals in leachate by ICP-OES	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil""	L039-PL	W	ISO 17025
Chloride 10:1 WAC	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260.	L082-PL	W	ISO 17025
Fluoride 10:1 WAC	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination"	L033B-PL	W	ISO 17025
Sulphate 10:1 WAC	Determination of sulphate in leachate by ICP-OES	In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil""	L039-PL	W	ISO 17025
Total dissolved solids 10:1 WAC	Determination of total dissolved solids in water by EC probe using a factor of 0.6.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L004-PL	W	ISO 17025

Analytical Report Number : 21-93450
Project / Site name: BY Kentish Town

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Monohydric phenols 10:1 WAC	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Dissolved organic carbon 10:1 WAC	Determination of dissolved inorganic carbon in leachate by TOC/DOC NDIR Analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037-PL	W	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' 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.

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Analytical Report Number : 21-94362

Replaces Analytical Report Number: 21-94362, issue no. 1
Additional analysis undertaken.

Project / Site name:	BY Kentish Town	**Samples received on:**	20/08/2021
Your job number:	GL24466	**Samples instructed on/ Analysis started on:**	20/08/2021
Your order number:		**Analysis completed by:**	06/09/2021
Report Issue Number:	2	**Report issued on:**	06/09/2021
Samples Analysed:	2 soil samples		

Signed:

Zina Abdul Razzak
Senior Quality Specialist
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

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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: 21-94362
Project / Site name: BY Kentish Town

Lab Sample Number				1981199	1981200
Sample Reference				TP01	TP02
Sample Number				1	1
Depth (m)				0.60-0.60	0.50-0.50
Date Sampled				18/08/2021	18/08/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**		
Stone Content	%	0.1	NONE	< 0.1	-
Moisture Content	%	0.01	NONE	8.5	-
Total mass of sample received	kg	0.001	NONE	1.5	-
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Amosite	-
Asbestos in Soil	Type	N/A	ISO 17025	Detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	0.001	-
Asbestos Quantification Total	%	0.001	ISO 17025	0.001	-
General Inorganics					
pH - Automated	pH Units	N/A	MCERTS	11.4	-
Total Cyanide	mg/kg	1	MCERTS	< 1.0	-
Total Sulphate as SO4	mg/kg	50	MCERTS	3400	-
Sulphide	mg/kg	1	MCERTS	16	-
Total Organic Carbon (TOC)	%	0.1	MCERTS	1.5	-
Total Phenols					
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	-
Speciated PAHs					
Naphthalene	mg/kg	0.05	MCERTS	0.96	-
Acenaphthylene	mg/kg	0.05	MCERTS	0.08	-
Acenaphthene	mg/kg	0.05	MCERTS	0.87	-
Fluorene	mg/kg	0.05	MCERTS	0.77	-
Phenanthrene	mg/kg	0.05	MCERTS	7.4	-
Anthracene	mg/kg	0.05	MCERTS	1.8	-
Fluoranthene	mg/kg	0.05	MCERTS	8.0	-
Pyrene	mg/kg	0.05	MCERTS	7.0	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.8	-
Chrysene	mg/kg	0.05	MCERTS	2.2	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	2.7	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	1.3	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	2.6	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.5	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.45	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.7	-
Total PAH					
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	42.0	-
Heavy Metals / Metalloids					
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	25	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.6	-
Boron (water soluble)	mg/kg	0.2	MCERTS	2.8	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.7	-
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	33	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	190	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	210	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	43	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	54	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	390	-
Petroleum Hydrocarbons					
TPH Texas (C6 - C8)	mg/kg	0.1	ISO 17025	< 0.1	-

Analytical Report Number: 21-94362
Project / Site name: BY Kentish Town

Lab Sample Number				1981199	1981200
Sample Reference				TP01	TP02
Sample Number				1	1
Depth (m)				0.60-0.60	0.50-0.50
Date Sampled				18/08/2021	18/08/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**		
TPH Texas (C8 - C10)	mg/kg	10	MCERTS	< 10	-
TPH Texas (C10 - C12)	mg/kg	1	MCERTS	< 1.0	-
TPH Texas (C12 - C16)	mg/kg	4	MCERTS	5.1	-
TPH Texas (C16 - C21)	mg/kg	10	MCERTS	36	-
TPH Texas (C21 - C40)	mg/kg	10	MCERTS	120	-
TPH Texas (C6 - C40)	mg/kg	10	NONE	160	-

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: **21-94362**
Project / Site name: **BY Kentish Town**
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-PL 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
1981199	TP01	0.60-0.60	155	Loose Fibres	**Amosite**	0.001	**0.001**

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

Analytical Report Number : 21-94362
Project / Site name: BY Kentish Town

* 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 *
1981199	TP01	1	0.60-0.60	Brown loam and clay with gravel and vegetation.

Analytical Report Number : 21-94362
Project / Site name: BY Kentish Town

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	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
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
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.	L019-UK/PL	D	NONE
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
TPH Texas (Soil)	Determination of dichloromethane/hexane extractable hydrocarbons in soil by GC-MS.	In-house method	L064-PL	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.	In house method.	L009-PL	D	MCERTS
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' 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.

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Analytical Report Number : 21-96460

Replaces Analytical Report Number: 21-96460, issue no. 1
Client sampling date amended.

Project / Site name:	Big Yellow, Kentish Town	**Samples received on:**	01/09/2021
Your job number:	GL24466	**Samples instructed on/ Analysis started on:**	01/09/2021
Your order number:		**Analysis completed by:**	08/09/2021
Report Issue Number:	2	**Report issued on:**	08/09/2021
Samples Analysed:	2 water samples		

Signed: Karolina Marek

Karolina Marek
PL Head of Reporting Team
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

Excel copies of reports are only valid when accompanied by this PDF certificate.

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: 21-96460
Project / Site name: Big Yellow, Kentish Town

Lab Sample Number				1993578	1993579
Sample Reference				BH01	WS01
Sample Number				None Supplied	None Supplied
Depth (m)				8.00	3.00
Date Sampled				31/08/2021	31/08/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**		
General Inorganics					
pH	pH Units	N/A	ISO 17025	7.3	6.9
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	< 1.0	< 1.0
Free Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	< 1.0	< 1.0
Thiocyanate as SCN	µg/l	200	ISO 17025	250	250
Sulphate as SO4	mg/l	0.045	ISO 17025	1810	788
Total Sulphur	µg/l	15	NONE	600000	260000
Sulphide	µg/l	5	NONE	< 5.0	< 5.0
Phenols by HPLC					
Catechol	µg/l	0.5	NONE	< 0.5	< 0.5
Resorcinol	µg/l	0.5	NONE	< 0.5	< 0.5
Ethylphenol & Dimethylphenol	µg/l	0.5	NONE	< 0.5	< 0.5
Cresols	µg/l	0.5	NONE	< 0.5	< 0.5
Naphthols	µg/l	0.5	NONE	< 0.5	< 0.5
Isopropylphenol	µg/l	0.5	NONE	< 0.5	< 0.5
Phenol	µg/l	0.5	NONE	< 0.5	< 0.5
Trimethylphenol	µg/l	0.5	NONE	< 0.5	< 0.5
Total Phenols					
Total Phenols (HPLC)	µg/l	3.5	NONE	< 3.5	< 3.5
Speciated PAHs					
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Total PAH					
Total EPA-16 PAHs	µg/l	0.16	ISO 17025	< 0.16	< 0.16

Analytical Report Number: 21-96460
Project / Site name: Big Yellow, Kentish Town

Lab Sample Number				1993578	1993579
Sample Reference				BH01	WS01
Sample Number				None Supplied	None Supplied
Depth (m)				8.00	3.00
Date Sampled				31/08/2021	31/08/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**		
Heavy Metals / Metalloids					
Boron (dissolved)	µg/l	10	ISO 17025	1000	270
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0
Arsenic (dissolved)	µg/l	0.15	ISO 17025	7.95	2.35
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.03	< 0.02
Chromium (dissolved)	µg/l	0.2	ISO 17025	5.9	4.9
Copper (dissolved)	µg/l	0.5	ISO 17025	12	2.7
Lead (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2
Mercury (dissolved)	µg/l	0.05	ISO 17025	< 0.05	< 0.05
Nickel (dissolved)	µg/l	0.5	ISO 17025	11	5.2
Selenium (dissolved)	µg/l	0.6	ISO 17025	38	0.9
Zinc (dissolved)	µg/l	0.5	ISO 17025	14	7.4
Petroleum Hydrocarbons					
TPH1 (C10 - C40)	µg/l	10	NONE	< 10	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 21-96460
Project / Site name: Big Yellow, Kentish Town

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
Boron in water	Determination of boron in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM	L039-PL	W	ISO 17025
Phenols, speciated, in water, by HPLC	Determination of speciated phenols by HPLC.	In house method based on Blue Book Method.	L030-PL	W	NONE
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.	L080-PL	W	ISO 17025
Speciated EPA-16 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L102B-PL	W	ISO 17025
Sulphide in water	Determination of sulphide in water by ion selective electrode.	In-house method	L029-PL	W	NONE
Thiocyanate in water	Determination of thiocyanate in water by discreet analyser (colorimetry). Accredited matrices SW, GW, PW.	In house method based on SMWW 4500-CN-M. Accredited matrices: SW, PW, GW.	L082-PL	W	ISO 17025
Sulphate in water	Determination of sulphate in water after filtration by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Total Sulphur in water	Determination of total sulphur in water by acidification followed by ICP-OES.	In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil""	L039-PL	W	NONE
TPH1 (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS.	In-house method	L070-PL	W	NONE
Low level total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
pH at 20oC in water (automated)	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In house method.	L099-PL	W	ISO 17025
Free cyanide (low level) in water	Determination of free cyanide by distillation followed by colorimetry.Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' 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.

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Harrison Group Ltd
Unit 12 Waterways Business Centre
Navigation Drive
Enfield
EN3 6JJ

Attention :	James Blyth
Date :	1st October, 2021
Your reference :	GL24466
Our reference :	Test Report 21/14890 Batch 1
Location :	Big Yellow, Kentish Town
Date samples received :	24th September, 2021
Status :	Final report
Issue :	1

Three samples were received for analysis on 24th September, 2021 of which two were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:

Simon Gomery BSc
Project Manager

Element Materials Technology Environmental UK Limited
Registered in England and Wales
Registered Office: 10 Lower Grosvenor Place, London, SW1W 0EN
Company Registration No: 11371415

Element Materials Technology

Client Name: Harrison Group Ltd
Reference: GL24466
Location: Big Yellow, Kentish Town
Contact: James Blyth
EMT Job No: 21/14890

Report : Gas

EMT Sample No.	1	2											
Sample ID	GAS01-BH01	GAS01-BH03											
Depth													
COC No / misc													
Containers	BV	TB											
Sample Date	22/09/2021 15:30	22/09/2021 14:40											
Sample Type	Gas	Gas											
Batch Number	1	1											
Date of Receipt	24/09/2021	24/09/2021											

Please see attached notes for all abbreviations and acronyms

			LOD/LOR	Units	Method No.
Volatile Gases TICs USEPA	See Attached	-		None	TM68/PM0
Carbon Dioxide	3.60	5.44	<0.05	%	TM69/PM0
Carbon Monoxide	<0.05	<0.05	<0.05	%	TM69/PM0
Hydrogen	<0.5	<0.5	<0.5	%	TM69/PM0
Methane	<0.05	<0.05	<0.05	%	TM69/PM0
Methane	103	<5	<5	ppmV	TM69/PM0
Nitrogen	80.4	82.8	<0.5	%	TM69/PM0
Oxygen	16.0	11.7	<0.5	%	TM69/PM0

Element Materials Technology

Client Name: Harrison Group Ltd
Reference: GL24466
Location: Big Yellow, Kentish Town
Contact: James Blyth

Sample Date: 22 Sep 2021
Date of Receipt: 24 Sep 2021
Date Analysed: 1 Oct 2021

Sample ID: GAS01-BH01
Depth:
EMT Job No: 21/14890
EMT Sample No: 1
Matrix: Air
Method: TM68 VOCs in gases (GC-MS)

Canister Serial number: V 1169 0.55
Sample Train Serial number: ST-99

Q* - Qualifiers

B Indicates analyte found in associated method blank
++ Indicates value exceeds calibration range

Key

MDL Method Detection Limit
RL Reporting Limit
ISO 17025 (UKAS) accredited

Cas No	Molecular Weight		Compound	Q*	RESULT ppbv	RESULT ug/m^3	RL ppbv	MDL ppbv	RL ug/m^3	MDL ug/m^3
75-45-6	86.77		Chlorodifluoromethane (HCFC-22)		<2	<7	<2	<2	<7	<7
75-71-8	120.91		Dichlorodifluoromethane (F-12)		5.1	25.2	<2.5	<2.5	<12.4	<12.4
74-87-3	50.49		Chloromethane		<1.5	<3.1	<1.5	<1.5	<3.1	<3.1
76-14-2	170.92		1,2-Dichlorotetrafluoroethane (F-114)		<1.5	<10.5	<1.5	<1.5	<10.5	<10.5
115-11-7	56.12		Isobutene		<1.5	<3.4	<1.5	<1.5	<3.4	<3.4
106-99-0	54.09		1,3-Butadiene		<1.5	<3.3	<1.5	<1.5	<3.3	<3.3
74-83-9	94.95	#	Bromomethane		<1.5	<5.8	<1.5	<1.5	<5.8	<5.8
75-00-3	64.52	#	Chloroethane		<1.5	<4	<1.5	<1.5	<4	<4
64-17-5	46.07		Ethanol		<100	<188.4	<100	<100	<188.4	<188.4
75-05-8	41.05		Acetonitrile		<1.5	<2.5	<1.5	<1.5	<2.5	<2.5
107-02-8	56.06		Acrolein		<2.5	<5.7	<2.5	<2.5	<5.7	<5.7
	58.08		Acetone + Propanal		50	119	<6	<6	<14	<14
75-69-4	137.36	#	Trichlorofluoromethane (F-11)		9.3	52.2	<1.5	<1.5	<8.4	<8.4
67-63-0	60.09		2-Propanol		<6	<15	<6	<6	<15	<15
109-66-0	72.15		Pentane		<1.5	<4.4	<1.5	<1.5	<4.4	<4.4
78-79-5	68.12		Isoprene		<2	<6	<2	<2	<6	<6
74-88-4	141.94		Methyl Iodide		<1.5	<8.7	<1.5	<1.5	<8.7	<8.7
75-35-4	96.95	#	1,1-Dichloroethene (1,1 DCE)		<1.5	<5.9	<1.5	<1.5	<5.9	<5.9
75-09-2	84.94	#	Methylene Chloride		<14.4	<50	<14.4	<14.4	<50	<50
76-13-1	187.37	#	Trichlorotrifluoroethane		<1.5	<11.5	<1.5	<1.5	<11.5	<11.5
75-15-0	76.14		Carbon Disulfide		<1.5	<4.7	<1.5	<1.5	<4.7	<4.7
71-23-8	60.09		1-Propanol		<1.5	<3.7	<1.5	<1.5	<3.7	<3.7
78-85-3	70.09		Methylacrolein		<1.5	<4.3	<1.5	<1.5	<4.3	<4.3
75-34-3	98.97	#	1,1-Dichloroethane		<1.5	<6.1	<1.5	<1.5	<6.1	<6.1
287-92-3	70.14		Cyclopentane		<1.5	<4.3	<1.5	<1.5	<4.3	<4.3
78-94-4	70.09		Methyl Vinyl Ketone		<1.6	<4.6	<1.6	<1.6	<4.6	<4.6
1634-04-4	88.15		Methyl tertiary butyl ether		<1.5	<5.4	<1.5	<1.5	<5.4	<5.4
108-05-4	86.09		Vinyl Acetate		<1.5	<5.3	<1.5	<1.5	<5.3	<5.3
123-72-8	72.11		Butanal		<2	<6	<2	<2	<6	<6
78-93-3	72.1		2-Butanone (MEK)		<2	<6	<2	<2	<6	<6
156-59-2	96.94	#	cis-1,2-Dichloroethene		4	16	<1	<1	<4	<4
110-54-3	86.17		Hexane		7.5	26.4	<1.5	<1.5	<5.3	<5.3
67-66-3	119.39	#	Chloroform		2.2	10.7	<1.5	<1.5	<7.3	<7.3
107-06-2	98.96	#	1,2-Dichloroethane		<1.5	<6.1	<1.5	<1.5	<6.1	<6.1
71-55-6	133.42	#	1,1,1-Trichloroethane		1.6	8.7	<1.5	<1.5	<8.2	<8.2
71-36-3	74.12		1-Butanol		<3	<9	<3	<3	<9	<9
71-43-2	78.11	#	Benzene		1.6	5.1	<1.5	<1.5	<4.8	<4.8
56-23-5	153.84	#	Carbon Tetrachloride		<1.5	<9.4	<1.5	<1.5	<9.4	<9.4
110-82-7	84.16		Cyclohexane		<2	<7	<2	<2	<7	<7

Element Materials Technology

Client Name: Harrison Group Ltd
Reference: GL24466
Location: Big Yellow, Kentish Town
Contact: James Blyth

Sample Date: 22 Sep 2021
Date of Receipt: 24 Sep 2021
Date Analysed: 1 Oct 2021

Sample ID: GAS01-BH01
Depth:
EMT Job No: 21/14890
EMT Sample No: 1
Matrix: Air
Method: TM68 VOCs in gases (GC-MS)

Canister Serial number: V 1169 0.55
Sample Train Serial number: ST-99

Q* - Qualifiers

B Indicates analyte found in associated method blank
++ Indicates value exceeds calibration range

Key

MDL Method Detection Limit
RL Reporting Limit
ISO 17025 (UKAS) accredited

Cas No	Molecular Weight		Compound	Q*	RESULT	RESULT	RL	MDL	RL	MDL
					ppbv	ug/m^3	ppbv	ppbv	ug/m^3	ug/m^3
107-87-9	86.13		2-Pentanone		<1.5	<5.3	<1.5	<1.5	<5.3	<5.3
110-62-3	86.13		Pentanal		<1.5	<5.3	<1.5	<1.5	<5.3	<5.3
96-22-0	86.13		3-Pentanone		<1.5	<5.3	<1.5	<1.5	<5.3	<5.3
78-87-5	112.99	#	1,2-Dichloropropane		<1.5	<6.9	<1.5	<1.5	<6.9	<6.9
75-27-4	163.83		Bromodichloromethane		<1.5	<10.1	<1.5	<1.5	<10.1	<10.1
123-91-1	88.11		1,4-Dioxane		<2	<7	<2	<2	<7	<7
79-01-6	131.4	#	Trichloroethene (TCE)	>>	2347.7	12616.6	<1.5	<1.5	<8.1	<8.1
10061-01-5	110.97	#	cis-1,3-Dichloropropene		<1.5	<6.8	<1.5	<1.5	<6.8	<6.8
108-10-1	100.16		4-Methyl-2-pentanone		<1.5	<6.1	<1.5	<1.5	<6.1	<6.1
10061-02-6	110.97	#	trans-1,3-Dichloropropene		<1.5	<6.8	<1.5	<1.5	<6.8	<6.8
79-00-5	133.4	#	1,1,2-Trichloroethane		<1.5	<8.2	<1.5	<1.5	<8.2	<8.2
108-88-3	92.13	#	Toluene		8.7	32.8	<1.5	<1.5	<5.7	<5.7
589-38-8	100.16		3-Hexanone		<1.5	<6.1	<1.5	<1.5	<6.1	<6.1
591-78-6	100.16		2-Hexanone		<1.5	<6.1	<1.5	<1.5	<6.1	<6.1
66-25-1	100.16		Hexanal		<1.5	<6.1	<1.5	<1.5	<6.1	<6.1
106-93-4	187.86	#	1,2-Dibromoethane		<1.5	<11.5	<1.5	<1.5	<11.5	<11.5
127-18-4	165.85	#	Tetrachloroethene (PCE)		<1.5	<10.2	<1.5	<1.5	<10.2	<10.2
108-90-7	112.56	#	Chlorobenzene		<1.5	<6.9	<1.5	<1.5	<6.9	<6.9
100-41-4	106.16	#	Ethylbenzene		<1.5	<6.5	<1.5	<1.5	<6.5	<6.5
179601-23-1	106.17	#	m/p-Xylene		2.3	10	<1.5	<1.5	<6.5	<6.5
75-25-2	252.77		Bromoform		<1.5	<15.5	<1.5	<1.5	<15.5	<15.5
100-42-5	104.14	#	Styrene		<1.5	<6.4	<1.5	<1.5	<6.4	<6.4
79-34-5	167.85	#	1,1,2,2-Tetrachloroethane		<1.5	<10.3	<1.5	<1.5	<10.3	<10.3
95-47-6	106.17	#	o-Xylene		<1.5	<6.5	<1.5	<1.5	<6.5	<6.5
108-67-8	120.2	#	1,3,5-Trimethylbenzene		<1.5	<7.4	<1.5	<1.5	<7.4	<7.4
95-63-6	120.19	#	1,2,4-Trimethylbenzene		<1.5	<7.4	<1.5	<1.5	<7.4	<7.4
541-73-1	147.01	#	1,3-Dichlorobenzene		<1.5	<9	<1.5	<1.5	<9	<9
100-44-7	126.58		Benzyl Chloride		<1.5	<7.8	<1.5	<1.5	<7.8	<7.8
106-46-7	147.01	#	1,4-Dichlorobenzene		<1.5	<9	<1.5	<1.5	<9	<9
526-73-8	120.2		1,2,3-Trimethylbenzene		<1.5	<7.4	<1.5	<1.5	<7.4	<7.4
95-50-1	147	#	1,2-Dichlorobenzene		<1.5	<9	<1.5	<1.5	<9	<9
120-82-1	181.46		1,2,4-Trichlorobenzene		<1.5	<11.1	<1.5	<1.5	<11.1	<11.1
91-20-3	128.17		Naphthalene		0.54	2.8	<0.32	<0.32	<1.7	<1.7
			Sum of VOC TO15 compounds		2440.54	12925.5				
460-00-4			4-Bromofluorobenzene Surrogate Recovery		98%		0%	0%		
75-01-4	62.5	#	Vinyl Chloride		<1.5	<3.8	<1.5	<1.5	<3.8	<3.8
	81		Aliphatic >C4-C6		21	70	<10	<10	<33	<33
	100		Aliphatic >C6-C8		90	368	<10	<10	<41	<41
	130		Aliphatic >C8-C10		44	234	<10	<10	<53	<53

Element Materials Technology

Client Name: Harrison Group Ltd
Reference: GL24466
Location: Big Yellow, Kentish Town
Contact: James Blyth

Sample Date: 22 Sep 2021
Date of Receipt: 24 Sep 2021
Date Analysed: 1 Oct 2021

Sample ID: GAS01-BH01
Depth:
EMT Job No: 21/14890
EMT Sample No: 1
Matrix: Air
Method: TM68 VOCs in gases (GC-MS)

Canister Serial number: V 1169 0.55
Sample Train Serial number: ST-99

Q* - Qualifiers

B	Indicates analyte found in associated method blank
++	Indicates value exceeds calibration range

Key

MDL	Method Detection Limit
RL	Reporting Limit
#	ISO 17025 (UKAS) accredited

Cas No	Molecular Weight	Compound	Q*	RESULT ppbv	RESULT ug/m^3	RL ppbv	MDL ppbv	RL ug/m^3	MDL ug/m^3
	160	Aliphatic >C10-C12		**44**	**288**	<10	<10	<65	<65
	78.11	Aromatic >C5-EC7 (Benzene)		**1.6**	**5.1**	<1.5	<1.5	<4.8	<4.8
	92.13	Aromatic >EC7-EC8 (Toluene)		**8.7**	**32.8**	<1.5	<1.5	<5.7	<5.7
	120	Aromatic >EC8-EC10		**<10**	**<49**	<10	<10	<49	<49
	130	Aromatic >EC10-EC12		**<10**	**<53**	<10	<10	<53	<53

Job number: 21/14890
Sample number: 1
Sample identity: GAS01-BH01
Sample depth:
Sample Type: Gas
Units: ppbv

Method: VOC
Matrix: Gas

Note: Only samples with TICs (if requested) are reported. If TICs were requested but no compounds found they are not reported.

CAS No.	Tentative Compound Identification	Retention Time (minutes)	% Match	Concentration
111-65-9	Octane	15.694	90	25

All solid results are expressed on a dry weight basis unless stated otherwise.

Client Name: Harrison Group Ltd
Reference: GL24466
Location: Big Yellow, Kentish Town
Contact: James Blyth

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analysis	Reason
No deviating sample report results for job 21/14890						

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating.
Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 21/14890

SOILS

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overesitimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.
Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above calibration range, the result should be considered the minimum value. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

EMT Job No: 21/14890

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/SANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM68	Modified TO-15 method. Volatile Organic Compounds (VOCs) sampled using Gas Canisters, BottleVacs or Tedlar bags and analysed using Entech GC-MS.	PM0	No preparation is required.				
TM68	Modified TO-15 method. Volatile Organic Compounds (VOCs) sampled using Gas Canisters, BottleVacs or Tedlar bags and analysed using Entech GC-MS.	PM0	No preparation is required.	Yes			
TM69	Analysis of gas samples by direct injection onto a Gas Chromatography (GC) column and analysed using a Flame Ionisation Detector (FID) or a Thermocouple Detector (TD)	PM0	No preparation is required.				

APPENDIX F

RIG CERTIFICATES

SPT Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

Southern Testing
Unit 11
Charlwood Road
East Grinstead
West Sussex
RH19 2HU

SPT Hammer Ref:	DART312
Test Date:	06/08/2020
Report Date:	06/08/2020
File Name:	DART312.spt
Test Operator:	NPB

Instrumented Rod Data

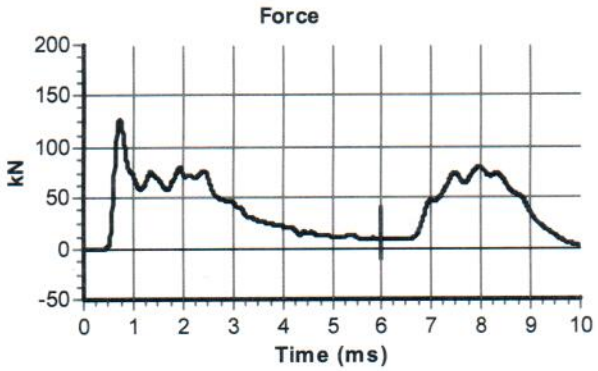
Diameter d_r (mm):	54
Wall Thickness t_r (mm):	6.3
Assumed Modulus E_a (GPa):	208
Accelerometer No.1:	6458
Accelerometer No.2:	9607

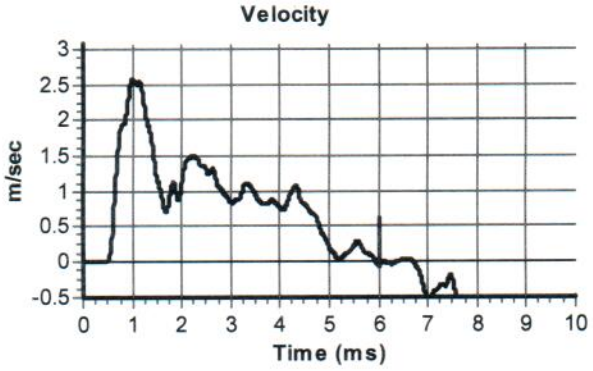
SPT Hammer Information

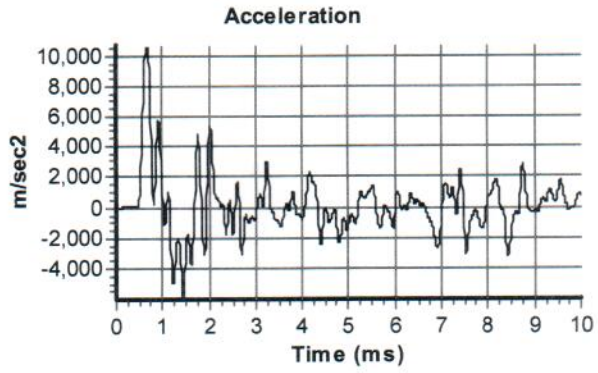
Hammer Mass m (kg):	63.5
Falling Height h (mm):	760
SPT String Length L (m):	14.5

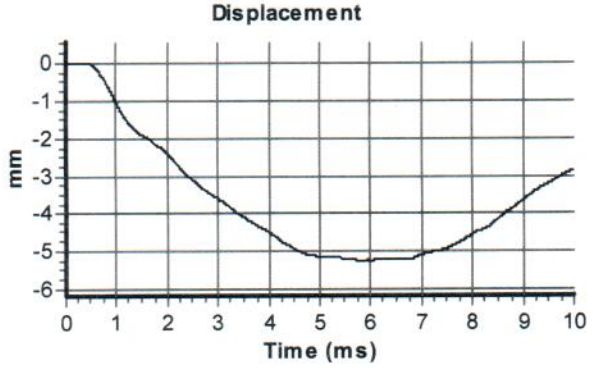
Comments / Location

CHARLWOODS









Calculations

Area of Rod A (mm2):	944
Theoretical Energy E_{theor} (J):	473
Measured Energy E_{meas} (J):	303

Energy Ratio E_r (%): **64**

Signed: Lisa Baker pp
Title: Assistant Field Operations Manager

The recommended calibration interval is 12 months

SPT Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

Southern Testing
Unit 11
Charlwood Road
East Grinstead
West Sussex
RH19 2HU

SPT Hammer Ref:	MOD.09
Test Date:	16/07/2021
Report Date:	16/07/2021
File Name:	MOD.09.spt
Test Operator:	GC

Instrumented Rod Data

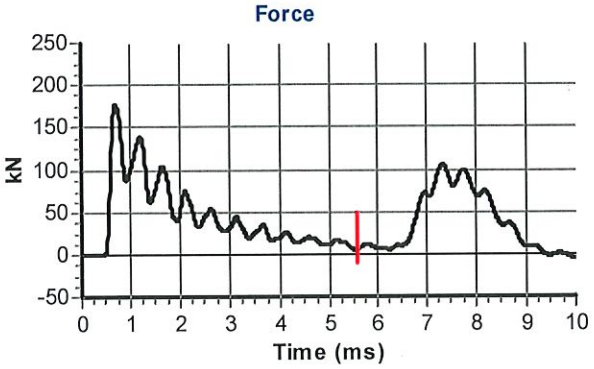
Diameter d_r (mm):	54
Wall Thickness t_r (mm):	6.6
Assumed Modulus E_a (GPa):	208
Accelerometer No.1:	64786
Accelerometer No.2:	64789

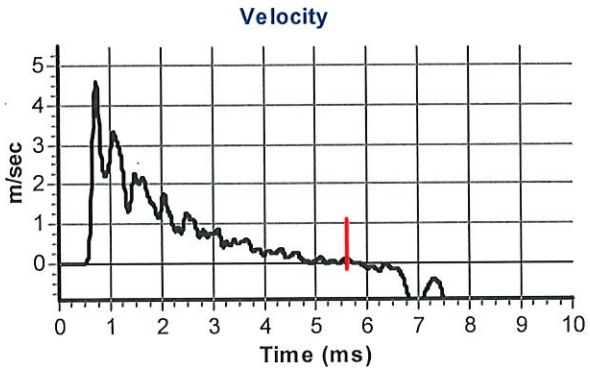
SPT Hammer Information

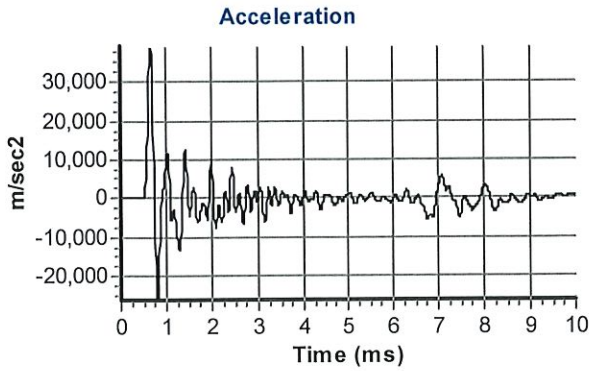
Hammer Mass m (kg):	63.5
Falling Height h (mm):	760
SPT String Length L (m):	14.5

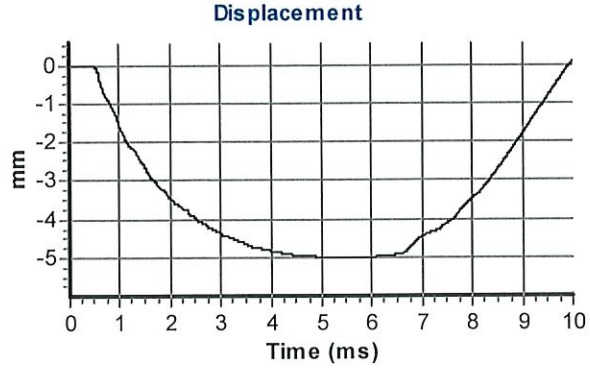
Comments / Location

CHARLWOODS









Calculations

Area of Rod A (mm2):	983
Theoretical Energy E_{theor} (J):	473
Measured Energy E_{meas} (J):	449

Energy Ratio E_r (%): **95**

Signed: G Crane

Title: Field Tech

The recommended calibration interval is 12 months

S I Drilling
Cable Percussion Ltd

SPT Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

SPT Hammer Ref:	01
Test Date:	23/12/2020
Report Date:	04/01/2021
File Name:	BM01.spt
Test Operator:	MC

Instrumented Rod Data

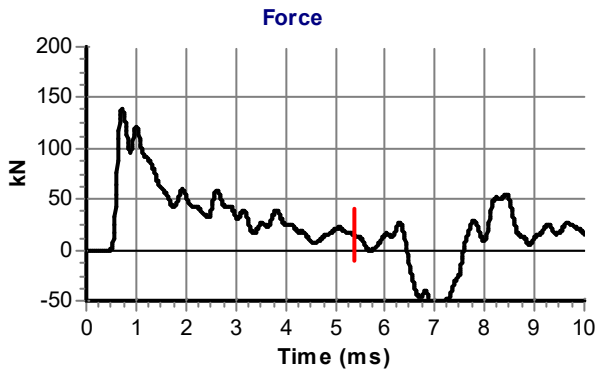
Diameter d_r (mm):	54
Wall Thickness t_r (mm):	6.4
Assumed Modulus E_a (GPa):	208
Accelerometer No.1:	63177
Accelerometer No.2:	63178

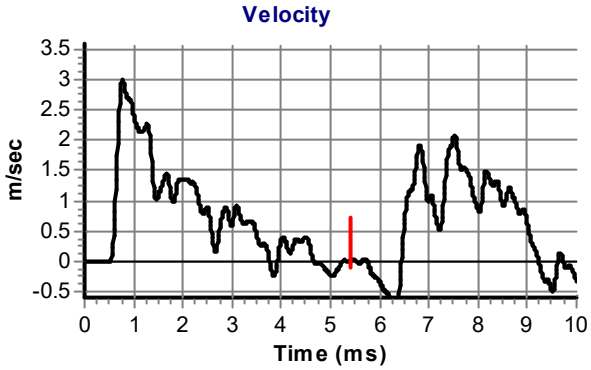
SPT Hammer Information

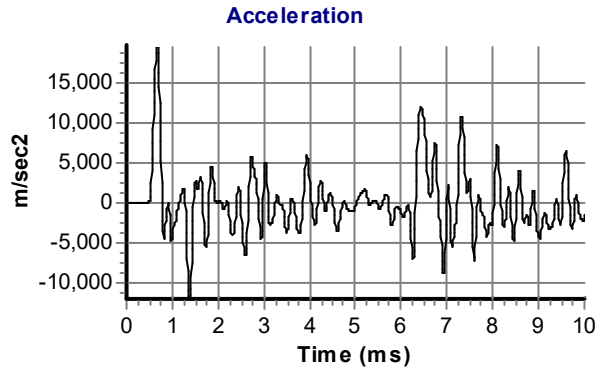
Hammer Mass m (kg):	63.5
Falling Height h (mm):	760
SPT String Length L (m):	12.6

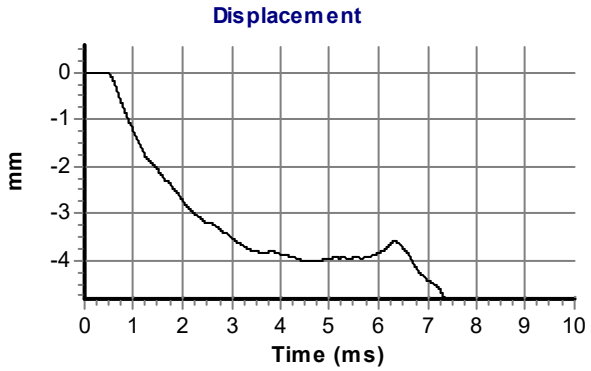
Comments / Location

JMD YARD









Calculations

Area of Rod A (mm2):	957
Theoretical Energy E_{theor} (J):	473
Measured Energy E_{meas} (J):	289

Energy Ratio E_r (%): **61**

Signed: Richard Walter

Title: Drilling Manager

S I Drilling
Cable Percussion Ltd

SPT Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

SPT Hammer Ref:	09
Test Date:	23/12/2020
Report Date:	04/01/2021
File Name:	BM09.spt
Test Operator:	MC

Instrumented Rod Data

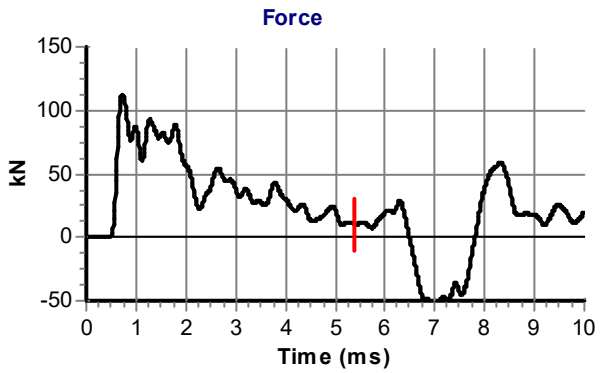
Diameter d_r (mm):	54
Wall Thickness t_r (mm):	6.4
Assumed Modulus E_a (GPa):	208
Accelerometer No.1:	63177
Accelerometer No.2:	63178

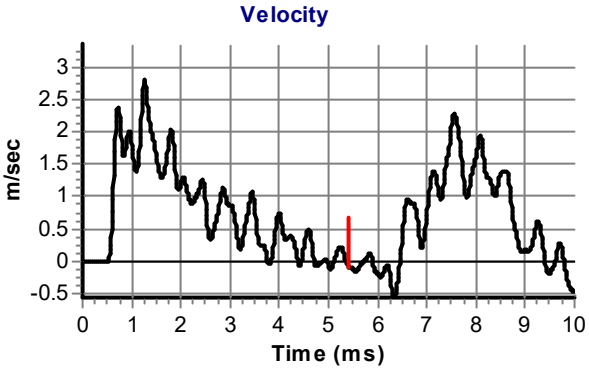
SPT Hammer Information

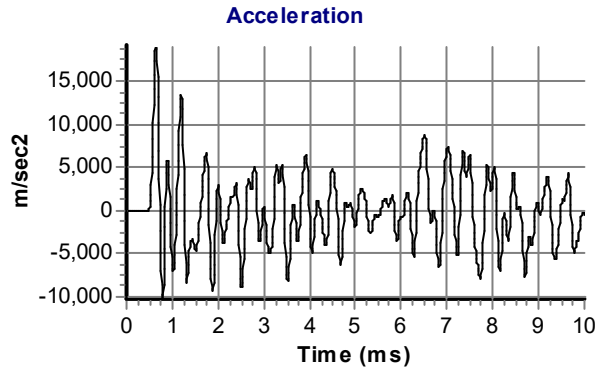
Hammer Mass m (kg):	63.5
Falling Height h (mm):	760
SPT String Length L (m):	12.6

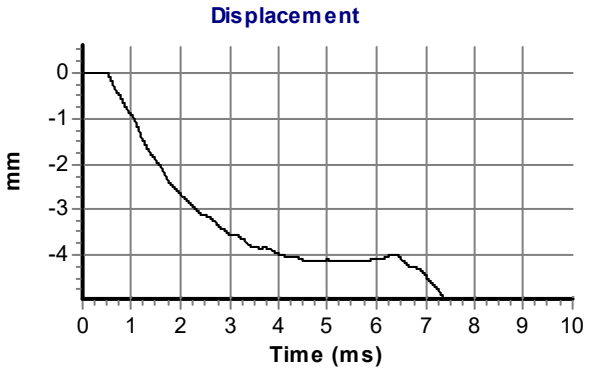
Comments / Location

JMD YARD









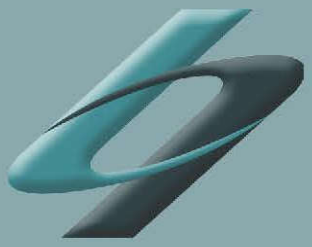
Calculations

Area of Rod A (mm2):	957
Theoretical Energy E_{theor} (J):	473
Measured Energy E_{meas} (J):	282

Energy Ratio E_r (%): **60**

Signed: Richard Walter

Title: Drilling Manager



Norwich (Registered Office)

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Norwich
Norfolk
NR2 2RJ

Tel: 01603 613111

London

12 Waterways Business Centre
Navigation Drive
South Ordnance Road
Enfield, EN3 6JJ

Tel: 020 7537 9233

Cambridge

1 Francis Court
High Ditch Road
Fen Ditton, Cambridge
CB5 8TE

Tel: 01223 781585

Colchester

Colchester Business Centre
1 George Williams Way
Colchester
CO1 2JS

Tel: 01206 986675

Appendix D: Hazardous Properties Assessment

CampbellReith consulting engineers

HazWasteOnline™

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

a) understand the origin of the waste
b) select the correct List of Waste code(s)
c) confirm that the list of determinands, results and sampling plan are fit for purpose
d) select and justify the chosen metal species (Appendix B)
e) correctly apply moisture correction and other available corrections
f) add the meta data for their user-defined substances (Appendix A)
g) check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in pale yellow.

7FBVQ-IOOCP-KS3L0

Job name

Big Yellow - Kentish Town

Description/Comments

Project

13675 - BY Kentish Town

Site

Classified by

Name:
Samantha Broughton
Date:
30 Sep 2021 14:11 GMT
Telephone:

Company:
Campbell Reith Consulting Engineers

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification: -

Course	Date
Hazardous Waste Classification	-

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	BH01 (0.5)		Hazardous	HP 3(i), HP 7, HP 11	2
2	BH02 (0.6)		Non Hazardous		5
3	BH03 (0.45)		Non Hazardous		7
4	SSS01 (0.2)		Non Hazardous		9
5	SSS02 (0.2)		Non Hazardous		11
6	TP01 (0.6)		Non Hazardous		13
7	WS01 (0.2)		Non Hazardous		15
8	WS02 (0.3)		Non Hazardous		17
9	WS03 (1)		Non Hazardous		19

Related documents

#	Name	Description
1	Example waste stream template for contaminated soils	waste stream template used to create this Job

Report

Created by: Samantha Broughton

Created date: 30 Sep 2021 14:11 GMT

Classification of sample: BH01 (0.5)

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:
BH01 (0.5)
Moisture content:
11%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.108%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.108%)

Hazard properties (substances considered hazardous until shown otherwise)

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.108%)

Determinands

Moisture content: 11% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		24 mg/kg	1.32	28.548 mg/kg	0.00285 %	✓	
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		2.4 mg/kg	2.775	6.001 mg/kg	0.0006 %	✓	
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		3.9 mg/kg	3.22	11.313 mg/kg	0.00113 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.5 mg/kg	1.142	1.544 mg/kg	0.000154 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
5		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<4	mg/kg	2.27	<9.08	mg/kg	<0.000908 %		<**LOD**
		024-017-00-8											
6		copper { dicopper oxide; copper (I) oxide }				310	mg/kg	1.126	314.437	mg/kg	0.0314 %	✓	
		029-002-00-X	215-270-7	1317-39-1									
7		lead { lead chromate }			1	620	mg/kg	1.56	871.248	mg/kg	0.0559 %	✓	
		082-004-00-2	231-846-0	7758-97-6									
8		mercury { mercury dichloride }				0.9	mg/kg	1.353	1.097	mg/kg	0.00011 %	✓	
		080-010-00-X	231-299-8	7487-94-7									
9		nickel { nickel chromate }				40	mg/kg	2.976	107.253	mg/kg	0.0107 %	✓	
		028-035-00-7	238-766-5	14721-18-7									
10		selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
		028-031-00-5	239-125-2	15060-62-5									
11		zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				510	mg/kg	4.398	2020.669	mg/kg	0.202 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
12		TPH (C6 to C40) petroleum group				1200	mg/kg		1081.081	mg/kg	0.108 %	✓	
				TPH									
13		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
14		pH				9	pH		9	pH	9pH		
				PH									
15		naphthalene				1.4	mg/kg		1.261	mg/kg	0.000126 %	✓	
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				0.21	mg/kg		0.189	mg/kg	0.0000189 %	✓	
			205-917-1	208-96-8									
17		acenaphthene				2.1	mg/kg		1.892	mg/kg	0.000189 %	✓	
			201-469-6	83-32-9									
18		fluorene				1.6	mg/kg		1.441	mg/kg	0.000144 %	✓	
			201-695-5	86-73-7									
19		phenanthrene				8.1	mg/kg		7.297	mg/kg	0.00073 %	✓	
			201-581-5	85-01-8									
20		anthracene				1.7	mg/kg		1.532	mg/kg	0.000153 %	✓	
			204-371-1	120-12-7									
21		fluoranthene				9.8	mg/kg		8.829	mg/kg	0.000883 %	✓	
			205-912-4	206-44-0									
22		pyrene				9.1	mg/kg		8.198	mg/kg	0.00082 %	✓	
			204-927-3	129-00-0									
23		benzo[a]anthracene				4.7	mg/kg		4.234	mg/kg	0.000423 %	✓	
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				3.1	mg/kg		2.793	mg/kg	0.000279 %	✓	
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				4	mg/kg		3.604	mg/kg	0.00036 %	✓	
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				1.8	mg/kg		1.622	mg/kg	0.000162 %	✓	
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				3.5	mg/kg		3.153	mg/kg	0.000315 %	✓	
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				1.7	mg/kg		1.532	mg/kg	0.000153 %	✓	
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.54	mg/kg		0.486	mg/kg	0.0000486 %	✓	
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				2	mg/kg		1.802	mg/kg	0.00018 %	✓	
			205-883-8	191-24-2									
										Total:	0.419 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH02 (0.6)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH02 (0.6)
Moisture content:
17%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	arsenic { arsenic trioxide } 033-003-00-0 / 215-481-4 / 1327-53-3		14 mg/kg	1.32	15.799 mg/kg	0.00158 %	✓	
2	beryllium { beryllium oxide } 004-003-00-8 / 215-133-1 / 1304-56-9		1.4 mg/kg	2.775	3.321 mg/kg	0.000332 %	✓	
3	boron { diboron trioxide; boric oxide } 005-008-00-8 / 215-125-8 / 1303-86-2		3.9 mg/kg	3.22	10.733 mg/kg	0.00107 %	✓	
4	cadmium { cadmium oxide } 048-002-00-0 / 215-146-2 / 1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<**LOD**
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex } 024-017-00-8		<4 mg/kg	2.27	<9.08 mg/kg	<0.000908 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide } 029-002-00-X / 215-270-7 / 1317-39-1		70 mg/kg	1.126	67.361 mg/kg	0.00674 %	✓	
7	lead { lead chromate } 082-004-00-2 / 231-846-0 / 7758-97-6	1	180 mg/kg	1.56	239.972 mg/kg	0.0154 %	✓	
8	mercury { mercury dichloride } 080-010-00-X / 231-299-8 / 7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<**LOD**
9	nickel { nickel chromate } 028-035-00-7 / 238-766-5 / 14721-18-7		33 mg/kg	2.976	83.946 mg/kg	0.00839 %	✓	
10	selenium { nickel selenate } 028-031-00-5 / 239-125-2 / 15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] } 030-006-00-9 / 231-793-3 [1] 231-793-3 [2] / 7446-19-7 [1] 7733-02-0 [2]		110 mg/kg	4.398	413.48 mg/kg	0.0413 %	✓	
12	TPH (C6 to C40) petroleum group TPH		160 mg/kg		136.752 mg/kg	0.0137 %	✓	
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5		<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<**LOD**
14	pH PH		8.5 pH		8.5 pH	8.5 pH		
15	naphthalene 601-052-00-2 / 202-049-5 / 91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
16		acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				0.68	mg/kg		0.581	mg/kg	0.0000581 %	✓	
			201-581-5	85-01-8									
20		anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				1.2	mg/kg		1.026	mg/kg	0.000103 %	✓	
			205-912-4	206-44-0									
22		pyrene				1.1	mg/kg		0.94	mg/kg	0.000094 %	✓	
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.76	mg/kg		0.65	mg/kg	0.000065 %	✓	
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.7	mg/kg		0.598	mg/kg	0.0000598 %	✓	
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.8	mg/kg		0.684	mg/kg	0.0000684 %	✓	
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.53	mg/kg		0.453	mg/kg	0.0000453 %	✓	
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.69	mg/kg		0.59	mg/kg	0.000059 %	✓	
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.34	mg/kg		0.291	mg/kg	0.0000291 %	✓	
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.39	mg/kg		0.333	mg/kg	0.0000333 %	✓	
			205-883-8	191-24-2									
										Total:	0.0906 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because No obvious sources of materials capable of ignition during exploratory work

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0137%)

Classification of sample: BH03 (0.45)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH03 (0.45)
Moisture content:
12%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 12% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	arsenic { arsenic trioxide }		15 mg/kg	1.32	17.683 mg/kg	0.00177 %	✓	
	033-003-00-0 / 215-481-4 / 1327-53-3							
2	beryllium { beryllium oxide }		1.7 mg/kg	2.775	4.213 mg/kg	0.000421 %	✓	
	004-003-00-8 / 215-133-1 / 1304-56-9							
3	boron { diboron trioxide; boric oxide }		0.7 mg/kg	3.22	2.012 mg/kg	0.000201 %	✓	
	005-008-00-8 / 215-125-8 / 1303-86-2							
4	cadmium { cadmium oxide }		0.5 mg/kg	1.142	0.51 mg/kg	0.000051 %	✓	
	048-002-00-0 / 215-146-2 / 1306-19-0							
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }		<4 mg/kg	2.27	<9.08 mg/kg	<0.000908 %		<**LOD**
	024-017-00-8							
6	copper { dicopper oxide; copper (I) oxide }		180 mg/kg	1.126	180.946 mg/kg	0.0181 %	✓	
	029-002-00-X / 215-270-7 / 1317-39-1							
7	lead { lead chromate }	1	260 mg/kg	1.56	362.1 mg/kg	0.0232 %	✓	
	082-004-00-2 / 231-846-0 / 7758-97-6							
8	mercury { mercury dichloride }		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<**LOD**
	080-010-00-X / 231-299-8 / 7487-94-7							
9	nickel { nickel chromate }		25 mg/kg	2.976	66.434 mg/kg	0.00664 %	✓	
	028-035-00-7 / 238-766-5 / 14721-18-7							
10	selenium { nickel selenate }		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
	028-031-00-5 / 239-125-2 / 15060-62-5							
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }		150 mg/kg	4.398	589.008 mg/kg	0.0589 %	✓	
	030-006-00-9 / 231-793-3 [1] 231-793-3 [2] / 7446-19-7 [1] 7733-02-0 [2]							
12	TPH (C6 to C40) petroleum group		370 mg/kg		330.357 mg/kg	0.033 %	✓	
	/ / TPH							
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }		<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<**LOD**
	006-007-00-5							
14	pH		9.3 pH		9.3 pH	9.3 pH		
	/ / PH							
15	naphthalene		0.45 mg/kg		0.402 mg/kg	0.0000402 %	✓	
	601-052-00-2 / 202-049-5 / 91-20-3							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
16		acenaphthylene				0.32	mg/kg		0.286	mg/kg	0.0000286 %	✓	
			205-917-1	208-96-8									
17		acenaphthene				0.27	mg/kg		0.241	mg/kg	0.0000241 %	✓	
			201-469-6	83-32-9									
18		fluorene				0.66	mg/kg		0.589	mg/kg	0.0000589 %	✓	
			201-695-5	86-73-7									
19		phenanthrene				4.4	mg/kg		3.929	mg/kg	0.000393 %	✓	
			201-581-5	85-01-8									
20		anthracene				1.2	mg/kg		1.071	mg/kg	0.000107 %	✓	
			204-371-1	120-12-7									
21		fluoranthene				5.2	mg/kg		4.643	mg/kg	0.000464 %	✓	
			205-912-4	206-44-0									
22		pyrene				4.7	mg/kg		4.196	mg/kg	0.00042 %	✓	
			204-927-3	129-00-0									
23		benzo[a]anthracene				3.4	mg/kg		3.036	mg/kg	0.000304 %	✓	
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				3	mg/kg		2.679	mg/kg	0.000268 %	✓	
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				3.4	mg/kg		3.036	mg/kg	0.000304 %	✓	
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				1.4	mg/kg		1.25	mg/kg	0.000125 %	✓	
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				3	mg/kg		2.679	mg/kg	0.000268 %	✓	
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				1.6	mg/kg		1.429	mg/kg	0.000143 %	✓	
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.47	mg/kg		0.42	mg/kg	0.000042 %	✓	
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				1.7	mg/kg		1.518	mg/kg	0.000152 %	✓	
			205-883-8	191-24-2									
										Total:	0.147 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because No obvious sources of materials capable of ignition during exploratory work

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.033%)

Classification of sample: SSS01 (0.2)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
SSS01 (0.2)
Moisture content:
16%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	arsenic { arsenic trioxide }		15 mg/kg	1.32	17.073 mg/kg	0.00171 %	✓	
	033-003-00-0 / 215-481-4 / 1327-53-3							
2	beryllium { beryllium oxide }		1 mg/kg	2.775	2.393 mg/kg	0.000239 %	✓	
	004-003-00-8 / 215-133-1 / 1304-56-9							
3	boron { diboron trioxide; boric oxide }		1.2 mg/kg	3.22	3.331 mg/kg	0.000333 %	✓	
	005-008-00-8 / 215-125-8 / 1303-86-2							
4	cadmium { cadmium oxide }		0.7 mg/kg	1.142	0.689 mg/kg	0.0000689 %	✓	
	048-002-00-0 / 215-146-2 / 1306-19-0							
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }		<4 mg/kg	2.27	<9.08 mg/kg	<0.000908 %		<LOD
	024-017-00-8 / /							
6	copper { dicopper oxide; copper (I) oxide }		70 mg/kg	1.126	67.942 mg/kg	0.00679 %	✓	
	029-002-00-X / 215-270-7 / 1317-39-1							
7	lead { lead chromate }	1	130 mg/kg	1.56	174.807 mg/kg	0.0112 %	✓	
	082-004-00-2 / 231-846-0 / 7758-97-6							
8	mercury { mercury dichloride }		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X / 231-299-8 / 7487-94-7							
9	nickel { nickel chromate }		26 mg/kg	2.976	66.709 mg/kg	0.00667 %	✓	
	028-035-00-7 / 238-766-5 / 14721-18-7							
10	selenium { nickel selenate }		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5 / 239-125-2 / 15060-62-5							
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }		140 mg/kg	4.398	530.784 mg/kg	0.0531 %	✓	
	030-006-00-9 / 231-793-3 [1] 231-793-3 [2] / 7446-19-7 [1] 7733-02-0 [2]							
12	TPH (C6 to C40) petroleum group		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
	/ / TPH							
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }		<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
	006-007-00-5 / /							
14	pH		8.2 pH		8.2 pH	8.2 pH		
	/ / PH							
15	naphthalene		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2 / 202-049-5 / 91-20-3							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
16		acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				0.33	mg/kg		0.284	mg/kg	0.0000284 %	✓	
			201-581-5	85-01-8									
20		anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				0.7	mg/kg		0.603	mg/kg	0.0000603 %	✓	
			205-912-4	206-44-0									
22		pyrene				0.64	mg/kg		0.552	mg/kg	0.0000552 %	✓	
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.51	mg/kg		0.44	mg/kg	0.000044 %	✓	
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.44	mg/kg		0.379	mg/kg	0.0000379 %	✓	
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.57	mg/kg		0.491	mg/kg	0.0000491 %	✓	
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.21	mg/kg		0.181	mg/kg	0.0000181 %	✓	
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.62	mg/kg		0.534	mg/kg	0.0000534 %	✓	
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.28	mg/kg		0.241	mg/kg	0.0000241 %	✓	
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.45	mg/kg		0.388	mg/kg	0.0000388 %	✓	
			205-883-8	191-24-2									
										Total:	0.0829 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: SSS02 (0.2)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
SSS02 (0.2)
Moisture content:
17%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	arsenic { arsenic trioxide }		16 mg/kg	1.32	18.056 mg/kg	0.00181 %	✓	
	033-003-00-0 / 215-481-4 / 1327-53-3							
2	beryllium { beryllium oxide }		1.1 mg/kg	2.775	2.609 mg/kg	0.000261 %	✓	
	004-003-00-8 / 215-133-1 / 1304-56-9							
3	boron { diboron trioxide; boric oxide }		0.7 mg/kg	3.22	1.926 mg/kg	0.000193 %	✓	
	005-008-00-8 / 215-125-8 / 1303-86-2							
4	cadmium { cadmium oxide }		0.6 mg/kg	1.142	0.586 mg/kg	0.0000586 %	✓	
	048-002-00-0 / 215-146-2 / 1306-19-0							
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }		<4 mg/kg	2.27	<9.08 mg/kg	<0.000908 %		<LOD
	024-017-00-8							
6	copper { dicopper oxide; copper (I) oxide }		26 mg/kg	1.126	25.02 mg/kg	0.0025 %	✓	
	029-002-00-X / 215-270-7 / 1317-39-1							
7	lead { lead chromate }	1	74 mg/kg	1.56	98.655 mg/kg	0.00632 %	✓	
	082-004-00-2 / 231-846-0 / 7758-97-6							
8	mercury { mercury dichloride }		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X / 231-299-8 / 7487-94-7							
9	nickel { nickel chromate }		22 mg/kg	2.976	55.964 mg/kg	0.0056 %	✓	
	028-035-00-7 / 238-766-5 / 14721-18-7							
10	selenium { nickel selenate }		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5 / 239-125-2 / 15060-62-5							
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }		91 mg/kg	4.398	342.061 mg/kg	0.0342 %	✓	
	030-006-00-9 / 231-793-3 [1] 231-793-3 [2] / 7446-19-7 [1] 7733-02-0 [2]							
12	TPH (C6 to C40) petroleum group		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
	/ / TPH							
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }		<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
	006-007-00-5							
14	pH		6.9 pH		6.9 pH	6.9 pH		
	/ / PH							
15	naphthalene		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2 / 202-049-5 / 91-20-3							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
16		acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
										Total:	0.0534 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP01 (0.6)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP01 (0.6)
Moisture content:
8.5%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 8.5% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	arsenic { arsenic trioxide }		25 mg/kg	1.32	30.422 mg/kg	0.00304 %	✓	
	033-003-00-0 / 215-481-4 / 1327-53-3							
2	beryllium { beryllium oxide }		1.6 mg/kg	2.775	4.093 mg/kg	0.000409 %	✓	
	004-003-00-8 / 215-133-1 / 1304-56-9							
3	boron { diboron trioxide; boric oxide }		2.8 mg/kg	3.22	8.309 mg/kg	0.000831 %	✓	
	005-008-00-8 / 215-125-8 / 1303-86-2							
4	cadmium { cadmium oxide }		1.7 mg/kg	1.142	1.79 mg/kg	0.000179 %	✓	
	048-002-00-0 / 215-146-2 / 1306-19-0							
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }		<4 mg/kg	2.27	<9.08 mg/kg	<0.000908 %		<**LOD**
	024-017-00-8							
6	copper { dicopper oxide; copper (I) oxide }		190 mg/kg	1.126	197.16 mg/kg	0.0197 %	✓	
	029-002-00-X / 215-270-7 / 1317-39-1							
7	lead { lead chromate }	1	210 mg/kg	1.56	301.9 mg/kg	0.0194 %	✓	
	082-004-00-2 / 231-846-0 / 7758-97-6							
8	mercury { mercury dichloride }		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<**LOD**
	080-010-00-X / 231-299-8 / 7487-94-7							
9	nickel { nickel chromate }		43 mg/kg	2.976	117.953 mg/kg	0.0118 %	✓	
	028-035-00-7 / 238-766-5 / 14721-18-7							
10	selenium { nickel selenate }		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
	028-031-00-5 / 239-125-2 / 15060-62-5							
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }		390 mg/kg	4.398	1580.821 mg/kg	0.158 %	✓	
	030-006-00-9 / 231-793-3 [1] 231-793-3 [2] / 7446-19-7 [1] 7733-02-0 [2]							
12	TPH (C6 to C40) petroleum group		160 mg/kg		147.465 mg/kg	0.0147 %	✓	
	/ / TPH							
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }		<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<**LOD**
	006-007-00-5							
14	pH		8.5 pH		8.5 pH	8.5 pH		
	/ / PH							
15	naphthalene		0.96 mg/kg		0.885 mg/kg	0.0000885 %	✓	
	601-052-00-2 / 202-049-5 / 91-20-3							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
16		acenaphthylene				0.08	mg/kg		0.0737	mg/kg	0.00000737 %	✓	
			205-917-1	208-96-8									
17		acenaphthene				0.87	mg/kg		0.802	mg/kg	0.0000802 %	✓	
			201-469-6	83-32-9									
18		fluorene				0.77	mg/kg		0.71	mg/kg	0.000071 %	✓	
			201-695-5	86-73-7									
19		phenanthrene				7.4	mg/kg		6.82	mg/kg	0.000682 %	✓	
			201-581-5	85-01-8									
20		anthracene				1.8	mg/kg		1.659	mg/kg	0.000166 %	✓	
			204-371-1	120-12-7									
21		fluoranthene				8	mg/kg		7.373	mg/kg	0.000737 %	✓	
			205-912-4	206-44-0									
22		pyrene				7	mg/kg		6.452	mg/kg	0.000645 %	✓	
			204-927-3	129-00-0									
23		benzo[a]anthracene				2.8	mg/kg		2.581	mg/kg	0.000258 %	✓	
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				2.2	mg/kg		2.028	mg/kg	0.000203 %	✓	
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				2.7	mg/kg		2.488	mg/kg	0.000249 %	✓	
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				1.3	mg/kg		1.198	mg/kg	0.00012 %	✓	
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				2.6	mg/kg		2.396	mg/kg	0.00024 %	✓	
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				1.5	mg/kg		1.382	mg/kg	0.000138 %	✓	
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.45	mg/kg		0.415	mg/kg	0.0000415 %	✓	
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				1.7	mg/kg		1.567	mg/kg	0.000157 %	✓	
			205-883-8	191-24-2									
										Total:	0.233 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because No obvious sources of materials capable of ignition during exploratory work

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0147%)

Classification of sample: WS01 (0.2)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
WS01 (0.2)
Moisture content:
14%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	arsenic { arsenic trioxide }		13 mg/kg	1.32	15.056 mg/kg	0.00151 %	✓	
	033-003-00-0 / 215-481-4 / 1327-53-3							
2	beryllium { beryllium oxide }		0.96 mg/kg	2.775	2.337 mg/kg	0.000234 %	✓	
	004-003-00-8 / 215-133-1 / 1304-56-9							
3	boron { diboron trioxide; boric oxide }		2.5 mg/kg	3.22	7.061 mg/kg	0.000706 %	✓	
	005-008-00-8 / 215-125-8 / 1303-86-2							
4	cadmium { cadmium oxide }		0.6 mg/kg	1.142	0.601 mg/kg	0.0000601 %	✓	
	048-002-00-0 / 215-146-2 / 1306-19-0							
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }		<4 mg/kg	2.27	<9.08 mg/kg	<0.000908 %		<LOD
	024-017-00-8 / /							
6	copper { dicopper oxide; copper (I) oxide }		35 mg/kg	1.126	34.567 mg/kg	0.00346 %	✓	
	029-002-00-X / 215-270-7 / 1317-39-1							
7	lead { lead chromate }	1	71 mg/kg	1.56	97.146 mg/kg	0.00623 %	✓	
	082-004-00-2 / 231-846-0 / 7758-97-6							
8	mercury { mercury dichloride }		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X / 231-299-8 / 7487-94-7							
9	nickel { nickel chromate }		21 mg/kg	2.976	54.826 mg/kg	0.00548 %	✓	
	028-035-00-7 / 238-766-5 / 14721-18-7							
10	selenium { nickel selenate }		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5 / 239-125-2 / 15060-62-5							
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }		110 mg/kg	4.398	424.361 mg/kg	0.0424 %	✓	
	030-006-00-9 / 231-793-3 [1] 231-793-3 [2] / 7446-19-7 [1] 7733-02-0 [2]							
12	TPH (C6 to C40) petroleum group		14 mg/kg		12.281 mg/kg	0.00123 %	✓	
	/ / TPH							
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }		<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
	006-007-00-5 / /							
14	pH		8.1 pH		8.1 pH	8.1 pH		
	/ / PH							
15	naphthalene		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2 / 202-049-5 / 91-20-3							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
16		acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				0.76	mg/kg		0.667	mg/kg	0.0000667 %	✓	
			201-581-5	85-01-8									
20		anthracene				0.71	mg/kg		0.623	mg/kg	0.0000623 %	✓	
			204-371-1	120-12-7									
21		fluoranthene				0.79	mg/kg		0.693	mg/kg	0.0000693 %	✓	
			205-912-4	206-44-0									
22		pyrene				0.62	mg/kg		0.544	mg/kg	0.0000544 %	✓	
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.29	mg/kg		0.254	mg/kg	0.0000254 %	✓	
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.35	mg/kg		0.307	mg/kg	0.0000307 %	✓	
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.48	mg/kg		0.421	mg/kg	0.0000421 %	✓	
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.14	mg/kg		0.123	mg/kg	0.0000123 %	✓	
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.32	mg/kg		0.281	mg/kg	0.0000281 %	✓	
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
										Total:	0.0632 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because No obvious sources of materials capable of ignition during exploratory work

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00123%)

Classification of sample: WS02 (0.3)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
WS02 (0.3)
Moisture content:
11%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 11% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		28 mg/kg	1.32	33.306 mg/kg	0.00333 %	✓	
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.4 mg/kg	2.775	3.5 mg/kg	0.00035 %	✓	
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		7.5 mg/kg	3.22	21.756 mg/kg	0.00218 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.6 mg/kg	1.142	1.647 mg/kg	0.000165 %	✓	
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<4 mg/kg	2.27	<9.08 mg/kg	<0.000908 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		240 mg/kg	1.126	243.435 mg/kg	0.0243 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	500 mg/kg	1.56	702.619 mg/kg	0.045 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		52 mg/kg	2.976	139.429 mg/kg	0.0139 %	✓	
10	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		470 mg/kg	4.398	1862.185 mg/kg	0.186 %	✓	
12	TPH (C6 to C40) petroleum group			TPH		790 mg/kg		711.712 mg/kg	0.0712 %	✓	
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
14	pH			PH		8.4 pH		8.4 pH	8.4 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
16		acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				0.8	mg/kg		0.721	mg/kg	0.0000721 %	✓	
			201-469-6	83-32-9									
18		fluorene				0.59	mg/kg		0.532	mg/kg	0.0000532 %	✓	
			201-695-5	86-73-7									
19		phenanthrene				2.5	mg/kg		2.252	mg/kg	0.000225 %	✓	
			201-581-5	85-01-8									
20		anthracene				0.72	mg/kg		0.649	mg/kg	0.0000649 %	✓	
			204-371-1	120-12-7									
21		fluoranthene				4.4	mg/kg		3.964	mg/kg	0.000396 %	✓	
			205-912-4	206-44-0									
22		pyrene				4	mg/kg		3.604	mg/kg	0.00036 %	✓	
			204-927-3	129-00-0									
23		benzo[a]anthracene				2.5	mg/kg		2.252	mg/kg	0.000225 %	✓	
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				2.2	mg/kg		1.982	mg/kg	0.000198 %	✓	
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				3.2	mg/kg		2.883	mg/kg	0.000288 %	✓	
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				1.3	mg/kg		1.171	mg/kg	0.000117 %	✓	
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				2.4	mg/kg		2.162	mg/kg	0.000216 %	✓	
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				1.2	mg/kg		1.081	mg/kg	0.000108 %	✓	
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.39	mg/kg		0.351	mg/kg	0.0000351 %	✓	
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				1.3	mg/kg		1.171	mg/kg	0.000117 %	✓	
			205-883-8	191-24-2									
										Total:	0.351 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because No obvious sources of materials capable of ignition during exploratory work

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0712%)

Classification of sample: WS03 (1)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
WS03 (1)
Moisture content:
9%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 9% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		31 mg/kg	1.32	37.551 mg/kg	0.00376 %	✓	
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		3 mg/kg	2.775	7.639 mg/kg	0.000764 %	✓	
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		3.1 mg/kg	3.22	9.157 mg/kg	0.000916 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.1 mg/kg	1.142	1.153 mg/kg	0.000115 %	✓	
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<4 mg/kg	2.27	<9.08 mg/kg	<0.000908 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		310 mg/kg	1.126	320.207 mg/kg	0.032 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	320 mg/kg	1.56	457.927 mg/kg	0.0294 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		58 mg/kg	2.976	158.37 mg/kg	0.0158 %	✓	
10	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		320 mg/kg	4.398	1291.134 mg/kg	0.129 %	✓	
12	TPH (C6 to C40) petroleum group			TPH		360 mg/kg		330.275 mg/kg	0.033 %	✓	
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
14	pH			PH		9.6 pH		9.6 pH	9.6 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.98 mg/kg		0.899 mg/kg	0.0000899 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
16		acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		**<LOD**
			205-917-1	208-96-8									
17		acenaphthene				4.2	mg/kg		3.853	mg/kg	0.000385 %	✓	
			201-469-6	83-32-9									
18		fluorene				2.5	mg/kg		2.294	mg/kg	0.000229 %	✓	
			201-695-5	86-73-7									
19		phenanthrene				25	mg/kg		22.936	mg/kg	0.00229 %	✓	
			201-581-5	85-01-8									
20		anthracene				1.6	mg/kg		1.468	mg/kg	0.000147 %	✓	
			204-371-1	120-12-7									
21		fluoranthene				34	mg/kg		31.193	mg/kg	0.00312 %	✓	
			205-912-4	206-44-0									
22		pyrene				29	mg/kg		26.606	mg/kg	0.00266 %	✓	
			204-927-3	129-00-0									
23		benzo[a]anthracene				15	mg/kg		13.761	mg/kg	0.00138 %	✓	
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				11	mg/kg		10.092	mg/kg	0.00101 %	✓	
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				13	mg/kg		11.927	mg/kg	0.00119 %	✓	
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				6.1	mg/kg		5.596	mg/kg	0.00056 %	✓	
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				10	mg/kg		9.174	mg/kg	0.000917 %	✓	
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				4.6	mg/kg		4.22	mg/kg	0.000422 %	✓	
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				1.4	mg/kg		1.284	mg/kg	0.000128 %	✓	
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				5.2	mg/kg		4.771	mg/kg	0.000477 %	✓	
			205-883-8	191-24-2									
										Total:	0.261 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because No obvious sources of materials capable of ignition during exploratory work

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.033%)

Appendix A: Classifier defined and non CLP determinands

TPH (C6 to C40) petroleum group (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: Flam. Liq. 3 H226 , Asp. Tox. 1 H304 , STOT RE 2 H373 , Muta. 1B H340 , Carc. 1B H350 , Repr. 2 H361d , Aquatic Chronic 2 H411

salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex

CLP index number: 006-007-00-5
Description/Comments: Conversion factor based on a worst case compound: sodium cyanide
Data source: Commission Regulation (EC) No 790/2009 - 1st Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP1)
Additional Hazard Statement(s): EUH032 >= 0.2 %
Reason for additional Hazards Statement(s):
14 Dec 2015 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

pH (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

acenaphthylene (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4 H302 , Acute Tox. 1 H330 , Acute Tox. 1 H310 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315

acenaphthene (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410 , Aquatic Chronic 2 H411

fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

phenanthrene (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Acute Tox. 4 H302 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Carc. 2 H351 , Skin Sens. 1 H317 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410 , Skin Irrit. 2 H315

anthracene (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315 , Skin Sens. 1 H317 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

fluoranthene (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Acute Tox. 4 H302 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

pyrene (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Skin Irrit. 2 H315 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

indeno[123-cd]pyrene (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2 H351

benzo[ghi]perylene (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Reasonable case CLP species based on hazard statements/molecular weight and most common (stable) oxide of arsenic. Industrial sources include: smelting; main precursor to other arsenic compounds (edit as required)

beryllium {beryllium oxide}

Reasonable case CLP species based on hazard statements/molecular weight. Industrial sources include: most common (non alloy) form, used in ceramics (edit as required)

boron {diboron trioxide; boric oxide}

Reasonable case CLP species based on hazard statements/ molecular weight, physical form and low solubility. Industrial sources include: fluxing agent for glass/enamels; additive for fibre optics, borosilicate glass (edit as required)

cadmium {cadmium oxide}

Reasonable case CLP species based on hazard statements/molecular weight, very low solubility in water. Industrial sources include: electroplating baths, electrodes for storage batteries, catalysts, ceramic glazes, phosphors, pigments and nematocides. (edit as required) Worst case compounds in CLP: cadmium sulphate, chloride, fluoride & iodide not expected as either very soluble and/or compound's industrial usage not related to site history (edit as required)

chromium in chromium(VI) compounds {chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex}

Worst case species based on hazard statements/molecular weight (edit as required)

copper {dicopper oxide; copper (I) oxide}

Reasonable case CLP species based on hazard statements/molecular weight and insolubility in water. Industrial sources include: oxidised copper metal, brake pads, pigments, antifouling paints, fungicide. (edit as required) Worse case copper sulphate is very soluble and likely to have been leached away if ever present and/or not enough soluble sulphate detected. (edit as required)

lead {lead chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

selenium {nickel selenate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

zinc {zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2]}

No obvious sources of chromium identified during exploratory work. Elevated concentrations of chromium or hexavalent chromium were not detected in laboratory analysis

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case as complex cyanides and those specified elsewhere in the annex are not likely to be present in this soil: [Note conversion factor based on a worst case compound: sodium cyanide] (edit as required)

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.1, May 2018
HazWasteOnline Classification Engine Version: 2021.246.4869.9247 (05 Sep 2021)
HazWasteOnline Database: 2021.246.4869.9247 (05 Sep 2021)

This classification utilises the following guidance and legislation:
WM3 v1.1 - Waste Classification - 1st Edition v1.1 - May 2018
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014
7th ATP - Regulation 2015/1221/EU of 24 July 2015
8th ATP - Regulation (EU) 2016/918 of 19 May 2016
9th ATP - Regulation (EU) 2016/1179 of 19 July 2016
10th ATP - Regulation (EU) 2017/776 of 4 May 2017
HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017
13th ATP - Regulation (EU) 2018/1480 of 4 October 2018
14th ATP - Regulation (EU) 2020/217 of 4 October 2019
15th ATP - Regulation (EU) 2020/1182 of 19 May 2020
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit) Regulations 2019 - UK: 2019 No. 720 of 27th March 2019
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020
The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020
POPs Regulation 2019 - Regulation (EU) 2019/1021 of 20 June 2019

Appendix E: Asbestos Decision Work Tool Outputs

JIWG

Joint Industry Working Group

Asbestos in Soil and Construction & Demolition Materials

Project Reference	13675
Site Name	Big Yellow, Kentish Town
Client	.Big Yellow Self Storage Company Ltd
Run by	CampbellReith
Date	11-Oct-21
Scenario details	Potential Exposure of Groundworkers for Absestos in Soils

Decision Support Tool for CAR2012 Work Categories

Stage 1

Hazard Factors

		Score
Select ACM type (run model for each type to generate 'Worst Case' output)	Loose fibrous asbestos debris	3
Extent of degradation of ACMs at outset of work	Disaggregated (dominated by loose fibrous material; extreme degradation in ACM and/or free asbestos fibres/fibre bundles)	4
Friability and degree of bonding by matrix (ACM matrix, not ground materials)	Friable ACM or ACM with fibres not firmly linked in a matrix	2
Distribution of Visible Asbestos Across Affected Area	No visible ACMs/fibre bundles	0
Amount of asbestos fibre in selected ACM/fibre type as % of host material	Very Low quantities - <0.001 to 0.01 %wt/wt	1
Sub-total		10

Note: the asbestos licensing regime is unaffected by the type of asbestos fibre present in ACMs

Hazard ranking: Low

Stage 2

Exposure Factors

		Score
Anticipated airborne fibre concentration - Control Limit or SALI?	<0.001 fibres/ml	0
Anticipated duration of exposure to asbestos	< 1 hour for any one person in any week (e.g. Short Duration Work)	1
Activity type and effect on deterioration of ACMs during work	Sampling, manual or mechanical (no or minimal deterioration expected)	0
Best description of primary host material matrix (soil/made ground)	Fine Silt and/or Clay	1
Respirable fibre index for ACM - RIVM report 711701034 (2003)	Medium	3
Sub-total		5
Exposure ranking		Very low
Combined hazard and exposure ranking	15	Low

Stage 3

Risk Assessment Outputs

Probable Licensing Status	Non-Licensed Work
RPE*	EN149 type FFP3 disposable
Dust Suppression**	Manual/localised dust suppression
Hygiene/Decontamination***	Localised and basic personal decontamination facilities

*Where RPE has to be worn continuously for long periods (e.g. more than 1-hour), then powered RPE may be necessary.
**Reduction in control measures possible if natural mitigation factors are present (e.g. raining, wet ground)
***Guide only; suitability of selected personal hygiene measures may be reviewed on a site/contamination-specific basis

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