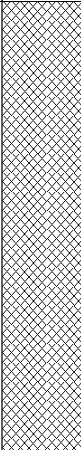
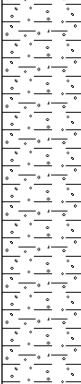
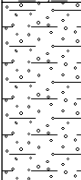
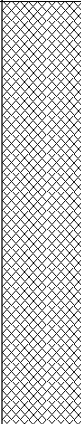
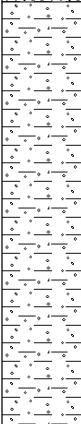


				Trial Pit Log			Trialpit No TP433 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418390.60 - 425108.70 Level:		Date 11/01/2019	
Location: Cleckheaton				Dimensions (m):		3.6 		Scale 1:25	
Client: Strata Homes				Depth 3.40		0.6 		Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.20	J&T					MADE GROUND: Brown gravelly slightly clayey COBBLES with low boulder content. Gravel is angular fine to medium of brick. Cobbles and boulders are angular of brick and concrete. (BRICKFILL)	1	
				1.50				Spalling within made ground.	
	1.90	D						Stiff orangish brown mottled grey gravelly CLAY. Gravel is angular fine to medium of sandstone. (COHESIVE RESIDUAL SOIL)	2
				2.80				Orangish brown and grey mottled very clayey angular fine to coarse GRAVEL of sandstone, (GRANULAR RESIDUAL SOIL)	3
				3.40			End of pit at 3.40 m		4
								5	

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.		
Stability: 1. The sides of the trial pit were unstable between ground level and 1.5m depth during excavation.		

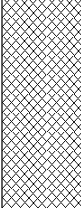
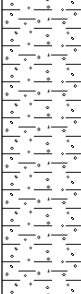
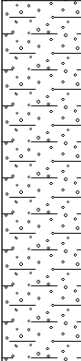
				Trial Pit Log			Trialpit No TP434 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418382.74 - 425135.85 Level:		Date 14/01/2019	
Location: Cleckheaton				Dimensions (m):		3.1 		Scale 1:25	
Client: Strata Homes				Depth 3.00		0.6 		Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10	J&T					MADE GROUND: Brown gravelly slightly clayey SAND with low cobble content. Gravel and cobbles are angular fine to coarse of concrete, brick and sandstone. (GRANULAR MADE GROUND)	1	
	1.60	D		1.40				Stiff grey mottled orangish brown gravelly CLAY. Gravel is angular fine to coarse of sandstone and sandstone lithorelicts. (COHESIVE RESIDUAL SOIL) No blocks for vane between 1.4m and 2.8m depth.	2
	2.90	T		2.80 3.00					Strong orangish brown thinly bedded SANDSTONE. Recovered as clayey gravel. (COAL MEASURES)
								End of pit at 3.00 m	4
									5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.

Stability: 1. The sides of the trial pit remained stable during excavation.



				Trial Pit Log			Trialpit No TP435 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418384.77 - 425155.77 Level:		Date 14/01/2019	
Location: Cleckheaton				Dimensions (m):		3.2		Scale 1:25	
Client: Strata Homes				Depth 3.10				Logged JEJ	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10	J&T					MADE GROUND: Black ashly gravelly SAND. Gravel is angular to subrounded fine to coarse of concrete, brick and clinker. (ASH & CLINKER) <i>Overbreak within made ground.</i>		
	0.90	D	HVP=80	0.70			Stiff orangish brown gravelly CLAY. Gravel is angular fine to coarse of sandstone. (COHESIVE RESIDUAL SOIL)		
				1.70			Orangish brown mottled grey very clayey angular fine to coarse GRAVEL of sandstone and sandstone lithorelicts. (GRANULAR RESIDUAL SOIL)		
				2.90			Strong orangish brown thinly bedded SANDSTONE. Recovered as clayey gravel and cobbles. (COAL MEASURES)		
				3.10			End of pit at 3.10 m		
Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.									
Stability: 1. The sides of the trial pit were unstable between ground level and 0.7m depth during excavation with some overbreak in the granular strata.									



LITHOS CONSULTING				Trial Pit Log			Trialpit No TP436 Sheet 1 of 1	
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418329.31 - 425009.62		Date 14/01/2019
Location: Cleckheaton				Dimensions (m):		3.2		Scale 1:25
Client: Strata Homes				Depth 3.30		0.6		Logged JEJ
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	J,K&T					MADE GROUND: Pinkish red sandy angular COBBLES of brick. (BRICKFILL)	
							Spalling within made ground.	
	0.90	J,K&T		0.80			MADE GROUND: Pinkish red mottled grey gravelly CLAY. Gravel is angular fine to coarse of sandstone. (COHESIVE MADE GROUND)	
	1.40	K		1.30			Firm orangish brown and grey mottled gravelly CLAY. Gravel is angular to subangular fine to coarse of sandstone and sandstone lithorelicts. (COHESIVE RESIDUAL SOIL)	
	1.60	D					No blocks for vane between 1.3m and 3.0m depth.	
3.20	T		3.00				Strong orangish brown thinly bedded SANDSTONE. Recovered as very clayey gravel. (COAL MEASURES)	
			3.30			End of pit at 3.30 m		
Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in. Stability: 1. The sides of the trial pit were unstable between ground level and 0.8m depth during excavation.								

				Trial Pit Log			Trialpit No TP437 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418298.56 - 425017.08 Level:		Date 14/01/2019	
Location: Cleckheaton				Dimensions (m):		3.6 		Scale 1:25	
Client: Strata Homes				Depth 3.70		0.6 		Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	J,K&T		0.30			MADE GROUND: Pinkish red ashy gravelly SAND. Gravel is angular fine to coarse of burnt shale and clinker. (ASH & CLINKER)	1
	0.40	J,K&T					MADE GROUND: Blackish brown clayey gravelly SAND with low boulder content. Gravel is angular fine to coarse of brick and concrete. Boulders are angular of concrete. (BRICKFILL)	
	0.80	B						
	1.40	J&K		1.10 1.20			MADE GROUND: Light brown gravelly CLAY. Gravel is angular fine to coarse of sandstone. (COHESIVE MADE GROUND) <i>Major spalling of trial pit walls from 1.1m depth.</i>	2
						MADE GROUND: Black gravelly slightly ashy SAND with low cobble content. Gravel is angular fine to coarse of brick, concrete, clinker and ceramic. Cobbles are angular of brick. Clinker and bricks are stained yellow. (ASH & CLINKER) <i>Burnt odour at 1.4m depth.</i>		
						<i>Old brick chamber in E trial pit wall from 0.8m to 2.7m with curved wall.</i>		
				2.40 2.50			MADE GROUND: Strong grey CONCRETE. 40% aggregate of angular fine to coarse gravel of mixed lithology. (CONCRETE)	3
						MADE GROUND: Black slightly gravelly SAND with medium cobble content. Gravel and cobbles are angular of brick. (BRICKFILL)		
	3.60	J&K		3.50 3.70			MADE GROUND: Black sandy slightly gravelly CLAY. Gravel is angular fine to coarse of mixed lithology. (COHESIVE MADE GROUND) <i>Unable to excavate further due to concrete slab at 2.4m.</i> <i>End of pit at 3.70 m</i>	4
								5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.

Stability: 1. The sides of the trial pit were unstable between 1.1m and 3.7m depth during excavation.



				Trial Pit Log			Trialpit No TP438 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: - Level:		Date 14/01/2019	
Location: Cleckheaton				Dimensions (m):		9.8 		Scale 1:25	
Client: Strata Homes				Depth 4.50		0.6 		Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	J,K&T					MADE GROUND: Brown gravelly slightly clayey SAND with low cobble content. Gravel and cobbles are angular fine to coarse of sandstone, concrete and brick with glass, plastic, metal and electrical wiring fragments. (BRICKFILL)	1
				1.40 1.50			MADE GROUND: Pinkish red angular COBBLES of brick. (GRANULAR MADE GROUND)	
	1.80	J&K					MADE GROUND: Black ashy slightly gravelly SAND. Gravel is angular fine to coarse of clinker and brick. (BRICKFILL)	2
							Sweet solvent smell at 2.0m depth.	
	2.80	K					Concrete block in E trial pit wall from 1.6m to around 4.0m depth - trenched over the top of the concrete block which was 2.5m wide oriented N-S lined with bricks on its eastern side, possible old tank.	3
				3.10			MADE GROUND: Black ashy slightly gravelly SAND. Gravel is angular fine to coarse of clinker. (ASH & CLINKER)	
	3.60	K						4
				4.50			End of pit at 4.50 m	5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.		
Stability: 1. The sides of the trial pit were unstable between ground level and 4.5m depth during excavation with constant spalling.		

Trial Pit Log

Trialpit No

TP439

Sheet 1 of 1

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: -

Level:

Date

14/01/2019

Location: Cleckheaton

Dimensions (m):

7

Depth
4.40

0.6

Scale

1:25

Logged
JEJ

Client: Strata Homes

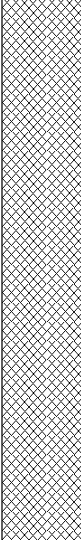
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	J,K&T					MADE GROUND: Brown sandy gravelly angular COBBLES of brick and concrete. (BRICKFILL)	
				1.80			Large block of rendered bonded brickwork at 1.3m depth, 0.8mx0.4mx0.4m. From 1.4m at either trial pit a brick wall stepped/curved down to 2.3m depth.	1
	2.00	J&K					MADE GROUND: Yellowish brown gravelly SAND. Gravel is angular fine to coarse of mixed lithology. Gravel is stained yellow. (FILTER SAND) Layer of wood above the yellowish brown made ground at 1.8m depth.	2
				2.30				
				2.40			MADE GROUND: Pinkish red COBBLES of brick. Bricks are stained yellow. (BRICKFILL) Metal pipe 50mm diameter at 2.3m depth.	
	2.80	J&K					MADE GROUND: Multi-coloured gravelly clayey SAND. Gravel is angular fine to coarse of clinker and brick. (FILTER SAND) Slight solvent odour at 2.4m depth.	3
	3.90	K		3.80			Stiff yellowish brown sandy slightly gravelly CLAY. Gravel is angular to subangular fine to coarse of sandstone. (COHESIVE RESIDUAL SOIL)	4
	4.20	D						
				4.40			Slight groundwater seepage at 4.4m depth. End of pit at 4.40 m	5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was apparent as a seepage at 4.4m depth during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.

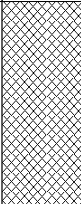
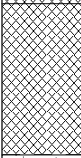
Stability: 1. The sides of the trial pit were unstable between ground level and 3.8m depth during excavation.

				Trial Pit Log			Trialpit No TP440 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418269.06 - 424979.20 Level:		Date 14/01/2019	
Location: Cleckheaton						Dimensions (m):		3.3	
Client: Strata Homes						Depth 4.00			
Water Strike		Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth	Type	Results					
		0.10	J,K&T					MADE GROUND: Brown gravelly slightly clayey SAND with medium cobble content. Gravel and cobbles are angular of brick (GRANULAR MADE GROUND)	
					1.30 1.40			MADE GROUND: Weak grey CONCRETE. 40% aggregate of rounded fine gravel of mixed lithology. (CONCRETE) MADE GROUND: Black ash gravelly SAND. Gravel is angular fine to coarse of clinker and brick. (ASH & CLINKER)	
		2.00	J&K					Slight hydrocarbon odour at 2.4m depth.	
		2.70	K		2.50 2.90			Firm orangish brown slightly sandy CLAY. (COHESIVE RESIDUAL SOIL) Slight groundwater seepage of black groundwater at 2.5m depth whilst sampling. No blocks for vane between 2.5m and 2.9m depth.	
		3.50	T					Brown mottled grey very clayey angular fine to coarse GRAVEL of mudstone. (GRANULAR RESIDUAL SOIL)	
					4.00			End of pit at 4.00 m	
Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was apparent as a seepage at 2.5m depth during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in. 									
Stability: 1. The sides of the trial pit were unstable between ground level and 2.4m depth during excavation.									

				Trial Pit Log				Trialpit No TP441 Sheet 1 of 1	
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418304.92 - 424982.21 Level:		Date 14/01/2019	
Location: Cleckheaton						Dimensions (m):		Scale 1:25	
Client: Strata Homes						Depth 4.10		Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	J,K&T					MADE GROUND: Brown gravelly slightly clayey SAND with low cobble content. Gravel and cobbles are angular of brick and concrete with wood, metal and tile fragments. (GRANULAR MADE GROUND)	1
	1.90	J&K		1.80			MADE GROUND: Black sandy slightly clayey angular fine to coarse GRAVEL of clinker. (ASH & CLINKER)	2
				2.20			MADE GROUND: Black CLAY. (COHESIVE MADE GROUND) <i>Inflow of black groundwater at 2.2m depth with strong stagnant smell.</i>	
	3.00	J&K						3
	3.90	K	HVP=50	3.80			Firm orangish brown gravelly CLAY. Gravel is angular fine to coarse of sandstone. (COHESIVE RESIDUAL SOIL)	4
				4.10			End of pit at 4.10 m	5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was apparent as an inflow at 2.2m depth during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.		
Stability: 1. The sides of the trial pit were unstable between ground level and 2.2m depth during excavation.		

				Trial Pit Log			Trialpit No TP442 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418330.47 - 424982.81 Level:		Date 15/01/2019	
Location: Cleckheaton				Dimensions (m):		3.4 		Scale 1:25	
Client: Strata Homes				Depth 3.20		0.6 		Logged JEJ	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10	J,K&T	HVP=70	0.90			MADE GROUND: Brown gravelly SAND with medium cobble content. Gravel and cobbles are angular of brick and sandstone with occasional wood and glass fragments. (BRICKFILL)		
	1.00	J&K					Old brick wall from ground level to 0.7m depth, 0.3m wide running E-W.		
	1.50	K		1.40			MADE GROUND: Multicoloured gravelly CLAY. Gravel is angular fine to coarse of clinker, brick and concrete with wood fragments. (GRANULAR MADE GROUND) Slight hydrocarbon odour at 1.0m depth.		
	2.00	D					Firm light orangish brown mottled grey sandy slightly gravelly CLAY. Gravel is angular fine of sandstone. (COHESIVE RESIDUAL SOIL)		
	3.10	T		3.00			Strong orangish brown thinly bedded SANDSTONE. Recovered as angular fine to coarse gravel. (COAL MEASURES)		
			3.20		Groundwater inflow at 3.0m depth with oily sheen and hydrocarbon odour. End of pit at 3.20 m				
Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was apparent as an inflow at 3.0m depth during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.									
Stability: 1. The sides of the trial pit were unstable between ground level and 1.4m depth during excavation.									



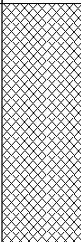
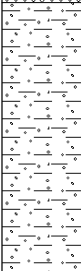
				Trial Pit Log			Trialpit No TP443A Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418295.80 - 424971.89 Level:		Date 15/01/2019	
Location: Cleckheaton				Dimensions (m):		3.2 		Scale 1:25	
Client: Strata Homes				Depth 2.40				Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.30			MADE GROUND: Brown gravelly CLAY. Gravel is angular fine to coarse of brick and concrete. (COHESIVE MADE GROUND)
							MADE GROUND: Pinkish red ashy gravelly SAND with medium cobble content. Gravel and cobbles are angular of brick and concrete. (BRICKFILL)
							Concrete slab in N trial pit wall at 1.5m, 0.2m thick.
				2.40			End at 2.4m due to groundwater inflow. End of pit at 2.40 m

Remarks:	1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was apparent as an inflow at 2.4m depth during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.
Stability:	1. The sides of the trial pit remained stable during excavation.



				Trial Pit Log			Trialpit No TP444 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418283.13 - 424963.79 Level:		Date 15/01/2019	
Location: Cleckheaton				Dimensions (m):		6 		Scale 1:25	
Client: Strata Homes				Depth 3.40		0.6 		Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	J,K&T					MADE GROUND: Brown sandy gravelly CLAY. Gravel is angular fine to coarse of brick. (COHESIVE MADE GROUND)	
	0.70	B		0.80			MADE GROUND: Stiff grey mottled orangish brown gravelly CLAY. Gravel is angular fine to medium of mudstone and mudstone lithorelicts. (COHESIVE MADE GROUND)	1
	1.50	J&K	HVP=80	1.20			MADE GROUND: Black sandy angular fine to coarse GRAVEL of mixed lithology. (GRANULAR MADE GROUND) <i>Groundwater seepage at 1.2m with slight hydrocarbon odour and oily sheen.</i> <i>Attempted to trench out but major groundwater inflow at 1.3m depth from the S trench end.</i>	2
	2.40 2.50	K D	HVP=50	2.50			Firm orangish brown and grey mottled slightly gravelly CLAY. Gravel is angular fine to medium of mudstone. (COHESIVE RESIDUAL SOIL)	3
			HVP=45	3.40			End of pit at 3.40 m	4
								5

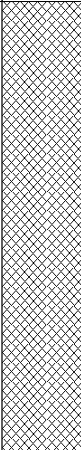
Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was apparent as a seepage at 1.2m and an inflow at 2.4m depth during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.

Stability: 1. The sides of the trial pit remained stable during excavation.

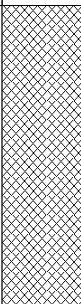
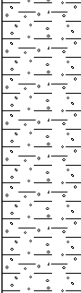
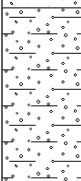


				Trial Pit Log			Trialpit No TP445 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418343.95 - 425064.46 Level:		Date 15/01/2019	
Location: Cleckheaton				Dimensions (m):		5.9 		Scale 1:25	
Client: Strata Homes				Depth 4.90		0.6 		Logged JEJ	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
				1.50			MADE GROUND: Multicoloured sandy ashy angular fine to coarse GRAVEL with low cobble content. Gravel and cobbles are angular of brick and clinker. (BRICKFILL)		
								MADE GROUND: Black ashy gravelly SAND. Gravel is angular fine to coarse of clinker and ceramic. (ASH & CLINKER)	
	2.60	B							
				4.60				MADE GROUND: Firm brown gravelly CLAY. Gravel is angular fine to coarse of mudstone, brick and sandstone. (COHESIVE MADE GROUND)	
				4.90			----- End of pit at 4.90 m		
Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.									
Stability: 1. The sides of the trial pit remained stable during excavation.									



				Trial Pit Log			Trialpit No TP446 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418342.40 - 425078.08 Level:		Date 15/01/2019	
Location: Cleckheaton				Dimensions (m):		3.2		Scale 1:25	
Client: Strata Homes				Depth 3.10				Logged JEJ	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.30	J,K&T	HVP=80	1.50			MADE GROUND: Pinkish red ashy gravelly SAND. Gravel is angular fine to coarse of clinker. (ASH & CLINKER)		
	1.60	J&K					Slight solvent odour at 1.0m depth.		
	1.80	D							
								2.90	
			3.10			Strong orangish brown thinly bedded SANDSTONE. Recovered as angular fine to coarse of sandstone. (COAL MEASURES)			
End of pit at 3.10 m									
Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.									
Stability: 1. The sides of the trial pit remained stable during excavation.									



				Trial Pit Log			Trialpit No TP447 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418474.36 - 425015.94 Level:		Date 15/01/2019	
Location: Cleckheaton				Dimensions (m):		3.2		Scale 1:25	
Client: Strata Homes				Depth 2.80				Logged JEJ	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	1.50 1.50	B D	HVP=120	1.00 1.20 2.20 2.80		   	MADE GROUND: Brown gravelly slightly clayey SAND with low cobble content. Gravel and cobbles are angular of brick and concrete. (GRANULAR MADE GROUND) MADE GROUND: Grey gravelly CLAY. Gravel is angular fine to coarse of brick. (COHESIVE MADE GROUND) Stiff orangish brown mottled grey gravelly CLAY. Gravel is angular fine to coarse of sandstone. (COHESIVE RESIDUAL SOIL) Brown very clayey angular fine to coarse GRAVEL of sandstone. (COAL MEASURES) Groundwater inflow in base of pit at 2.8m depth. End of pit at 2.80 m		
Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was apparent as an inflow at 2.8m depth during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.									
Stability: 1. The sides of the trial pit remained stable during excavation.									



				Trial Pit Log			Trialpit No TP448 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418498.39 - 425033.62 Level:		Date 15/01/2019	
Location: Cleckheaton				Dimensions (m):		3.2 		Scale 1:25	
Client: Strata Homes				Depth 3.30		0.6 		Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.80			MADE GROUND: Black ashy gravelly SAND. Gravel is angular fine to coarse of clinker. (ASH & CLINKER)	1
				1.10			MADE GROUND: Orangish brown and grey mottled gravelly CLAY. Gravel is angular fine to coarse of sandstone. (COHESIVE MADE GROUND)	
				1.50			MADE GROUND: Pinkish red ashy gravelly SAND. Gravel is angular fine to coarse of clinker, burnt shale and brick. (ASH & CLINKER)	
				3.30			MADE GROUND: Black ashy gravelly SAND. Gravel is angular fine to coarse of clinker. (ASH & CLINKER)	
							Groundwater inflow at 3.3m depth.	2
							End of pit at 3.30 m	
								3
								4
								5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was apparent as an inflow at 3.3m depth during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.		
Stability: 1. The sides of the trial pit were unstable between ground level and 3.3m depth during excavation.		

				Trial Pit Log			Trialpit No TP449 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418505.51 - 425029.92 Level:		Date 15/01/2019	
Location: Cleckheaton				Dimensions (m):		3.2 		Scale 1:25	
Client: Strata Homes				Depth 2.90		0.6 		Logged JEJ	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.10			MADE GROUND: Grass over purplish red sandy angular fine to medium GRAVEL of limestone. (GRANULAR MADE GROUND)	1
				0.40			MADE GROUND: Black gravelly SAND. Gravel is angular fine to coarse of brick, concrete and sandstone. (GRANULAR MADE GROUND)	
				0.60			MADE GROUND: Orangish brown mottled grey gravelly CLAY. Gravel is angular fine to coarse of sandstone. (COHESIVE MADE GROUND)	
							MADE GROUND: Black ashy gravelly SAND. Gravel is angular fine to coarse of clinker and burnt shale. (ASH & CLINKER)	
				1.20				Firm orangish brown mottled grey gravelly CLAY. Gravel is angular fine to coarse of mudstone. (COHESIVE RESIDUAL SOIL) <i>No blocks for vane between 1.2m and 2.0m depth.</i>
				2.00			Brown very clayey angular fine to coarse GRAVEL of mudstone. (GRANULAR RESIDUAL SOIL)	2
				2.90				Groundwater inflow at 2.9m depth. End of pit at 2.90 m
								4
								5

Remarks:	1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was apparent as an inflow at 2.9m depth during excavation. 3. Backfilled with materials arising upon completion. 4. Co-ordinates from hand held GPS, hole not surveyed in.
Stability:	1. The sides of the trial pit remained stable during excavation.



				Trial Pit Log				Trialpit No TP501 Sheet 1 of 1	
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418240.33 - 425055.83 Level:		Date 15/09/2020	
Location: Cleckheaton				Dimensions (m):		2.5 		Scale 1:25	
Client: Strata Homes				Depth 3.80		0.6 		Logged AP	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.40	J&T					MADE GROUND: Black mottled red sandy angular fine to coarse GRAVEL of concrete, brick, sandstone and pottery. Some gravel sized fragments of plastic and wood. Medium subangular cobble content of brick and sandstone. Occasional rootlets. (GRANULAR MADE GROUND) <i>From 0.0m to 1.5m, A glass fibre storage tank with oily black sludge in the base.</i>	1	
	1.20	J&K					MADE GROUND: Black sandy slightly clayey angular fine to coarse GRAVEL of concrete and brick. Low subangular cobble content of brick. Occasional gravel to cobble sized fragments of plastic and metal. (GRANULAR MADE GROUND) <i>At 1.1m, An oily odour.</i>		
	1.80	J,K&T					MADE GROUND: Firm grey mottled brown gravelly CLAY with rare metal pipe. Gravel is subangular to angular fine to medium of sandstone and mudstone. (COHESIVE MADE GROUND) <i>From 2.8m, Clay becomes stiff and very gravelly.</i>		2
			HVP=82					3	
	3.60	J,K&T				MADE GROUND: Greyish brown mottled red slightly clayey slightly gravelly fine to coarse SAND. Gravel is angular fine to medium of brick, burnt shale, concrete and sandstone. (GRANULAR MADE GROUND)			
				3.80		End of pit at 3.80 m	4		
									5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.



				Trial Pit Log			Trialpit No TP502 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418243.08 - 425042.59 Level:		Date 15/09/2020	
Location: Cleckheaton				Dimensions (m):		2.5		Scale 1:25	
Client: Strata Homes				Depth 4.50				Logged AP	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.80	J&T		0.30		 MADE GROUND: Black sandy angular fine to coarse GRAVEL of macadam, sandstone, brick and burnt shale. (HARDCORE) <i>From 0.2m to 0.3m, A layer of red sandy angular tabular fine to medium gravel of burnt shale.</i>	1	
				1.60		 MADE GROUND: Black mottled red sandy angular fine to coarse GRAVEL of burnt shale, coal, sandstone and rare glass. High subangular cobble content of brick. Some gravel sized fragments of wood and metal. (BRICKFILL) <i>From 0.6m, Overbreak due to house bricks.</i>		
	2.80	J,K&T		2.40		 MADE GROUND: Yellow sandy angular fine to coarse GRAVEL of coarse grained sandstone. (GRANULAR MADE GROUND)	2	
				4.50		 MADE GROUND: Yellowish grey gravelly SAND. Gravel is subangular fine to medium of sulphurous oxides. (FILTER SAND)		
						End of pit at 4.50 m	3	
							4	
							5	

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.		
Stability: 1. The sides of the trial pit were unstable at 0.6m depth during excavation with some overbreak in the granular strata.		

				Trial Pit Log				Trialpit No TP503 Sheet 1 of 1	
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418240.69 - 425026.43 Level:		Date 15/09/2020	
Location: Cleckheaton						Dimensions (m): 2.5 0.6 4.20		Scale 1:25 Logged AP	
Client: Strata Homes									

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
▼	0.20	J&T		0.40			MADE GROUND: Black slightly silty sandy fine to coarse GRAVEL of macadam, brick and sandstone. Sand includes ash. (HARDCORE)	1 2 3 4 5
	0.80	J&T		1.00			MADE GROUND: Red sandy angular fine to coarse GRAVEL of burnt shale. (BURNT SHALE)	
	1.50	J&T		1.80		MADE GROUND: Greyish white slightly gravelly SAND. Gravel is fine to medium of sulphurous oxides and occasional sandstone, mudstone and limestone. (FILTER SAND) <i>From 1.0m to 3.4m, Overbreak.</i>		
				2.90		MADE GROUND: Black sandy angular fine to coarse GRAVEL of brick and burnt shale. High subangular cobble content of brick. (BRICKFILL)		
				4.20		MADE GROUND: Soft greyish brown slightly sandy slightly gravelly CLAY. Gravel is angular fine to medium of sandstone and mudstone. Rare subangular cobbles of brick. (COHESIVE MADE GROUND)		
						At 3.8m, groundwater inflow.		
							End of pit at 4.20 m	

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was apparent at 3.8m depth during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit were unstable between 1.0m to 3.4m depth during excavation with some overbreak in the granular strata.

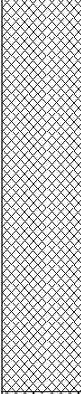
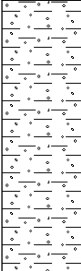


LITHOS CONSULTING				Trial Pit Log			Trialpit No TP505 Sheet 1 of 2	
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418288.31 - 425033.93		Date 15/09/2020
Location: Cleckheaton				Dimensions (m):		2.5		Scale 1:25
Client: Strata Homes				Depth 5.20		0.6		Logged AP
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	J&T		0.30			MADE GROUND: Red sandy angular tabular fine to coarse GRAVEL of burnt shale. (BURNT SHALE) <i>From 0.0m to 0.03m, A veneer of black silty angular fine to medium gravel of tarmac and burnt shale.</i>	1
	0.80	J,K&T			MADE GROUND: Black mottled red sandy angular fine to coarse GRAVEL of brick, burnt shale, coal, sandstone and concrete. High subangular cobble content of brick. Some gravel to cobble sized fragments of metal, wood, fabric and plastic. (GRANULAR MADE GROUND) <i>From 0.3m to 4.5m, Overbreak.</i>			
					<i>At 1.3m, Tabular, angular gravel, cobbles and boulders of sandstone.</i>			
	2.10	K			<i>At 2.0m, Sandstone block work cemented with bitumen.</i>			
	2.60	J,K&T		2.40	MADE GROUND: Yellowish grey slightly gravelly SAND. Gravel is subangular fine to medium of sandstone and occasional coal. (GRANULAR MADE GROUND)		2	
				2.90	MADE GROUND: Black mottled reddish brown sandy angular fine to coarse GRAVEL of clinker, brick, coal and sandstone. (GRANULAR MADE GROUND)	3		
	3.80	J,K&T			<i>At 3.8m, A pocket of soft grey mottled orange and yellow slightly gravelly CLAY. Gravel is angular fine of mixed lithologies.</i>			
	4.80	J,K&T					4	
Continued on next sheet								5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit were unstable between 0.3m to 4.5m depth during excavation with some overbreak in the granular strata.



				Trial Pit Log			Trialpit No TP506 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418315.62 - 425050.68 Level:		Date 15/09/2020	
Location: Cleckheaton				Dimensions (m):		2.5 		Scale 1:25	
Client: Strata Homes				Depth 2.80		0.6		Logged AP	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.40 0.50 - 1.00	J&T D&B					MADE GROUND: Black mottled red sandy angular fine to coarse GRAVEL of brick, macadam and burnt shale. Medium subangular cobble content of brick. (GRANULAR MADE GROUND)		
							At 0.5m, Solid concrete obstruction, pit extended west.		
	1.50	J&T		1.30			At 1.2m, Vitrified stone drain struck with inflow of water, hole moved 2.0m south.		
	1.80	J&T		1.60			MADE GROUND: Greyish yellow slightly clayey sandy angular fine to medium GRAVEL of concrete. (GRANULAR MADE GROUND)		
	2.30	D	HVP=70	2.50			Firm brown mottled grey gravelly CLAY. Gravel is angular fine to medium of sandstone and mudstone. (COHESIVE RESIDUAL SOIL)		
				2.80			Weak thickly laminated yellowish brown fine grained SANDSTONE. Recovered as sandy angular fine to coarse gravel. (COAL MEASURES)		
							At 2.8m, Bedrock - Unable to excavate further. End of pit at 2.80 m		
Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.									
Stability: 1. The sides of the trial pit remained stable during excavation.									



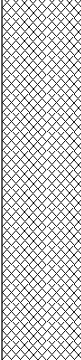
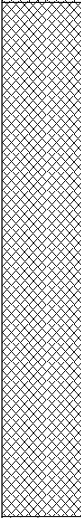
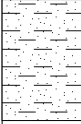
				Trial Pit Log			Trialpit No TP507 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418309.35 - 425035.38 Level:		Date 15/09/2020	
Location: Cleckheaton				Dimensions (m):		2.5 0.6		Scale 1:25	
Client: Strata Homes				Depth 2.00				Logged AP	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.30	J&T		0.10			Moderately weak black MACADAM. 70% aggregates. 30% tar matrix. Rare small irregular isolated voids. (MACADAM)		
				0.40			MADE GROUND: Red sandy angular tabular fine to coarse GRAVEL of burnt shale. (GRANULAR MADE GROUND)		
	1.00	J&T		1.00			MADE GROUND: Black sandy angular fine to coarse GRAVEL of brick, concrete, burnt shale and clinker. Low subangular cobble content of brick. (GRANULAR MADE GROUND) <i>At 0.7m, 100mm diameter metal pipe.</i>		
				1.40			Strong pale grey CONCRETE. 70% aggregate of subangular fine to medium gravel of predominantly brick. 30% cement with rare small voids. (CONCRETE)		
				1.70			MADE GROUND: Black sandy angular fine to coarse GRAVEL of brick and concrete. (GRANULAR MADE GROUND) <i>From 1.5m to 2.7m, Arched brick lined tunnel, orientated north to south.</i>		
				2.00			MADE GROUND: Soft orange mottled brown sandy CLAY. (COHESIVE MADE GROUND) <i>At 1.7m, brick wall in centre of pit - void of tunnel to the west and soft yellowish brown clay to the east.</i> <i>End of pit at 2.00 m</i>		
1 2 3 4 5									
Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.									
Stability: 1. The sides of the trial pit remained stable during excavation.									



				Trial Pit Log				Trialpit No TP508 Sheet 1 of 1	
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418302.84 - 425015.78 Level:		Date 15/09/2020	
Location: Cleckheaton						Dimensions (m): 2.5 0.6 		Scale 1:25	
Client: Strata Homes						Depth 3.20		Logged AP	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.20	J,K&T		0.30			MADE GROUND: Black gravelly CLAY. With gravel sized fragments of plastic. Gravel is subangular fine of brick, clinker, glass and tile. (COHESIVE MADE GROUND) <i>From 0.0m to 2.2m, occasional roots and rootlets.</i>		
	0.40 - 1.00	D&B					MADE GROUND: Black sandy angular fine to coarse GRAVEL of brick, tarmac, concrete and clinker with a low cobble content, glass, wire, metal and plastic. Cobbles are of house bricks. (GRANULAR MADE GROUND) <i>At 0.7m, Pocket of firm to stiff gravelly clay. Gravel is angular fine to coarse of sandstone, mudstone and brick.</i>		
	0.60	J,K&T							
	1.40	J,K&T		1.20			MADE GROUND: Red sandy angular tabular fine to coarse GRAVEL of burnt shale. (BURNT SHALE)		
	2.00	J,K&T		1.60			MADE GROUND: Yellowish grey slightly gravelly SAND. Gravel is of sulphur. (FILTER SAND) <i>From 1.6m to 2.3m, Brick lined tunnel with arched roof with vertical wall, orientated north-south in the east of the pit.</i>		
	2.30	J,K&T		2.20			MADE GROUND: Soft red sandy CLAY. (COHESIVE MADE GROUND)		
				3.20			At 3.2m, Obstruction, possible bedrock - Unable to excavate further. End of pit at 3.20 m		
Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.									
Stability: 1. The sides of the trial pit remained stable during excavation.									

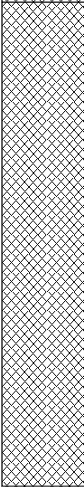


				Trial Pit Log			Trialpit No TP509 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418296.58 - 425030.11 Level:		Date 15/09/2020	
Location: Cleckheaton				Dimensions (m):		2.5 		Scale 1:25	
Client: Strata Homes				Depth 3.30		0.6 		Logged AP	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.50	J,K&T		1.20			MADE GROUND: Brown mottled black slightly gravelly SAND with rootlets. Gravel is subangular to angular fine to coarse of clinker, brick and burnt shale. (GRANULAR MADE GROUND)	1
	1.70	J,K&T						MADE GROUND: Yellowish grey mottled red slightly gravelly SAND. Gravel is subangular fine to coarse of brick, limestone and sandstone. (GRANULAR MADE GROUND)
	2.00 - 2.50	D&B						
	3.00 3.10	J,K&T D		2.90 3.30			Firm red mottled brown slightly sandy CLAY. (COHESIVE RESIDUAL SOIL)	3
							End of pit at 3.30 m	
								4
								5

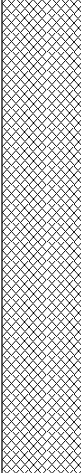
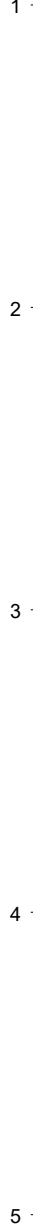
Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.		
Stability: 1. The sides of the trial pit remained stable during excavation.		

				Trial Pit Log			Trialpit No TP510 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418268.96 - 425022.78 Level:		Date 15/09/2020	
Location: Cleckheaton				Dimensions (m):		2.5 		Scale 1:25	
Client: Strata Homes				Depth 1.90				Logged AP	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	J,K&T		0.30			MADE GROUND: Red sandy angular fine to coarse GRAVEL of burnt shale. Some rootlets. (BURNT SHALE)	
	0.90	J,K&T					MADE GROUND: Dark brown sandy angular fine to coarse GRAVEL of concrete, bitumen, brick and pottery. Occasional gravel sized fragments of wood and metal. Low subangular cobble content of brick. (GRANULAR MADE GROUND)	
				1.90			At 1.7m, Sandstone boulder.	
							End of pit at 1.90 m	

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.		
Stability: 1. The sides of the trial pit remained stable during excavation.		

				Trial Pit Log			Trialpit No TP511 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418275.24 - 425009.41 Level:		Date 15/09/2020	
Location: Cleckheaton				Dimensions (m):		2.5		Scale 1:25	
Client: Strata Homes				Depth 1.90				Logged AP	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.50	J,K&T					MADE GROUND: Black mottled red sandy angular fine to coarse GRAVEL of brick, tile, sandstone, glass and concrete. Occasional fragments of plastic, metal and wire. Medium subangular cobble content of brick. (BRICKFILL)	
	0.80 - 1.30	D&B						
				1.60			Medium strong white thickly bedded SANDSTONE. Recovered as angular fine to coarse gravel with a high cobble content. (COAL MEASURES)	
				1.90				
At 1.3m, Angular sandstone boulder.								
At 1.9m, Bedrock - Unable to excavate further. End of pit at 1.90 m								

Remarks:		1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.	
Stability:		1. The sides of the trial pit remained stable during excavation.	



				Trial Pit Log			Trialpit No TP512 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418317.61 - 424988.87 Level:		Date 16/09/2020	
Location: Cleckheaton				Dimensions (m):		2.5 0.6		Scale 1:25	
Client: Strata Homes				Depth 2.40				Logged AP	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	J,K&T		0.30			MADE GROUND: Dark brown organic rich slightly gravelly CLAY. Gravel is angular fine to medium of brick, burnt shale and glass. Frequent rootlets and gravel sized fragments of plastic and metal. Low subangular cobble content of brick. (MADE GROUND TOPSOIL)	1
	0.90 1.00	J,K&T T					MADE GROUND: Dark reddish brown gravelly SAND. Gravel is angular fine to coarse of brick, coal and glass. Some gravel sized fragments of plastic, metal and cement sheeting (possible ACM). Medium subangular cobble content of brick and concrete. (GRANULAR MADE GROUND) <i>From 0.3m to 2.4m, Overbreak.</i>	
				1.70			Moderately weak pale grey CONCRETE. 70% aggregate of angular medium gravel of sandstone. 30% cement. Rare small irregular isolated voids. (CONCRETE)	2
	2.30	J,K&T		2.40			MADE GROUND: Black mottled red gravelly SAND with some gravel sized fragments of wood and bitumen. Gravel is angular to subangular fine to coarse of brick, burnt shale and clinker. High subangular cobble content of brick. (GRANULAR MADE GROUND) <i>From 1.9m to 2.4m, Possible weak bonded brick footing (0.4m wide) orientated east to west.</i> <i>At 2.4m, Faint oil odour.</i> <i>At 2.4m, Obstruction - Unable to excavate further.</i> End of pit at 2.40 m	

Remarks:		1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.	
Stability:		1. The sides of the trial pit were unstable between 0.3m to 2.4m depth during excavation with some overbreak in the granular strata.	



Trial Pit Log

Trialpit No

TP513

Sheet 1 of 1

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: 418265.82 - 424992.03

Level:

Date

16/09/2020

Location: Cleckheaton

Dimensions (m):

2.5

Depth
5.00

0.6

Scale

1:25

Logged
AP

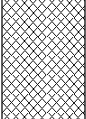
Client: Strata Homes

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.50 0.50 - 1.00	J,K&T D&B					MADE GROUND: Black mottled red gravelly SAND. Gravel is subangular to subrounded fine to coarse of clinker, brick, burnt shale, sandstone, coal and concrete. High subangular cobble content of brick, vitrified stoneware and concrete. (GRANULAR MADE GROUND) <u>From 0.0m to 3.0m, Pit wall collapse.</u> <u>From 0.3m to 2.0m, Overbreak.</u> <u>From 1.3m to 2.3m, Well bonded brick wall orientated east to west.</u> <u>At 1.3m, brick tunnel entrance with arched roof (1.0m tall x 0.8m wide).</u> <u>At 1.9m, Sandstone and concrete boulders.</u>	1
	2.90	J,K&T		2.70			MADE GROUND: Soft light grey mottled white sandy CLAY with rare greyish white angular fine to coarse gravel of sandstone. (COHESIVE MADE GROUND) <u>At 2.8m, Poorly bonded brick wall orientated north to south in east of pit.</u>	3
	4.00 4.10	J,K&T D	HVP=70 HVP=65	3.80			MADE GROUND: Firm locally soft grey mottled yellow gravelly sandy slightly CLAY. Gravel is angular fine to medium of sandstone and coal. (COHESIVE MADE GROUND) <u>At 3.8m, Groundwater seepage.</u>	4
	4.50 4.80	J,K&T D	 HVP=85	4.40 5.00			Firm grey mottled brown gravelly CLAY. Gravel is angular fine to medium of mudstone lithorelicts. (COHESIVE RESIDUAL SOIL) <u>At 5.0m, Full reach of excavator - Unable to excavate further.</u> End of pit at 5.00 m	5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater seepage was apparent at 3.8m depth during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit were unstable between 0.3m to 2.0m depth during excavation with some overbreak in the granular strata.

				Trial Pit Log			Trialpit No TP514 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418295.21 - 424987.53 Level:		Date 16/09/2020	
Location: Cleckheaton				Dimensions (m):		2.5 		Scale 1:25	
Client: Strata Homes				Depth 4.50		0.6 		Logged AP	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.30	J,K&T		0.40			MADE GROUND: Black gravelly CLAY. Grave is angular fine to medium of brick, sandstone coal, burnt shale and occasional glass. Occasional gravel to cobble sized fragments of wood and metal. Low subangular cobble content of brick. (COHESIVE MADE GROUND)	1
	0.70	J,K&T		0.60			Moderately weak pale grey CONCRETE. 70% aggregate of angular fine gravel of sandstone and brick. 30% cement matrix. Rare small irregular voids. (CONCRETE)	
	0.90	J,K&T		0.80			MADE GROUND: Red mottled white sandy angular tabular fine to coarse GRAVEL of burnt shale and sandstone. (BURNT SHALE)	
	1.00 - 1.50	D&B					MADE GROUND: Multicoloured (black, yellow & red) very clayey sandy angular fine to coarse GRAVEL of sandstone, brick, limestone, burnt shale and coal. (GRANULAR MADE GROUND)	
				2.00			MADE GROUND: Poorly bonded brick and mortar relict floor with black bitumen lining on surface. (BRICKFILL)	2
				2.20			MADE GROUND: Black sandy gravelly angular fine to medium CLAY. Gravel is angular to subangular fine to coarse of brick, burnt shale and glass. (COHESIVE MADE GROUND)	
	2.80	J,K&T					At 2.6m, Strata becomes blueish green mottled black.	
							At 2.8m, Slight odour.	
				3.00			Soft black slightly sandy CLAY. (COHESIVE MADE GROUND) From 3.0m, Strata has an oily sheen, smells strongly of oil.	3
	3.30	J,K&T						
				3.50			Soft grey mottled orange sandy CLAY. (COHESIVE RESIDUAL SOIL)	
				4.20			Firm grey mottled orange very gravelly CLAY. Gravel is angular fine to coarse of mudstone lithorelicts. (COHESIVE RESIDUAL SOIL)	4
	4.40	J&K		4.50				
End of pit at 4.50 m								5

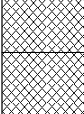
Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.		
Stability: 1. The sides of the trial pit remained stable during excavation.		

				Trial Pit Log			Trialpit No TP515 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418349.46 - 425030.91 Level:		Date 16/09/2020	
Location: Cleckheaton				Dimensions (m):		2.5 		Scale 1:25	
Client: Strata Homes				Depth 3.70				Logged AP	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	J&T		0.20			MADE GROUND: Blackish brown clay slightly gravelly SAND. Gravel is angular fine to medium of brick, burnt shale and concrete. Occasional gravel sized fragments of plastic and occasional rootlets. Low subangular cobble content of brick. (GRANULAR MADE GROUND)	1
	0.40	J&T						
	0.80	J&T						
				0.70			MADE GROUND: Orangish red slightly gravelly ash SAND. Gravel is angular fine to coarse of clinker. (ASH & CLINKER)	2
				1.00			MADE GROUND: Yellowish brown mottled black gravelly slightly sandy CLAY. Gravel is angular fine to coarse of brick, burnt shale and clinker. (COHESIVE MADE GROUND)	
							MADE GROUND: Black mottled orange gravelly ash SAND. Gravel is angular fine to coarse of clinker. (ASH & CLINKER)	
	1.80	J&T						3
								4
								5
				3.70			End of pit at 3.70 m	

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.		
Stability: 1. The sides of the trial pit remained stable during excavation.		

				Trial Pit Log			Trialpit No TP516 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418436.46 - 424978.70 Level:		Date 16/09/2020	
Location: Cleckheaton				Dimensions (m):		2.5 		Scale 1:25	
Client: Strata Homes				Depth 4.00		0.6 		Logged AP	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.30	J&T		0.10 0.40		 MADE GROUND: Black silty angular fine to coarse GRAVEL of brick, coal and ash. (HARDCORE)  MADE GROUND: Black mottled red gravelly SAND. Rare fragments of plastic. Gravel is subangular fine to coarse of brick, mortar, concrete and sandstone. High subangular cobble content of brick. (BRICKFILL)  MADE GROUND: Black mottled orangish brown gravelly SAND. Gravel is subangular to angular fine to coarse of brick, clinker, coal and mudstone. (ASH & CLINKER)		
	1.90	D&B					From 1.4m to 3.2, Overbreak.	
	3.40	J&T		3.20 4.00		 MADE GROUND: Orange slightly gravelly angular fine to medium SAND. Gravel is of clinker and sandstone. (GRANULAR MADE GROUND)		
						End of pit at 4.00 m		

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.		
Stability: 1. The sides of the trial pit were unstable between 1.4m to 3.2m depth during excavation with some overbreak in the granular strata.		

Trial Pit Log

Trialpit No

TP517

Sheet 1 of 1

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: -
Level:

Date
16/09/2020

Location: Cleckheaton

Dimensions (m):

2.5

Depth
3.40

0.6

Scale
1:25

Logged
AP

Client: Strata Homes

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	J&T		0.30			MADE GROUND: Black slightly gravelly CLAY. Gravel is angular fine to coarse of brick and concrete. Low subangular cobble content of brick and concrete. Some rootlets. (MADE GROUND TOPSOIL) <i>At 0.2m, sulphurous odour.</i>	
	0.50	J&T		0.60			MADE GROUND: Black slightly gravelly SILT. Gravel is angular fine of brick and coal. (COHESIVE MADE GROUND)	
	0.90	D					Firm grey mottled orangish brown gravelly CLAY. Gravel is subangular fine to medium of sandstone and mudstone. (COHESIVE RESIDUAL SOIL) <i>At 0.7m, Too gravelly for hand vane. At 0.8m, Dry 150mm diameter cast iron pipe.</i>	1
	2.40	D		2.10			Stiff grey mottled orangish brown gravelly CLAY. Gravel is angular fine to coarse of sandstone, mudstone and coal. (COHESIVE RESIDUAL SOIL)	2
				3.20			Weak whitish yellow SANDSTONE. Recovered as clayey angular fine to coarse gravel with a low cobble content. (COAL MEASURES) <i>At 3.4m, Bedrock - Unable to excavate further. End of pit at 3.40 m</i>	3
				3.40				4
								5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

Project Name: Westgate, Cleckheaton

Project No. 3043

Co-ords: 418427.13 - 425097.75

Level:

Date

16/09/2020

Location: Cleckheaton

Dimensions (m):

2.5

Scale

1:25

Client: Strata Homes

Depth 3.90

0.6

Logged AP

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	J&T	HVP=80	0.10			MADE GROUND: Dark brown gravelly CLAY with frequent rootlets. Gravel is angular fine to coarse of sandstone, brick, tile and limestone. (MADE GROUND TOPSOIL)	1
	0.20	J&T		0.30			MADE GROUND: Reddish brown sandy fine to coarse GRAVEL. Low cobble content. Gravel is angular fine to medium of brick and sandstone. Cobbles are of brick. (GRANULAR MADE GROUND)	
	0.40	J&T		0.50			MADE GROUND: Black gravelly SAND. Gravel is angular fine to medium of brick, clinker, coal and glass with rare house brick. (GRANULAR MADE GROUND)	
	1.00	J&T		1.60			MADE GROUND: Firm locally stiff grey mottled orange gravelly CLAY. Gravel is angular fine to coarse of brick, mudstone, sandstone, coal and burnt shale. (COHESIVE MADE GROUND) <i>At 0.9m, Lens of blackish brown gravelly clay.</i>	
	2.00	J,K&T		2.30			MADE GROUND: Black fine SAND. (GRANULAR MADE GROUND) <i>At 1.8m, An oily odour.</i>	
	2.70	J,K&T		3.00			Stiff grey mottled orange gravelly CLAY. Gravel is angular fine to coarse of sandstone and mudstone. (COHESIVE RESIDUAL SOIL) <i>At 2.5m, Groundwater seepage.</i>	
	2.80	D		3.30			Stiff reddish brown gravelly CLAY. Gravel is angular fine to medium of coal, mudstone and sandstone. (COHESIVE RESIDUAL SOIL)	
	3.60	D		3.90			<i>At 3.9m, Scratching on bedrock.</i> End of pit at 3.90 m	

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater seepage was apparent at 2.5m depth during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

Trial Pit Log

Trialpit No

TP519

Sheet 1 of 1

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: 418356.81 - 425144.06

Level:

Date

26/09/2020

Location: Cleckheaton

Dimensions (m):

2.5

Scale

1:25

Client: Strata Homes

Depth
2.40

0.6

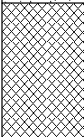
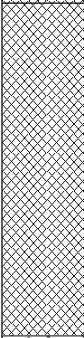
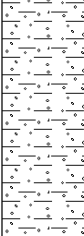
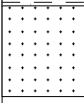
Logged
GLM

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.05	T		0.06			Medium strong dark grey MACADAM. 60% aggregate of subangular fine to medium gravel. 10% Tar matrix. 30% small to medium irregular interconnected voids. (HARDSTAND)	
	0.30	J,K&T		0.15			MADE GROUND: Brown sandy subangular fine GRAVEL of sandstone. (GRANULAR MADE GROUND)	
	0.90	D	HVP=60 HVP=72	0.70			MADE GROUND: Dark grey and brown SAND and subangular to subrounded fine to coarse GRAVEL of clinker and occasional brick, sandstone and mortar. Low subrounded to subangular cobble content of brick and clinker. (ASH & CLINKER)	1
				1.40			Firm light brown mottled grey slightly sandy CLAY. (COHESIVE RESIDUAL SOIL)	
				2.00			Brown mottled grey very gravelly CLAY. Gravel is angular, tabular medium of sandstone. (COHESIVE RESIDUAL SOIL)	2
				2.40			Medium strong grey fine to medium grained SANDSTONE. Recovered as slightly clayey slightly sandy angular tabular fine to medium gravel. (COAL MEASURES) <u>At 2.4m, refusal.</u>	3
							End of pit at 2.40 m	4
								5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

				Trial Pit Log			Trialpit No TP520 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418324.38 - 425140.59 Level:		Date 26/09/2020	
Location: Cleckheaton				Dimensions (m):		2.5 0.6		Scale 1:25	
Client: Strata Homes				Depth 2.90				Logged GLM	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	J,K&T	HVP=56	0.25		 Medium strong dark grey MACADAM. 70% aggregate of subangular fine gravel. 10% Tar matrix. 20% small irregular isolated voids. (HARDSTAND)	1	
	0.40	J,K&T		0.70	 MADE GROUND: Yellowish brown sandy subangular fine to medium GRAVEL of sandstone. (GRANULAR MADE GROUND) <i>At 0.25m, poorly bonded brick and mortar wall in East wall of pit.</i>			
				1.80	 MADE GROUND: Dark grey very sandy subrounded fine to medium GRAVEL of clinker and occasional slag, brick, sandstone and mortar. (ASH & CLINKER)			
	2.00	D		2.60	 Firm brown mottled grey gravelly slightly sandy CLAY. Gravel is angular to subangular tabular medium of sandstone. (COHESIVE RESIDUAL SOIL)	2		
				2.90		 Medium strong yellowish grey fine grained SANDSTONE. Recovered as angular, tabular fine to medium gravel. (COAL MEASURES) <i>At 2.9m, refusal.</i>	3	
End of pit at 2.90 m								5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

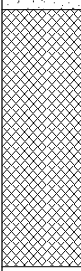
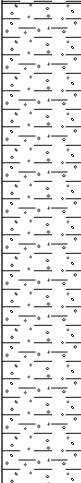


				Trial Pit Log			Trialpit No TP521 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418340.52 - 425165.21 Level:		Date 26/09/2020	
Location: Cleckheaton				Dimensions (m):		2.5 		Scale 1:25	
Client: Strata Homes				Depth 2.00		0.6 		Logged GLM	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.05	T		0.06			Moderately weak dark grey MACADAM. 70% subangular fine gravel. 20% Tar matrix. 10% small irregular isolated voids. Surfaced with subangular to subrounded fine to medium quartz gravel. (HARDSTAND)	
	0.40	J,K&T		0.20				
				0.95			MADE GROUND: Reddish brown poorly bonded cobbles of brick with mortar. (BRICKFILL) MADE GROUND: COARSE SOIL: Angular tabular COBBLES and rare small boulders of sandstone and occasional brick. With much finer content of sandy subangular to angular fine to coarse gravel of sandstone, brick and mortar. (BRICKFILL)	1
				1.30			Firm light brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is subangular, tabular fine to medium of sandstone. (COHESIVE RESIDUAL SOIL)	
				1.80			Stiff brown mottled grey gravelly CLAY. Gravel is angular medium to coarse of SANDSTONE. (COHESIVE RESIDUAL SOIL)	
				2.00			Medium strong grey fine to medium grained SANDSTONE. Recovered as slightly clayey angular fine gravel. (COAL MEASURES)	2
							At 1.9m, refusal.	
							End of pit at 2.00 m	
								3
								4
								5

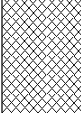
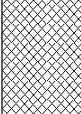
Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.		
Stability: 1. The sides of the trial pit remained stable during excavation.		

				Trial Pit Log			Trialpit No TP522 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418351.57 - 425121.20 Level:		Date 26/09/2020	
Location: Cleckheaton				Dimensions (m):		2.5 		Scale 1:25	
Client: Strata Homes				Depth 3.60		0.6 		Logged GLM	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.03	T		0.05			Medium strong dark grey MACADAM. 70% aggregate of subangular fine gravel. 20% Tar matrix. 10% small irregular isolated voids. (HARDSTAND) MADE GROUND: Dark brown gravelly ash SAND. Gravel is subangular to subrounded fine to coarse of brick, mortar and clinker. Medium subangular cobble content of brick. (ASH & CLINKER) <i>From 0.2m to 1.0m, poorly bonded brick and mortar wall runs North to South through centre of pit.</i>		
	0.50	J,K&T		0.90				Firm light brown mottled grey CLAY. (COHESIVE RESIDUAL SOIL)	1
	1.20	D	HVP=70 HVP=74	2.00				<i>From 1.8m to 2.5m, poorly bonded bricks and angular, tabular cobbles of sandstone in north wall.</i>	2
				3.60			Firm brown mottled grey gravelly CLAY. Gravel is angular medium to coarse of SANDSTONE. (COHESIVE RESIDUAL SOIL)	3	
							End of pit at 3.60 m	4	
								5	

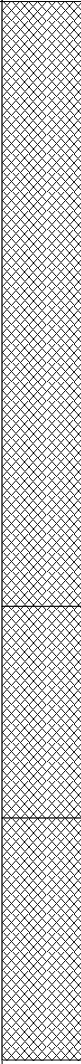
Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.	
Stability: 1. The sides of the trial pit remained stable during excavation.	

				Trial Pit Log			Trialpit No TP523 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418448.28 - 425057.31 Level:		Date 26/09/2020	
Location: Cleckheaton				Dimensions (m):		2.5 		Scale 1:25	
Client: Strata Homes				Depth 3.80				Logged GLM	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	J,K&T		0.40			MADE GROUND: Dark brown gravelly ash SAND and subangular to subrounded fine to medium GRAVEL of clinker and occasional slag, burnt shale and mudstone. (ASH & CLINKER)	1
	0.50	J,K&T					MADE GROUND: Yellowish brown SAND and subangular to subrounded fine to medium GRAVEL of predominantly sandstone and occasional brick, clinker and burnt shale. (GRANULAR MADE GROUND)	
	1.50	J,K&T		1.30			MADE GROUND: Purplish brown very sandy subangular to rounded fine to coarse GRAVEL of clinker, slag, concrete and mudstone. Sand is predominantly of ash. Rare gravel sized fragments of wood. Low subangular cobble content of brick. (ASH & CLINKER)	2
				3.80			End of pit at 3.80 m	4
								5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.		
Stability: 1. The sides of the trial pit remained stable during excavation.		

				Trial Pit Log			Trialpit No TP524 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418299.06 - 424958.83 Level:		Date 26/09/2020	
Location: Cleckheaton				Dimensions (m):		2.5 		Scale 1:25	
Client: Strata Homes				Depth 3.50		0.6 		Logged GLM	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.50	J,K&T					MADE GROUND: Greyish brown gravelly slightly clayey SAND. Gravel is subangular to subrounded fine to coarse of brick with occasional mortar, concrete and sandstone. Low subangular cobble content of brick. Occasional gravel to cobble sized fragments of plastic, wood and metal sheet. (GRANULAR MADE GROUND)	1
	2.30	J,K&T		2.00			MADE GROUND: Grey mottled light brown CLAY. Open fissures with sand and gravel fill. Seepage of groundwater with hydrocarbon smell and blackish grey staining along fissures. (COHESIVE MADE GROUND) <u>At 2.2m, groundwater seepage.</u>	2
	3.00	J,K&T		2.70			MADE GROUND: Black angular to subangular fine to medium GRAVEL of mudstone and occasional clinker, brick and burnt shale. Occasional gravel to cobble sized fragments of timber and metal. (GRANULAR MADE GROUND)	3
				3.50			End of pit at 3.50 m	4
								5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was apparent at 2.2m during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.		
Stability: 1. The sides of the trial pit remained stable during excavation.		

				Trial Pit Log			Trialpit No TP525 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418282.60 - 424946.09 Level:		Date 26/09/2020	
Location: Cleckheaton				Dimensions (m):		2.5 		Scale 1:25	
Client: Strata Homes				Depth 3.40		0.6 		Logged GLM	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
▼	0.70	J,K&T		1.80			MADE GROUND: COARSE SOIL: Subangular COBBLES of brick and occasional mortar, concrete and sandstone with many subangular small to large BOULDERS of concrete and well bonded brick and mortar. With much finer material of sandy slightly clayey angular to subangular fine to coarse gravel of brick and concrete. With some gravel sized fragments of wire, metal, plastic and wood. (BRICKFILL) <i>From 0.1m to 1.8m, overbreak and spalling.</i>	1
	2.00	J,K&T					<i>From 1.0m to 1.8m, brick and concrete structure in South of pit.</i>	
	3.00	J		3.40			MADE GROUND: Very soft black SILT. (COHESIVE MADE GROUND) <i>At 2.8m, groundwater inflow.</i>	3
							End of pit at 3.40 m	4
								5

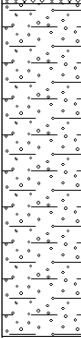
Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater inflow was apparent at 2.8m during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit were unstable between 0.1m and 1.8m depth during excavation with some overbreak in the granular strata.





				Trial Pit Log			Trialpit No TP528 Sheet 1 of 1		
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418327.80 - 424931.21 Level:		Date 26/09/2020	
Location: Cleckheaton				Dimensions (m):		2.5 		Scale 1:25	
Client: Strata Homes				Depth 2.00				Logged GLM	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.10		 MADE GROUND: Buff slightly sandy subangular to subrounded fine to medium GRAVEL of limestone. (GRANULAR MADE GROUND)  MADE GROUND: Dark brown slightly sandy subangular to subrounded fine to medium GRAVEL of clinker and occasional mudstone and burnt shale. (ASH & CLINKER)		
				0.90			 Light brown very clayey slightly sandy subrounded fine to medium GRAVEL of sandstone. (GRANULAR ALLUVIUM)	1
				2.00		 At 1.8m, stone culvert exposed with groundwater ingress.	2	
						End of pit at 2.00 m		
								3
								4
								5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.		
Stability: 1. The sides of the trial pit remained stable during excavation.		

Appendix G

Borehole Logs



Borehole Log

Borehole No.
BH501

Sheet 2 of 2

Project Name: Westgate, Cleckheaton

Project No. 3043

Co-ords: 418246E - 425050N

Hole Type
CP

Location: Cleckheaton

Level: 100.85 m AOD

Scale
1:50

Client: Strata Homes

Dates: 14/09/2020

Logged By
GLM

Borehole Log

Borehole No.

BH502

Sheet 1 of 2

Project Name:

Westgate, Cleckheaton

Project No.

3043

Co-ords:

418433E - 424993N

Hole Type

CP

Location:

Cleckheaton

Level:

96.00 m AOD

Scale

1:50

Client:

Strata Homes

Dates:

14/09/2020

Logged By

GLM

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was encountered at 5.5m and rose to 4.42m after 10 minutes. 3. The borehole was advanced by chiselling from 9.7m to 10.2m (0.5 hours).

Rotary Core Log

Borehole No.

BH502

Sheet 2 of 2

Project Name: Westgate, Cleckheaton

Project No. 3043

Co-ords: 418433.45 - 424992.56

Hole Type CP

Location: Cleckheaton

Level: 96.00

Scale 1:50

Client: Strata Homes

Dates: 14/09/2020 - 15/09/2020

Logged By GLM

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description		
				TCR	SCR for 90m m/50 ~~65~~ 235m m)	RQD						
		9.80 - 11.20	10	85	for 90m m/50 ~~65~~ 235m m)	37	11.80	84.20		MADE GROUND: Grey and brown sandy subangular fine to coarse GRAVAEL of sandstone and occasional mudstone. (GRANULAR MADE GROUND)		
			1									Medium strong grey fine grained SANDSTONE. (COAL MEASURES)
		11.20 - 12.70	1	90	53	0						Strong grey fine grained SANDSTONE with closely to very closely spaced laminations and cross laminations of dark grey siltstone. Discontinuties are closely spaced horizontal and vertical, undulating, rough, closed with dark grey staining on surfaces and orangish brown staining penetrating up to 140mm. (COAL MEASURES)
										10.2m unable to advance further into bedrock using percussive methods. Borehole advanced using rotary cored methods.		
										10.7m to 10.8m very closely spaced fractures. Partly recovered as angular medium gravel.		
										10.8m to 10.9m with thin beds of very closely fractured dark grey mudstone.		
		12.70 - 15.70	2	49	19	0	12.70	83.30		11.35m to 11.4m extremely closely spaced fractures with up to 4mm of grey sandy clay fill.		
												Weak dark grey thinly laminated MUDSTONE. Discontinuities are extremely closely spaced, horizontal, occasionally subvertical, planar, smooth, closed, clean. (COAL MEASURES)
						12.55m to 12.7m mudstone is extremely weak; partly recovered as firm grey clay with gravel of mudstone lithorelicts.						
						Moderately weak dark grey MUDSTONE with closely spaced thick laminations and thin beds of grey siltstone. Discontinuities are very closely spaced, horizontal and vertical, planar, smooth, closed with up to 1mm of soft grey clay on surfaces. (COAL MEASURES)						
						13.6m to 13.75m mudstone is very weak with extremely closely spaced randomly orientated fractures with grey clay on surfaces.						
						16.1m to 16.2m mudstone is very weak.						
		15.70 - 17.10	2	94	28	0	17.10	78.90		16.6m to 17.0m single subvertical planar smooth closed clean fracture cuts core.		
										End of Borehole at 17.100m		
											18	
											19	
											20	

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was encountered at 5.5m and rose to 4.42m after 10 minutes. 3. The borehole was advanced by chiselling from 9.7m to 10.2m (0.5 hours).

LITHOS CONSULTING							Borehole Log			Borehole No. BH503 Sheet 1 of 2	
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418464E - 425120N			Hole Type CP		
Location: Cleckheaton						Level: 100.40 m AOD			Scale 1:50		
Client: Strata Homes						Dates: 15/09/2020			Logged By RR		
Well	Water Strikes	Sample and In Situ Testing				Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results							
		1.00 - 1.45 1.00	D S	N=9 (4,4/4,3,1,1)			100.40		MADE GROUND: Dark brown clayey slightly sandy subangular fine to coarse GRAVEL of clinker, brick and mixed lithologies. (ASH & CLINKER)	1	
		2.00 - 2.45 2.00	D S	N=6 (3,2/2,2,1,1)			98.40			MADE GROUND: Dark brown gravelly slightly sandy CLAY. Gravel is angular to subrounded fine to coarse of sandstone, burnt shale, clinker, slag and occasional coal and concrete. With rare fragments of timber. (COHESIVE MADE GROUND)	2
		3.00 - 3.45 3.00	D S	N=1 (1,0/0,1,0,0)						3	
		4.00 - 4.45 4.00	D S	N=11 (6,4/3,3,3,2)						4	
		5.00 - 5.45 5.00	D S	N=5 (2,1/2,1,1,1)						5	
		6.00 - 6.45 6.00	D S	N=6 (1,2/1,2,1,2)						6	
		7.50 - 7.95 7.50	D S	N=9 (3,3/3,3,1,2)			93.70		MADE GROUND: Brown gravelly CLAY. Gravel is subangular medium to coarse of sandstone and occasional brick. (COHESIVE MADE GROUND)	7	
		8.00 - 9.45	D							8	
		9.00	C	50 (25 for 125mm/50 for 265mm)			91.40		Medium strong yellowish grey fine grained	9	
		9.20 - 9.30	D				9.20			SANDSTONE. Recovered as subangular fine gravel. (COAL MEASURES)	
	9.20 - 10.70		76	67	29		9.2m unable to advance further into bedrock using percussive methods. Borehole advanced using			10	
		FI	TCR	SCR	RQD						

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during drilling.



Rotary Core Log

Borehole No.

BH503

Sheet 2 of 2

Project Name: Westgate, Cleckheaton

Project No. 3043

Co-ords: 418464.41 - 425120.19

Hole Type CP

Location: Cleckheaton

Level: 100.40

Scale 1:50

Client: Strata Homes

Dates: 15/09/2020

Logged By RR

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		10.70 - 11.00	6				11.40 11.60 12.40	89.00 88.80 88.00		Medium strong yellowish grey fine grained SANDSTONE. Recovered as subangular fine gravel. (COAL MEASURES)	
				97	57	0				9.2m unable to advance further into bedrock using percussive methods. Borehole advanced using rotary cored methods.	
		11.00 - 12.40	1	67	36	8				Strong grey fine grained SANDSTONE with very closely spaced dark grey cross laminations of mudstone. Discontinuities are very closely to closely spaced horizontal, occasionally subhorizontal, undulating, rough, closed with dark grey staining on surfaces. (COAL MEASURES)	
										9.2m with subangular gravel of brick and sandstone; result of disturbance during drilling & not in-situ materials.	
		12.40 - 13.90	2	63	32	0				Recovered as very clayey fine GRAVEL of mudstone and siltstone. (COAL MEASURES)	
13.90 - 15.40	1	68		41	0	Moderately weak dark grey thinly to thickly laminated SILTSTONE. Discontinuities are extremely to very closely spaced horizontal and vertical planar, occasionally stepped, smooth, closed, predominantly clean, occasionally with up to 1mm of grey clay on surfaces. (COAL MEASURES)					
										11.7m to 11.8m extremely closely spaced randomly orientated fractures with up to 5mm of soft grey clay will and weakening of surrounding rock for up to 10mm. Partly recovered as clayey angular fine gravel.	
									Weak dark grey MUDSTONE with closely spaced thin laminations of grey siltstone. Discontinuities are extremely closely to very closely spaced, horizontal and vertical, planar, smooth, open (likely due to drilling) clean. (COAL MEASURES)		
									12.4m to 14.5m partly recovered as subangular tabular fine to coarse gravel.		
									14.45m to 14.5m extremely closely spaced fractures with grey clay will and weakening of surrounding rock mass up to 8mm. Weakened rock degrades to clay with moderate effort when handled.		
									14.9m to 15.0m subvertical planar smooth open fracture with up to 30mm of grey gravelly clay fill cuts core.		
									End of Borehole at 15.400m		

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during drilling.



Borehole Log

Borehole No.

BH504

Sheet 1 of 2

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: 418426.76 - 425027.10

Hole Type
CP

Location: Cleckheaton

Level: 97.55

Scale
1:50

Client: Strata Homes

Dates: 15/09/2020 - 15/09/2020

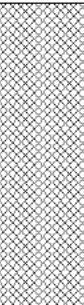
Logged By
GLM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10			0.10	97.45		MADE GROUND: Dark grey sandy subangular fine to medium GRAVEL of macadam. (GRANULAR HARDCORE)	
		1.00		N=2 (1,0/1,0,1,0)				MADE GROUND: Brown slightly clayey ash SAND and subangular to subrounded fine to coarse GRAVEL of clinker and occasional brick, mudstone, coal and burnt shale. (ASH & CLINKER)	1
		1.20	D						
		2.00		N=7 (2,1/1,2,2,2)					2
		2.00	D						
		3.00		N=7 (2,2/1,1,2,3)					3
		3.00	D						
		4.00		N=6 (1,2/1,1,2,2)					4
		4.00	D						
		5.00		N=6 (1,2/1,1,2,2)					5
		5.00	D						
		6.00		N=7 (2,3/2,2,1,2)					6
		6.00	D						
		7.50		N=13 (2,4/3,3,3,4)				7.5m groundwater struck. Rose to 7.30m in 10 minutes.	7
		7.50	D						8
		9.00		N=7 (3,4/1,3,1,2)					9
		9.00	D						10

Continued on next sheet

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was encountered at 7.5m and rose to 7.3m in 10 minutes.

				Borehole Log				Borehole No. BH504 Sheet 2 of 2	
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418426.76 - 425027.10		Hole Type CP	
Location: Cleckheaton				Level: 97.55		Scale 1:50			
Client: Strata Homes				Dates: 15/09/2020 - 15/09/2020		Logged By GLM			
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.50	D	N=17 (7,7/6,4,3,4)	12.00	85.55			11
		10.50							
								End of borehole at 12.00 m	13
									14
									15
									16
									17
									18
									19
									20
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was encountered at 7.5m and rose to 7.3m in 10 minutes.									

Borehole Log

Borehole No.

BH505

Sheet 1 of 1

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: 418482.43 - 425061.16

Hole Type
CP

Location: Cleckheaton

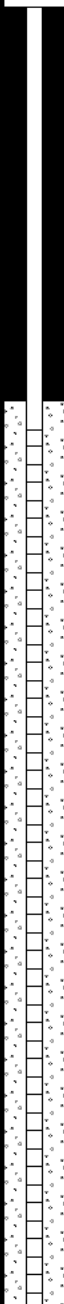
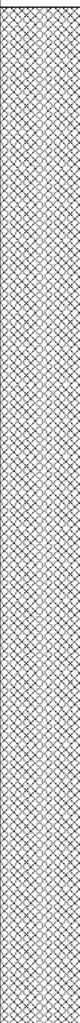
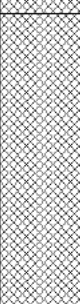
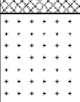
Level: 98.90

Scale
1:50

Client: Strata Homes

Dates: 15/09/2020 - 16/09/2020

Logged By
RR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
		Depth (m)	Type	Results							
		1.00 1.00 - 1.45	D	N=26 (2,4/5,7,7,7)	6.80	92.10		MADE GROUND: Dark brownish grey sandy angular to subrounded fine to coarse GRAVEL of predominantly clinker, occasional mudstone, brick and slag and rare glass, concrete and glass. Sand includes ash. (ASH & CLINKER)	1		
		2.00 2.00 - 2.45	D	N=0 (1,0/0,0,0,0)					2		
		3.00 3.00 - 3.45	D	N=0 (1,1/0,0,0,0)					3		
		4.00 4.00 - 4.45	D	N=4 (2,2/1,1,1,1)					4		
		5.00 5.00 - 5.45	D	N=4 (2,2/1,1,1,1)					5		
		6.00 6.00 - 6.45	D	N=8 (2,3/2,2,2,2)					6		
		7.50 7.50 - 7.95	D	N=8 (3,2/1,2,3,2)	8.80	90.10		MADE GROUND: Light yellowish brown gravelly CLAY. Gravel is subangular fine to coarse of sandstone and occasional burnt shale. (COHESIVE MADE GROUND)	7		
		9.00 9.00 - 9.45	D	N=50 (10,12/15,15,16,4)					8		
							9.50	89.40		Medium strong yellowish grey fine grained SANDSTONE. Recovered as subangular fine gravel.	9
							9.5m unable to advance further into bedrock using percussive methods. End of borehole at 9.50 m				10

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during drilling.

Borehole Log

Borehole No.

BH506

Sheet 1 of 1

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: 418349.63 - 425045.48

Hole Type
CP

Location: Cleckheaton

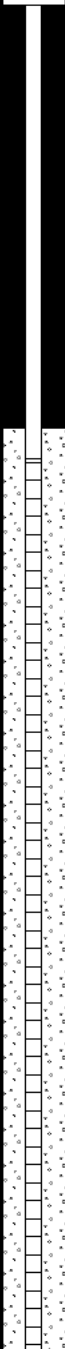
Level: 100.50

Scale
1:50

Client: Strata Homes

Dates: 15/09/2020 - 16/09/2020

Logged By
GLM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND: Gravelly slightly silty SAND. Gravel is subangular fine to coarse of brick and occasional concrete and mortar. Medium subangular cobble content of brick and sandstone. Some roots. (GRANULAR MADE GROUND) <i>0.9m to 1.1m concrete obstruction chiselled through for c. 20 minutes; likely boulder/buried floor slab.</i>	1
		2.00 2.00	D	N=34 (5,6/7,7,9,11)	1.70 2.30	98.80 98.20		MADE GROUND: Dark grey clayey medium SAND. (GRANULAR MADE GROUND)	2
		3.00 3.00	D	N=15 (6,9/6,3,3,3)				MADE GROUND: Red gravelly SAND. Gravel is subangular fine to clinker, slag and mudstone. (GRANULAR MADE GROUND)	3
		4.00 4.00	D	N=46 (6,9/9,9,9,19)	4.30	96.20			4
		5.00 5.00	D	N=11 (4,3/3,3,3,2)				MADE GROUND: Stiff friable yellowish brown gravelly CLAY. Gravel is angular tabular fine of sandstone and occasional burnt shale, mudstone, clinker and brick. (COHESIVE MADE GROUND)	5
		6.00 6.00	D	N=12 (3,3/3,4,2,3)					6
		7.50 7.50	D	N=12 (6,6/3,3,3,3)				<i>7.5m groundwater struck. Rose to 7.2. in 5 minutes.</i>	7
		9.00 9.00	D	N=10 (3,2/2,3,2,3)	9.00	91.50		End of borehole at 9.00 m	9
									10

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was encountered at 7.5m and rose to 7.2m after 5 minutes. 3. The borehole was advanced by chiselling from 0.9m to 1.1m (0.3 hrs).

Borehole Log

Borehole No.

BH507

Sheet 1 of 1

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: 418319.80 - 424933.95

Hole Type
CP

Location: Cleckheaton

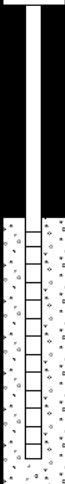
Level: 94.75

Scale
1:50

Client: Strata Homes

Dates: 16/09/2020 - 16/09/2020

Logged By
RR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.50			0.50	94.25		MADE GROUND: Grey mottled red slightly silty subangular fine to coarse GRAVEL of limestone, brick, concrete and mortar. With occasional gravel sized fragments of plastic. Low subangular cobble content of brick. (GRANULAR MADE GROUND)	
		1.00 - 1.45	D	N=9 (2,3/2,3,2,2)	1.20	93.55		MADE GROUND: Dark grey very sandy gravelly CLAY/SILT. Sand includes ash. Gravel is subangular fine to medium or brick, concrete and clinker. (COHESIVE MADE GROUND)	1
		2.00 - 2.45	D	N=19 (3,3/4,5,5,5)				1.0m groundwater struck. Rose to 0.82m in 5 minutes.	2
		3.00 - 3.45	D	N=19 (2,4/4,4,5,6)				MADE GROUND: Reddish brown slightly clayey slightly sandy angular to subangular fine to coarse GRAVEL of brick and occasional mudstone, sandstone and mortar. Likely with a high subangular cobble content of brick in-situ. (GRANULAR MADE GROUND)	3
		4.00 - 4.45	D	50 (25 for 145mm/50 for 255mm)	3.60	91.15		Very weak grey MUDSTONE. Becoming stronger with depth. (COAL MEASURES)	4
					4.40	90.35		4.4m unable to advance further into bedrock using percussive methods. End of borehole at 4.40 m	5
									6
									7
									8
									9
									10

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was encountered from 1.0m during drilling.

Borehole Log

Borehole No.

BH508

Sheet 1 of 1

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: 418347.37 - 424933.57

Hole Type
CP

Location: Cleckheaton

Level: 94.70

Scale
1:50

Client: Strata Homes

Dates: 17/09/2020 - 17/09/2020

Logged By
RR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10			0.10	94.60		Strong buffish grey CONCRETE. 60% aggregate of subangular to subrounded fine to medium gravel of mixed lithologies. 35% cement matrix. 5% irregular small isolated voids. With 5mm steel reinforcement at base. (CONCRETE)	1
		1.00 1.00 - 1.45	D	N=5 (1,1/1,1,1,2)	0.70	94.00		MADE GROUND: Buff sandy subangular medium GRAVEL of limestone. (SUB-BASE)	
		2.00 2.00 - 2.45	D	N=14 (2,2/3,3,4,4)	1.80	92.90		MADE GROUND: Firm blackish brown gravelly slightly sandy CLAY. Gravel is subangular to subrounded fine to coarse of mixed lithologies, clinker and brick. (COHESIVE MADE GROUND)	2
		2.50 - 2.95	U					Firm brown sandy CLAY. Rare subangular fine gravel of mixed lithologies and coal. (COHESIVE ALLUVIUM)	
		3.00 3.00 - 3.45	D	N=46 (6,6/8,8,20,10)	3.00	91.70		Weak dark grey MUDSTONE. (COAL MEASURES) <u>3.2m groundwater struck. Rose to 2.7m in 5 minutes.</u>	3
		4.00 4.00 - 4.45	D	N=50 (12,12/12,12,14,12)	4.40	90.30		End of borehole at 4.40 m	4
									5
									6
									7
									8
									9
									10

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was encountered from 3.2m during drilling.



Appendix H
Rotary Probehole & Stitch-hole Logs

Borehole Log

Borehole No.

PH501

Sheet 1 of 1

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: 418485.04 - 425151.91

Hole Type
PH

Location: Cleckheaton

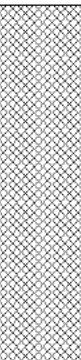
Level: 100.10

Scale
1:50

Client: Strata Homes

Dates: 22/09/2020 - 22/09/2020

Logged By
GLM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					2.40	97.70		MADE GROUND. Veneer of cobbles at surface. (COHESIVE MADE GROUND)	1
								Buff SANDSTONE. (COAL MEASURES)	2
									3
									4
									5
									6
									7
									8
					9.00	91.10		End of borehole at 9.00 m	9
									10

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.

Borehole Log

Borehole No.

PH502

Sheet 1 of 1

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: 418511.61 - 425028.38

Hole Type
PH

Location: Cleckheaton

Level: 92.95

Scale
1:50

Client: Strata Homes

Dates: 22/09/2020 - 22/09/2020

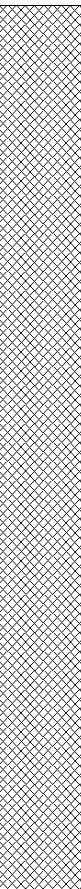
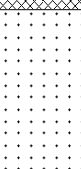
Logged By
GLM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (COHESIVE MADE GROUND)	
					6.00	86.95			
								Buff SANDSTONE. (COAL MEASURES)	
					9.00	83.95			
								End of borehole at 9.00 m	

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.

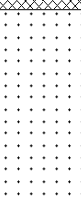
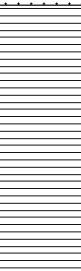
					Borehole Log			Borehole No. PH503 Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418488.40 - 425025.84		Hole Type PH
Location: Cleckheaton					Level: 92.80		Scale 1:50		Logged By GLM
Client: Strata Homes					Dates: 22/09/2020 - 22/09/2020				

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (COHESIVE MADE GROUND)	1
									2
									3
									4
					5.90	86.90		Buff SANDSTONE. (COAL MEASURES)	5
									6
					7.00	85.80		Grey MUDSTONE. (COAL MEASURES)	7
									8
					9.00	83.80		End of borehole at 9.00 m	9
									10

Remarks
 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.



					Borehole Log			Borehole No. PH504 Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418490.66 - 425023.12		Hole Type PH
Location: Cleckheaton					Level: 92.70		Scale 1:50		Logged By GLM
Client: Strata Homes					Dates: 22/09/2020 - 22/09/2020				

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (COHESIVE MADE GROUND)	1
									2
									3
									4
					5.90	86.80		Buff SANDSTONE. (COAL MEASURES)	6
					7.20	85.50		Grey MUDSTONE. (COAL MEASURES)	7
					9.00	83.70		End of borehole at 9.00 m	9
									10

Remarks
 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.



Borehole Log

Borehole No.

PH505

Sheet 1 of 1

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: 418450.88 - 425112.35

Hole Type
PH

Location: Cleckheaton

Level: 100.50

Scale
1:50

Client: Strata Homes

Dates: 23/09/2020 - 23/09/2020

Logged By
GLM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (ASH & CLINKER)	
									1
									2
									3
									4
									5
					6.00	94.50		End of borehole at 6.00 m	6
									7
									8
									9
									10

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.

Borehole Log

Borehole No.

PH506

Sheet 1 of 1

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: 418458.92 - 425085.94

Hole Type
PH

Location: Cleckheaton

Level: 100.00

Scale
1:50

Client: Strata Homes

Dates: 23/09/2020 - 23/09/2020

Logged By
GLM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (COHESIVE MADE GROUND)	
									1
									2
									3
									4
									5
					6.00	94.00		End of borehole at 6.00 m	6
									7
									8
									9
									10

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.

Borehole Log

Borehole No.

PH508

Sheet 1 of 2

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: 418439.96 - 425005.70

Hole Type
PH

Location: Cleckheaton

Level: 96.35

Scale
1:50

Client: Strata Homes

Dates: 23/09/2020 - 23/09/2020

Logged By
GLM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (ASH & CLINKER)	
									1
									2
									3
									4
									5
									6
									7
									8
									9
					10.00	86.35			10

Continued on next sheet

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.

				Borehole Log				Borehole No. PH509 Sheet 1 of 2	
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418428.42 - 425016.20		Hole Type PH	
Location: Cleckheaton				Level: 97.15		Scale 1:50			
Client: Strata Homes				Dates: 23/09/2020 - 23/09/2020		Logged By GLM			
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (ASH & CLINKER)	
									1
									2
									3
									4
									5
									6
									7
									8
									9
									10
Continued on next sheet									
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

					Borehole Log			Borehole No. PH509 Sheet 2 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418428.42 - 425016.20		Hole Type PH
Location: Cleckheaton					Level: 97.15		Scale 1:50		
Client: Strata Homes					Dates: 23/09/2020 - 23/09/2020		Logged By GLM		

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					10.40	86.75		SOLID (COAL MEASURES) <i>Flush lost during drilling through made ground.</i>	11
					12.00	85.15			12
								End of borehole at 12.00 m	13
									14
									15
									16
									17
									18
									19
									20

Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.								

Borehole Log

Borehole No.

PH510

Sheet 1 of 2

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: 418416.08 - 425030.34

Hole Type
PH

Location: Cleckheaton

Level: 97.90

Scale
1:50

Client: Strata Homes

Dates: 23/09/2020 - 23/09/2020

Logged By
GLM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (COHESIVE MADE GROUND)	
									1
									2
									3
									4
									5
									6
									7
									8
									9
					10.00	87.90			10

Continued on next sheet

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.

					Borehole Log			Borehole No. PH510 Sheet 2 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418416.08 - 425030.34		Hole Type PH
Location: Cleckheaton					Level: 97.90		Scale 1:50		Logged By GLM
Client: Strata Homes					Dates: 23/09/2020 - 23/09/2020				

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
							 Solid. (COAL MEASURES) <i>Flush lost during drilling through made ground.</i>		
								11	
								12	
								13	
								14	
					15.00	82.90		15	
							End of borehole at 15.00 m	16	
								17	
								18	
								19	
								20	

Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.								



Borehole Log

Borehole No.

PH512

Sheet 1 of 2

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: 418389.05 - 425076.54

Hole Type
PH

Location: Cleckheaton

Level: 99.75

Scale
1:50

Client: Strata Homes

Dates: 23/09/2020 - 23/09/2020

Logged By
GLM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (GRANULAR MADE GROUND)	
									1
									2
									3
									4
									5
									6
									7
					7.80	91.95		Buff SANDSTONE. (COAL MEASURES)	8
									9
									10

Continued on next sheet

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.

					Borehole Log			Borehole No. PH512 Sheet 2 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418389.05 - 425076.54		Hole Type PH
Location: Cleckheaton					Level: 99.75		Scale 1:50		
Client: Strata Homes					Dates: 23/09/2020 - 23/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					12.00	87.75			
End of borehole at 12.00 m									11
									12
									13
									14
									15
									16
									17
									18
									19
									20
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

Borehole Log

Borehole No.

PH513

Sheet 1 of 1

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: 418345.10 - 425160.49

Hole Type
PH

Location: Cleckheaton

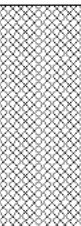
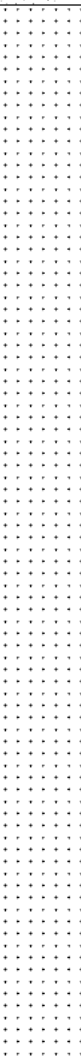
Level: 105.25

Scale
1:50

Client: Strata Homes

Dates: 26/09/2020 - 26/09/2020

Logged By
AP

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					1.50	103.75		MADE GROUND. (COHESIVE MADE GROUND)	1
					2.00	103.25		Yellowish brown sandy CLAY. (WEATHERED COAL MEASURES)	2
								Buff SANDSTONE. (COAL MEASURES)	3 4 5 6 7 8
					9.00	96.25		End of borehole at 9.00 m	9 10

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.

Borehole Log

Borehole No.

PH514

Sheet 1 of 2

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: 418345.00 - 425071.16

Hole Type
PH

Location: Cleckheaton

Level: 101.55

Scale
1:50

Client: Strata Homes

Dates: 26/09/2020 - 26/09/2020

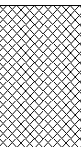
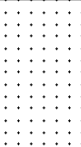
Logged By
AP

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (GRANULAR MADE GROUND)	
									1
									2
									3
									4
									5
									6
									7
									8
									9
									10

Continued on next sheet

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.

					Borehole Log			Borehole No. PH514 Sheet 2 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418345.00 - 425071.16		Hole Type PH
Location: Cleckheaton					Level: 101.55		Scale 1:50		
Client: Strata Homes					Dates: 26/09/2020 - 26/09/2020		Logged By AP		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					11.00	90.55		Buff SANDSTONE. (COAL MEASURES)	11
					12.00	89.55			12
							End of borehole at 12.00 m		13
									14
									15
									16
									17
									18
									19
									20
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

Borehole Log

Borehole No.

PH515

Sheet 1 of 1

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: 418314.41 - 425052.81

Hole Type
PH

Location: Cleckheaton

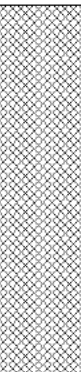
Level: 100.85

Scale
1:50

Client: Strata Homes

Dates: 28/09/2020 - 28/09/2020

Logged By
GLM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					2.50	98.35		MADE GROUND. (GRANULAR MADE GROUND)	1
								Buff SANDSTONE. (COAL MEASURES)	2
									3
									4
									5
									6
					7.00	93.85		Grey MUDSTONE. (COAL MEASURES)	7
									8
					9.00	91.85		End of borehole at 9.00 m	9
									10

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.

Borehole Log

Borehole No.

PH516

Sheet 1 of 2

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: 418280.06 - 425042.48

Hole Type
PH

Location: Cleckheaton

Level: 101.05

Scale
1:50

Client: Strata Homes

Dates: 28/09/2020 - 28/09/2020

Logged By
GLM

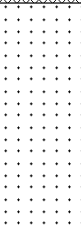
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (GRANULAR MADE GROUND)	
									1
									2
									3
									4
									5
									6
									7
									8
									9
									10

Continued on next sheet

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.

					Borehole Log			Borehole No. PH516 Sheet 2 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418280.06 - 425042.48		Hole Type PH
Location: Cleckheaton					Level: 101.05		Scale 1:50		
Client: Strata Homes					Dates: 28/09/2020 - 28/09/2020		Logged By GLM		

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					10.50	90.55		Buff SANDSTONE. (COAL MEASURES)	11
					12.00	89.05			12
							End of borehole at 12.00 m		13
									14
									15
									16
									17
									18
									19
									20

Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.								

Borehole Log

Borehole No.

PH517

Sheet 1 of 1

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: 418254.40 - 425039.51

Hole Type
PH

Location: Cleckheaton

Level: 100.90

Scale
1:50

Client: Strata Homes

Dates: 28/09/2020 - 28/09/2020

Logged By
GLM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (GRANULAR MADE GROUND)	
									1
									2
									3
									4
									5
					6.00	94.90			6
								Grey MUDSTONE. (COAL MEASURES)	
									7
									8
					9.00	91.90			9
								End of borehole at 9.00 m	
									10

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.

Borehole Log

Borehole No.

PH518

Sheet 1 of 1

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: 418250.20 - 425026.37

Hole Type
PH

Location: Cleckheaton

Level: 100.70

Scale
1:50

Client: Strata Homes

Dates: 28/09/2020 - 28/09/2020

Logged By
GLM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (GRANULAR MADE GROUND)	
					4.00	96.70		Buff SANDSTONE. (COAL MEASURES)	
					7.50	93.20		End of borehole at 7.50 m	

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.

Borehole Log

Borehole No.

PH519

Sheet 1 of 1

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: 418313.87 - 424994.57

Hole Type
PH

Location: Cleckheaton

Level: 98.35

Scale
1:50

Client: Strata Homes

Dates: 28/09/2020 - 28/09/2020

Logged By
GLM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (GRANULAR MADE GROUND)	
					3.00	95.35			1
									2
									3
								Buff SANDSTONE. (COAL MEASURES)	
									4
					5.00	93.35			5
								End of borehole at 5.00 m	
									6
									7
									8
									9
									10

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.

Borehole Log

Borehole No.

PH520

Sheet 1 of 1

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: 418283.24 - 424982.65

Hole Type
PH

Location: Cleckheaton

Level: 97.80

Scale
1:50

Client: Strata Homes

Dates: 28/09/2020 - 28/09/2020

Logged By
GLM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (GRANULAR MADE GROUND)	
					4.00	93.80		Buff SANDSTONE. (COAL MEASURES)	
					8.00	89.80		End of borehole at 8.00 m	

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.

					Borehole Log			Borehole No. ST501A Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418466.65 - 425133.00		Hole Type PH
Location: Cleckheaton					Level: 100.35		Scale 1:50		
Client: Strata Homes					Dates: 22/09/2020 - 22/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (ASH & CLINKER)	1
									2
									3
									4
									5
									6
					7.00	93.35			7
								SOLID. (COAL MEASURES) <i>Flush lost during drilling through made ground.</i>	8
					9.00	91.35			9
								End of borehole at 9.00 m	10
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

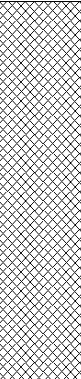
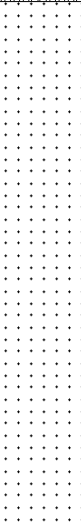
					Borehole Log			Borehole No. ST501B Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418466.85 - 425135.11		Hole Type PH
Location: Cleckheaton					Level: 100.35		Scale 1:50		Logged By GLM
Client: Strata Homes					Dates: 23/09/2020 - 23/09/2020				

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (ASH & CLINKER)	1
									2
									3
									4
									5
									6
					7.00	93.35			7
								Buff SANDSTONE. (COAL MEASURES)	8
					9.00	91.35			9
								End of borehole at 9.00 m	10

Remarks
 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.

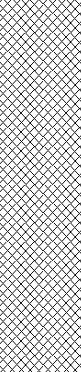
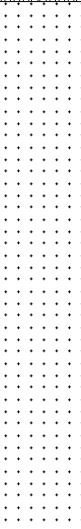


					Borehole Log			Borehole No. ST501C Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418466.35 - 425137.46		Hole Type PH
Location: Cleckheaton					Level: 100.45		Scale 1:50		Logged By GLM
Client: Strata Homes					Dates: 23/09/2020 - 23/09/2020				

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					2.50	97.95		MADE GROUND. (ASH & CLINKER)	1
								Buff SANDSTONE. (COAL MEASURES)	2
					6.00	94.45		End of borehole at 6.00 m	3
									4
									5
									6
									7
									8
									9
									10

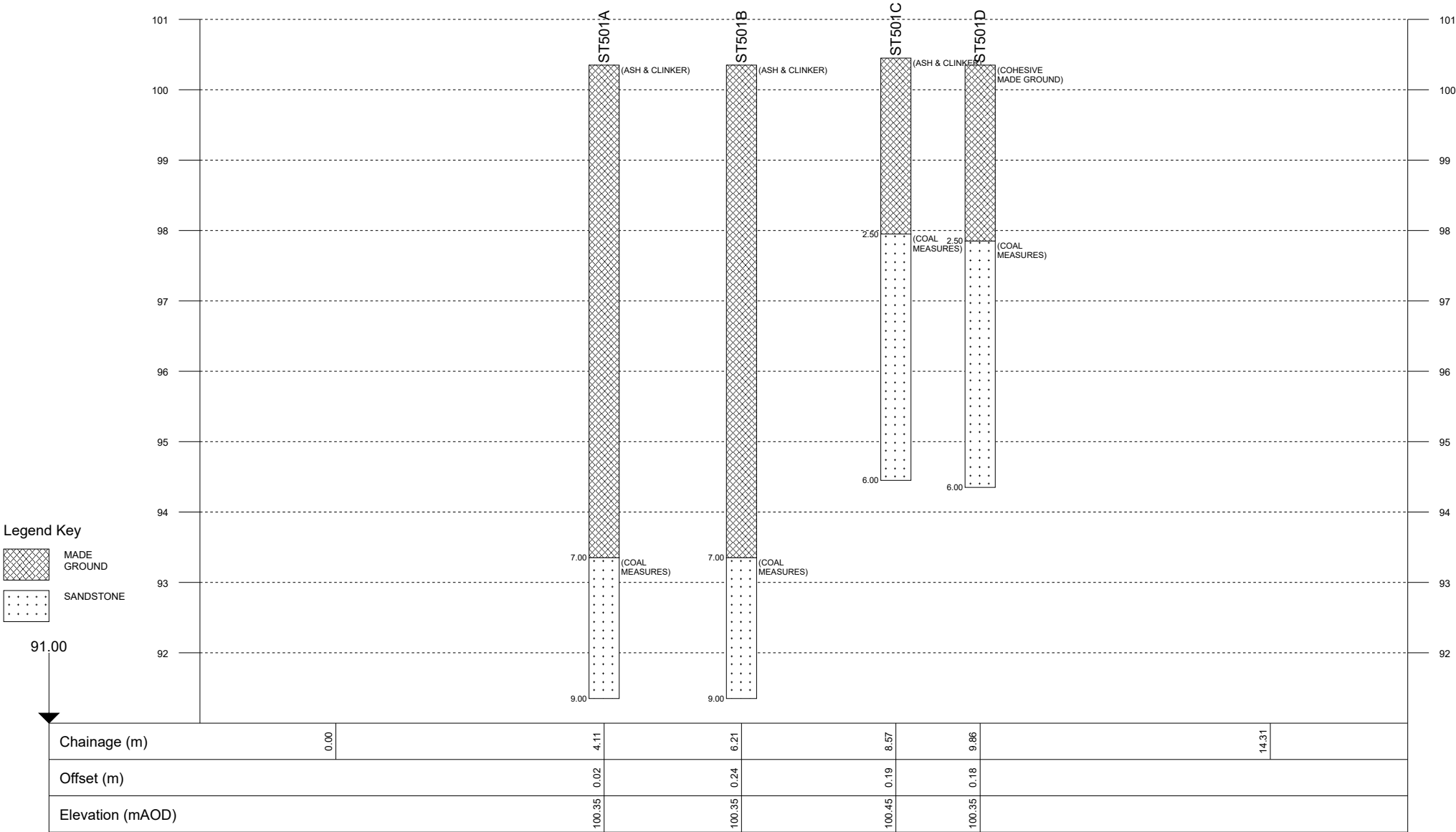
Remarks
 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.



					Borehole Log			Borehole No. ST501D Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418466.32 - 425138.75		Hole Type PH
Location: Cleckheaton					Level: 100.35		Scale 1:50		
Client: Strata Homes					Dates: 23/09/2020 - 23/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					2.50	97.85		COHESIVE MADE GROUND. (COHESIVE MADE GROUND)	1
								Buff SANDSTONE. (COAL MEASURES)	2
					6.00	94.35		End of borehole at 6.00 m	3
									4
									5
									6
									7
									8
									9
									10
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

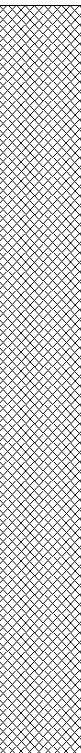
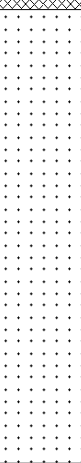
Project Id: 3043
Project Title: Westgate, Cleckheaton
Location: Cleckheaton
Client: Strata Homes

Title: Stitch PH line 501
Vertical Scale: 1:77
Horizontal Scale: 1:83
Engineer: ASw





					Borehole Log			Borehole No. ST502B Sheet 2 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418451.94 - 425116.92		Hole Type PH
Location: Cleckheaton					Level: 100.50		Scale 1:50		
Client: Strata Homes					Dates: 23/09/2020 - 23/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					16.00	84.50			11
									12
									13
									14
									15
									16
									17
									18
									19
					20.00	80.50			20
End of borehole at 20.00 m									
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

					Borehole Log			Borehole No. ST502C Sheet 2 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418449.66 - 425116.81		Hole Type PH
Location: Cleckheaton					Level: 100.60		Scale 1:50		
Client: Strata Homes					Dates: 23/09/2020 - 23/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					15.00	85.60	 	SOLID. (COAL MEASURES) <i>Flush lost during drilling through made ground.</i>	11
					18.00	82.60			12
									13
									14
									15
									16
									17
									18
									19
									20

11
12
13
14
15
16
17
18
19
20

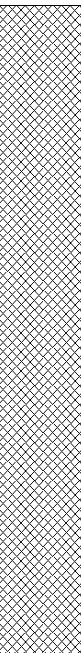
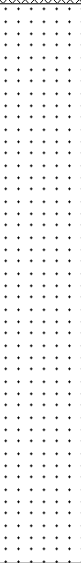
End of borehole at 18 00 m

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.





					Borehole Log			Borehole No. ST502D Sheet 2 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418443.53 - 425112.55		Hole Type PH
Location: Cleckheaton					Level: 100.60		Scale 1:50		
Client: Strata Homes					Dates: 23/09/2020 - 23/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					14.30	86.30	 	SOLID. (COAL MEASURES) <i>Flush lost during drilling through made ground.</i>	11
					18.00	82.60			12
									13
									14
									15
									16
									17
									18
									19
									20

11
12
13
14
15
16
17
18
19
20

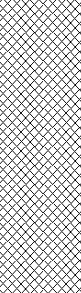
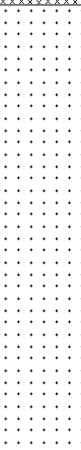
End of borehole at 18 00 m

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.





					Borehole Log			Borehole No. ST502E Sheet 2 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418439.85 - 425112.56		Hole Type PH
Location: Cleckheaton					Level: 100.70		Scale 1:50		
Client: Strata Homes					Dates: 23/09/2020 - 23/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					12.00	88.70		SOLID. (COAL MEASURES) <i>Flush lost during drilling through made ground.</i>	11
					15.00	85.70			12
								End of borehole at 15.00 m	13
									14
									15
									16
									17
									18
									19
									20
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									



Borehole No.

ST502F

Sheet 1 of 2

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: 418434.16 - 425109.68

Hole Type
PH

Location: Cleckheaton

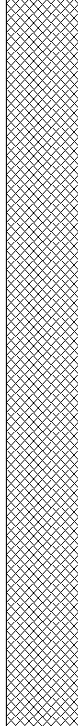
Level:	100.75

Scale
1:50

Client: Strata Homes

Dates: 23/09/2020 - 23/09/2020

Logged By
GLM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (ASH & CLINKER)	
								1	
								2	
								3	
								4	
								5	
								6	
								7	
								8	
								9	
							10		
							Continued on next sheet		

Continued on next sheet

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.



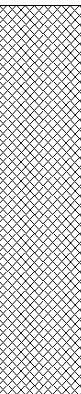
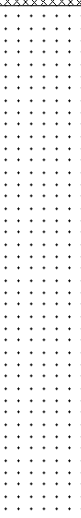
					Borehole Log			Borehole No. ST502F Sheet 2 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418434.16 - 425109.68		Hole Type PH
Location: Cleckheaton					Level: 100.75		Scale 1:50		
Client: Strata Homes					Dates: 23/09/2020 - 23/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
									11
									12
									13
									14
									15
					16.40	84.35			16
								SOLID. (COAL MEASURES) <i>Flush lost during drilling through made ground.</i>	17
					18.00	82.75			18
								End of borehole at 18 00 m	19
									20
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									





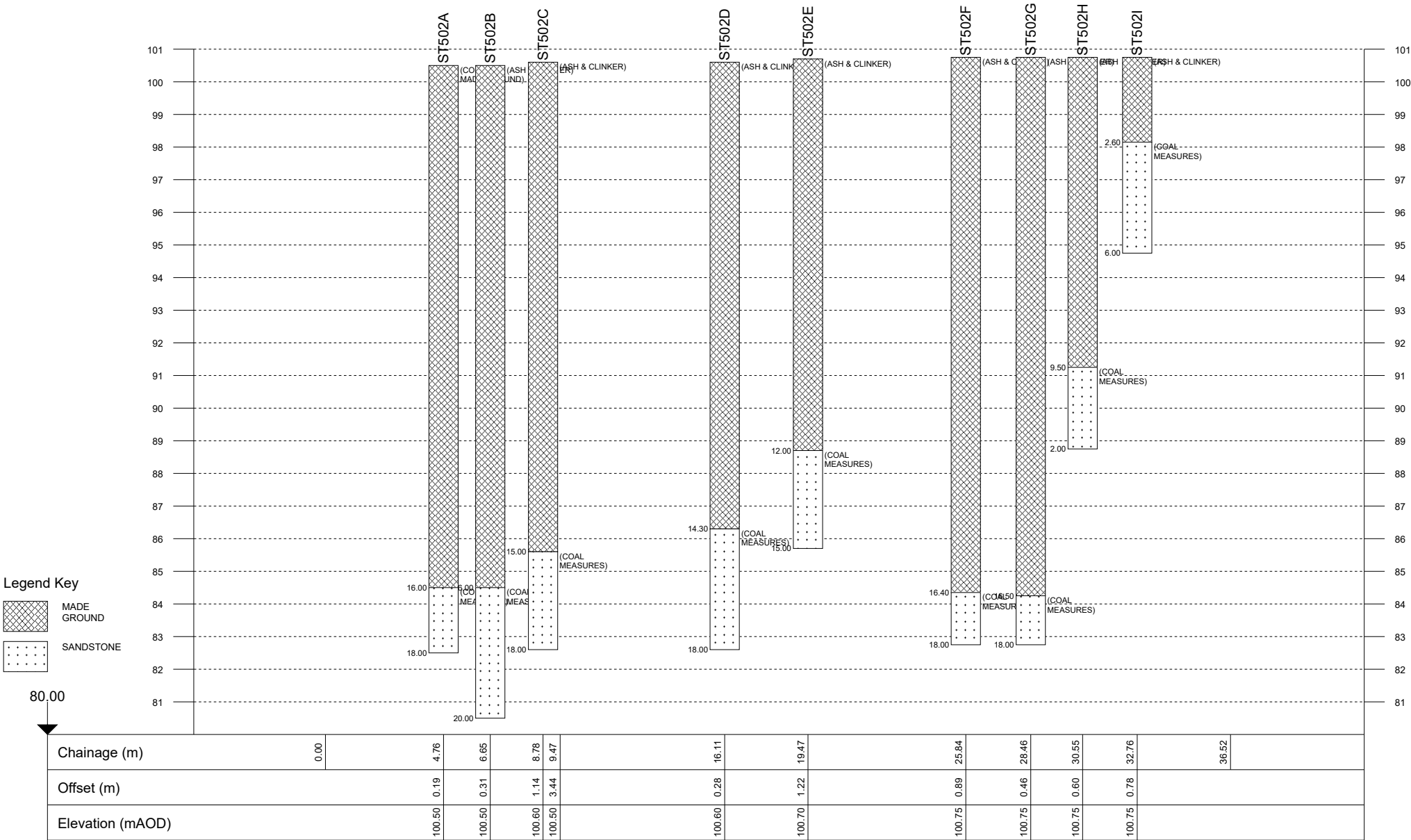
					Borehole Log			Borehole No. ST502H Sheet 1 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418429.97 - 425107.50		Hole Type PH
Location: Cleckheaton					Level: 100.75		Scale 1:50		
Client: Strata Homes					Dates: 23/09/2020 - 23/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (ASH & CLINKER)	1
									2
									3
									4
									5
									6
									7
									8
									9
					9.50	91.25		Buff SANDSTONE. (COAL MEASURES)	10
Continued on next sheet									
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

					Borehole Log			Borehole No. ST502H Sheet 2 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418429.97 - 425107.50		Hole Type PH
Location: Cleckheaton					Level: 100.75		Scale 1:50		
Client: Strata Homes					Dates: 23/09/2020 - 23/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					12.00	88.75			
								End of borehole at 12.00 m	
									11
									12
									13
									14
									15
									16
									17
									18
									19
									20
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

					Borehole Log			Borehole No. ST502I Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418427.88 - 425106.78		Hole Type PH
Location: Cleckheaton					Level: 100.75		Scale 1:50		
Client: Strata Homes					Dates: 23/09/2020 - 23/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					2.60	98.15		MADE GROUND. (ASH & CLINKER)	1
								Buff SANDSTONE. (COAL MEASURES)	2
					6.00	94.75			3
									4
									5
									6
									7
									8
									9
									10
End of borehole at 6.00 m									
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

Project Id: 3043
Project Title: Westgate, Cleckheaton
Location: Cleckheaton
Client: Strata Homes

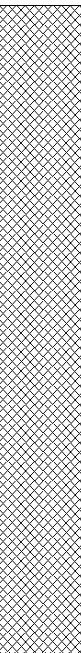
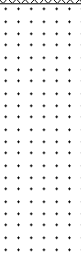
Title: Stitch PH line 502
Vertical Scale: 1:161
Horizontal Scale: 1:212
Engineer: ASw

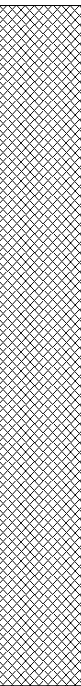
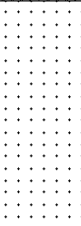


					Borehole Log			Borehole No. ST503A Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418432.44 - 425068.06		Hole Type PH
Location: Cleckheaton					Level: 100.25		Scale 1:50		Logged By GLM
Client: Strata Homes					Dates: 23/09/2020 - 23/09/2020				

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (ASH & CLINKER)	1
					4.00	96.25		Buff SANDSTONE. (COAL MEASURES)	2
									3
									4
									5
									6
									7
									8
					9.00	91.25		End of borehole at 9.00 m	9
									10

Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.								

					Borehole Log			Borehole No. ST503B Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418433.59 - 425069.20		Hole Type PH
Location: Cleckheaton					Level: 100.30		Scale 1:50		
Client: Strata Homes					Dates: 23/09/2020 - 23/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					4.30	96.00		MADE GROUND. (ASH & CLINKER)	1
								Buff SANDSTONE. (COAL MEASURES)	2
					6.00	94.30		End of borehole at 6.00 m	3
									4
									5
									6
									7
									8
									9
									10
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during drilling.									

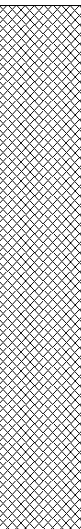
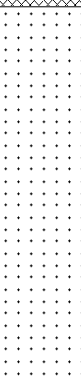
					Borehole Log			Borehole No. ST503C Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418434.80 - 425070.30		Hole Type PH
Location: Cleckheaton					Level: 100.25		Scale 1:50		
Client: Strata Homes					Dates: 23/09/2020 - 23/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					4.50	95.75		MADE GROUND. (ASH & CLINKER)	1
								Buff SANDSTONE. (COAL MEASURES)	2
					6.00	94.25		End of borehole at 6.00 m	3
									4
									5
									6
									7
									8
									9
									10
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

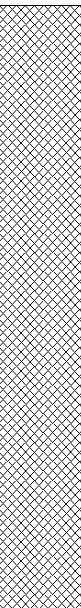
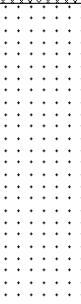
					Borehole Log			Borehole No. ST503D Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418436.17 - 425071.56		Hole Type PH
Location: Cleckheaton					Level: 100.10		Scale 1:50		Logged By GLM
Client: Strata Homes					Dates: 23/09/2020 - 23/09/2020				

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
							MADE GROUND. (ASH & CLINKER)		1
					4.20	95.90			2
									3
									4
							SOLID. (COAL MEASURES) <i>Flush lost during drilling through made ground.</i>		5
					6.00	94.10		End of borehole at 6.00 m	6
									7
									8
									9
									10

Remarks
 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.



					Borehole Log			Borehole No. ST503E Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418437.94 - 425072.76		Hole Type PH
Location: Cleckheaton					Level: 100.05		Scale 1:50		
Client: Strata Homes					Dates: 23/09/2020 - 23/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					3.50	96.55		MADE GROUND. (ASH & CLINKER)	1
								Buff SANDSTONE. (COAL MEASURES)	2
					6.00	94.05		End of borehole at 6.00 m	3
									4
									5
									6
									7
									8
									9
									10
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

					Borehole Log			Borehole No. ST503F Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418439.37 - 425073.62		Hole Type PH
Location: Cleckheaton					Level: 100.10		Scale 1:50		
Client: Strata Homes					Dates: 23/09/2020 - 23/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					4.00	96.10		MADE GROUND. (ASH & CLINKER)	1
								Buff SANDSTONE. (COAL MEASURES)	2
					6.00	94.10		End of borehole at 6.00 m	3
									4
									5
									6
									7
									8
									9
									10
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

					Borehole Log			Borehole No. ST503G Sheet 1 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418441.18 - 425075.01		Hole Type PH
Location: Cleckheaton					Level: 100.15		Scale 1:50		
Client: Strata Homes					Dates: 23/09/2020 - 23/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (ASH & CLINKER)	1
									2
									3
									4
									5
									6
									7
									8
									9
					9.50	90.65		SOLID. (COAL MEASURES) <i>Flush lost during drilling through made ground.</i>	10
Continued on next sheet									
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

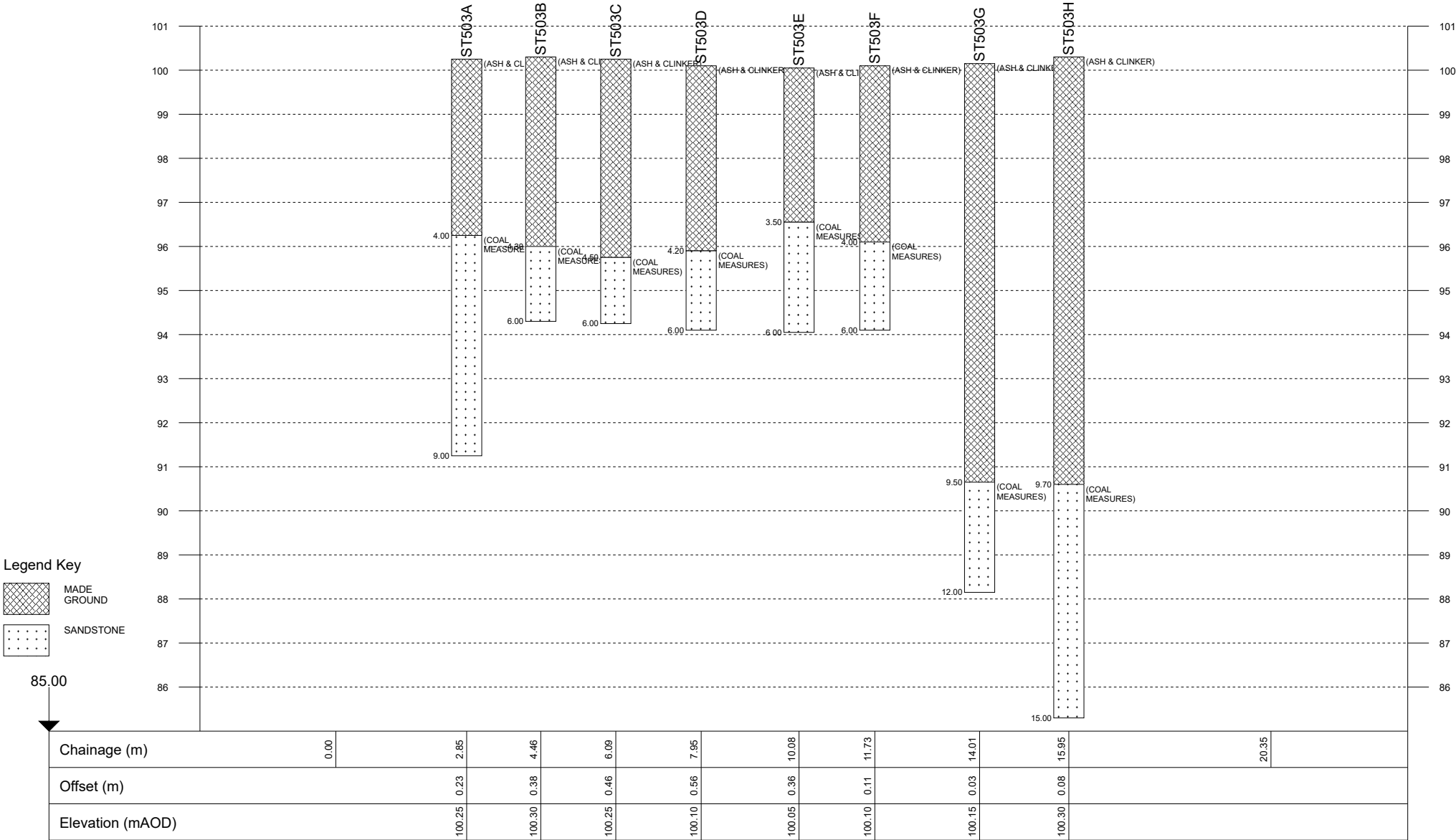
					Borehole Log			Borehole No. ST503G Sheet 2 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418441.18 - 425075.01		Hole Type PH
Location: Cleckheaton					Level: 100.15		Scale 1:50		
Client: Strata Homes					Dates: 23/09/2020 - 23/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					12.00	88.15			
								End of borehole at 12.00 m	
									11
									12
									13
									14
									15
									16
									17
									18
									19
									20
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

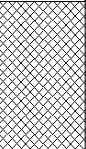
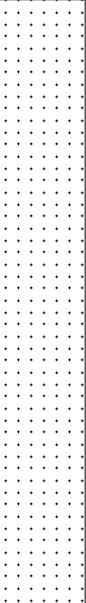
					Borehole Log			Borehole No. ST503H Sheet 1 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418442.65 - 425076.28		Hole Type PH
Location: Cleckheaton					Level: 100.30		Scale 1:50		Logged By GLM
Client: Strata Homes					Dates: 23/09/2020 - 23/09/2020				
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (ASH & CLINKER)	1
									2
									3
									4
									5
									6
									7
									8
									9
					9.70	90.60			10
								SOLID.	
								Continued on next sheet	
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

					Borehole Log			Borehole No. ST503H Sheet 2 of 2		
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418442.65 - 425076.28		Hole Type PH	
Location: Cleckheaton					Level: 100.30		Scale 1:50		Logged By GLM	
Client: Strata Homes					Dates: 23/09/2020 - 23/09/2020					
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
					15.00	85.30		(COAL MEASURES) Flush lost during drilling through made ground.		
									11	
									12	
									13	
									14	
									15	
									16	
									17	
									18	
									19	
									20	
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.										

Project Id: 3043
Project Title: Westgate, Cleckheaton
Location: Cleckheaton
Client: Strata Homes

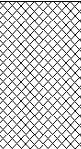
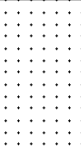
Title: Stitch PH line 503
Vertical Scale: 1:123
Horizontal Scale: 1:118
Engineer: ASw



					Borehole Log			Borehole No. ST504A Sheet 2 of 12	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418475.80 - 425040.35		Hole Type PH
Location: Cleckheaton					Level: 98.40		Scale 1:50		
Client: Strata Homes					Dates: 29/09/2020 - 29/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					11.00	87.40		Buff SANDSTONE. (COAL MEASURES)	11
					15.00	83.40			12
									13
									14
									15
									16
									17
									18
									19
									20
Continued on next sheet									
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

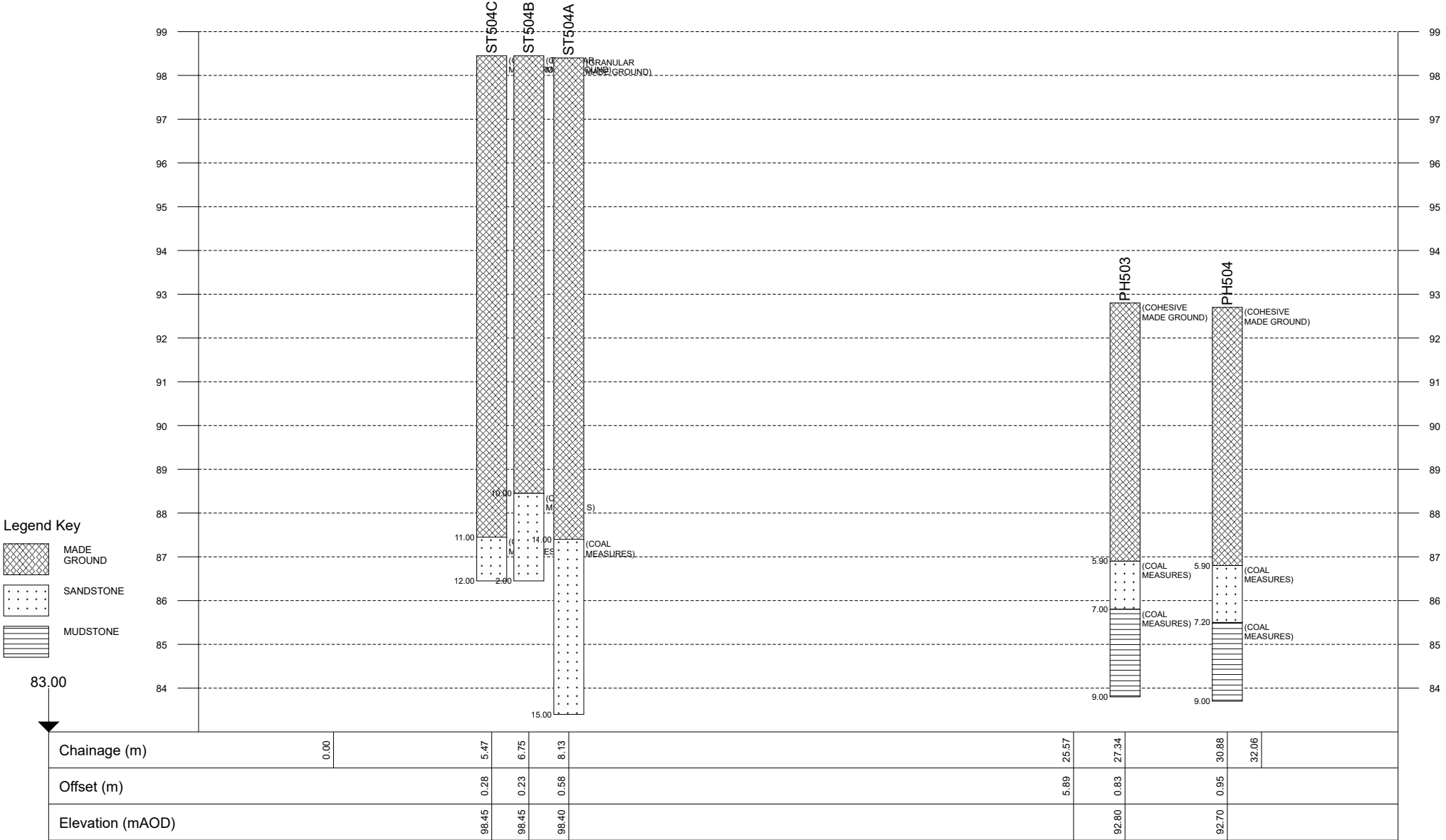
					Borehole Log			Borehole No. ST504B Sheet 1 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418475.14 - 425041.61		Hole Type PH
Location: Cleckheaton					Level: 98.45		Scale 1:50		Logged By GLM
Client: Strata Homes					Dates: 29/09/2020 - 29/09/2020				
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (GRANULAR MADE GROUND)	
									1
									2
									3
									4
									5
									6
									7
									8
									9
					10.00	88.45		Continued on next sheet	10
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

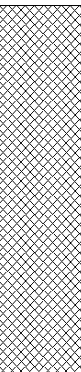
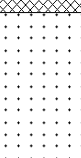
				Borehole Log				Borehole No. ST504B Sheet 2 of 2	
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418475.14 - 425041.61		Hole Type PH	
Location: Cleckheaton				Level: 98.45		Scale 1:50			
Client: Strata Homes				Dates: 29/09/2020 - 29/09/2020		Logged By GLM			
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					12.00	86.45		Buff SANDSTONE. (COAL MEASURES)	
								11	
								12	
								13	
								14	
								15	
								16	
								17	
								18	
								19	
								20	
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

					Borehole Log			Borehole No. ST504C Sheet 2 of 2		
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418474.67 - 425042.91		Hole Type PH	
Location: Cleckheaton					Level: 98.45		Scale 1:50		Logged By GLM	
Client: Strata Homes					Dates: 29/09/2020 - 29/09/2020					
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
					11.00	87.45		Buff SANDSTONE. (COAL MEASURES)	11	
					12.00	86.45			12	
								End of borehole at 12.00 m	13	
									14	
									15	
									16	
									17	
									18	
									19	
									20	
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.										

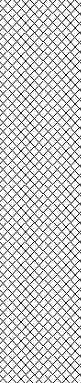
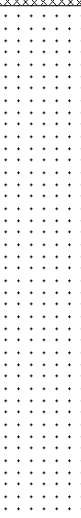
Project Id: 3043
Project Title: Westgate, Cleckheaton
Location: Cleckheaton
Client: Strata Homes

Title: Stitch PH line 504
Vertical Scale: 1:123
Horizontal Scale: 1:186
Engineer: ASw



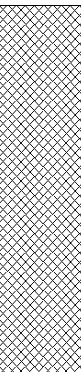
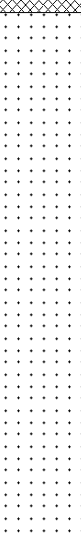
					Borehole Log			Borehole No. ST505A Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418407.90 - 425044.71		Hole Type PH
Location: Cleckheaton					Level: 98.35		Scale 1:50		
Client: Strata Homes					Dates: 29/09/2020 - 29/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					2.50	95.85		MADE GROUND. (GRANULAR MADE GROUND)	1
								Buff SANDSTONE. (COAL MEASURES)	2
					3.50	94.85		End of borehole at 3.50 m	3
									4
									5
									6
									7
									8
									9
									10
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

					Borehole Log			Borehole No. ST505B Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418409.04 - 425043.48		Hole Type PH
Location: Cleckheaton					Level: 98.25		Scale 1:50		Logged By GLM
Client: Strata Homes					Dates: 29/09/2020 - 29/09/2020				

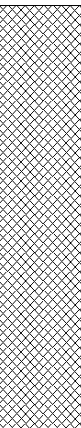
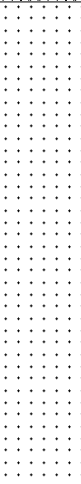
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					2.60	95.65		MADE GROUND. (GRANULAR MADE GROUND)	1
								Buff SANDSTONE. (COAL MEASURES)	2
					6.00	92.25		End of borehole at 6.00 m	3
									4
									5
									6
									7
									8
									9
									10

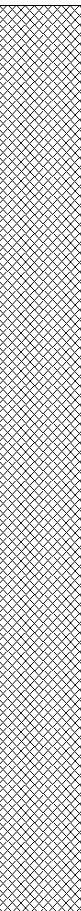
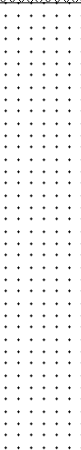
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.								

					Borehole Log			Borehole No. ST505C Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418410.35 - 425042.29		Hole Type PH
Location: Cleckheaton					Level: 98.15		Scale 1:50		Logged By GLM
Client: Strata Homes					Dates: 29/09/2020 - 29/09/2020				

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					2.50	95.65		MADE GROUND. (GRANULAR MADE GROUND)	1
								Buff SANDSTONE. (COAL MEASURES)	2
					6.00	92.15		End of borehole at 6.00 m	3
									4
									5
									6
									7
									8
									9
									10

Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.								

					Borehole Log			Borehole No. ST505D Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418411.12 - 425040.90		Hole Type PH
Location: Cleckheaton					Level: 98.15		Scale 1:50		
Client: Strata Homes					Dates: 29/09/2020 - 29/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					2.80	95.35		MADE GROUND. (GRANULAR MADE GROUND)	1
								Buff SANDSTONE. (COAL MEASURES)	2
					6.00	92.15		End of borehole at 6.00 m	3
									4
									5
									6
									7
									8
									9
									10
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

					Borehole Log			Borehole No. ST505E Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418411.73 - 425039.79		Hole Type PH
Location: Cleckheaton					Level: 98.15		Scale 1:50		
Client: Strata Homes					Dates: 29/09/2020 - 29/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					6.00	92.15		MADE GROUND. (GRANULAR MADE GROUND)	1
									2
									3
									4
									5
									6
								Buff SANDSTONE. (COAL MEASURES)	7
									8
					9.00	89.15		End of borehole at 9.00 m	9
									10
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

					Borehole Log			Borehole No. ST505F Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418412.37 - 425038.59		Hole Type PH
Location: Cleckheaton					Level: 98.10		Scale 1:50		Logged By GLM
Client: Strata Homes					Dates: 29/09/2020 - 29/09/2020				
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (GRANULAR MADE GROUND)	1
									2
									3
									4
									5
					6.00	92.10			6
								Buff SANDSTONE. (COAL MEASURES)	7
									8
					9.00	89.10			9
								End of borehole at 9.00 m	10
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

					Borehole Log			Borehole No. ST505G Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418412.75 - 425037.25		Hole Type PH
Location: Cleckheaton					Level: 98.05		Scale 1:50		Logged By GLM
Client: Strata Homes					Dates: 29/09/2020 - 29/09/2020				

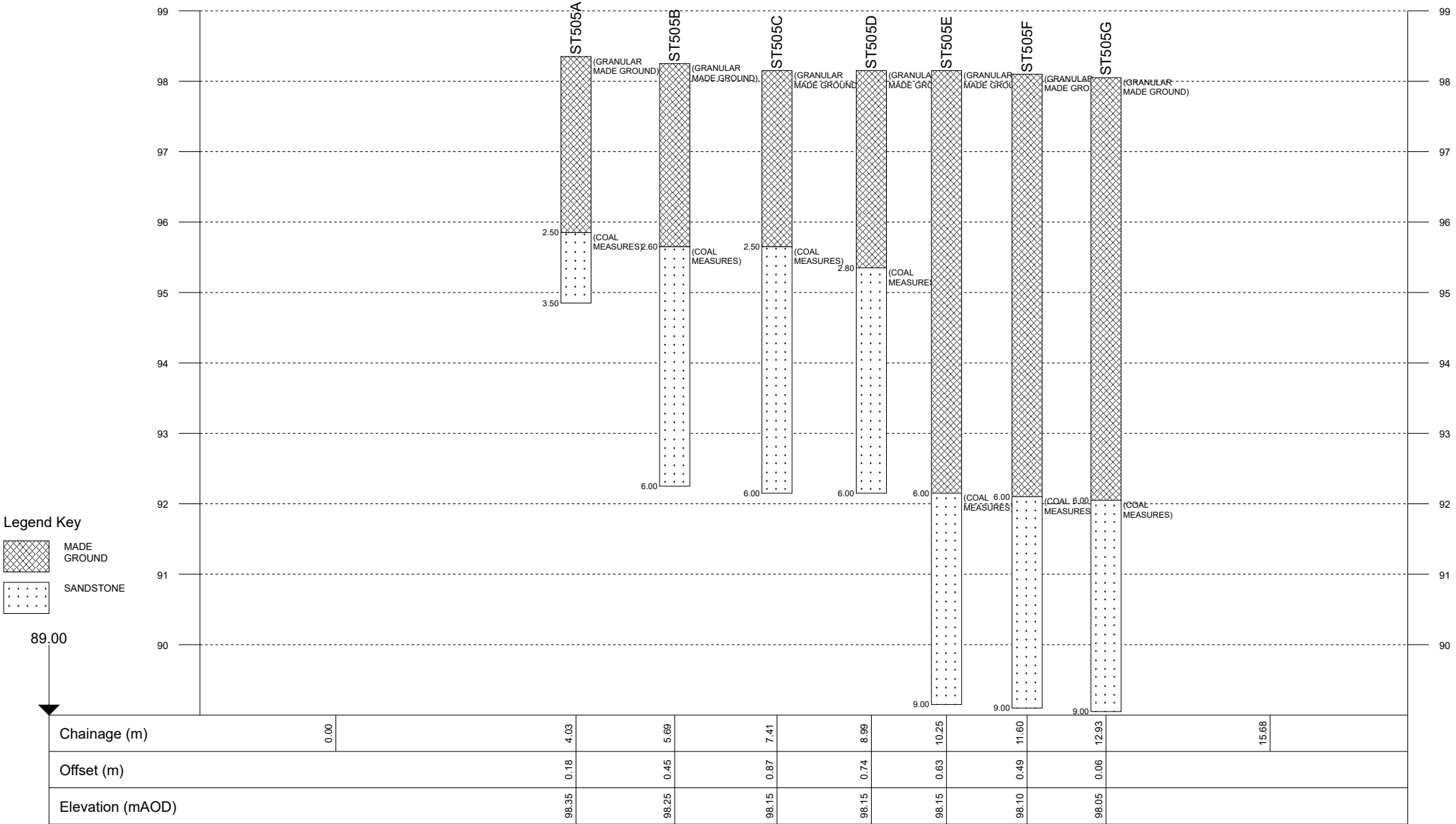
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (GRANULAR MADE GROUND)	1
									2
									3
									4
									5
					6.00	92.05			6
								Buff SANDSTONE. (COAL MEASURES)	7
									8
					9.00	89.05			9
								End of borehole at 9.00 m	10

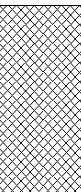
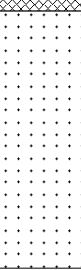
Remarks
 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.

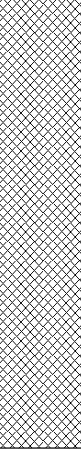
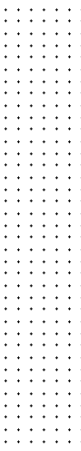


Project Id: 3043
Project Title: Westgate, Cleckheaton
Location: Cleckheaton
Client: Strata Homes

Title: Stitch PH line 505
Vertical Scale: 1:77
Horizontal Scale: 1:91
Engineer: ASw



					Borehole Log			Borehole No. ST506A Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418413.24 - 425011.31		Hole Type PH
Location: Cleckheaton					Level: 97.45		Scale 1:50		
Client: Strata Homes					Dates: 29/09/2020 - 29/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					1.30	96.15		MADE GROUND. (GRANULAR MADE GROUND)	1
								Buff SANDSTONE. (COAL MEASURES)	2
					3.00	94.45		End of borehole at 3.00 m	3
									4
									5
									6
									7
									8
									9
									10
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

					Borehole Log			Borehole No. ST506B Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418415.07 - 425012.37		Hole Type PH
Location: Cleckheaton					Level: 97.30		Scale 1:50		
Client: Strata Homes					Dates: 29/09/2020 - 29/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					3.00	94.30		MADE GROUND. (GRANULAR MADE GROUND)	1
								Buff SANDSTONE. (COAL MEASURES)	2
					6.00	91.30		End of borehole at 6.00 m	3
									4
									5
									6
									7
									8
									9
									10
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

					Borehole Log			Borehole No. ST506B Sheet 2 of 2		
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418415.07 - 425012.37		Hole Type PH	
Location: Cleckheaton					Level: 97.30		Scale 1:50		Logged By GLM	
Client: Strata Homes					Dates: 29/09/2020 - 29/09/2020					
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
					12.00	85.30				
										11
										12
										13
										14
										15
										16
										17
										18
										19
										20
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.										

					Borehole Log			Borehole No. ST506C Sheet 1 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418416.01 - 425012.80		Hole Type PH
Location: Cleckheaton					Level: 97.25		Scale 1:50		Logged By GLM
Client: Strata Homes					Dates: 29/09/2020 - 29/09/2020				
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (GRANULAR MADE GROUND)	
									1
									2
									3
									4
									5
									6
									7
									8
					9.00	88.25		Buff SANDSTONE. (COAL MEASURES)	9
									10
Continued on next sheet									
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

					Borehole Log			Borehole No. ST506C Sheet 2 of 2		
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418416.01 - 425012.80		Hole Type PH	
Location: Cleckheaton					Level: 97.25		Scale 1:50		Logged By GLM	
Client: Strata Homes					Dates: 29/09/2020 - 29/09/2020					
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
					12.00	85.25				
								End of borehole at 12.00 m		
										11
										12
										13
										14
										15
										16
										17
										18
										19
										20
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.										





					Borehole Log			Borehole No. ST506E Sheet 2 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418419.85 - 425014.76		Hole Type PH
Location: Cleckheaton					Level: 97.00		Scale 1:50		
Client: Strata Homes					Dates: 29/09/2020 - 29/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					15.00	82.00			11
									12
									13
									14
									15
									16
									17
					18.00	79.00			18
									19
									20

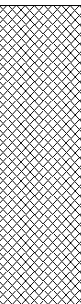
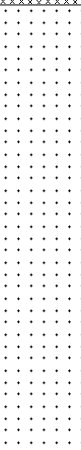
Buff SANDSTONE.
(COAL MEASURES)

End of borehole at 18 00 m

Remarks

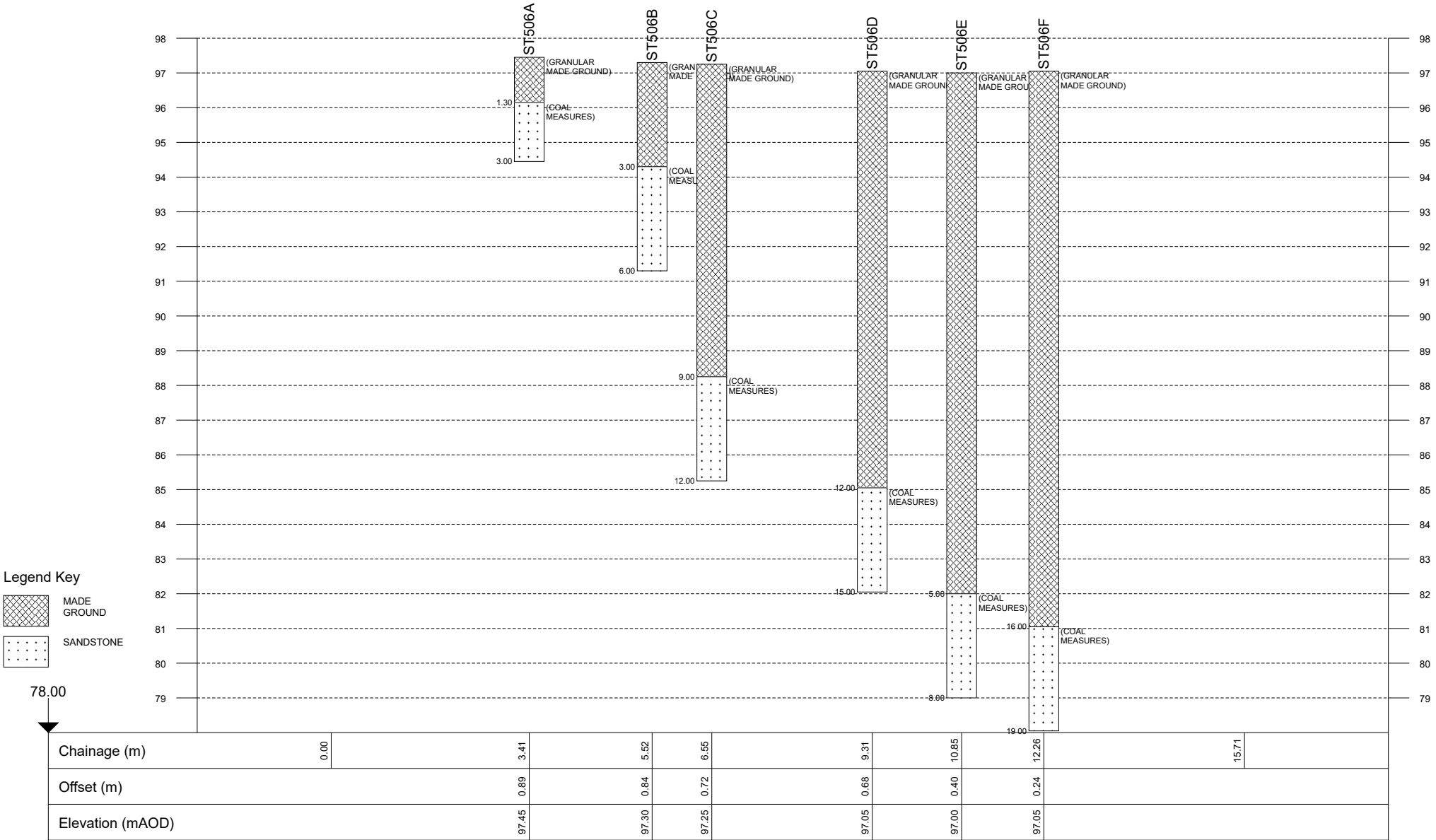
1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.

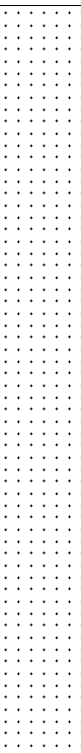


					Borehole Log			Borehole No. ST506D Sheet 2 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418418.39 - 425014.20		Hole Type PH
Location: Cleckheaton					Level: 97.05		Scale 1:50		
Client: Strata Homes					Dates: 29/09/2020 - 29/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					12.00	85.05			11
								Buff SANDSTONE. (COAL MEASURES)	12
					15.00	82.05			13
									14
									15
								End of borehole at 15.00 m	16
									17
									18
									19
									20
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

Project Id: 3043
Project Title: Westgate, Cleckheaton
Location: Cleckheaton
Client: Strata Homes

Title: Stitch PH line 506
Vertical Scale: 1:154
Horizontal Scale: 1:92
Engineer: ASw



					Borehole Log			Borehole No. ST507A Sheet 2 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418430.25 - 424976.83		Hole Type PH
Location: Cleckheaton					Level: 95.75		Scale 1:50		Logged By GLM
Client: Strata Homes					Dates: 29/09/2020 - 29/09/2020				
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					15.00	80.75		Buff SANDSTONE. (COAL MEASURES)	11 12 13 14 15 16 17 18 19 20
End of borehole at 15.00 m									
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									
									

					Borehole Log			Borehole No. ST507B Sheet 1 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418428.67 - 424975.70		Hole Type PH
Location: Cleckheaton					Level: 95.65		Scale 1:50		Logged By
Client: Strata Homes					Dates: 29/09/2020 -				

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND (GRANULAR MADE GROUND)	1
									2
									3
									4
									5
									6
									7
					8.50	87.15			8
								SOLID. (COAL MEASURES)	9
					10.00	85.65			10

Continued on next sheet

Remarks
 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.





ST507B

Sheet 2 of 2

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: 418428.67 - 424975.70

Hole Type
PH

Location: Cleckheaton

Level: 95.65

Scale
1:50

Client: Strata Homes

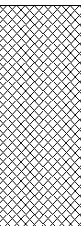
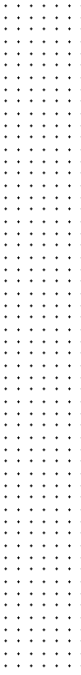
Dates: 29/09/2020 -

Logged By

[illegible]

Remarks
1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.

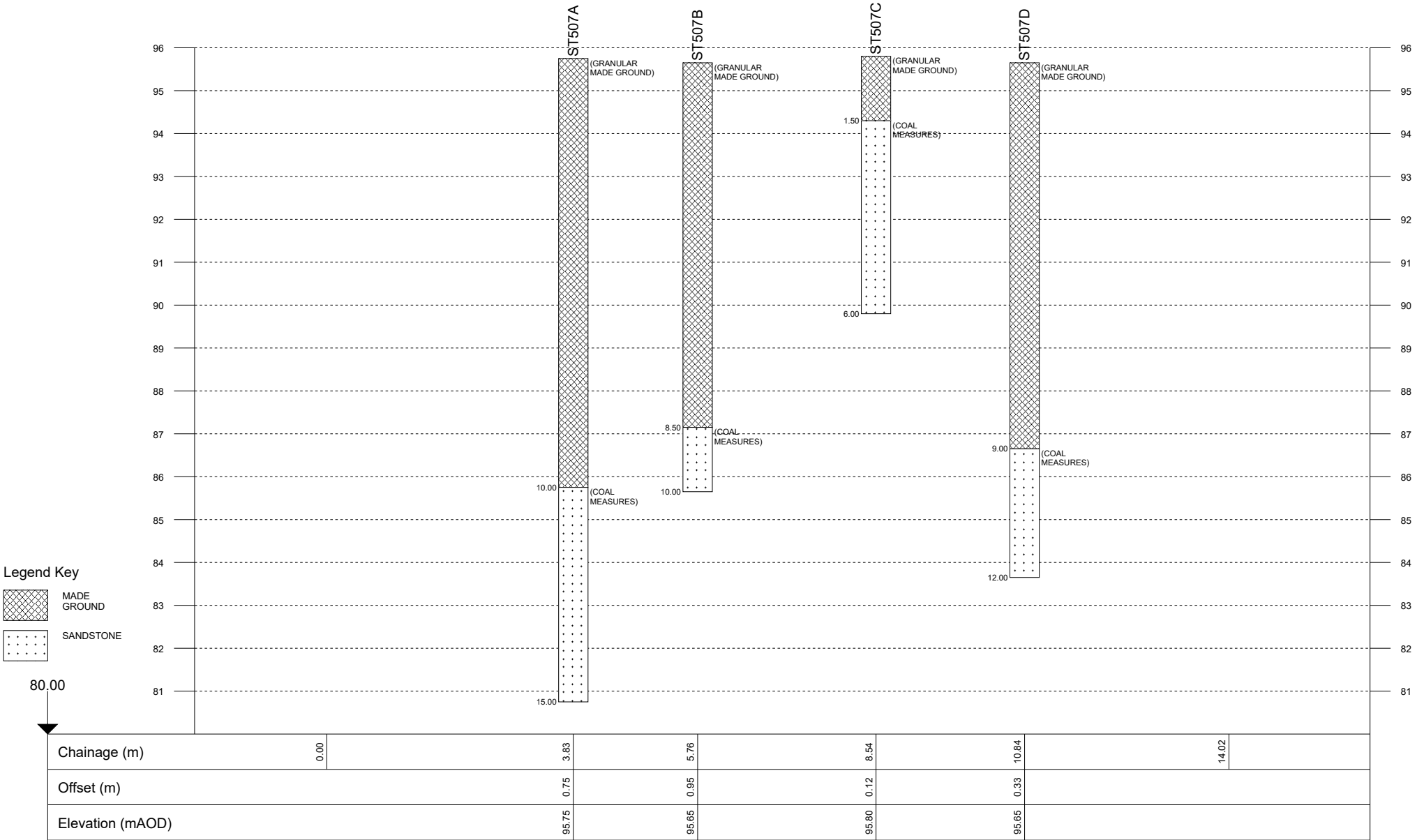


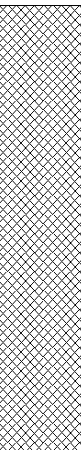
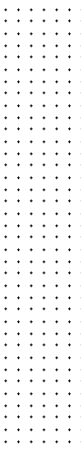
					Borehole Log			Borehole No. ST507C Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418425.85 - 424975.05		Hole Type PH
Location: Cleckheaton					Level: 95.80		Scale 1:50		
Client: Strata Homes					Dates: 29/09/2020 - 29/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					1.50	94.30		MADE GROUND. (GRANULAR MADE GROUND)	1
								Buff SANDSTONE. (COAL MEASURES)	2
									3
									4
									5
					6.00	89.80		End of borehole at 6.00 m	6
									7
									8
									9
									10
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

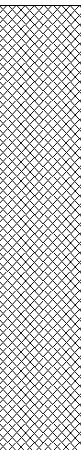
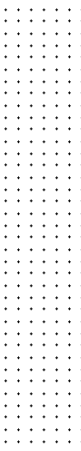
					Borehole Log			Borehole No. ST507D Sheet 1 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418423.62 - 424974.30		Hole Type PH
Location: Cleckheaton					Level: 95.65		Scale 1:50		
Client: Strata Homes					Dates: 29/09/2020 - 29/09/2020		Logged By GLM		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (GRANULAR MADE GROUND)	
									1
									2
									3
									4
									5
									6
									7
									8
					9.00	86.65		Buff SANDSTONE. (COAL MEASURES)	9
									10
Continued on next sheet									
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

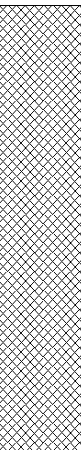
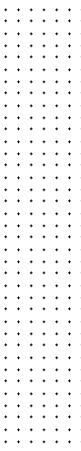
Project Id: 3043
Project Title: Westgate, Cleckheaton
Location: Cleckheaton
Client: Strata Homes

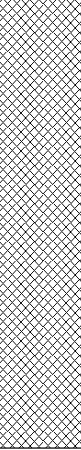
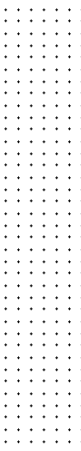
Title: Stitch PH line 507
Vertical Scale: 1:123
Horizontal Scale: 1:82
Engineer: ASw



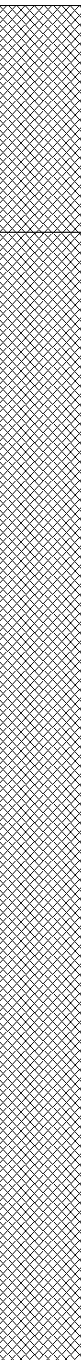
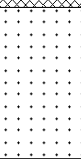
					Borehole Log			Borehole No. ST508A Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418342.08 - 425082.58		Hole Type PH
Location: Cleckheaton					Level: 102.10		Scale 1:50		
Client: Strata Homes					Dates: 26/09/2020 - 26/09/2020		Logged By AP		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					3.00	99.10		MADE GROUND. (GRANULAR MADE GROUND)	1
								Buff SANDSTONE. (COAL MEASURES)	2
					6.00	96.10		End of borehole at 6.00 m	3
									4
									5
									6
									7
									8
									9
									10
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

					Borehole Log			Borehole No. ST508B Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418342.36 - 425081.38		Hole Type PH
Location: Cleckheaton					Level: 102.15		Scale 1:50		
Client: Strata Homes					Dates: 26/09/2020 - 26/09/2020		Logged By AP		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					3.00	99.15		MADE GROUND. (GRANULAR MADE GROUND)	1
								Buff SANDSTONE. (COAL MEASURES)	2
					6.00	96.15		End of borehole at 6.00 m	3
									4
									5
									6
									7
									8
									9
									10
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

					Borehole Log			Borehole No. ST508C Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418342.73 - 425079.73		Hole Type PH
Location: Cleckheaton					Level: 102.10		Scale 1:50		Logged By AP
Client: Strata Homes					Dates: 26/09/2020 - 26/09/2020				
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					3.00	99.10		MADE GROUND. (GRANULAR MADE GROUND)	1
								Buff SANDSTONE. (COAL MEASURES)	2
					6.00	96.10		End of borehole at 6.00 m	3
									4
									5
									6
									7
									8
									9
									10
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

					Borehole Log			Borehole No. ST508D Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418343.43 - 425078.15		Hole Type PH
Location: Cleckheaton					Level: 102.00		Scale 1:50		
Client: Strata Homes					Dates: 26/09/2020 - 26/09/2020		Logged By AP		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					3.00	99.00		MADE GROUND. (GRANULAR MADE GROUND)	1
								Buff SANDSTONE. (COAL MEASURES)	2
					6.00	96.00		End of borehole at 6.00 m	3
									4
									5
									6
									7
									8
									9
									10
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

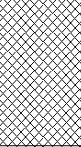
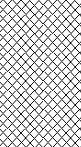
					Borehole Log			Borehole No. ST508E Sheet 1 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418343.91 - 425076.23		Hole Type PH
Location: Cleckheaton					Level: 101.90		Scale 1:50		Logged By AP
Client: Strata Homes					Dates: 26/09/2020 - 26/09/2020				

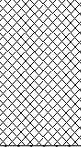
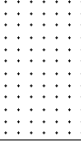
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					1.50	100.40		MADE GROUND. (GRANULAR MADE GROUND)	1
								MADE GROUND. (ASH & CLINKER)	2
									3
									4
									5
									6
									7
									8
					9.00	92.90		SOLID. (COAL MEASURES) <i>Flush lost during drilling through made ground.</i>	9
									10

Continued on next sheet

Remarks
 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.



					Borehole Log			Borehole No. ST508F Sheet 1 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418343.92 - 425076.24		Hole Type PH
Location: Cleckheaton					Level: 101.90		Scale 1:50		
Client: Strata Homes					Dates: 26/09/2020 - 26/09/2020		Logged By AP		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					1.00	100.90		MADE GROUND. (GRANULAR MADE GROUND)	
								MADE GROUND: Blackish grey. (GRANULAR MADE GROUND)	1
					4.00	97.90		MADE GROUND. (ASH & CLINKER)	2
									3
									4
									5
									6
									7
									8
									9
									10
Continued on next sheet									
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

					Borehole Log			Borehole No. ST508F Sheet 2 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418343.92 - 425076.24		Hole Type PH
Location: Cleckheaton					Level: 101.90		Scale 1:50		
Client: Strata Homes					Dates: 26/09/2020 - 26/09/2020		Logged By AP		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					11.00	90.90	 	SOLID. (COAL MEASURES) <i>Flush lost during drilling through made ground.</i>	11
					12.00	89.90			End of borehole at 12.00 m
									13
									14
									15
									16
									17
									18
									19
									20
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									



ST508G

Project Name: Westgate, Cleckheaton

Project No.
3043

Co-ords: -

Hole Type
PH

Location: Cleckheaton

Level:

Scale
1:50

Client: Strata Homes

Dates: 26/09/2020 - 26/09/2020

Logged By
AP

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (GRANULAR MADE GROUND)	
								1	
								2	
								3	
								4	
								5	
								6	
								7	
								8	
								9	
							10		
							Continued on next sheet		

Continued on next sheet

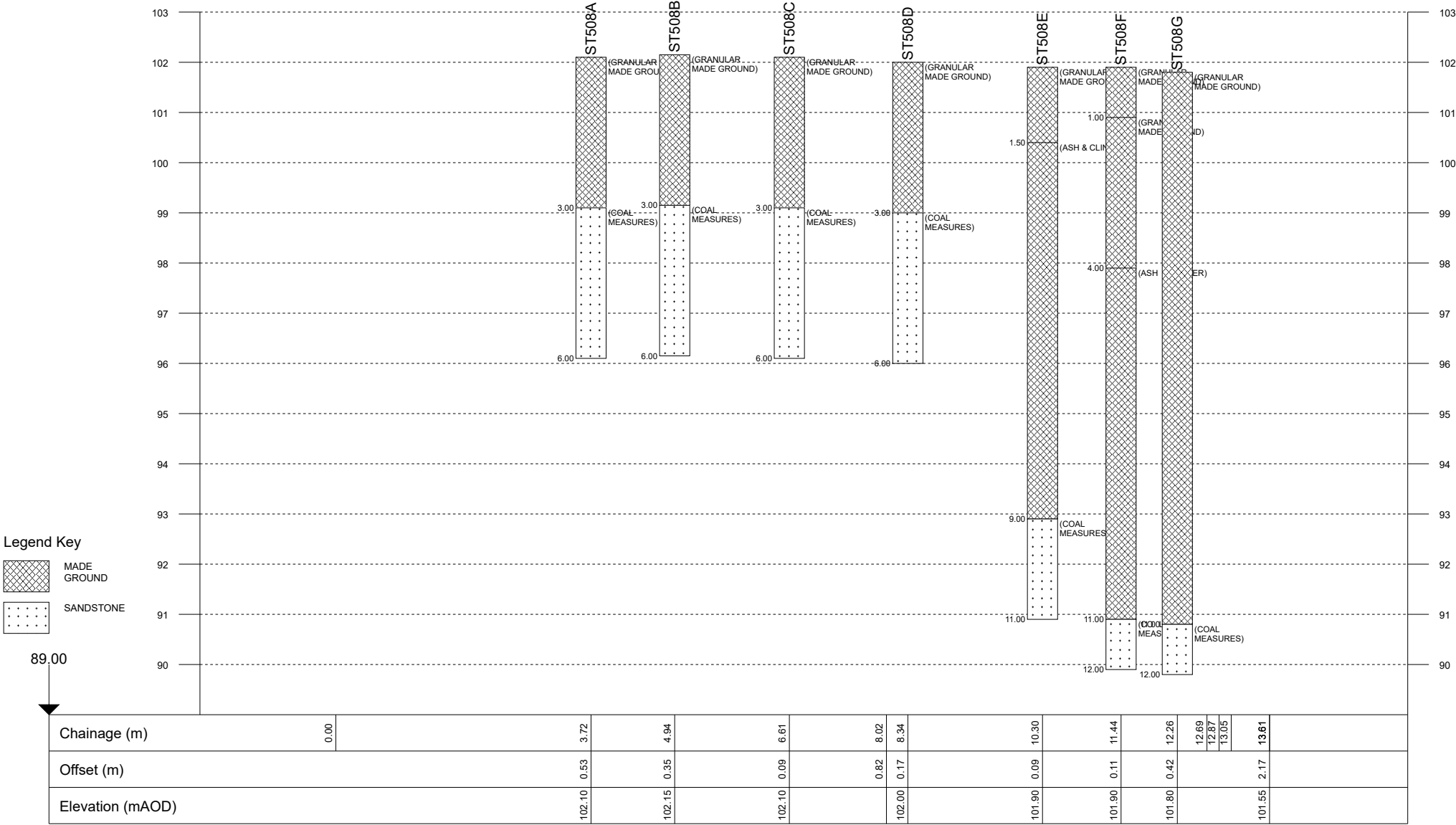
Remarks

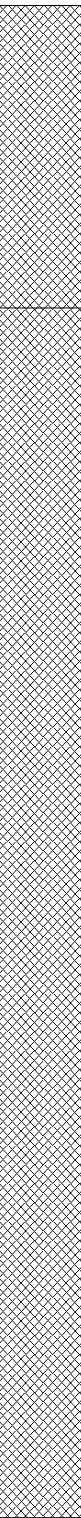
1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.

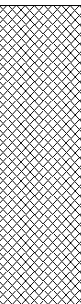
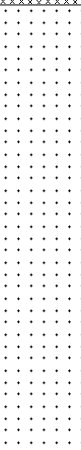


Project Id: 3043
Project Title: Westgate, Cleckheaton
Location: Cleckheaton
Client: Strata Homes

Title: Stitch PH lint 508
Vertical Scale: 1:108
Horizontal Scale: 1:79
Engineer: ASw



					Borehole Log			Borehole No. ST509A Sheet 1 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418352.40 - 425031.49		Hole Type PH
Location: Cleckheaton					Level: 99.85		Scale 1:50		
Client: Strata Homes					Dates: 26/09/2020 - 26/09/2020		Logged By AP		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					2.00	97.85		MADE GROUND. (GRANULAR MADE GROUND)	1
								MADE GROUND. (ASH & CLINKER)	2
									3
									4
									5
									6
									7
									8
									9
									10
Continued on next sheet									
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

					Borehole Log			Borehole No. ST509A Sheet 2 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418352.40 - 425031.49		Hole Type PH
Location: Cleckheaton					Level: 99.85		Scale 1:50		
Client: Strata Homes					Dates: 26/09/2020 - 26/09/2020		Logged By AP		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					12.00	87.85		SOLID. (COAL MEASURES) <i>Flush lost during drilling through made ground.</i>	11
					15.00	84.85			12
								End of borehole at 15.00 m	13
									14
									15
									16
									17
									18
									19
									20
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									



ST509B

Sheet 1 of 2

Hole Type
PH

Scale
1:50

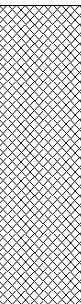
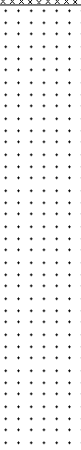
Logged By
AP

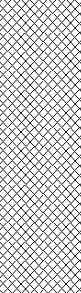
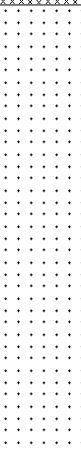
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (GRANULAR MADE GROUND)	1
								2	
								3	
								4	
								5	
								6	
								7	
								8	
								9	
								10	

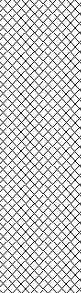
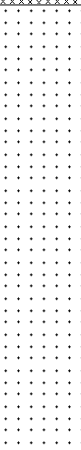
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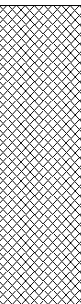
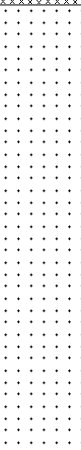
Remarks



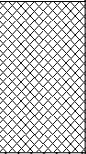
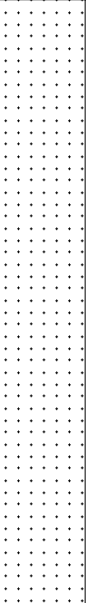
					Borehole Log			Borehole No. ST509B Sheet 2 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418352.64 - 425029.52		Hole Type PH
Location: Cleckheaton					Level: 99.75		Scale 1:50		
Client: Strata Homes					Dates: 26/09/2020 - 26/09/2020		Logged By AP		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					12.00	87.75		SOLID. (COAL MEASURES) <i>Flush lost during drilling through made ground.</i>	11
					15.00	84.75			12
								13	
								14	
								15	
								16	
								17	
								18	
								19	
								20	
End of borehole at 15.00 m									
Remarks									
									

					Borehole Log			Borehole No. ST509C Sheet 2 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418352.68 - 425028.01		Hole Type PH
Location: Cleckheaton					Level: 99.65		Scale 1:50		
Client: Strata Homes					Dates: 26/09/2020 - 26/09/2020		Logged By AP		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					12.00	87.65		SOLID. (COAL MEASURES) <i>Flush lost during drilling through made ground.</i>	11
					15.00	84.65			12
								End of borehole at 15.00 m	13
									14
									15
									16
									17
									18
									19
									20
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

					Borehole Log			Borehole No. ST509D Sheet 2 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418352.81 - 425026.64		Hole Type PH
Location: Cleckheaton					Level: 99.60		Scale 1:50		
Client: Strata Homes					Dates: 26/09/2020 - 26/09/2020		Logged By AP		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					12.00	87.60		SOLID. (COAL MEASURES) <i>Flush lost during drilling through made ground.</i>	11
					15.00	84.60			12
								End of borehole at 15.00 m	13
									14
									15
									16
									17
									18
									19
									20
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

					Borehole Log			Borehole No. ST509E Sheet 2 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418352.35 - 425024.51		Hole Type PH
Location: Cleckheaton					Level: 99.45		Scale 1:50		
Client: Strata Homes					Dates: 26/09/2020 - 26/09/2020		Logged By AP		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					12.00	87.45		SOLID. (COAL MEASURES) <i>Flush lost during drilling through made ground.</i>	11
					15.00	84.45			12
								End of borehole at 15.00 m	13
									14
									15
									16
									17
									18
									19
									20
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

					Borehole Log			Borehole No. ST509F Sheet 2 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418351.28 - 425021.98		Hole Type PH
Location: Cleckheaton					Level: 99.00		Scale 1:50		Logged By AP
Client: Strata Homes					Dates: 26/09/2020 - 26/09/2020				

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					11.00	88.00		SOLID. (COAL MEASURES) <i>Flush lost during drilling through made ground.</i>	11
									12
					15.00	84.00			13
									14
									15
								End of borehole at 15.00 m	16
									17
									18
									19
									20

Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.								

					Borehole Log			Borehole No. ST509G Sheet 1 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418350.20 - 425020.10		Hole Type PH
Location: Cleckheaton					Level: 98.75		Scale 1:50		Logged By AP
Client: Strata Homes					Dates: 26/09/2020 - 26/09/2020				

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (GRANULAR MADE GROUND)	1
									2
									3
									4
									5
									6
									7
									8
					9.00	89.75		SOLID. (COAL MEASURES) <i>Flush lost during drilling through made ground.</i>	9
								Continued on next sheet	10

Remarks
 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.



					Borehole Log			Borehole No. ST509G Sheet 2 of 2		
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418350.20 - 425020.10		Hole Type PH	
Location: Cleckheaton					Level: 98.75		Scale 1:50		Logged By AP	
Client: Strata Homes					Dates: 26/09/2020 - 26/09/2020					
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
					12.00	86.75				
								End of borehole at 12.00 m		
										11
										12
										13
										14
										15
										16
										17
										18
										19
										20
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.										

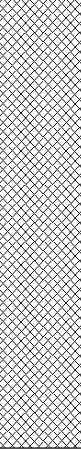
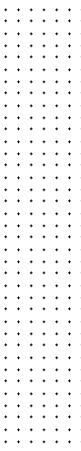
					Borehole Log			Borehole No. ST509H Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418349.40 - 425017.70		Hole Type PH
Location: Cleckheaton					Level: 98.45		Scale 1:50		Logged By AP
Client: Strata Homes					Dates: 26/09/2020 - 26/09/2020				

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (GRANULAR MADE GROUND)	1
									2
									3
									4
					5.00	93.45			5
								SOLID. (COAL MEASURES) <i>Flush lost during drilling through made ground.</i>	6
									7
									8
					9.00	89.45			9
								End of borehole at 9.00 m	10

Remarks
 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.



					Borehole Log			Borehole No. ST509I Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418348.43 - 425015.31		Hole Type PH
Location: Cleckheaton					Level:		Scale 1:50		Logged By AP
Client: Strata Homes					Dates: 26/09/2020 - 26/09/2020				

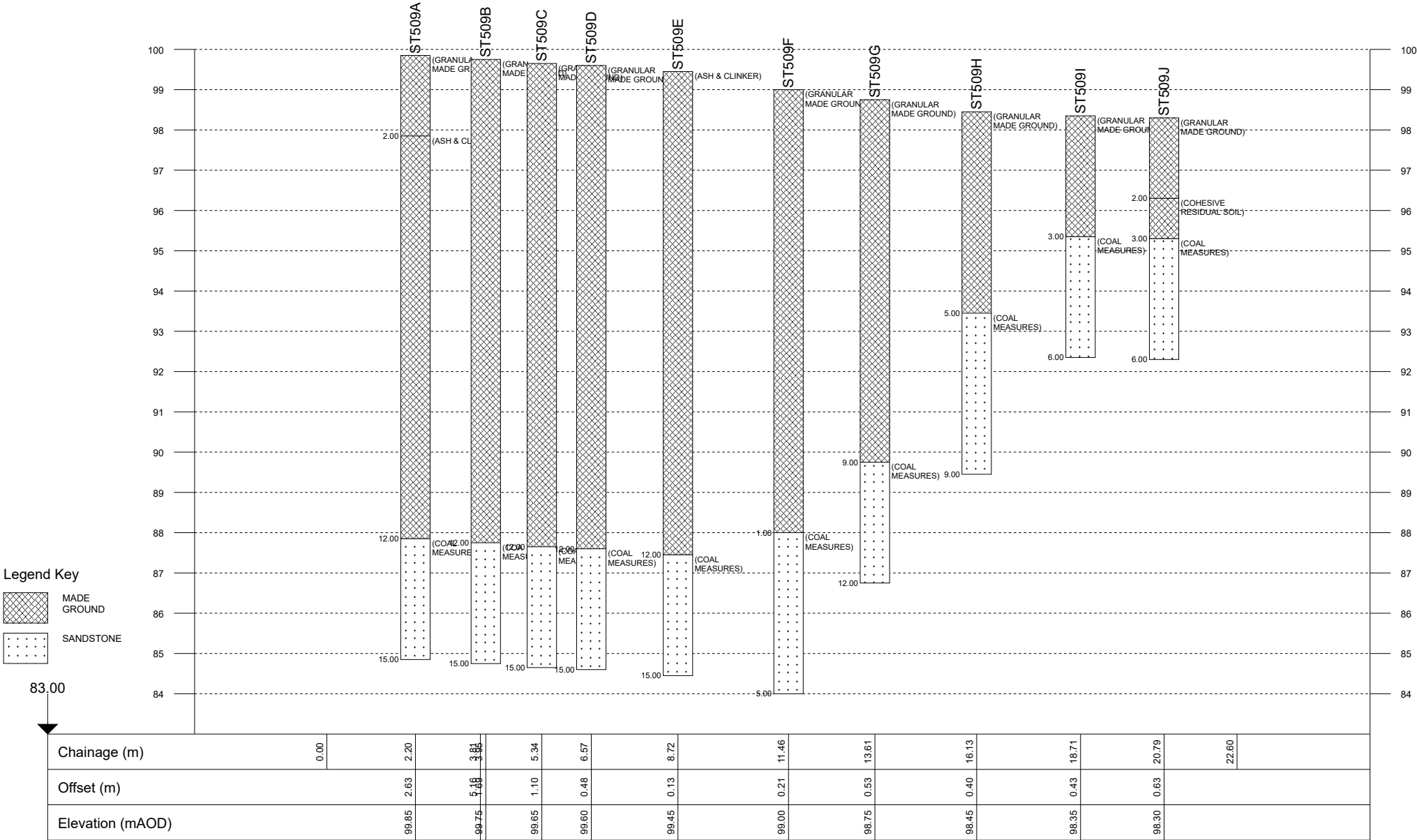
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					3.00		 MADE GROUND. (GRANULAR MADE GROUND)	1	
					6.00		 Yellow SANDSTONE. (COAL MEASURES)	3	
							End of borehole at 6.00 m	6	
								7	
								8	
								9	
								10	

Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.								

					Borehole Log			Borehole No. ST509J Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418347.49 - 425013.45		Hole Type PH
Location: Cleckheaton					Level:		Scale 1:50		
Client: Strata Homes					Dates: 26/09/2020 - 26/09/2020		Logged By AP		
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (GRANULAR MADE GROUND)	1
					2.00			Brown CLAY (COHESIVE RESIDUAL SOIL)	2
					3.00			Buff SANDSTONE. (COAL MEASURES)	3
									4
									5
					6.00			End of borehole at 6.00 m	6
									7
									8
									9
									10
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

Project Id: 3043
Project Title: Westgate, Cleckheaton
Location: Cleckheaton
Client: Strata Homes

Title: Stitch PH line 509
Vertical Scale: 1:131
Horizontal Scale: 1:131
Engineer: ASw



				Borehole Log				Borehole No. ST510A Sheet 1 of 1	
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418300.10 - 425035.35		Hole Type PH	
Location: Cleckheaton				Level:		Scale 1:50		Logged By AP	
Client: Strata Homes				Dates: 26/09/2020 - 26/09/2020					

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (GRANULAR MADE GROUND)	1
									2
									3
									4
					5.00				5
								Buff SANDSTONE. (COAL MEASURES)	6
									7
									8
					9.00				9
								End of borehole at 9.00 m	10

Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.								

					Borehole Log			Borehole No. ST510B Sheet 1 of 1	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418299.49 - 425037.27		Hole Type PH
Location: Cleckheaton					Level:		Scale 1:50		Logged By AP
Client: Strata Homes					Dates: 26/09/2020 - 26/09/2020				

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
							MADE GROUND. (GRANULAR MADE GROUND)		
					4.50		Buff SANDSTONE. (COAL MEASURES)		
					6.00		End of borehole at 6.00 m		

1

2

3

4

5

6

7

8

9

10

End of borehole at 6.00 m

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.



					Borehole Log			Borehole No. ST510C Sheet 1 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418298.90 - 425038.99		Hole Type PH
Location: Cleckheaton					Level:		Scale 1:50		Logged By AP
Client: Strata Homes					Dates: 26/09/2020 - 26/09/2020				
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (GRANULAR MADE GROUND)	
									1
									2
									3
									4
									5
									6
									7
									8
									9
					9.50				10
								Buff SANDSTONE. (COAL MEASURES)	
								Continued on next sheet	
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

					Borehole Log			Borehole No. ST510D Sheet 1 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418298.94 - 425041.34		Hole Type PH
Location: Cleckheaton					Level:		Scale 1:50		Logged By AP
Client: Strata Homes					Dates: 26/09/2020 - 26/09/2020				

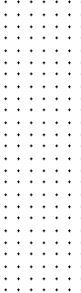
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					1.00		MADE GROUND. (GRANULAR MADE GROUND)	1	
							MADE GROUND. (ASH & CLINKER)	2	
								3	
								4	
								5	
								6	
								7	
								8	
								9	
					9.50		Buff SANDSTONE. (COAL MEASURES)	10	
								Continued on next sheet	

Remarks
 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.



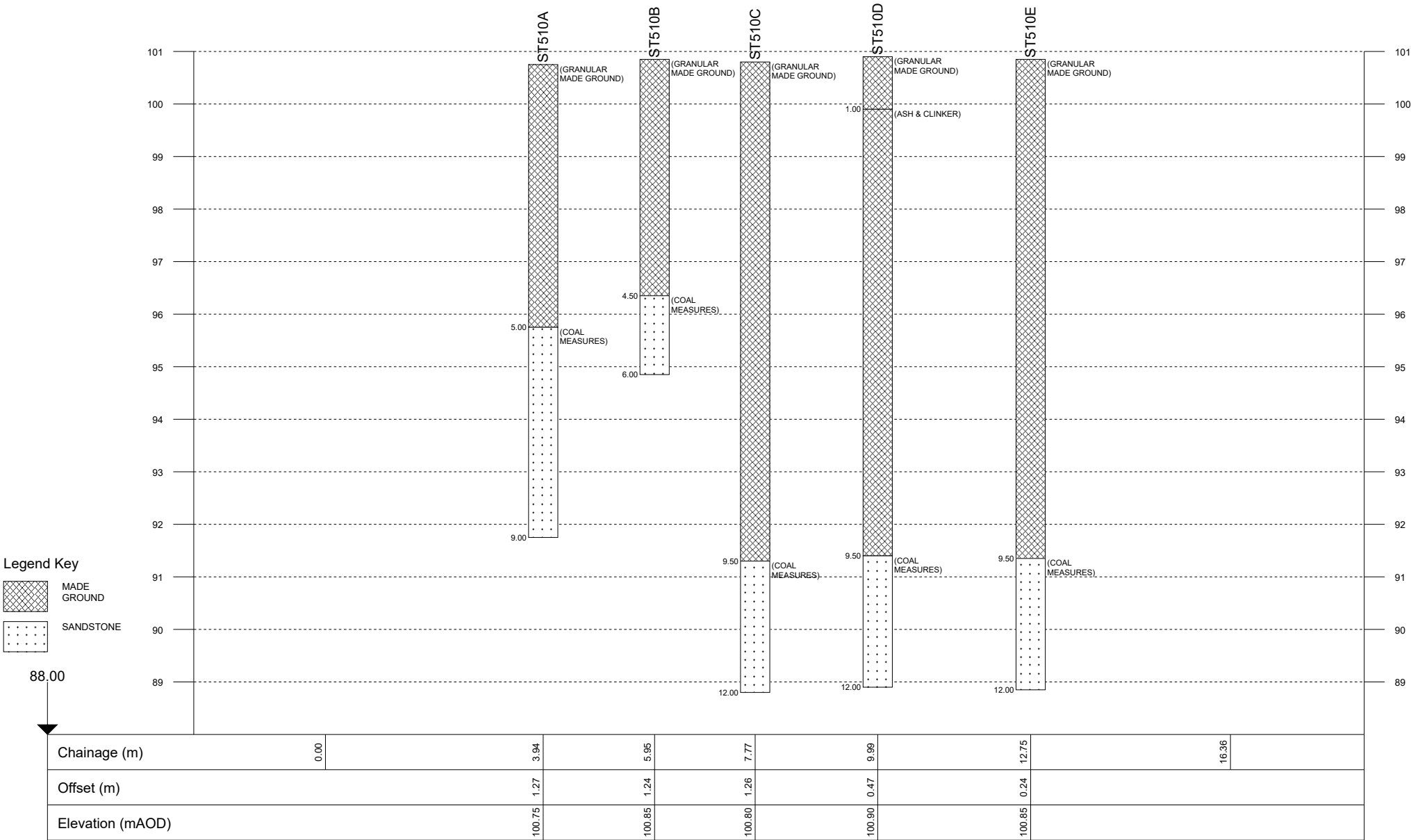
					Borehole Log			Borehole No. ST510D Sheet 2 of 2		
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418298.94 - 425041.34		Hole Type PH	
Location: Cleckheaton					Level:		Scale 1:50		Logged By AP	
Client: Strata Homes					Dates: 26/09/2020 - 26/09/2020					
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
					12.00					
								End of borehole at 12.00 m		
									11	
									12	
									13	
									14	
									15	
									16	
									17	
									18	
									19	
									20	
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.										

					Borehole Log			Borehole No. ST510E Sheet 1 of 2	
Project Name: Westgate, Cleckheaton					Project No. 3043		Co-ords: 418298.74 - 425044.19		Hole Type PH
Location: Cleckheaton					Level:		Scale 1:50		Logged By AP
Client: Strata Homes					Dates: 26/09/2020 - 26/09/2020				
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND. (GRANULAR MADE GROUND)	1
									2
									3
									4
									5
									6
									7
									8
									9
					9.50			Buff SANDSTONE. (COAL MEASURES)	10
Continued on next sheet									
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

				Borehole Log				Borehole No. ST510E Sheet 2 of 2	
Project Name: Westgate, Cleckheaton				Project No. 3043		Co-ords: 418298.74 - 425044.19		Hole Type PH	
Location: Cleckheaton				Level:		Scale 1:50			
Client: Strata Homes				Dates: 26/09/2020 - 26/09/2020		Logged By AP			
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					12.00			End of borehole at 12.00 m	11 12 13 14 15 16 17 18 19 20
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.									

Project Id: 3043
Project Title: Westgate, Cleckheaton
Location: Cleckheaton
Client: Strata Homes

Title: Stitch PH line 510
Vertical Scale: 1:100
Horizontal Scale: 1:95
Engineer: ASw



Appendix I
Chemical Results



Certificate of Analysis

Certificate Number 19-00769

21-Jan-19

Client Lithos Consulting Ltd
Parkhill
Walton Rd
Wetherby
LS22 5DZ

Our Reference 19-00769

Client Reference 3043

Order No PO14032

Contract Title Westgate, Cleckheaton

Description 6 Water samples.

Date Received 16-Jan-19

Date Started 16-Jan-19

Date Completed 21-Jan-19

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By REDACTED

Adam Fenwick
Contracts Manager



Summary of Chemical Analysis

Water Samples

Our Ref 19-00769

Client Ref 3043

Contract Title Westgate, Cleckheaton

Lab No	1445465	1445468
Sample ID	US	DS
Depth		
Other ID	1	1
Sample Type	WATER	WATER
Sampling Date	14/01/19	14/01/19
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Metals					
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	0.92	0.68
Boron, Dissolved	DETSC 2306*	12	ug/l	44	29
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	0.61	0.28
Copper, Dissolved	DETSC 2306	0.4	ug/l	2.9	2.1
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.66	0.29
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	< 0.01
Nickel, Dissolved	DETSC 2306	0.5	ug/l	2.8	1.9
Selenium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25	< 0.25
Zinc, Dissolved	DETSC 2306	1.3	ug/l	14	8.6
Inorganics					
Conductivity	DETSC 2009	1	uS/cm	673	682
pH	DETSC 2008			8	7.6
Alkalinity, Carbonate as CaCO ₃	DETSC 2030*	10	mg/l	< 10	< 10
Cyanide, Total	DETSC 2130	0.04	mg/l	< 0.04	< 0.04
Sulphide	DETSC 2208	10	ug/l	< 10	< 10

Summary of Chemical Analysis

Water VOC/SVOC Samples

Our Ref 19-00769

Client Ref 3043

Contract Title Westgate, Cleckheaton

Lab No	1445466	1445467	1445469	1445470
Sample ID	US	US	DS	DS
Depth				
Other ID	2	3	2	3
Sample Type	WATER	WATER	WATER	WATER
Sampling Date	14/01/19	14/01/19	14/01/19	14/01/19
Sampling Time	n/s	n/s	n/s	n/s

Test	Method	LOD	Units				
VOCs							
Dichlorodifluoromethane	DETS 3432	1	ug/l		< 1		< 1
Chloromethane	DETS 3432	1	ug/l		< 1		< 1
Vinyl Chloride	DETS 3432	1	ug/l		< 1		< 1
Bromomethane	DETS 3432	1	ug/l		< 1		< 1
Chloroethane	DETS 3432	1	ug/l		< 1		< 1
Trichlorofluoromethane	DETS 3432*	1	ug/l		< 1		< 1
1,1-dichloroethylene	DETS 3432	1	ug/l		< 1		< 1
Methylene Chloride	DETS 3432*	27	ug/l		< 27		< 27
Trans-1,2-dichloroethylene	DETS 3432	1	ug/l		< 1		< 1
1,1-dichloroethane	DETS 3432	1	ug/l		< 1		< 1
Cis-1,2-dichloroethylene	DETS 3432	1	ug/l		< 1		< 1
2,2-dichloropropane	DETS 3432	2	ug/l		< 2		< 2
Bromochloromethane	DETS 3432	4	ug/l		< 4		< 4
Chloroform	DETS 3432	1	ug/l		3		2
1,1,1-trichloroethane	DETS 3432	1	ug/l		< 1		< 1
1,1-dichloropropene	DETS 3432	1	ug/l		< 1		< 1
Carbon tetrachloride	DETS 3432	1	ug/l		< 1		< 1
Benzene	DETS 3432	1	ug/l		< 1		< 1
1,2-dichloroethane	DETS 3432	1	ug/l		< 1		< 1
Trichloroethylene	DETS 3432*	1	ug/l		< 1		< 1
1,2-dichloropropane	DETS 3432	1	ug/l		< 1		< 1
Dibromomethane	DETS 3432	1	ug/l		< 1		< 1
Bromodichloromethane	DETS 3432	4	ug/l		< 4		< 4
cis-1,3-dichloropropene	DETS 3432	1	ug/l		< 1		< 1
Toluene	DETS 3432	1	ug/l		< 1		< 1
trans-1,3-dichloropropene	DETS 3432	1	ug/l		< 1		< 1
1,1,2-trichloroethane	DETS 3432	1	ug/l		< 1		< 1
Tetrachloroethylene	DETS 3432	1	ug/l		< 1		< 1
1,3-dichloropropane	DETS 3432	1	ug/l		< 1		< 1
Dibromochloromethane	DETS 3432	1	ug/l		< 1		< 1
1,2-dibromoethane	DETS 3432	1	ug/l		< 1		< 1
Chlorobenzene	DETS 3432	1	ug/l		< 1		< 1
1,1,1,2-tetrachloroethane	DETS 3432	1	ug/l		< 1		< 1
Ethylbenzene	DETS 3432	1	ug/l		< 1		< 1
m+p-Xylene	DETS 3432	2	ug/l		< 2		< 2
o-Xylene	DETS 3432	1	ug/l		< 1		< 1
Styrene	DETS 3432	1	ug/l		< 1		< 1
Bromoform	DETS 3432	1	ug/l		< 1		< 1
Isopropylbenzene	DETS 3432	1	ug/l		< 1		< 1
1,1,2,2-tetrachloroethane	DETS 3432	1	ug/l		< 1		< 1
Bromobenzene	DETS 3432	1	ug/l		< 1		< 1

Summary of Chemical Analysis

Water VOC/SVOC Samples

Our Ref 19-00769

Client Ref 3043

Contract Title Westgate, Cleckheaton

Lab No	1445466	1445467	1445469	1445470
Sample ID	US	US	DS	DS
Depth				
Other ID	2	3	2	3
Sample Type	WATER	WATER	WATER	WATER
Sampling Date	14/01/19	14/01/19	14/01/19	14/01/19
Sampling Time	n/s	n/s	n/s	n/s

Test	Method	LOD	Units				
1,2,3-trichloropropane	DETSC 3432	1	ug/l		< 1		< 1
n-propylbenzene	DETSC 3432	1	ug/l		< 1		< 1
2-chlorotoluene	DETSC 3432	1	ug/l		< 1		< 1
1,3,5-trimethylbenzene	DETSC 3432	1	ug/l		< 1		< 1
4-chlorotoluene	DETSC 3432	1	ug/l		< 1		< 1
Tert-butylbenzene	DETSC 3432	1	ug/l		< 1		< 1
1,2,4-trimethylbenzene	DETSC 3432	1	ug/l		< 1		< 1
sec-butylbenzene	DETSC 3432	1	ug/l		< 1		< 1
p-isopropyltoluene	DETSC 3432	1	ug/l		< 1		< 1
1,3-dichlorobenzene	DETSC 3432	2	ug/l		< 2		< 2
1,4-dichlorobenzene	DETSC 3432	1	ug/l		< 1		< 1
n-butylbenzene	DETSC 3432	1	ug/l		< 1		< 1
1,2-dichlorobenzene	DETSC 3432	1	ug/l		< 1		< 1
1,2-dibromo-3-chloropropane	DETSC 3432	1	ug/l		< 1		< 1
1,2,4-trichlorobenzene	DETSC 3432	1	ug/l		< 1		< 1
Hexachlorobutadiene	DETSC 3432	1	ug/l		< 1		< 1
Naphthalene	DETSC 3432	1	ug/l		< 1		< 1
1,2,3-trichlorobenzene	DETSC 3432	1	ug/l		< 1		< 1
MTBE	DETSC 3432*	1	ug/l		< 1		< 1

SVOCs							
Phenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Aniline	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2-Chlorophenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Benzyl Alcohol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2-Methylphenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Bis(2-chloroisopropyl)ether	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
3&4-Methylphenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Bis(2-chloroethoxy)methane	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2,4-Dimethylphenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2,4-Dichlorophenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
1,2,4-Trichlorobenzene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Naphthalene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
4-Chloro-3-methylphenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2-Methylnaphthalene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Hexachlorocyclopentadiene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2,4,6-Trichlorophenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2,4,5-Trichlorophenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2-Chloronaphthalene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2-Nitroaniline	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2,4-Dinitrotoluene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Acenaphthylene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
3-Nitroaniline	DETSC 3434*	1	ug/l	< 1.0		< 1.0	

Summary of Chemical Analysis

Water VOC/SVOC Samples

Our Ref 19-00769

Client Ref 3043

Contract Title Westgate, Cleckheaton

Lab No	1445466	1445467	1445469	1445470
Sample ID	US	US	DS	DS
Depth				
Other ID	2	3	2	3
Sample Type	WATER	WATER	WATER	WATER
Sampling Date	14/01/19	14/01/19	14/01/19	14/01/19
Sampling Time	n/s	n/s	n/s	n/s

Test	Method	LOD	Units				
Acenaphthene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
4-Nitrophenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Dibenzofuran	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2,6-Dinitrotoluene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2,3,4,6-Tetrachlorophenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Diethylphthalate	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
4-Chlorophenylphenylether	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Fluorene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
4-Nitroaniline	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Diphenylamine	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
4-Bromophenylphenylether	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Hexachlorobenzene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Bis(2-ethylhexyl)ester	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Pentachlorophenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Phenanthrene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Anthracene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Di-n-butylphthalate	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Fluoranthene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Pyrene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Butylbenzylphthalate	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Benzo(a)anthracene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Chrysene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Bis(2-ethylhexyl)phthalate	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Di-n-octylphthalate	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Benzo(b)fluoranthene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Benzo(k)fluoranthene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Benzo(a)pyrene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Indeno(123cd)pyrene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Dibenzo(ah)anthracene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Benzo(ghi)perylene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
1,4-Dinitrobenzene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Dimethylphthalate	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
1,3-Dinitrobenzene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2,3,5,6-Tetrachlorophenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Azobenzene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Carbazole	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
1-Methylnaphthalene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	

Information in Support of the Analytical Results

Our Ref 19-00769
 Client Ref 3043
 Contract Westgate, Cleckheaton

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1445465	US WATER	14/01/19	PB 1L		
1445466	US WATER	14/01/19	GB 1L		
1445467	US WATER	14/01/19	GV x2		
1445468	DS WATER	14/01/19	PB 1L		
1445469	DS WATER	14/01/19	GB 1L		
1445470	DS WATER	14/01/19	GV x2		

Key: P-Plastic B-Bottle G-Glass V-Vial

DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
 Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months



Amended Report

Report No.:	19-01615-2		
Initial Date of Issue:	04-Feb-2019	Date of Re-Issue:	11-Feb-2019
Client	Lithos Consulting		
Client Address:	Walton Road Wetherby LS22 5DZ		
Contact(s):	Alan Swales Josh Jones Liz Hart		
Project	3043 - Westgate, Cleckheaton		
Quotation No.:		Date Received:	17-Jan-2019
Order No.:	PO14065/JEJ/3043	Date Instructed:	23-Jan-2019
No. of Samples:	37		
Turnaround (Wkdays):	14	Results Due:	11-Feb-2019
Date Approved:	11-Feb-2019		

Approved By:

REDACTED

Details: Martin Dyer, Laboratory Manager

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:	Chemtest Sample ID.:				755608	755609	755610	755611	755612	755613	755614	755615	755616
	Client Sample ID.:				1	3	1	1	2	3	5	1	2
	Sample Location:				TP434	TP434	TP435	TP436	TP436	TP436	TP436	TP437	TP437
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.10	2.90	0.10	0.10	0.90	1.40	3.20	0.10	0.40
	Date Sampled:				14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
	Asbestos Lab:				COVENTRY		COVENTRY	COVENTRY	COVENTRY			COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A	-		-	Free F bres	-			-	-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected		No Asbestos Detected	Amosite	No Asbestos Detected			No Asbestos Detected	No Asbestos Detected
ACM Detection Stage	U	2192		N/A	-		-	Stereo Microscopy	-			-	-
Asbestos by Gravimetry	U	2192	%	0.001				0.001					
Total Asbestos	N	2192	%	0.001				0.001					
Moisture	N	2030	%	0.020	13	10	7.6	18	27	13	11	19	24
Soil Colour	N	2040		N/A	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,
Other Material	N	2040		N/A	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,
Soil Texture	N	2040		N/A	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,
pH	M	2010		N/A	9.1	7.0	9.3	8.0	6.8		7.2	8.0	7.6
Magnesium (Water Soluble)	N	2120	g/l	0.010	0.012		< 0.010	0.010	0.12			< 0.010	< 0.010
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.077	0.14	0.015	0.69	15		1.1	0.20	0.26
Total Sulphur	M	2175	%	0.010				0.52	0.25	0.25		1.0	1.3
Chloride (Water Soluble)	M	2220	g/l	0.010	< 0.010		< 0.010	< 0.010	0.094			0.028	0.010
Nitrate (Water Soluble)	N	2220	g/l	0.010	< 0.010		< 0.010	< 0.010	< 0.010			< 0.010	< 0.010
Cyanide (Total)	M	2300	mg/kg	0.50				< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
Vanadium	U	2450	mg/kg	5.0	26		40	47	25			53	58
Total Organic Carbon	M	2625	%	0.20	2.4		3.2	4.7	0.26	0.58		12	25
TPH >C6-C10	N	2670	mg/kg	1.0	< 1.0		< 1.0	< 1.0	< 1.0			< 1.0	< 1.0
TPH >C10-C21	N	2670	mg/kg	1.0	86		9.6	< 1.0	< 1.0			26	9.3
TPH >C21-C40	N	2670	mg/kg	1.0	200		42	< 1.0	< 1.0			170	37
Total TPH >C6-C40	M	2670	mg/kg	10	280		52	< 10	< 10			200	46
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0									
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0									
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0									
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0									
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0									
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0									
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0									
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0									
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0									
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0									
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0									
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0									
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0									
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0									

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:	Chemtest Sample ID.:				755608	755609	755610	755611	755612	755613	755614	755615
	Client Sample ID.:				1	3	1	1	2	3	5	1
	Sample Location:				TP434	TP434	TP435	TP436	TP436	TP436	TP436	TP437
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.10	2.90	0.10	0.10	0.90	1.40	3.20	0.10
	Date Sampled:				14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
	Asbestos Lab:				COVENTRY		COVENTRY	COVENTRY	COVENTRY			COVENTRY
Determinand	Accred.	SOP	Units	LOD								
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0								
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0								
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0								
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0								
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0								
Dichlorodifluoromethane	U	2760	µg/kg	1.0								
Chloromethane	M	2760	µg/kg	1.0								
Vinyl Chloride	M	2760	µg/kg	1.0								
Bromomethane	M	2760	µg/kg	20								
Chloroethane	U	2760	µg/kg	2.0								
Trichlorofluoromethane	M	2760	µg/kg	1.0								
1,1-Dichloroethene	M	2760	µg/kg	1.0								
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0								
1,1-Dichloroethane	M	2760	µg/kg	1.0								
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0								
Bromochloromethane	U	2760	µg/kg	5.0								
Trichloromethane	M	2760	µg/kg	1.0								
1,1,1-Trichloroethane	M	2760	µg/kg	1.0								
Tetrachloromethane	M	2760	µg/kg	1.0								
1,1-Dichloropropene	U	2760	µg/kg	1.0								
Benzene	M	2760	µg/kg	1.0								
1,2-Dichloroethane	M	2760	µg/kg	2.0								
Trichloroethene	N	2760	µg/kg	1.0								
1,2-Dichloropropane	M	2760	µg/kg	1.0								
Dibromomethane	M	2760	µg/kg	1.0								
Bromodichloromethane	M	2760	µg/kg	5.0								
cis-1,3-Dichloropropene	N	2760	µg/kg	10								
Toluene	M	2760	µg/kg	1.0								
Trans-1,3-Dichloropropene	N	2760	µg/kg	10								
1,1,2-Trichloroethane	M	2760	µg/kg	10								
Tetrachloroethene	M	2760	µg/kg	1.0								
1,3-Dichloropropane	U	2760	µg/kg	2.0								
Dibromochloromethane	U	2760	µg/kg	10								
1,2-Dibromoethane	M	2760	µg/kg	5.0								
Chlorobenzene	M	2760	µg/kg	1.0								
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0								
Ethy benzene	M	2760	µg/kg	1.0								
m & p-Xylene	M	2760	µg/kg	1.0								

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:	Chemtest Sample ID.:				755608	755609	755610	755611	755612	755613	755614	755615
	Client Sample ID.:				1	3	1	1	2	3	5	1
	Sample Location:				TP434	TP434	TP435	TP436	TP436	TP436	TP436	TP437
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.10	2.90	0.10	0.10	0.90	1.40	3.20	0.10
	Date Sampled:				14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
	Asbestos Lab:				COVENTRY		COVENTRY	COVENTRY	COVENTRY			COVENTRY
Determinand	Accred.	SOP	Units	LOD								
o-Xylene	M	2760	µg/kg	1.0								
Styrene	M	2760	µg/kg	1.0								
Tribromomethane	U	2760	µg/kg	1.0								
Isopropylbenzene	M	2760	µg/kg	1.0								
Bromobenzene	M	2760	µg/kg	1.0								
1,2,3-Trichloropropane	N	2760	µg/kg	50								
N-Propylbenzene	U	2760	µg/kg	1.0								
2-Chlorotoluene	M	2760	µg/kg	1.0								
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0								
4-Chlorotoluene	U	2760	µg/kg	1.0								
Tert-Butylbenzene	U	2760	µg/kg	1.0								
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0								
Sec-Butylbenzene	U	2760	µg/kg	1.0								
1,3-Dichlorobenzene	M	2760	µg/kg	1.0								
4-Isopropyltoluene	U	2760	µg/kg	1.0								
1,4-Dichlorobenzene	M	2760	µg/kg	1.0								
N-Butylbenzene	U	2760	µg/kg	1.0								
1,2-Dichlorobenzene	M	2760	µg/kg	1.0								
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50								
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0								
Hexachlorobutadiene	U	2760	µg/kg	1.0								
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0								
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0								
N-Nitrosodimethylamine	M	2790	mg/kg	0.50				< 0.50				< 0.50
Phenol	M	2790	mg/kg	0.50				< 0.50				< 0.50
2-Chlorophenol	M	2790	mg/kg	0.50				< 0.50				< 0.50
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50				< 0.50				< 0.50
1,3-Dichlorobenzene	M	2790	mg/kg	0.50				< 0.50				< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.50				< 0.50				< 0.50
1,2-Dichlorobenzene	M	2790	mg/kg	0.50				< 0.50				< 0.50
2-Methylphenol	M	2790	mg/kg	0.50				< 0.50				< 0.50
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50				< 0.50				< 0.50
Hexachloroethane	N	2790	mg/kg	0.50				< 0.50				< 0.50
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50				< 0.50				< 0.50
4-Methylphenol	M	2790	mg/kg	0.50				< 0.50				< 0.50
Nitrobenzene	M	2790	mg/kg	0.50				< 0.50				< 0.50
Isophorone	M	2790	mg/kg	0.50				< 0.50				< 0.50
2-Nitrophenol	N	2790	mg/kg	0.50				< 0.50				< 0.50

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:	Chemtest Sample ID.:				755608	755609	755610	755611	755612	755613	755614	755615	755616
	Client Sample ID.:				1	3	1	1	2	3	5	1	2
	Sample Location:				TP434	TP434	TP435	TP436	TP436	TP436	TP436	TP437	TP437
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.10	2.90	0.10	0.10	0.90	1.40	3.20	0.10	0.40
	Date Sampled:				14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
	Asbestos Lab:				COVENTRY		COVENTRY	COVENTRY	COVENTRY			COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD									
2,4-Dimethylphenol	N	2790	mg/kg	0.50				< 0.50				< 0.50	
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50				< 0.50				< 0.50	
2,4-Dichlorophenol	M	2790	mg/kg	0.50				< 0.50				< 0.50	
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50				< 0.50				< 0.50	
Naphthalene	M	2790	mg/kg	0.50				< 0.50				< 0.50	
4-Chloroaniline	N	2790	mg/kg	0.50				< 0.50				< 0.50	
Hexachlorobutadiene	M	2790	mg/kg	0.50				< 0.50				< 0.50	
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50				< 0.50				< 0.50	
2-Methylnaphthalene	M	2790	mg/kg	0.50				< 0.50				< 0.50	
4-Nitrophenol	N	2790	mg/kg	0.50				< 0.50				< 0.50	
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50				< 0.50				< 0.50	
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50				< 0.50				< 0.50	
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50				< 0.50				< 0.50	
2-Chloronaphthalene	M	2790	mg/kg	0.50				< 0.50				< 0.50	
2-Nitroaniline	M	2790	mg/kg	0.50				< 0.50				< 0.50	
Acenaphthylene	M	2790	mg/kg	0.50				< 0.50				< 0.50	
Dimethylphthalate	M	2790	mg/kg	0.50				< 0.50				< 0.50	
2,6-Dinitrotoluene	M	2790	mg/kg	0.50				< 0.50				< 0.50	
Acenaphthene	M	2790	mg/kg	0.50				< 0.50				< 0.50	
3-Nitroaniline	N	2790	mg/kg	0.50				< 0.50				< 0.50	
Dibenzofuran	M	2790	mg/kg	0.50				< 0.50				< 0.50	
4-Chlorophenylphenylether	M	2790	mg/kg	0.50				< 0.50				< 0.50	
2,4-Dinitrotoluene	M	2790	mg/kg	0.50				< 0.50				< 0.50	
Fluorene	M	2790	mg/kg	0.50				< 0.50				< 0.50	
Diethyl Phthalate	M	2790	mg/kg	0.50				< 0.50				< 0.50	
4-Nitroaniline	M	2790	mg/kg	0.50				< 0.50				< 0.50	
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50				< 0.50				< 0.50	
Azobenzene	M	2790	mg/kg	0.50				< 0.50				< 0.50	
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50				< 0.50				< 0.50	
Hexachlorobenzene	M	2790	mg/kg	0.50				< 0.50				< 0.50	
Pentachlorophenol	N	2790	mg/kg	0.50				< 0.50				< 0.50	
Phenanthrene	M	2790	mg/kg	0.50				1.6				< 0.50	
Anthracene	M	2790	mg/kg	0.50				< 0.50				< 0.50	
Carbazole	M	2790	mg/kg	0.50				< 0.50				< 0.50	
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50				< 0.50				< 0.50	
Fluoranthene	M	2790	mg/kg	0.50				3.7				< 0.50	
Pyrene	M	2790	mg/kg	0.50				3.5				< 0.50	
Butyl benzyl Phthalate	M	2790	mg/kg	0.50				< 0.50				< 0.50	

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:	Chemtest Sample ID.:				755608	755609	755610	755611	755612	755613	755614	755615	755616
	Client Sample ID.:				1	3	1	1	2	3	5	1	2
	Sample Location:				TP434	TP434	TP435	TP436	TP436	TP436	TP436	TP437	TP437
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.10	2.90	0.10	0.10	0.90	1.40	3.20	0.10	0.40
	Date Sampled:				14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
	Asbestos Lab:				COVENTRY		COVENTRY	COVENTRY	COVENTRY			COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD									
Benzo[a]anthracene	M	2790	mg/kg	0.50				2.6				< 0.50	
Chrysene	M	2790	mg/kg	0.50				2.2				< 0.50	
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50				< 0.50				< 0.50	
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50				< 0.50				< 0.50	
Benzo[b]fluoranthene	M	2790	mg/kg	0.50				2.9				< 0.50	
Benzo[k]fluoranthene	M	2790	mg/kg	0.50				1.2				< 0.50	
Benzo[a]pyrene	M	2790	mg/kg	0.50				2.2				< 0.50	
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50				1.3				< 0.50	
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50				< 0.50				< 0.50	
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50				1.3				< 0.50	
Phenol	N	2900	mg/kg	0.20				< 0.20	< 0.20	< 0.20			< 0.20
2-Chlorophenol	N	2900	mg/kg	0.20				< 0.20	< 0.20	< 0.20			< 0.20
2-Methylphenol	N	2900	mg/kg	0.20				< 0.20	< 0.20	< 0.20			< 0.20
3-Methylphenol	N	2900	mg/kg	0.20				< 0.20	< 0.20	< 0.20			< 0.20
4-Methylphenol	N	2900	mg/kg	0.20				< 0.20	< 0.20	< 0.20			< 0.20
2-Nitrophenol	N	2900	mg/kg	0.20				< 0.20	< 0.20	< 0.20			< 0.20
2,4-Dimethylphenol	N	2900	mg/kg	0.20				< 0.20	< 0.20	< 0.20			< 0.20
2,4-Dichlorophenol	N	2900	mg/kg	0.20				< 0.20	< 0.20	< 0.20			< 0.20
2,6-Dichlorophenol	N	2900	mg/kg	0.20				< 0.20	< 0.20	< 0.20			< 0.20
4-Chloro-3-Methylphenol	N	2900	mg/kg	0.20				< 0.20	< 0.20	< 0.20			< 0.20
2,3,4-Trichlorophenol	N	2900	mg/kg	0.20				< 0.20	< 0.20	< 0.20			< 0.20
2,3,5-Trichlorophenol	N	2900	mg/kg	0.20				< 0.20	< 0.20	< 0.20			< 0.20
2,3,6-Trichlorophenol	N	2900	mg/kg	0.20				< 0.20	< 0.20	< 0.20			< 0.20
2,4,6-Trichlorophenol	N	2900	mg/kg	0.20				< 0.20	< 0.20	< 0.20			< 0.20
2,4,5-Trichlorophenol	N	2900	mg/kg	0.20				< 0.20	< 0.20	< 0.20			< 0.20
4-Nitrophenol	N	2900	mg/kg	0.20				< 0.20	< 0.20	< 0.20			< 0.20
2,3,4,5-Tetrachlorophenol	N	2900	mg/kg	0.20				< 0.20	< 0.20	< 0.20			< 0.20
2,3,4,6-Tetrachlorophenol	N	2900	mg/kg	0.20				< 0.20	< 0.20	< 0.20			< 0.20
2,3,5,6-Tetrachlorophenol	N	2900	mg/kg	0.20				< 0.20	< 0.20	< 0.20			< 0.20
3,4,5-Trichlorophenol	N	2900	mg/kg	0.20				< 0.20	< 0.20	< 0.20			< 0.20
2-Methyl-4,6-Dinitrophenol	N	2900	mg/kg	0.20				< 0.20	< 0.20	< 0.20			< 0.20
Pentachlorophenol	N	2900	mg/kg	0.20				< 0.20	< 0.20	< 0.20			< 0.20
2-Sec-Butyl-4,6-Dinitrophenol	N	2900	mg/kg	0.20				< 0.20	< 0.20	< 0.20			< 0.20
Total Phenols	N	2900	mg/kg	5.00				< 5.0	< 5.0	< 5.0			< 5.0
Arsenic	M	2450	mg/kg	1.0	17		18	920	93			77	70
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.99		0.62	1.0	1.5			1.6	1.5
Cadmium	M	2450	mg/kg	0.10	0.37		0.90	11	0.67			1.3	0.32
Chromium	M	2450	mg/kg	1.0	15		130	24	13			120	70

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:					19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:	Chemtest Sample ID.:					755608	755609	755610	755611	755612	755613	755614	755615
	Client Sample ID.:					1	3	1	1	2	3	5	1
	Sample Location:					TP434	TP434	TP435	TP436	TP436	TP436	TP436	TP437
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					0.10	2.90	0.10	0.10	0.90	1.40	3.20	0.10
	Date Sampled:					14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
	Asbestos Lab:					COVENTRY		COVENTRY	COVENTRY	COVENTRY			COVENTRY
Determinand	Accred.	SOP	Units	LOD									
Chromium (Trivalent)	N	2490	mg/kg	1.0	15		130	24	13			120	70
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50
Copper	M	2450	mg/kg	0.50	52		72	390	31			160	110
Lead	M	2450	mg/kg	0.50	120		180	730	77			530	1500
Mercury	M	2450	mg/kg	0.10	0.19		0.98	0.18	< 0.10			0.13	0.13
Nickel	M	2450	mg/kg	0.50	33		43	64	30			50	65
Selenium	M	2450	mg/kg	0.20	0.34		0.54	3.5	0.63			0.93	1.3
Zinc	M	2450	mg/kg	0.50	140		300	320	65			110	77

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:	Chemtest Sample ID.:				755617	755618	755619	755620	755621	755622	755623	755624	755625
	Client Sample ID.:				4	5	1	2	3	4	1	2	3
	Sample Location:				TP437	TP437	TP438	TP438	TP438	TP438	TP439	TP439	TP439
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				1.40	3.60	0.10	1.80	2.80	3.60	0.10	2.00	2.80
	Date Sampled:				14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
	Asbestos Lab:										COVENTRY		
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A							-		
Asbestos Identification	U	2192	%	0.001							No Asbestos Detected		
ACM Detection Stage	U	2192		N/A							-		
Asbestos by Gravimetry	U	2192	%	0.001									
Total Asbestos	N	2192	%	0.001									
Moisture	N	2030	%	0.020	16	29	16	25	24	21	19	15	< 0.020
Soil Colour	N	2040		N/A	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,	Brown
Other Material	N	2040		N/A	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,	Stones
Soil Texture	N	2040		N/A	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,	Sand
pH	M	2010		N/A							7.7		
Magnesium (Water Soluble)	N	2120	g/l	0.010							0.010		
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010							0.26		
Total Sulphur	M	2175	%	0.010	2.7	3.4	0.26	0.50	0.77	0.38	0.64	1.4	2.3
Chloride (Water Soluble)	M	2220	g/l	0.010							0.018		
Nitrate (Water Soluble)	N	2220	g/l	0.010							< 0.010		
Cyanide (Total)	M	2300	mg/kg	0.50	0.70	< 0.50	2.0	1.7	17	1.3	0.80	0.60	0.50
Vanadium	U	2450	mg/kg	5.0							52		
Total Organic Carbon	M	2625	%	0.20							12		
TPH >C6-C10	N	2670	mg/kg	1.0							< 1.0		
TPH >C10-C21	N	2670	mg/kg	1.0							57		
TPH >C21-C40	N	2670	mg/kg	1.0							160		
Total TPH >C6-C40	M	2670	mg/kg	10							220		
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0									
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0									
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0									
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0									
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0									
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0									
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0									
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0									
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0									
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0									
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0									
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0									
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0									
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0									

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:	Chemtest Sample ID.:				755617	755618	755619	755620	755621	755622	755623	755624	755625
	Client Sample ID.:				4	5	1	2	3	4	1	2	3
	Sample Location:				TP437	TP437	TP438	TP438	TP438	TP438	TP439	TP439	TP439
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				1.40	3.60	0.10	1.80	2.80	3.60	0.10	2.00	2.80
	Date Sampled:				14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
	Asbestos Lab:										COVENTRY		
Determinand	Accred.	SOP	Units	LOD									
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0									
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0									
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0									
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0									
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0									
Dichlorodifluoromethane	U	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	M	2760	µg/kg	20			< 20	< 20	< 20	< 20	< 20	< 20	< 20
Chloroethane	U	2760	µg/kg	2.0			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichlorofluoromethane	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane	U	2760	µg/kg	5.0			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloromethane	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	U	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	M	2760	µg/kg	2.0			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichloroethene	N	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	M	2760	µg/kg	5.0			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10			< 10	< 10	< 10	< 10	< 10	< 10	< 10
Toluene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10			< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1,2-Trichloroethane	M	2760	µg/kg	10			< 10	< 10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	U	2760	µg/kg	2.0			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromochloromethane	U	2760	µg/kg	10			< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane	M	2760	µg/kg	5.0			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethy benzene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:	Chemtest Sample ID.:				755617	755618	755619	755620	755621	755622	755623	755624
	Client Sample ID.:				4	5	1	2	3	4	1	2
	Sample Location:				TP437	TP437	TP438	TP438	TP438	TP438	TP439	TP439
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				1.40	3.60	0.10	1.80	2.80	3.60	0.10	2.00
	Date Sampled:				14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
	Asbestos Lab:										COVENTRY	
Determinand	Accred.	SOP	Units	LOD								
o-Xylene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	U	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50			< 50	< 50	< 50	< 50	< 50	< 50
N-Propylbenzene	U	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	U	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Sec-Butylbenzene	U	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Butylbenzene	U	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50			< 50	< 50	< 50	< 50	< 50	< 50
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	U	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Nitrosodimethylamine	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenol	M	2790	mg/kg	0.50			< 0.50	< 0.50	2.0	< 0.50	< 0.50	< 0.50
2-Chlorophenol	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylphenol	M	2790	mg/kg	0.50			< 0.50	< 0.50	1.1	< 0.50	< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachloroethane	N	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methylphenol	M	2790	mg/kg	0.50			< 0.50	< 0.50	2.0	< 0.50	< 0.50	< 0.50
Nitrobenzene	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isophorone	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitrophenol	N	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results - Soil

Client: Lithos Consulting	Chemtest Job No.:				19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:	Chemtest Sample ID.:				755617	755618	755619	755620	755621	755622	755623	755624
	Client Sample ID.:				4	5	1	2	3	4	1	2
	Sample Location:				TP437	TP437	TP438	TP438	TP438	TP438	TP439	TP439
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				1.40	3.60	0.10	1.80	2.80	3.60	0.10	2.00
	Date Sampled:				14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
	Asbestos Lab:										COVENTRY	
Determinand	Accred.	SOP	Units	LOD								
2,4-Dimethylphenol	N	2790	mg/kg	0.50			< 0.50	< 0.50	0.68	< 0.50	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dichlorophenol	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene	M	2790	mg/kg	0.50			4.7	4.0	33	29	< 0.50	0.68
4-Chloroaniline	N	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylnaphthalene	M	2790	mg/kg	0.50			1.9	3.2	9.4	12	< 0.50	< 0.50
4-Nitrophenol	N	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chloronaphthalene	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	0.63	< 0.50	< 0.50
2-Nitroaniline	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthylene	M	2790	mg/kg	0.50			1.9	< 0.50	< 0.50	11	< 0.50	< 0.50
Dimethylphthalate	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,6-Dinitrotoluene	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthene	M	2790	mg/kg	0.50			2.4	3.3	4.7	9.6	< 0.50	< 0.50
3-Nitroaniline	N	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenzofuran	M	2790	mg/kg	0.50			1.7	4.6	6.4	11	< 0.50	< 0.50
4-Chlorophenylphenylether	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dinitrotoluene	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	1.8	< 0.50	< 0.50
Fluorene	M	2790	mg/kg	0.50			1.7	2.7	< 0.50	8.9	< 0.50	< 0.50
Diethyl Phthalate	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitroaniline	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Azobenzene	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobenzene	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Pentachlorophenol	N	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenanthrene	M	2790	mg/kg	0.50			13	36	34	45	0.88	6.0
Anthracene	M	2790	mg/kg	0.50			3.6	6.4	6.7	14	< 0.50	1.7
Carbazole	M	2790	mg/kg	0.50			1.7	2.1	4.1	7.8	< 0.50	0.80
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluoranthene	M	2790	mg/kg	0.50			16	36	33	40	1.5	10
Pyrene	M	2790	mg/kg	0.50			13	23	22	30	1.2	7.3
Butyl benzyl Phthalate	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results - Soil

Client: Lithos Consulting	Chemtest Job No.:				19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:	Chemtest Sample ID.:				755617	755618	755619	755620	755621	755622	755623	755624	755625
	Client Sample ID.:				4	5	1	2	3	4	1	2	3
	Sample Location:				TP437	TP437	TP438	TP438	TP438	TP438	TP439	TP439	TP439
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				1.40	3.60	0.10	1.80	2.80	3.60	0.10	2.00	2.80
	Date Sampled:				14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
	Asbestos Lab:										COVENTRY		
Determinand	Accred.	SOP	Units	LOD									
Benzo[a]anthracene	M	2790	mg/kg	0.50			7.7	16	12	21	0.81	5.6	6.6
Chrysene	M	2790	mg/kg	0.50			6.9	17	13	20	0.87	4.8	6.7
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[b]fluoranthene	M	2790	mg/kg	0.50			7.8	20	14	23	1.2	6.4	6.5
Benzo[k]fluoranthene	M	2790	mg/kg	0.50			3.4	7.2	5.4	9.8	< 0.50	2.7	2.4
Benzo[a]pyrene	M	2790	mg/kg	0.50			5.9	7.0	7.1	13	0.78	3.8	4.1
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50			3.2	5.9	< 0.50	7.6	< 0.50	2.7	2.3
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50			0.99	2.3	< 0.50	2.9	< 0.50	0.86	0.82
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50			3.1	4.7	< 0.50	7.2	< 0.50	2.7	2.3
Phenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	1.9	< 0.20	< 0.20	< 0.20	< 0.20
2-Chlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2-Methylphenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	3.7	< 0.20	< 0.20	< 0.20	< 0.20
3-Methylphenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
4-Methylphenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	2.0	< 0.20	< 0.20	< 0.20	< 0.20
2-Nitrophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,4-Dimethylphenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.68	< 0.20	< 0.20	< 0.20	< 0.20
2,4-Dichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,6-Dichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
4-Chloro-3-Methylphenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,3,4-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,3,5-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,3,6-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,4,6-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,4,5-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
4-Nitrophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,3,4,5-Tetrachlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,3,4,6-Tetrachlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,3,5,6-Tetrachlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
3,4,5-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2-Methyl-4,6-Dinitrophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Pentachlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2-Sec-Butyl-4,6-Dinitrophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Total Phenols	N	2900	mg/kg	5.00	< 5.0	< 5.0	< 5.0	< 5.0	8.3	< 5.0	< 5.0	< 5.0	< 5.0
Arsenic	M	2450	mg/kg	1.0							47		
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40							1.2		
Cadmium	M	2450	mg/kg	0.10							0.58		
Chromium	M	2450	mg/kg	1.0							110		

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:	Chemtest Sample ID.:				755617	755618	755619	755620	755621	755622	755623	755624	755625
	Client Sample ID.:				4	5	1	2	3	4	1	2	3
	Sample Location:				TP437	TP437	TP438	TP438	TP438	TP438	TP439	TP439	TP439
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				1.40	3.60	0.10	1.80	2.80	3.60	0.10	2.00	2.80
	Date Sampled:				14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
	Asbestos Lab:										COVENTRY		
Determinand	Accred.	SOP	Units	LOD									
Chromium (Trivalent)	N	2490	mg/kg	1.0							110		
Chromium (Hexavalent)	N	2490	mg/kg	0.50							< 0.50		
Copper	M	2450	mg/kg	0.50							110		
Lead	M	2450	mg/kg	0.50							560		
Mercury	M	2450	mg/kg	0.10							0.23		
Nickel	M	2450	mg/kg	0.50							50		
Selenium	M	2450	mg/kg	0.20							1.1		
Zinc	M	2450	mg/kg	0.50							250		

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:	Chemtest Sample ID.:				755626	755627	755628	755629	755630	755631	755632	755633	755634
	Client Sample ID.:				4	1	2	3	4	1	2	3	4
	Sample Location:				TP439	TP440	TP440	TP440	TP440	TP441	TP441	TP441	TP441
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				3.90	0.10	2.00	2.70	3.50	0.10	1.90	3.00	3.90
	Date Sampled:				14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
	Asbestos Lab:					COVENTRY				COVENTRY			
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A		-				-			
Asbestos Identification	U	2192	%	0.001		No Asbestos Detected				No Asbestos Detected			
ACM Detection Stage	U	2192		N/A		-				-			
Asbestos by Gravimetry	U	2192	%	0.001									
Total Asbestos	N	2192	%	0.001									
Moisture	N	2030	%	0.020	15	14	22	39	13	20	34	22	24
Soil Colour	N	2040		N/A	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,
Other Material	N	2040		N/A	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,
Soil Texture	N	2040		N/A	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,
pH	M	2010		N/A		9.4			4.3	7.5			
Magnesium (Water Soluble)	N	2120	g/l	0.010		< 0.010			0.018	< 0.010			
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010		0.67			1.0	1.4			
Total Sulphur	M	2175	%	0.010	0.98	0.61	2.8	0.74		1.4	3.3	2.1	0.49
Chloride (Water Soluble)	M	2220	g/l	0.010		0.023			< 0.010	< 0.010			
Nitrate (Water Soluble)	N	2220	g/l	0.010		< 0.010			< 0.010	< 0.010			
Cyanide (Total)	M	2300	mg/kg	0.50	1.5	1.3	4.8	0.70		1.9	0.70	< 0.50	0.90
Vanadium	U	2450	mg/kg	5.0		38				66			
Total Organic Carbon	M	2625	%	0.20	0.59	5.5	16	1.7		6.2	19	1.1	1.8
TPH >C6-C10	N	2670	mg/kg	1.0						< 1.0			
TPH >C10-C21	N	2670	mg/kg	1.0						21			
TPH >C21-C40	N	2670	mg/kg	1.0						54			
Total TPH >C6-C40	M	2670	mg/kg	10						75			
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0					
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0					
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0					
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0					
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0		2.1	3.2	< 1.0					
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0		5.1	5.0	< 1.0					
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0		30	28	< 1.0					
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0					
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0		37	37	< 5.0					
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0					
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0					
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0					
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0		1.1	1.2	< 1.0					
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0		4.3	8.1	< 1.0					

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:	Chemtest Sample ID.:				755626	755627	755628	755629	755630	755631	755632	755633	755634
	Client Sample ID.:				4	1	2	3	4	1	2	3	4
	Sample Location:				TP439	TP440	TP440	TP440	TP440	TP441	TP441	TP441	TP441
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				3.90	0.10	2.00	2.70	3.50	0.10	1.90	3.00	3.90
	Date Sampled:				14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
	Asbestos Lab:					COVENTRY				COVENTRY			
Determinand	Accred.	SOP	Units	LOD									
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0		37	54	< 1.0					
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0		230	180	< 1.0					
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0		9.2	< 1.0	< 1.0					
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0		280	240	< 5.0					
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0		320	280	< 10					
Dichlorodifluoromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
Chloromethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
Vinyl Chloride	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
Bromomethane	M	2760	µg/kg	20	< 20	< 20	< 20	< 20					
Chloroethane	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0					
Trichlorofluoromethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
1,1-Dichloroethene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
1,1-Dichloroethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
Bromochloromethane	U	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0					
Trichloromethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
1,1,1-Trichloroethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
Tetrachloromethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
1,1-Dichloropropene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
1,2-Dichloroethane	M	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0					
Trichloroethene	N	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
1,2-Dichloropropane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
Dibromomethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
Bromodichloromethane	M	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0					
cis-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10	< 10	< 10					
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10	< 10	< 10					
1,1,2-Trichloroethane	M	2760	µg/kg	10	< 10	< 10	< 10	< 10					
Tetrachloroethene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
1,3-Dichloropropane	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0					
Dibromochloromethane	U	2760	µg/kg	10	< 10	< 10	< 10	< 10					
1,2-Dibromoethane	M	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0					
Chlorobenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0					
Ethy benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:	Chemtest Sample ID.:				755626	755627	755628	755629	755630	755631	755632	755633	755634
	Client Sample ID.:				4	1	2	3	4	1	2	3	4
	Sample Location:				TP439	TP440	TP440	TP440	TP440	TP441	TP441	TP441	TP441
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				3.90	0.10	2.00	2.70	3.50	0.10	1.90	3.00	3.90
	Date Sampled:				14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
	Asbestos Lab:					COVENTRY				COVENTRY			
Determinand	Accred.	SOP	Units	LOD									
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
Styrene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
Tribromomethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
Isopropylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
Bromobenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
1,2,3-Trichloropropane	N	2760	µg/kg	50	< 50	< 50	< 50	< 50					
N-Propylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
2-Chlorotoluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
4-Chlorotoluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
Tert-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
Sec-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
1,3-Dichlorobenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
4-Isopropyltoluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
1,4-Dichlorobenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
N-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
1,2-Dichlorobenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	< 50	< 50	< 50	< 50					
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
Hexachlorobutadiene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0					
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0					
N-Nitrosodimethylamine	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Phenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
2-Chlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
1,3-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
1,2-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
2-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Hexachloroethane	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
4-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Nitrobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Isophorone	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
2-Nitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50

Results - Soil

Client: Lithos Consulting	Chemtest Job No.:					19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:	Chemtest Sample ID.:					755626	755627	755628	755629	755630	755631	755632	755633	755634
	Client Sample ID.:					4	1	2	3	4	1	2	3	4
	Sample Location:					TP439	TP440	TP440	TP440	TP440	TP441	TP441	TP441	TP441
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					3.90	0.10	2.00	2.70	3.50	0.10	1.90	3.00	3.90
	Date Sampled:					14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
	Asbestos Lab:						COVENTRY				COVENTRY			
Determinand	Accred.	SOP	Units	LOD										
2,4-Dimethylphenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
2,4-Dichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Naphthalene	M	2790	mg/kg	0.50	< 0.50	0.65	2.3	< 0.50			< 0.50			0.78
4-Chloroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50			< 0.50
Hexachlorobutadiene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50			< 0.50
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50			< 0.50
2-Methylnaphthalene	M	2790	mg/kg	0.50	< 0.50	0.63	1.9	< 0.50			< 0.50			< 0.50
4-Nitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50			< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50			< 0.50
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50			< 0.50
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50			< 0.50
2-Chloronaphthalene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50			< 0.50
2-Nitroaniline	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50			< 0.50
Acenaphthylene	M	2790	mg/kg	0.50	< 0.50	1.0	3.7	< 0.50			< 0.50			< 0.50
Dimethylphthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50			< 0.50
2,6-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50			< 0.50
Acenaphthene	M	2790	mg/kg	0.50	< 0.50	1.3	4.5	< 0.50			< 0.50			< 0.50
3-Nitroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50			< 0.50
Dibenzofuran	M	2790	mg/kg	0.50	< 0.50	0.74	2.6	< 0.50			< 0.50			< 0.50
4-Chlorophenylphenylether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50			< 0.50
2,4-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50			< 0.50
Fluorene	M	2790	mg/kg	0.50	< 0.50	0.76	2.4	< 0.50			< 0.50			< 0.50
Diethyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50			< 0.50
4-Nitroaniline	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50			< 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50			< 0.50
Azobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50			< 0.50
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50			< 0.50
Hexachlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50			< 0.50
Pentachlorophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50			< 0.50
Phenanthrene	M	2790	mg/kg	0.50	< 0.50	8.2	21	< 0.50			< 0.50			1.2
Anthracene	M	2790	mg/kg	0.50	< 0.50	2.4	5.4	< 0.50			< 0.50			< 0.50
Carbazole	M	2790	mg/kg	0.50	< 0.50	0.90	2.8	< 0.50			< 0.50			< 0.50
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50			< 0.50
Fluoranthene	M	2790	mg/kg	0.50	< 0.50	11	22	< 0.50			< 0.50			1.6
Pyrene	M	2790	mg/kg	0.50	< 0.50	9.7	18	< 0.50			< 0.50			1.6
Butyl benzyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50			< 0.50

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:					19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:	Chemtest Sample ID.:					755626	755627	755628	755629	755630	755631	755632	755633
	Client Sample ID.:					4	1	2	3	4	1	2	3
	Sample Location:					TP439	TP440	TP440	TP440	TP440	TP441	TP441	TP441
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					3.90	0.10	2.00	2.70	3.50	0.10	1.90	3.00
	Date Sampled:					14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
	Asbestos Lab:						COVENTRY				COVENTRY		
Determinand	Accred.	SOP	Units	LOD									
Benzo[a]anthracene	M	2790	mg/kg	0.50	< 0.50	6.4	11	< 0.50		< 0.50			0.85
Chrysene	M	2790	mg/kg	0.50	< 0.50	6.4	11	< 0.50		< 0.50			0.89
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Benzo[b]fluoranthene	M	2790	mg/kg	0.50	< 0.50	8.1	12	< 0.50		< 0.50			0.88
Benzo[k]fluoranthene	M	2790	mg/kg	0.50	< 0.50	3.2	4.9	< 0.50		< 0.50			< 0.50
Benzo[a]pyrene	M	2790	mg/kg	0.50	< 0.50	5.3	9.0	< 0.50		< 0.50			< 0.50
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50	< 0.50	3.2	4.8	< 0.50		< 0.50			< 0.50
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50	< 0.50	0.97	1.7	< 0.50		< 0.50			< 0.50
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50	< 0.50	3.6	5.1	< 0.50		< 0.50			< 0.50
Phenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2-Chlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2-Methylphenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
3-Methylphenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
4-Methylphenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2-Nitrophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2,4-Dimethylphenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2,4-Dichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2,6-Dichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
4-Chloro-3-Methylphenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2,3,4-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2,3,5-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2,3,6-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2,4,6-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2,4,5-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
4-Nitrophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2,3,4,5-Tetrachlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2,3,4,6-Tetrachlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2,3,5,6-Tetrachlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
3,4,5-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2-Methyl-4,6-Dinitrophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
Pentachlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2-Sec-Butyl-4,6-Dinitrophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
Total Phenols	N	2900	mg/kg	5.00	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5.0
Arsenic	M	2450	mg/kg	1.0		180				270			
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40		0.63				0.69			
Cadmium	M	2450	mg/kg	0.10		0.77				0.70			
Chromium	M	2450	mg/kg	1.0		28				37			

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:	Chemtest Sample ID.:				755626	755627	755628	755629	755630	755631	755632	755633	755634
	Client Sample ID.:				4	1	2	3	4	1	2	3	4
	Sample Location:				TP439	TP440	TP440	TP440	TP440	TP441	TP441	TP441	TP441
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				3.90	0.10	2.00	2.70	3.50	0.10	1.90	3.00	3.90
	Date Sampled:				14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
	Asbestos Lab:					COVENTRY				COVENTRY			
Determinand	Accred.	SOP	Units	LOD									
Chromium (Trivalent)	N	2490	mg/kg	1.0		28				37			
Chromium (Hexavalent)	N	2490	mg/kg	0.50		< 0.50				< 0.50			
Copper	M	2450	mg/kg	0.50		76				100			
Lead	M	2450	mg/kg	0.50		640				560			
Mercury	M	2450	mg/kg	0.10		0.70				1.0			
Nickel	M	2450	mg/kg	0.50		38				45			
Selenium	M	2450	mg/kg	0.20		1.1				1.6			
Zinc	M	2450	mg/kg	0.50		130				150			

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:	Chemtest Sample ID.:				755635	755636	755637	755638	755640	755641	755642	755643	755644
	Client Sample ID.:				1	2	3	5	2	1	3	4	1
	Sample Location:				TP442	TP442	TP442	TP442	TP443	TP444	TP444	TP444	TP446
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.10	1.00	1.50	3.10	0.80	0.10	1.50	2.40	0.30
	Date Sampled:				15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019
	Asbestos Lab:				COVENTRY				COVENTRY	COVENTRY			COVENTRY
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A	-				-	-			-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected				No Asbestos Detected	No Asbestos Detected			No Asbestos Detected
ACM Detection Stage	U	2192		N/A	-				-	-			-
Asbestos by Gravimetry	U	2192	%	0.001									
Total Asbestos	N	2192	%	0.001									
Moisture	N	2030	%	0.020	19	25	14	13	18	15	22	29	17
Soil Colour	N	2040		N/A	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,
Other Material	N	2040		N/A	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,
Soil Texture	N	2040		N/A	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,
pH	M	2010		N/A	7.9			7.6	7.3	7.9			6.0
Magnesium (Water Soluble)	N	2120	g/l	0.010	< 0.010				< 0.010	0.012			< 0.010
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.58			0.52	1.2	0.54			0.24
Total Sulphur	M	2175	%	0.010	0.43	3.5	0.041		0.94	0.43	0.58	0.034	
Chloride (Water Soluble)	M	2220	g/l	0.010	< 0.010				< 0.010	< 0.010			< 0.010
Nitrate (Water Soluble)	N	2220	g/l	0.010	< 0.010				< 0.010	< 0.010			< 0.010
Cyanide (Total)	M	2300	mg/kg	0.50	1.5	< 0.50	< 0.50		0.80	1.2	0.90	< 0.50	
Vanadium	U	2450	mg/kg	5.0	44				95	37			35
Total Organic Carbon	M	2625	%	0.20	10	5.8	0.56		23	4.8	12	0.75	4.9
TPH >C6-C10	N	2670	mg/kg	1.0					< 1.0				< 1.0
TPH >C10-C21	N	2670	mg/kg	1.0					50				45
TPH >C21-C40	N	2670	mg/kg	1.0					340				49
Total TPH >C6-C40	M	2670	mg/kg	10					390				94
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	7.1	< 1.0	
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	12	< 1.0	
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	2.4	2.6	< 1.0			< 1.0	15	< 1.0	
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	5.5	6.5	< 1.0			1.6	< 1.0	< 1.0	
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	29	28	< 1.0			18	920	< 1.0	
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	37	37	< 5.0			20	960	< 5.0	
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	1.6	1.3	< 1.0			1.3	< 1.0	< 1.0	
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	10	6.8	< 1.0			2.1	11	< 1.0	

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:	Chemtest Sample ID.:				755635	755636	755637	755638	755640	755641	755642	755643
	Client Sample ID.:				1	2	3	5	2	1	3	4
	Sample Location:				TP442	TP442	TP442	TP442	TP443	TP444	TP444	TP446
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.10	1.00	1.50	3.10	0.80	0.10	1.50	2.40
	Date Sampled:				15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019
	Asbestos Lab:				COVENTRY				COVENTRY	COVENTRY		COVENTRY
Determinand	Accred.	SOP	Units	LOD								
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	69	35	< 1.0			14	550	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	530	160	< 1.0			78	700	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	77	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	690	200	< 5.0			95	1300	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	720	240	< 10			110	2200	< 10
Dichlorodifluoromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Chloromethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Vinyl Chloride	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Bromomethane	M	2760	µg/kg	20	< 20	< 20	< 20			< 20	< 20	< 20
Chloroethane	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0			< 2.0	< 2.0	< 2.0
Trichlorofluoromethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Bromochloromethane	U	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0			< 5.0	< 5.0	< 5.0
Trichloromethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Tetrachloromethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	M	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0			< 2.0	< 2.0	< 2.0
Trichloroethene	N	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Dibromomethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Bromodichloromethane	M	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0			< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10	< 10			< 10	< 10	< 10
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10	< 10			< 10	< 10	< 10
1,1,2-Trichloroethane	M	2760	µg/kg	10	< 10	< 10	< 10			< 10	< 10	< 10
Tetrachloroethene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0			< 2.0	< 2.0	< 2.0
Dibromochloromethane	U	2760	µg/kg	10	< 10	< 10	< 10			< 10	< 10	< 10
1,2-Dibromoethane	M	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0			< 5.0	< 5.0	< 5.0
Chlorobenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0			< 2.0	< 2.0	< 2.0
Ethy benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:	Chemtest Sample ID.:				755635	755636	755637	755638	755640	755641	755642	755643
	Client Sample ID.:				1	2	3	5	2	1	3	4
	Sample Location:				TP442	TP442	TP442	TP442	TP443	TP444	TP444	TP446
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.10	1.00	1.50	3.10	0.80	0.10	1.50	2.40
	Date Sampled:				15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019
	Asbestos Lab:				COVENTRY				COVENTRY	COVENTRY		COVENTRY
Determinand	Accred.	SOP	Units	LOD								
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Styrene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Tribromomethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Isopropylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Bromobenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50	< 50	< 50	< 50			< 50	< 50	< 50
N-Propylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
2-Chlorotoluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
4-Chlorotoluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Sec-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
N-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	< 50	< 50	< 50			< 50	< 50	< 50
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0			< 2.0	< 2.0	< 2.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
N-Nitrosodimethylamine	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50
Phenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50
2-Chlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50
2-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50
Hexachloroethane	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50
4-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50
Nitrobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50
Isophorone	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50
2-Nitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:	Chemtest Sample ID.:				755635	755636	755637	755638	755640	755641	755642	755643	755644
	Client Sample ID.:				1	2	3	5	2	1	3	4	1
	Sample Location:				TP442	TP442	TP442	TP442	TP443	TP444	TP444	TP444	TP446
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.10	1.00	1.50	3.10	0.80	0.10	1.50	2.40	0.30
	Date Sampled:				15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019
	Asbestos Lab:				COVENTRY				COVENTRY	COVENTRY			COVENTRY
Determinand	Accred.	SOP	Units	LOD									
2,4-Dimethylphenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene	M	2790	mg/kg	0.50	< 0.50	1.6	< 0.50			< 0.50	< 0.50	< 0.50	5.2
4-Chloroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
2-Methylnaphthalene	M	2790	mg/kg	0.50	< 0.50	0.91	< 0.50			< 0.50	< 0.50	< 0.50	3.6
4-Nitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
2-Chloronaphthalene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
2-Nitroaniline	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthylene	M	2790	mg/kg	0.50	0.73	2.6	< 0.50			< 0.50	< 0.50	< 0.50	3.3
Dimethylphthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
2,6-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthene	M	2790	mg/kg	0.50	0.81	3.4	< 0.50			< 0.50	< 0.50	< 0.50	3.5
3-Nitroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Dibenzofuran	M	2790	mg/kg	0.50	< 0.50	2.3	< 0.50			< 0.50	< 0.50	< 0.50	6.3
4-Chlorophenylphenylether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Fluorene	M	2790	mg/kg	0.50	0.62	2.4	< 0.50			< 0.50	< 0.50	< 0.50	2.2
Diethyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
4-Nitroaniline	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	4.8
Azobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Pentachlorophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Phenanthrene	M	2790	mg/kg	0.50	8.2	12	< 0.50			3.3	0.74	< 0.50	34
Anthracene	M	2790	mg/kg	0.50	2.2	3.2	< 0.50			0.87	< 0.50	< 0.50	6.9
Carbazole	M	2790	mg/kg	0.50	1.4	1.3	< 0.50			< 0.50	< 0.50	< 0.50	2.9
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Fluoranthene	M	2790	mg/kg	0.50	12	12	< 0.50			5.3	1.3	< 0.50	35
Pyrene	M	2790	mg/kg	0.50	10	9.4	< 0.50			4.5	1.2	< 0.50	28
Buty benzyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50

Results - Soil

Client: Lithos Consulting	Chemtest Job No.:				19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:	Chemtest Sample ID.:				755635	755636	755637	755638	755640	755641	755642	755643	755644
	Client Sample ID.:				1	2	3	5	2	1	3	4	1
	Sample Location:				TP442	TP442	TP442	TP442	TP443	TP444	TP444	TP444	TP446
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.10	1.00	1.50	3.10	0.80	0.10	1.50	2.40	0.30
	Date Sampled:				15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019
	Asbestos Lab:				COVENTRY				COVENTRY	COVENTRY			COVENTRY
Determinand	Accred.	SOP	Units	LOD									
Benzo[a]anthracene	M	2790	mg/kg	0.50	6.8	5.2	< 0.50			3.0	0.65	< 0.50	14
Chrysene	M	2790	mg/kg	0.50	6.8	4.7	< 0.50			2.8	0.72	< 0.50	13
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Benzo[b]fluoranthene	M	2790	mg/kg	0.50	7.9	4.7	< 0.50			2.8	< 0.50	< 0.50	23
Benzo[k]fluoranthene	M	2790	mg/kg	0.50	3.2	2.2	< 0.50			1.5	< 0.50	< 0.50	9.0
Benzo[a]pyrene	M	2790	mg/kg	0.50	6.6	3.6	< 0.50			2.6	< 0.50	< 0.50	8.4
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50	3.1	1.7	< 0.50			1.4	< 0.50	< 0.50	8.9
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50	1.0	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	2.8
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50	3.6	2.0	< 0.50			1.5	< 0.50	< 0.50	9.3
Phenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2-Chlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2-Methylphenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
3-Methylphenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
4-Methylphenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2-Nitrophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,4-Dimethylphenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,4-Dichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,6-Dichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
4-Chloro-3-Methylphenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,3,4-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,3,5-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,3,6-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,4,6-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,4,5-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
4-Nitrophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,3,4,5-Tetrachlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,3,4,6-Tetrachlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,3,5,6-Tetrachlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
3,4,5-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2-Methyl-4,6-Dinitrophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Pentachlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2-Sec-Butyl-4,6-Dinitrophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Total Phenols	N	2900	mg/kg	5.00	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Arsenic	M	2450	mg/kg	1.0	46				72	110			52
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	1.8				0.68	0.46			0.73
Cadmium	M	2450	mg/kg	0.10	0.36				0.57	0.23			0.31
Chromium	M	2450	mg/kg	1.0	25				47	22			25

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:					19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:	Chemtest Sample ID.:					755635	755636	755637	755638	755640	755641	755642	755644
	Client Sample ID.:					1	2	3	5	2	1	3	1
	Sample Location:					TP442	TP442	TP442	TP442	TP443	TP444	TP444	TP446
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					0.10	1.00	1.50	3.10	0.80	0.10	1.50	0.30
	Date Sampled:					15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019
	Asbestos Lab:					COVENTRY				COVENTRY	COVENTRY		COVENTRY
Determinand	Accred.	SOP	Units	LOD									
Chromium (Trivalent)	N	2490	mg/kg	1.0	25					47	22		25
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50					< 0.50	< 0.50		< 0.50
Copper	M	2450	mg/kg	0.50	58					82	56		43
Lead	M	2450	mg/kg	0.50	140					840	340		86
Mercury	M	2450	mg/kg	0.10	0.17					0.26	0.59		< 0.10
Nickel	M	2450	mg/kg	0.50	31					47	37		16
Selenium	M	2450	mg/kg	0.20	0.37					0.98	1.2		0.63
Zinc	M	2450	mg/kg	0.50	68					91	94		49

Results - Soil

Client: Lithos Consulting	Chemtest Job No.:				19-01615
Quotation No.:	Chemtest Sample ID.:				755645
	Client Sample ID.:				2
	Sample Location:				TP446
	Sample Type:				SOIL
	Top Depth (m):				1.60
	Date Sampled:				15-Jan-2019
	Asbestos Lab:				
Determinand	Accred.	SOP	Units	LOD	
ACM Type	U	2192		N/A	
Asbestos Identification	U	2192	%	0.001	
ACM Detection Stage	U	2192		N/A	
Asbestos by Gravimetry	U	2192	%	0.001	
Total Asbestos	N	2192	%	0.001	
Moisture	N	2030	%	0.020	17
Soil Colour	N	2040		N/A	Brown,
Other Material	N	2040		N/A	Stones,
Soil Texture	N	2040		N/A	Sand,
pH	M	2010		N/A	
Magnesium (Water Soluble)	N	2120	g/l	0.010	
Sulphate (2:1 Water Soluble) as SO ₄	M	2120	g/l	0.010	
Total Sulphur	M	2175	%	0.010	
Chloride (Water Soluble)	M	2220	g/l	0.010	
Nitrate (Water Soluble)	N	2220	g/l	0.010	
Cyanide (Total)	M	2300	mg/kg	0.50	
Vanadium	U	2450	mg/kg	5.0	
Total Organic Carbon	M	2625	%	0.20	0.84
TPH >C6-C10	N	2670	mg/kg	1.0	
TPH >C10-C21	N	2670	mg/kg	1.0	
TPH >C21-C40	N	2670	mg/kg	1.0	
Total TPH >C6-C40	M	2670	mg/kg	10	
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	

Project: 3043 - Westgate, Cleckheaton

Results - Soil

Client: Lithos Consulting	Chemtest Job No.:				19-01615
Quotation No.:	Chemtest Sample ID.:				755645
	Client Sample ID.:				2
	Sample Location:				TP446
	Sample Type:				SOIL
	Top Depth (m):				1.60
	Date Sampled:				15-Jan-2019
	Asbestos Lab:				
Determinand	Accred.	SOP	Units	LOD	
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	
Dichlorodifluoromethane	U	2760	µg/kg	1.0	< 1.0
Chloromethane	M	2760	µg/kg	1.0	< 1.0
Vinyl Chloride	M	2760	µg/kg	1.0	< 1.0
Bromomethane	M	2760	µg/kg	20	< 20
Chloroethane	U	2760	µg/kg	2.0	< 2.0
Trichlorofluoromethane	M	2760	µg/kg	1.0	< 1.0
1,1-Dichloroethene	M	2760	µg/kg	1.0	< 1.0
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0	< 1.0
1,1-Dichloroethane	M	2760	µg/kg	1.0	< 1.0
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0	< 1.0
Bromochloromethane	U	2760	µg/kg	5.0	< 5.0
Trichloromethane	M	2760	µg/kg	1.0	< 1.0
1,1,1-Trichloroethane	M	2760	µg/kg	1.0	< 1.0
Tetrachloromethane	M	2760	µg/kg	1.0	< 1.0
1,1-Dichloropropene	U	2760	µg/kg	1.0	< 1.0
Benzene	M	2760	µg/kg	1.0	< 1.0
1,2-Dichloroethane	M	2760	µg/kg	2.0	< 2.0
Trichloroethene	N	2760	µg/kg	1.0	< 1.0
1,2-Dichloropropane	M	2760	µg/kg	1.0	< 1.0
Dibromomethane	M	2760	µg/kg	1.0	< 1.0
Bromodichloromethane	M	2760	µg/kg	5.0	< 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10	< 10
Toluene	M	2760	µg/kg	1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	< 10
1,1,2-Trichloroethane	M	2760	µg/kg	10	< 10
Tetrachloroethene	M	2760	µg/kg	1.0	< 1.0
1,3-Dichloropropane	U	2760	µg/kg	2.0	< 2.0
Dibromochloromethane	U	2760	µg/kg	10	< 10
1,2-Dibromoethane	M	2760	µg/kg	5.0	< 5.0
Chlorobenzene	M	2760	µg/kg	1.0	< 1.0
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0	< 2.0
Ethy benzene	M	2760	µg/kg	1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0

Client: Lithos Consulting	Chemtest Job No.:				19-01615
Quotation No.:	Chemtest Sample ID.:				755645
	Client Sample ID.:				2
	Sample Location:				TP446
	Sample Type:				SOIL
	Top Depth (m):				1.60
	Date Sampled:				15-Jan-2019
	Asbestos Lab:				
Determinand	Accred.	SOP	Units	LOD	
o-Xylene	M	2760	µg/kg	1.0	< 1.0
Styrene	M	2760	µg/kg	1.0	< 1.0
Tribromomethane	U	2760	µg/kg	1.0	< 1.0
Isopropylbenzene	M	2760	µg/kg	1.0	< 1.0
Bromobenzene	M	2760	µg/kg	1.0	< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50	< 50
N-Propylbenzene	U	2760	µg/kg	1.0	< 1.0
2-Chlorotoluene	M	2760	µg/kg	1.0	< 1.0
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0	< 1.0
4-Chlorotoluene	U	2760	µg/kg	1.0	< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1.0	< 1.0
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0	< 1.0
Sec-Butylbenzene	U	2760	µg/kg	1.0	< 1.0
1,3-Dichlorobenzene	M	2760	µg/kg	1.0	< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1.0	< 1.0
1,4-Dichlorobenzene	M	2760	µg/kg	1.0	< 1.0
N-Butylbenzene	U	2760	µg/kg	1.0	< 1.0
1,2-Dichlorobenzene	M	2760	µg/kg	1.0	< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	< 50
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0	< 1.0
Hexachlorobutadiene	U	2760	µg/kg	1.0	< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0	< 2.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0
N-Nitrosodimethylamine	M	2790	mg/kg	0.50	< 0.50
Phenol	M	2790	mg/kg	0.50	< 0.50
2-Chlorophenol	M	2790	mg/kg	0.50	< 0.50
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50	< 0.50
1,3-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.50	< 0.50
1,2-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50
2-Methylphenol	M	2790	mg/kg	0.50	< 0.50
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50	< 0.50
Hexachloroethane	N	2790	mg/kg	0.50	< 0.50
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50	< 0.50
4-Methylphenol	M	2790	mg/kg	0.50	< 0.50
Nitrobenzene	M	2790	mg/kg	0.50	< 0.50
Isophorone	M	2790	mg/kg	0.50	< 0.50
2-Nitrophenol	N	2790	mg/kg	0.50	< 0.50

Client: Lithos Consulting	Chemtest Job No.:				19-01615
Quotation No.:	Chemtest Sample ID.:				755645
	Client Sample ID.:				2
	Sample Location:				TP446
	Sample Type:				SOIL
	Top Depth (m):				1.60
	Date Sampled:				15-Jan-2019
	Asbestos Lab:				
Determinand	Accred.	SOP	Units	LOD	
2,4-Dimethylphenol	N	2790	mg/kg	0.50	< 0.50
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50	< 0.50
2,4-Dichlorophenol	M	2790	mg/kg	0.50	< 0.50
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50	< 0.50
Naphthalene	M	2790	mg/kg	0.50	< 0.50
4-Chloroaniline	N	2790	mg/kg	0.50	< 0.50
Hexachlorobutadiene	M	2790	mg/kg	0.50	< 0.50
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50	< 0.50
2-Methylnaphthalene	M	2790	mg/kg	0.50	< 0.50
4-Nitrophenol	N	2790	mg/kg	0.50	< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50	< 0.50
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50
2-Chloronaphthalene	M	2790	mg/kg	0.50	< 0.50
2-Nitroaniline	M	2790	mg/kg	0.50	< 0.50
Acenaphthylene	M	2790	mg/kg	0.50	< 0.50
Dimethylphthalate	M	2790	mg/kg	0.50	< 0.50
2,6-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50
Acenaphthene	M	2790	mg/kg	0.50	< 0.50
3-Nitroaniline	N	2790	mg/kg	0.50	< 0.50
Dibenzofuran	M	2790	mg/kg	0.50	< 0.50
4-Chlorophenylphenylether	M	2790	mg/kg	0.50	< 0.50
2,4-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50
Fluorene	M	2790	mg/kg	0.50	< 0.50
Diethyl Phthalate	M	2790	mg/kg	0.50	< 0.50
4-Nitroaniline	M	2790	mg/kg	0.50	< 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50	< 0.50
Azobenzene	M	2790	mg/kg	0.50	< 0.50
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50	< 0.50
Hexachlorobenzene	M	2790	mg/kg	0.50	< 0.50
Pentachlorophenol	N	2790	mg/kg	0.50	< 0.50
Phenanthrene	M	2790	mg/kg	0.50	< 0.50
Anthracene	M	2790	mg/kg	0.50	< 0.50
Carbazole	M	2790	mg/kg	0.50	< 0.50
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50	< 0.50
Fluoranthene	M	2790	mg/kg	0.50	< 0.50
Pyrene	M	2790	mg/kg	0.50	< 0.50
Butyl benzyl Phthalate	M	2790	mg/kg	0.50	< 0.50

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				19-01615
Quotation No.:	Chemtest Sample ID.:				755645
	Client Sample ID.:				2
	Sample Location:				TP446
	Sample Type:				SOIL
	Top Depth (m):				1.60
	Date Sampled:				15-Jan-2019
	Asbestos Lab:				
Determinand	Accred.	SOP	Units	LOD	
Benzo[a]anthracene	M	2790	mg/kg	0.50	< 0.50
Chrysene	M	2790	mg/kg	0.50	< 0.50
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50	< 0.50
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50	< 0.50
Benzo[b]fluoranthene	M	2790	mg/kg	0.50	< 0.50
Benzo[k]fluoranthene	M	2790	mg/kg	0.50	< 0.50
Benzo[a]pyrene	M	2790	mg/kg	0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50	< 0.50
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50	< 0.50
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50	< 0.50
Phenol	N	2900	mg/kg	0.20	< 0.20
2-Chlorophenol	N	2900	mg/kg	0.20	< 0.20
2-Methylphenol	N	2900	mg/kg	0.20	< 0.20
3-Methylphenol	N	2900	mg/kg	0.20	< 0.20
4-Methylphenol	N	2900	mg/kg	0.20	< 0.20
2-Nitrophenol	N	2900	mg/kg	0.20	< 0.20
2,4-Dimethylphenol	N	2900	mg/kg	0.20	< 0.20
2,4-Dichlorophenol	N	2900	mg/kg	0.20	< 0.20
2,6-Dichlorophenol	N	2900	mg/kg	0.20	< 0.20
4-Chloro-3-Methylphenol	N	2900	mg/kg	0.20	< 0.20
2,3,4-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20
2,3,5-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20
2,3,6-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20
2,4,6-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20
2,4,5-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20
4-Nitrophenol	N	2900	mg/kg	0.20	< 0.20
2,3,4,5-Tetrachlorophenol	N	2900	mg/kg	0.20	< 0.20
2,3,4,6-Tetrachlorophenol	N	2900	mg/kg	0.20	< 0.20
2,3,5,6-Tetrachlorophenol	N	2900	mg/kg	0.20	< 0.20
3,4,5-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20
2-Methyl-4,6-Dinitrophenol	N	2900	mg/kg	0.20	< 0.20
Pentachlorophenol	N	2900	mg/kg	0.20	< 0.20
2-Sec-Butyl-4,6-Dinitrophenol	N	2900	mg/kg	0.20	< 0.20
Total Phenols	N	2900	mg/kg	5.00	< 5.0
Arsenic	M	2450	mg/kg	1.0	
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	
Cadmium	M	2450	mg/kg	0.10	
Chromium	M	2450	mg/kg	1.0	

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Results - Soil

Client: Lithos Consulting	Chemtest Job No.:		19-01615	
Quotation No.:	Chemtest Sample ID.:		755645	
	Client Sample ID.:		2	
	Sample Location:		TP446	
	Sample Type:		SOIL	
	Top Depth (m):		1.60	
	Date Sampled:		15-Jan-2019	
	Asbestos Lab:			
Determinand	Accred.	SOP	Units	LOD
Chromium (Trivalent)	N	2490	mg/kg	1.0
Chromium (Hexavalent)	N	2490	mg/kg	0.50
Copper	M	2450	mg/kg	0.50
Lead	M	2450	mg/kg	0.50
Mercury	M	2450	mg/kg	0.10
Nickel	M	2450	mg/kg	0.50
Selenium	M	2450	mg/kg	0.20
Zinc	M	2450	mg/kg	0.50

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2220	Water soluble Chloride in Soils	Chloride	Aqueous extraction and measurement by 'Aquakem 600' Discrete Analyser using ferric nitrate / mercuric thiocyanate.
2300	Cyanides & Thiocyanate in Soils	Free (or easily liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8, >C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C44 Aromatics: >C5–C7, >C7–C8, >C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS
2900	Phenols in Soils by GC-MS	Approximately 24 substituted Phenols, including Chlorophenols	Dichloromethane extraction / GC-MS

Report Information

Key

- U UKAS accredited
- M MCERTS and UKAS accredited
- N Unaccredited
- S This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
- SN This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
- T This analysis has been subcontracted to an unaccredited laboratory
- I/S Insufficient Sample
- U/S Unsuitable Sample
- N/E not evaluated
- < "less than"
- > "greater than"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

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

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

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

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

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

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Certificate of Analysis

Certificate Number 19-07101

24-Apr-19

Client Lithos Consulting Ltd
Parkhill
Walton Rd
Wetherby
LS22 5DZ

Our Reference 19-07101

Client Reference 3043

Order No 14416

Contract Title Westgate Cleckheaton

Description 2 Water samples.

Date Received 16-Apr-19

Date Started 16-Apr-19

Date Completed 24-Apr-19

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By REDACTED

Adam Fenwick
Contracts Manager



Summary of Chemical Analysis

Water Samples

Our Ref 19-07101

Client Ref 3043

Contract Title Westgate Cleckheaton

Lab No	1489173	1489174
Sample ID	SW1	SW2
Depth		
Other ID	1	4
Sample Type	WATER	WATER
Sampling Date	09/04/19	09/04/19
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Metals					
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	0.72	0.99
Boron, Dissolved	DETSC 2306*	12	ug/l	35	32
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25	< 0.25
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.6	1.6
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.11	0.23
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	< 0.01
Nickel, Dissolved	DETSC 2306	0.5	ug/l	2.8	2.3
Selenium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25	< 0.25
Zinc, Dissolved	DETSC 2306	1.3	ug/l	3.7	3.5
Inorganics					
Conductivity	DETSC 2009	1	uS/cm	577	552
pH	DETSC 2008			7.6	7.5
Alkalinity, Carbonate as CaCO ₃	DETSC 2030*	10	mg/l	< 10	< 10
Cyanide, Total	DETSC 2130	40	ug/l	< 40	< 40
Sulphide	DETSC 2208	10	ug/l	30	17

Summary of Chemical Analysis

Water Samples

Our Ref 19-07101

Client Ref 3043

Contract Title Westgate Cleckheaton

Lab No	1489173	1489174
Sample ID	SW1	SW2
Depth		
Other ID	1	4
Sample Type	WATER	WATER
Sampling Date	09/04/19	09/04/19
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
VOCs					
Dichlorodifluoromethane	DETSC 3432	1	ug/l	< 1	< 1
Chloromethane	DETSC 3432	1	ug/l	< 1	< 1
Vinyl Chloride	DETSC 3432	1	ug/l	< 1	< 1
Bromomethane	DETSC 3432	1	ug/l	< 1	< 1
Chloroethane	DETSC 3432	1	ug/l	< 1	< 1
Trichlorofluoromethane	DETSC 3432*	1	ug/l	< 1	< 1
1,1-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
Methylene Chloride	DETSC 3432*	27	ug/l	< 27	< 27
Trans-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
1,1-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Cis-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
2,2-dichloropropane	DETSC 3432	2	ug/l	< 2	< 2
Bromochloromethane	DETSC 3432	4	ug/l	< 4	< 4
Chloroform	DETSC 3432	1	ug/l	2	2
1,1,1-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1
1,1-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
Carbon tetrachloride	DETSC 3432	1	ug/l	< 1	< 1
Benzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Trichloroethylene	DETSC 3432*	1	ug/l	< 1	< 1
1,2-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1
Dibromomethane	DETSC 3432	1	ug/l	< 1	< 1
Bromodichloromethane	DETSC 3432	4	ug/l	< 4	< 4
cis-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
Toluene	DETSC 3432	1	ug/l	< 1	< 1
trans-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
1,1,2-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Tetrachloroethylene	DETSC 3432	1	ug/l	< 1	< 1
1,3-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1
Dibromochloromethane	DETSC 3432	1	ug/l	< 1	< 1
1,2-dibromoethane	DETSC 3432	1	ug/l	< 1	< 1
Chlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
1,1,1,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1
Ethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
m+p-Xylene	DETSC 3432	2	ug/l	< 2	< 2
o-Xylene	DETSC 3432	1	ug/l	< 1	< 1
Styrene	DETSC 3432	1	ug/l	< 1	< 1
Bromoform	DETSC 3432	1	ug/l	< 1	< 1
Isopropylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,1,2,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1
Bromobenzene	DETSC 3432	1	ug/l	< 1	< 1

Summary of Chemical Analysis

Water Samples

Our Ref 19-07101

Client Ref 3043

Contract Title Westgate Cleckheaton

Lab No	1489173	1489174
Sample ID	SW1	SW2
Depth		
Other ID	1	4
Sample Type	WATER	WATER
Sampling Date	09/04/19	09/04/19
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
1,2,3-trichloropropane	DETSC 3432	1	ug/l	< 1	< 1
n-propylbenzene	DETSC 3432	1	ug/l	< 1	< 1
2-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1
1,3,5-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
4-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1
Tert-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2,4-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
sec-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
p-isopropyltoluene	DETSC 3432	1	ug/l	< 1	< 1
1,3-dichlorobenzene	DETSC 3432	2	ug/l	< 2	< 2
1,4-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
n-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dibromo-3-chloropropane	DETSC 3432	1	ug/l	< 1	< 1
1,2,4-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
Hexachlorobutadiene	DETSC 3432	1	ug/l	< 1	< 1
Naphthalene	DETSC 3432	1	ug/l	< 1	< 1
1,2,3-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
MTBE	DETSC 3432*	1	ug/l	< 1	< 1
SVOCs					
Phenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Aniline	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2-Chlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Benzyl Alcohol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2-Methylphenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Bis(2-chloroisopropyl)ether	DETSC 3434*	1	ug/l	< 1.0	< 1.0
3&4-Methylphenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Bis(2-chloroethoxy)methane	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,4-Dimethylphenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,4-Dichlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
1,2,4-Trichlorobenzene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
4-Chloro-3-methylphenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2-Methylnaphthalene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Hexachlorocyclopentadiene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,4,6-Trichlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,4,5-Trichlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2-Chloronaphthalene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2-Nitroaniline	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,4-Dinitrotoluene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Acenaphthylene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
3-Nitroaniline	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Acenaphthene	DETSC 3434*	1	ug/l	< 1.0	< 1.0

Summary of Chemical Analysis

Water Samples

Our Ref 19-07101

Client Ref 3043

Contract Title Westgate Cleckheaton

Lab No	1489173	1489174
Sample ID	SW1	SW2
Depth		
Other ID	1	4
Sample Type	WATER	WATER
Sampling Date	09/04/19	09/04/19
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
4-Nitrophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Dibenzofuran	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,6-Dinitrotoluene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,3,4,6-Tetrachlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Diethylphthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0
4-Chlorophenylphenylether	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Fluorene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
4-Nitroaniline	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Diphenylamine	DETSC 3434*	1	ug/l	< 1.0	< 1.0
4-Bromophenylphenylether	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Hexachlorobenzene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Bis(2-ethylhexyl)ester	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Pentachlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Phenanthrene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Anthracene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Di-n-butylphthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Fluoranthene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Pyrene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Butylbenzylphthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Benzo(a)anthracene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Chrysene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Bis(2-ethylhexyl)phthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Di-n-octylphthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Benzo(b)fluoranthene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Benzo(k)fluoranthene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Benzo(a)pyrene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Indeno(123cd)pyrene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Dibenzo(ah)anthracene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Benzo(ghi)perylene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
1,4-Dinitrobenzene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Dimethylphthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0
1,3-Dinitrobenzene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,3,5,6-Tetrachlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Azobenzene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Carbazole	DETSC 3434*	1	ug/l	< 1.0	< 1.0
1-Methylnaphthalene	DETSC 3434*	1	ug/l	< 1.0	< 1.0

Information in Support of the Analytical Results

Our Ref 19-07101
 Client Ref 3043
 Contract Westgate Cleckheaton

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1489173	SW1 WATER	09/04/19	GV, PB 1L	Kone (Sulphide) (5 days), pH/Cond/TDS (2 days)	
1489174	SW2 WATER	09/04/19	GV, PB 1L	Kone (Sulphide) (5 days), pH/Cond/TDS (2 days)	

Key: G-Glass P-Plastic B-Bottle V-Vial

DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
 Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months



Amended Report

Report No.:	20-26031-2		
Initial Date of Issue:	02-Oct-2020	Date of Re-Issue:	13-Oct-2020
Client	Lithos Consulting		
Client Address:	Walton Road Wetherby LS22 5DZ		
Contact(s):	Kelvin Eady Alex Petts George Morton		
Project	3043 Westgate, Cleckheaton		
Quotation No.:		Date Received:	28-Sep-2020
Order No.:	PO16514/3043/ACP	Date Instructed:	28-Sep-2020
No. of Samples:	38		
Turnaround (Wkdays):	12	Results Due:	13-Oct-2020
Date Approved:	13-Oct-2020		

Approved By:

REDACTED

Details: Glynn Harvey, Technical Manager

Bulk Identification Certificate

Client: Lithos Consulting
Site Address:
Date Sampled: 16-Sep-2020
Date Received: 28-Sep-2020

Your Ref.:
Project: 3043 Westgate, Cleckheaton
Job Number: 20-26031
No Samples:
Date Reported: 02-Oct-2020

Sample No.	Sample ID	Sample Ref.	Description	Top (m)	Bottom (m)	SOP	Accred.	Laboratory	Material	Result
1071261	3		TP512	1		2185	U	LIVERPOOL	Cement	Chrysotile

The in-house procedure SOP2185 is in accordance with the requirements of Appendix 2 of the Analyst Guide (HSG 248).

The results relate only to items tested as supplied by the client.

Comments and interpretations are beyond the scope of UKAS accreditation.

Samples associated with asbestos in building surveys are retained for six months (HSG 264 refers)

Results - Leachate

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:					20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:	Chemtest Sample ID.:					1071258	1071259	1071260	1071277	1071280	1071283	1071286	1071289	1071298
	Client Sample ID.:					2	4	6	3	2	2	1	2	4
	Sample Location:					TP515	TP515	TP505	TP503	TP501	TP502	TP504	TP505	TP508
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					0.4	1.8	2.1	1.5	1.2	2.8	0.6	0.8	1.4
	Date Sampled:					16-Sep-2020	16-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020
Determinand	Accred.	SOP	Type	Units	LOD									
pH	U	1010	10:1		N/A	4.9	4.3		5.3	7.1	5.2	6.9	7.4	7.9
Arsenic (Dissolved)	U	1450	10:1	µg/l	1.0	1.0	< 1.0		1.6	5.4	28	23	25	4.2
Boron (Dissolved)	U	1450	10:1	µg/l	20	29	160		35	110	120	45	57	36
Cadmium (Dissolved)	U	1450	10:1	µg/l	0.080	0.87	0.17		0.45	< 0.080	0.94	< 0.080	< 0.080	< 0.080
Chromium (Dissolved)	U	1450	10:1	µg/l	1.0	< 1.0	1.0		< 1.0	< 1.0	3.8	< 1.0	1.8	1.9
Copper (Dissolved)	U	1450	10:1	µg/l	1.0	58	29		3.5	< 1.0	9.3	1.7	3.1	2.6
Mercury (Dissolved)	U	1450	10:1	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Nickel (Dissolved)	U	1450	10:1	µg/l	1.0	40	12		9.5	14	79	6.5	2.1	< 1.0
Lead (Dissolved)	U	1450	10:1	µg/l	1.0	19	53		4.0	< 1.0	830	8.0	1.8	1.1
Selenium (Dissolved)	U	1450	10:1	µg/l	1.0	< 1.0	< 1.0		1.3	< 1.0	1.8	1.1	1.9	< 1.0
Zinc (Dissolved)	U	1450	10:1	µg/l	1.0	430	140		140	12	210	76	29	3.6
Naphthalene	U	1800	10:1	µg/l	0.10			I/S						
Acenaphthylene	U	1800	10:1	µg/l	0.10			I/S						
Acenaphthene	U	1800	10:1	µg/l	0.10			I/S						
Fluorene	U	1800	10:1	µg/l	0.10			I/S						
Phenanthrene	U	1800	10:1	µg/l	0.10			I/S						
Anthracene	U	1800	10:1	µg/l	0.10			I/S						
Fluoranthene	U	1800	10:1	µg/l	0.10			I/S						
Pyrene	U	1800	10:1	µg/l	0.10			I/S						
Benzo[a]anthracene	U	1800	10:1	µg/l	0.10			I/S						
Chrysene	U	1800	10:1	µg/l	0.10			I/S						
Benzo[b]fluoranthene	U	1800	10:1	µg/l	0.10			I/S						
Benzo[k]fluoranthene	U	1800	10:1	µg/l	0.10			I/S						
Benzo[a]pyrene	U	1800	10:1	µg/l	0.10			I/S						
Indeno(1,2,3-c,d)Pyrene	U	1800	10:1	µg/l	0.10			I/S						
Dibenz(a,h)Anthracene	U	1800	10:1	µg/l	0.10			I/S						
Benzo[g,h,i]perylene	U	1800	10:1	µg/l	0.10			I/S						
Coronene	N	1800	10:1	µg/l	0.10			I/S						
Total Of 16 PAH's	U	1800	10:1	µg/l	2.0			I/S						

Results - Leachate

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:					20-26031	20-26031
Quotation No.:	Chemtest Sample ID.:					1071303	1071317
	Client Sample ID.:					2	1
	Sample Location:					TP510	TP512
	Sample Type:					SOIL	SOIL
	Top Depth (m):					0.9	0.2
	Date Sampled:					15-Sep-2020	16-Sep-2020
Determinand	Accred.	SOP	Type	Units	LOD		
pH	U	1010	10:1		N/A	7.5	7.8
Arsenic (Dissolved)	U	1450	10:1	µg/l	1.0	5.7	3.2
Boron (Dissolved)	U	1450	10:1	µg/l	20	34	63
Cadmium (Dissolved)	U	1450	10:1	µg/l	0.080	< 0.080	< 0.080
Chromium (Dissolved)	U	1450	10:1	µg/l	1.0	< 1.0	8.2
Copper (Dissolved)	U	1450	10:1	µg/l	1.0	2.1	8.4
Mercury (Dissolved)	U	1450	10:1	µg/l	0.50	< 0.50	< 0.50
Nickel (Dissolved)	U	1450	10:1	µg/l	1.0	3.1	1.8
Lead (Dissolved)	U	1450	10:1	µg/l	1.0	< 1.0	9.1
Selenium (Dissolved)	U	1450	10:1	µg/l	1.0	1.4	< 1.0
Zinc (Dissolved)	U	1450	10:1	µg/l	1.0	35	18
Naphthalene	U	1800	10:1	µg/l	0.10		
Acenaphthylene	U	1800	10:1	µg/l	0.10		
Acenaphthene	U	1800	10:1	µg/l	0.10		
Fluorene	U	1800	10:1	µg/l	0.10		
Phenanthrene	U	1800	10:1	µg/l	0.10		
Anthracene	U	1800	10:1	µg/l	0.10		
Fluoranthene	U	1800	10:1	µg/l	0.10		
Pyrene	U	1800	10:1	µg/l	0.10		
Benzo[a]anthracene	U	1800	10:1	µg/l	0.10		
Chrysene	U	1800	10:1	µg/l	0.10		
Benzo[b]fluoranthene	U	1800	10:1	µg/l	0.10		
Benzo[k]fluoranthene	U	1800	10:1	µg/l	0.10		
Benzo[a]pyrene	U	1800	10:1	µg/l	0.10		
Indeno(1,2,3-c,d)Pyrene	U	1800	10:1	µg/l	0.10		
Dibenz(a,h)Anthracene	U	1800	10:1	µg/l	0.10		
Benzo[g,h,i]perylene	U	1800	10:1	µg/l	0.10		
Coronene	N	1800	10:1	µg/l	0.10		
Total Of 16 PAH's	U	1800	10:1	µg/l	2.0		

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:	Chemtest Sample ID.:				1071258	1071259	1071260	1071262	1071264	1071265	1071266	1071267	1071268
	Client Sample ID.:				2	4	6	3	6	3	4	1	5
	Sample Location:				TP515	TP515	TP505	TP501	TP508	TP513	TP513	TP514	TP514
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.4	1.8	2.1	1.8	2.3	2.9	4	0.3	2.8
	Date Sampled:				16-Sep-2020	16-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020
	Asbestos Lab:				LIVERPOOL	LIVERPOOL							
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A	-	-							
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected							
ACM Detection Stage	U	2192		N/A	-	-							
Moisture	N	2030	%	0.020	25	15	< 0.020	17	18	27	21	16	25
Soil Colour	N	2040		N/A	Brown	Brown	Black	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	None	Stones	Stones	Stones	Stones and Roots	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Tarmac	Clay	Sand	Clay	Clay	Sand	Clay
Chromatogram (TPH)	N			N/A									
pH	M	2010		4.0	6.0	4.4		5.0	< 4.0		< 4.0	7.6	9.1
Magnesium (Water Soluble)	N	2120	g/l	0.010	0.031	0.014		0.010	< 0.010		0.021	< 0.010	< 0.010
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	1.1	0.013		0.63	0.41		1.2	1.6	3.2
Total Sulphur	M	2175	%	0.010									
Chloride (Water Soluble)	M	2220	g/l	0.010	0.20	0.20		0.037	0.034		0.057	0.038	0.78
Nitrate (Water Soluble)	N	2220	g/l	0.010	< 0.010	< 0.010		< 0.010	< 0.010		< 0.010	< 0.010	< 0.010
Vanadium	U	2450	mg/kg	5.0	27	48		21	24		19	40	14
Total Organic Carbon	M	2625	%	0.20	12		0.64	0.68	0.47	2.0	0.26	4.4	1.6
Diesel Present	N	2670		N/A									
TPH >C6-C8	N	2670	mg/kg	1.0	< 1.0		850	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0
TPH >C8-C10	N	2670	mg/kg	1.0	< 1.0		5500	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0
TPH >C10-C12	N	2670	mg/kg	1.0	< 1.0		29000	< 1.0	< 1.0		< 1.0	< 1.0	8.0
TPH >C12-C16	N	2670	mg/kg	1.0	14		32000	4.2	18		2.5	6.9	26
TPH >C16-C21	N	2670	mg/kg	1.0	41		110000	41	25		44	70	200
TPH >C21-C35	N	2670	mg/kg	1.0	66		150000	410	84		72	120	290
Total TPH >C6-C35	U	2670	mg/kg	10.0	120		330000	460	130		120	190	530
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0									
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0									
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0									
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0									
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0									
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0									
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0									
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0									
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0									
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0									
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0									
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0									

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:	Chemtest Sample ID.:				1071258	1071259	1071260	1071262	1071264	1071265	1071266	1071267
	Client Sample ID.:				2	4	6	3	6	3	4	1
	Sample Location:				TP515	TP515	TP505	TP501	TP508	TP513	TP513	TP514
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.4	1.8	2.1	1.8	2.3	2.9	4	0.3
	Date Sampled:				16-Sep-2020	16-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020
	Asbestos Lab:				LIVERPOOL	LIVERPOOL						
Determinand	Accred.	SOP	Units	LOD								
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0								
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0								
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0								
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0								
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0								
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0								
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0								
Dichlorodifluoromethane	U	2760	µg/kg	1.0						< 1.0		
Chloromethane	M	2760	µg/kg	1.0						< 1.0		
Vinyl Chloride	M	2760	µg/kg	1.0						< 1.0		
Bromomethane	M	2760	µg/kg	20						< 20		
Chloroethane	U	2760	µg/kg	2.0						< 2.0		
Trichlorofluoromethane	M	2760	µg/kg	1.0						< 1.0		
1,1-Dichloroethene	M	2760	mg/kg	1.0						< 1.0		
Trans 1,2-Dichloroethene	M	2760	mg/kg	1.0						< 1.0		
1,1-Dichloroethane	M	2760	µg/kg	1.0						< 1.0		
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0						< 1.0		
Bromochloromethane	U	2760	µg/kg	5.0						< 5.0		
Trichloromethane	M	2760	µg/kg	1.0						< 1.0		
1,1,1-Trichloroethane	M	2760	µg/kg	1.0						< 1.0		
Tetrachloromethane	M	2760	µg/kg	1.0						< 1.0		
1,1-Dichloropropene	U	2760	µg/kg	1.0						< 1.0		
Benzene	M	2760	µg/kg	1.0						< 1.0		
1,2-Dichloroethane	M	2760	µg/kg	2.0						< 2.0		
Trichloroethene	N	2760	µg/kg	1.0						< 1.0		
1,2-Dichloropropane	M	2760	µg/kg	1.0						< 1.0		
Dibromomethane	M	2760	µg/kg	1.0						< 1.0		
Bromodichloromethane	M	2760	µg/kg	5.0						< 5.0		
cis-1,3-Dichloropropene	N	2760	µg/kg	10						< 10		
Toluene	M	2760	µg/kg	1.0						< 1.0		
Trans-1,3-Dichloropropene	N	2760	µg/kg	10						< 10		
1,1,2-Trichloroethane	M	2760	µg/kg	10						< 10		
Tetrachloroethene	M	2760	µg/kg	1.0						< 1.0		
1,3-Dichloropropane	U	2760	µg/kg	2.0						< 2.0		
Dibromochloromethane	U	2760	µg/kg	10						< 10		
1,2-Dibromoethane	M	2760	µg/kg	5.0						< 5.0		
Chlorobenzene	M	2760	µg/kg	1.0						< 1.0		
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0						< 2.0		

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:	Chemtest Sample ID.:				1071258	1071259	1071260	1071262	1071264	1071265	1071266	1071267
	Client Sample ID.:				2	4	6	3	6	3	4	1
	Sample Location:				TP515	TP515	TP505	TP501	TP508	TP513	TP513	TP514
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.4	1.8	2.1	1.8	2.3	2.9	4	0.3
	Date Sampled:				16-Sep-2020	16-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020
	Asbestos Lab:				LIVERPOOL	LIVERPOOL						
Determinand	Accred.	SOP	Units	LOD								
Ethy benzene	M	2760	µg/kg	1.0						< 1.0		
m & p-Xylene	M	2760	µg/kg	1.0						< 1.0		
o-Xylene	M	2760	µg/kg	1.0						< 1.0		
Styrene	M	2760	µg/kg	1.0						< 1.0		
Tribromomethane	U	2760	µg/kg	1.0						< 1.0		
Isopropylbenzene	M	2760	µg/kg	1.0						< 1.0		
Bromobenzene	M	2760	µg/kg	1.0						< 1.0		
1,2,3-Trichloropropane	N	2760	µg/kg	50						< 50		
N-Propylbenzene	U	2760	µg/kg	1.0						< 1.0		
2-Chlorotoluene	M	2760	µg/kg	1.0						< 1.0		
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0						13		
4-Chlorotoluene	U	2760	µg/kg	1.0						< 1.0		
Tert-Butylbenzene	U	2760	µg/kg	1.0						2.1		
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0						34		
Sec-Butylbenzene	U	2760	µg/kg	1.0						< 1.0		
1,3-Dichlorobenzene	M	2760	µg/kg	1.0						< 1.0		
4-Isopropyltoluene	U	2760	µg/kg	1.0						< 1.0		
1,4-Dichlorobenzene	M	2760	µg/kg	1.0						< 1.0		
N-Butylbenzene	U	2760	µg/kg	1.0						< 1.0		
1,2-Dichlorobenzene	M	2760	µg/kg	1.0						< 1.0		
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50						< 50		
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0						< 1.0		
Hexachlorobutadiene	U	2760	µg/kg	1.0						< 1.0		
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0						< 2.0		
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0						< 1.0		
N-Nitrosodimethylamine	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenol	M	2790	mg/kg	0.50	< 0.50		74	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorophenol	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylphenol	M	2790	mg/kg	0.50	< 0.50		81	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachloroethane	N	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methylphenol	M	2790	mg/kg	0.50	< 0.50		90	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Nitrobenzene	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:	Chemtest Sample ID.:				1071258	1071259	1071260	1071262	1071264	1071265	1071266	1071267	1071268
	Client Sample ID.:				2	4	6	3	6	3	4	1	5
	Sample Location:				TP515	TP515	TP505	TP501	TP508	TP513	TP513	TP514	TP514
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.4	1.8	2.1	1.8	2.3	2.9	4	0.3	2.8
	Date Sampled:				16-Sep-2020	16-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020
	Asbestos Lab:				LIVERPOOL	LIVERPOOL							
Determinand	Accred.	SOP	Units	LOD									
Isophorone	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitrophenol	N	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dimethylphenol	N	2790	mg/kg	0.50	< 0.50		73	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dichlorophenol	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene	M	2790	mg/kg	0.50	< 0.50		1700	< 0.50	< 0.50	< 0.50	< 0.50	1.1	0.77
4-Chloroaniline	N	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylnaphthalene	M	2790	mg/kg	0.50	< 0.50		470	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitrophenol	N	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chloronaphthalene	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitroaniline	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthylene	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dimethylphthalate	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,6-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthene	M	2790	mg/kg	0.50	< 0.50		320	< 0.50	< 0.50	< 0.50	< 0.50	0.95	< 0.50
3-Nitroaniline	N	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenzofuran	M	2790	mg/kg	0.50	< 0.50		250	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorophenylphenylether	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluorene	M	2790	mg/kg	0.50	< 0.50		280	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl Phthalate	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitroaniline	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Azobenzene	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobenzene	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Pentachlorophenol	N	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenanthrene	M	2790	mg/kg	0.50	7.6		1700	< 0.50	< 0.50	1.6	< 0.50	11	5.3
Anthracene	M	2790	mg/kg	0.50	1.6		490	< 0.50	< 0.50	< 0.50	< 0.50	2.6	< 0.50
Carbazole	M	2790	mg/kg	0.50	< 0.50		270	< 0.50	< 0.50	< 0.50	< 0.50	0.89	< 0.50
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluoranthene	M	2790	mg/kg	0.50	13		1300	< 0.50	< 0.50	1.7	< 0.50	16	6.0

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:	Chemtest Sample ID.:				1071258	1071259	1071260	1071262	1071264	1071265	1071266	1071267	1071268
	Client Sample ID.:				2	4	6	3	6	3	4	1	5
	Sample Location:				TP515	TP515	TP505	TP501	TP508	TP513	TP513	TP514	TP514
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.4	1.8	2.1	1.8	2.3	2.9	4	0.3	2.8
	Date Sampled:				16-Sep-2020	16-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020
	Asbestos Lab:				LIVERPOOL	LIVERPOOL							
Determinand	Accred.	SOP	Units	LOD									
Pyrene	M	2790	mg/kg	0.50	10		1000	< 0.50	< 0.50	1.2	< 0.50	13	3.2
Buty benzyl Phthalate	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]anthracene	M	2790	mg/kg	0.50	6.0		550	< 0.50	< 0.50	0.72	< 0.50	9.5	2.3
Chrysene	M	2790	mg/kg	0.50	5.5		440	< 0.50	< 0.50	0.69	< 0.50	8.4	2.7
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[b]fluoranthene	M	2790	mg/kg	0.50	6.0		400	< 0.50	< 0.50	< 0.50	< 0.50	10	2.7
Benzo[k]fluoranthene	M	2790	mg/kg	0.50	2.2		160	< 0.50	< 0.50	< 0.50	< 0.50	3.8	0.83
Benzo[a]pyrene	M	2790	mg/kg	0.50	4.3		350	< 0.50	< 0.50	< 0.50	< 0.50	7.8	1.1
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50	2.0		140	< 0.50	< 0.50	< 0.50	< 0.50	4.4	0.75
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50	0.67		44	< 0.50	< 0.50	< 0.50	< 0.50	1.2	< 0.50
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50	2.2		150	< 0.50	< 0.50	< 0.50	< 0.50	5.0	0.71
Arsenic	M	2450	mg/kg	1.0	370	75		7.2	16		21	320	200
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.57	4.4		8.1	3.6		1.7	0.93	3.8
Cadmium	M	2450	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10		< 0.10	0.28	< 0.10
Chromium	M	2450	mg/kg	1.0	55	35		22	29		13	29	7.3
Chromium (Trivalent)	N	2490	mg/kg	1.0	55	35		22	29		13	29	7.3
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50
Copper	M	2450	mg/kg	0.50	74	78		24	52		9.9	140	21
Lead	M	2450	mg/kg	0.50	570	360		24	18		46	980	150
Mercury	M	2450	mg/kg	0.10	0.87	0.36		< 0.10	< 0.10		< 0.10	1.6	0.36
Nickel	M	2450	mg/kg	0.50	25	23		34	6.8		4.6	27	5.7
Selenium	M	2450	mg/kg	0.20	1.1	0.60		0.24	< 0.20		0.32	1.6	3.6
Zinc	M	2450	mg/kg	0.50	60	120		72	21		22	150	19

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:	Chemtest Sample ID.:				1071270	1071273	1071275	1071276	1071277	1071278	1071280	1071281	1071283
	Client Sample ID.:				2	4	6	7	3	12	2	4	2
	Sample Location:				TP517	TP509	TP514	TP514	TP503	BH501	TP501	TP501	TP502
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.5	3	3.3	4.4	1.5	7.6	1.2	3.6	2.8
	Date Sampled:				16-Sep-2020	15-Sep-2020	16-Sep-2020	16-Sep-2020	15-Sep-2020	14-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020
	Asbestos Lab:								LIVERPOOL		LIVERPOOL		LIVERPOOL
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A					-		-		-
Asbestos Identification	U	2192		N/A					No Asbestos Detected		No Asbestos Detected		No Asbestos Detected
ACM Detection Stage	U	2192		N/A					-		-		-
Moisture	N	2030	%	0.020	33	16	21	10	11	24	23	7.5	7.1
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Black	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Clay	Clay	Sand	Sand	Sand	Sand	Sand	Sand
Chromatogram (TPH)	N			N/A							See Attached		
pH	M	2010		4.0	< 4.0				5.1		7.2		< 4.0
Magnesium (Water Soluble)	N	2120	g/l	0.010	0.020				0.022		0.023		0.12
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.56				1.6		1.1		9.3
Total Sulphur	M	2175	%	0.010					2.3				3.3
Chloride (Water Soluble)	M	2220	g/l	0.010	0.034				0.030		0.078		0.076
Nitrate (Water Soluble)	N	2220	g/l	0.010	< 0.010				< 0.010		< 0.010		< 0.010
Vanadium	U	2450	mg/kg	5.0	15				28		15		28
Total Organic Carbon	M	2625	%	0.20	6.0	< 0.20	1.1	0.89	7.7	6.2	7.1	4.3	9.8
Diesel Present	N	2670		N/A							True		
TPH >C6-C8	N	2670	mg/kg	1.0	< 1.0				< 1.0		4.5		< 1.0
TPH >C8-C10	N	2670	mg/kg	1.0	< 1.0				< 1.0		230		< 1.0
TPH >C10-C12	N	2670	mg/kg	1.0	< 1.0				< 1.0		910		< 1.0
TPH >C12-C16	N	2670	mg/kg	1.0	22				< 1.0		3000		7.5
TPH >C16-C21	N	2670	mg/kg	1.0	51				< 1.0		8200		31
TPH >C21-C35	N	2670	mg/kg	1.0	330				< 1.0		27000		54
Total TPH >C6-C35	U	2670	mg/kg	10.0	400				< 10		39000		93
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0			< 1.0	< 1.0			< 1.0		
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0			< 1.0	< 1.0			< 1.0		
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0			< 1.0	< 1.0			67		
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0			< 1.0	< 1.0			98		
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0			< 1.0	< 1.0			340		
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0			< 1.0	< 1.0			1200		
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0			< 1.0	< 1.0			4800		
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0			< 1.0	< 1.0			480		
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0			< 5.0	< 5.0			6900		
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0			< 1.0	< 1.0			< 1.0		
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0			< 1.0	< 1.0			< 1.0		
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0			< 1.0	< 1.0			250		

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:	Chemtest Sample ID.:				1071270	1071273	1071275	1071276	1071277	1071278	1071280	1071281
	Client Sample ID.:				2	4	6	7	3	12	2	4
	Sample Location:				TP517	TP509	TP514	TP514	TP503	BH501	TP501	TP501
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.5	3	3.3	4.4	1.5	7.6	1.2	3.6
	Date Sampled:				16-Sep-2020	15-Sep-2020	16-Sep-2020	16-Sep-2020	15-Sep-2020	14-Sep-2020	15-Sep-2020	15-Sep-2020
	Asbestos Lab:								LIVERPOOL		LIVERPOOL	LIVERPOOL
Determinand	Accred.	SOP	Units	LOD								
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0			< 1.0	< 1.0			160	
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0			< 1.0	< 1.0			520	
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0			< 1.0	< 1.0			1500	
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0			< 1.0	< 1.0			5300	
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0			< 1.0	< 1.0			910	
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0			< 5.0	< 5.0			8700	
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0			< 10	< 10			16000	
Dichlorodifluoromethane	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0
Chloromethane	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0
Vinyl Chloride	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0
Bromomethane	M	2760	µg/kg	20		< 20	< 20	< 20		< 20		< 20
Chloroethane	U	2760	µg/kg	2.0		< 2.0	< 2.0	< 2.0		< 2.0		< 2.0
Trichlorofluoromethane	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0
1,1-Dichloroethene	M	2760	mg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0
Trans 1,2-Dichloroethene	M	2760	mg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0
1,1-Dichloroethane	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0
Bromochloromethane	U	2760	µg/kg	5.0		< 5.0	< 5.0	< 5.0		< 5.0		< 5.0
Trichloromethane	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0
1,1,1-Trichloroethane	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0
Tetrachloromethane	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0
1,1-Dichloropropene	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0
Benzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		3.5		2.1
1,2-Dichloroethane	M	2760	µg/kg	2.0		< 2.0	< 2.0	< 2.0		< 2.0		< 2.0
Trichloroethene	N	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0
1,2-Dichloropropane	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0
Dibromomethane	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0
Bromodichloromethane	M	2760	µg/kg	5.0		< 5.0	< 5.0	< 5.0		< 5.0		< 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10		< 10	< 10	< 10		< 10		< 10
Toluene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		2.7		3.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10		< 10	< 10	< 10		< 10		< 10
1,1,2-Trichloroethane	M	2760	µg/kg	10		< 10	< 10	< 10		< 10		< 10
Tetrachloroethene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0
1,3-Dichloropropane	U	2760	µg/kg	2.0		< 2.0	< 2.0	< 2.0		< 2.0		< 2.0
Dibromochloromethane	U	2760	µg/kg	10		< 10	< 10	< 10		< 10		< 10
1,2-Dibromoethane	M	2760	µg/kg	5.0		< 5.0	< 5.0	< 5.0		< 5.0		< 5.0
Chlorobenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0		< 2.0	< 2.0	< 2.0		< 2.0		< 2.0

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:	Chemtest Sample ID.:				1071270	1071273	1071275	1071276	1071277	1071278	1071280	1071281
	Client Sample ID.:				2	4	6	7	3	12	2	4
	Sample Location:				TP517	TP509	TP514	TP514	TP503	BH501	TP501	TP501
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.5	3	3.3	4.4	1.5	7.6	1.2	3.6
	Date Sampled:				16-Sep-2020	15-Sep-2020	16-Sep-2020	16-Sep-2020	15-Sep-2020	14-Sep-2020	15-Sep-2020	15-Sep-2020
	Asbestos Lab:								LIVERPOOL		LIVERPOOL	LIVERPOOL
Determinand	Accred.	SOP	Units	LOD								
Ethy benzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		4.5		6.0
m & p-Xylene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		10		6.6
o-Xylene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		4.0		2.2
Styrene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		5.1		< 1.0
Tribromomethane	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0
Isopropylbenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		6.8		< 1.0
Bromobenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50		< 50	< 50	< 50		< 50		< 50
N-Propylbenzene	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0
2-Chlorotoluene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		7.0		< 1.0
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		7.2		< 1.0
4-Chlorotoluene	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		3.4		< 1.0
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		15		< 1.0
Sec-Butylbenzene	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		23		< 1.0
1,3-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		8.5		< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		13		< 1.0
1,4-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		7.9		< 1.0
N-Butylbenzene	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		17		< 1.0
1,2-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50		< 50	< 50	< 50		< 50		< 50
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0
Hexachlorobutadiene	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		9.2		< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0		< 2.0	< 2.0	< 2.0		< 2.0		< 2.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0
N-Nitrosodimethylamine	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachloroethane	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Nitrobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:	Chemtest Sample ID.:				1071270	1071273	1071275	1071276	1071277	1071278	1071280	1071281	1071283
	Client Sample ID.:				2	4	6	7	3	12	2	4	2
	Sample Location:				TP517	TP509	TP514	TP514	TP503	BH501	TP501	TP501	TP502
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.5	3	3.3	4.4	1.5	7.6	1.2	3.6	2.8
	Date Sampled:				16-Sep-2020	15-Sep-2020	16-Sep-2020	16-Sep-2020	15-Sep-2020	14-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020
	Asbestos Lab:								LIVERPOOL		LIVERPOOL		LIVERPOOL
Determinand	Accred.	SOP	Units	LOD									
Isophorone	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dimethylphenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene	M	2790	mg/kg	0.50	0.89	< 0.50	< 0.50	< 0.50	3.0	< 0.50	0.85	4.1	< 0.50
4-Chloroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylnaphthalene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.0	< 0.50	2.4	6.5	< 0.50
4-Nitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chloronaphthalene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitroaniline	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthylene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dimethylphthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,6-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	4.4	< 0.50	< 0.50	17	< 0.50
3-Nitroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenzofuran	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.9	< 0.50	< 0.50	12	< 0.50
4-Chlorophenylphenylether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluorene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.4	< 0.50	0.65	20	< 0.50
Diethyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitroaniline	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Azobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Pentachlorophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenanthrene	M	2790	mg/kg	0.50	10	< 0.50	< 0.50	< 0.50	28	2.0	2.7	100	1.3
Anthracene	M	2790	mg/kg	0.50	1.6	< 0.50	< 0.50	< 0.50	7.7	0.67	0.74	30	< 0.50
Carbazole	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.3	< 0.50	< 0.50	13	< 0.50
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluoranthene	M	2790	mg/kg	0.50	13	< 0.50	< 0.50	< 0.50	22	1.4	2.3	75	1.6

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:	Chemtest Sample ID.:				1071270	1071273	1071275	1071276	1071277	1071278	1071280	1071281	1071283
	Client Sample ID.:				2	4	6	7	3	12	2	4	2
	Sample Location:				TP517	TP509	TP514	TP514	TP503	BH501	TP501	TP501	TP502
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.5	3	3.3	4.4	1.5	7.6	1.2	3.6	2.8
	Date Sampled:				16-Sep-2020	15-Sep-2020	16-Sep-2020	16-Sep-2020	15-Sep-2020	14-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020
	Asbestos Lab:								LIVERPOOL		LIVERPOOL		LIVERPOOL
Determinand	Accred.	SOP	Units	LOD									
Pyrene	M	2790	mg/kg	0.50	9.5	< 0.50	< 0.50	< 0.50	17	1.2	2.5	61	1.4
Buty benzyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]anthracene	M	2790	mg/kg	0.50	6.1	< 0.50	< 0.50	< 0.50	7.7	0.72	0.89	42	2.1
Chrysene	M	2790	mg/kg	0.50	7.4	< 0.50	< 0.50	< 0.50	6.8	< 0.50	1.1	34	2.0
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[b]fluoranthene	M	2790	mg/kg	0.50	11	< 0.50	< 0.50	< 0.50	6.2	< 0.50	1.2	29	0.93
Benzo[k]fluoranthene	M	2790	mg/kg	0.50	3.6	< 0.50	< 0.50	< 0.50	2.2	< 0.50	< 0.50	11	< 0.50
Benzo[a]pyrene	M	2790	mg/kg	0.50	3.3	< 0.50	< 0.50	< 0.50	4.9	< 0.50	0.77	23	0.66
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50	4.0	< 0.50	< 0.50	< 0.50	1.9	< 0.50	< 0.50	7.3	< 0.50
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50	1.3	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.5	< 0.50
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50	3.3	< 0.50	< 0.50	< 0.50	2.2	< 0.50	< 0.50	8.6	< 0.50
Arsenic	M	2450	mg/kg	1.0	18				69		23		200
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	1.2				0.79		2.1		2.6
Cadmium	M	2450	mg/kg	0.10	< 0.10				< 0.10		0.81		< 0.10
Chromium	M	2450	mg/kg	1.0	3.8				14		11		9.1
Chromium (Trivalent)	N	2490	mg/kg	1.0	3.8				14		11		8.9
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50				< 0.50		< 0.50		< 0.50
Copper	M	2450	mg/kg	0.50	16				26		26		43
Lead	M	2450	mg/kg	0.50	50				370		130		2800
Mercury	M	2450	mg/kg	0.10	0.81				0.33		0.37		0.37
Nickel	M	2450	mg/kg	0.50	8.7				16		24		14
Selenium	M	2450	mg/kg	0.20	2.9				1.3		0.33		1.2
Zinc	M	2450	mg/kg	0.50	13				39		160		35

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:	Chemtest Sample ID.:				1071286	1071287	1071289	1071291	1071292	1071294	1071296	1071298	1071300
	Client Sample ID.:				1	2	2	4	5	3	2	4	1
	Sample Location:				TP504	TP504	TP505	TP505	TP505	TP506	TP507	TP508	TP509
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.6	1.2	0.8	3.8	4.8	1.5	1	1.4	0.5
	Date Sampled:				15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020
	Asbestos Lab:				COVENTRY		COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY	
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A	-		-		-	-	-	-	
Asbestos Identification	U	2192		N/A	No Asbestos Detected		No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	
ACM Detection Stage	U	2192		N/A	-		-		-	-	-	-	
Moisture	N	2030	%	0.020	9.4	10	8.8	26	9.2	8.4	9.5	9.3	6.5
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	brown	brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	stones	stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	sand	sand
Chromatogram (TPH)	N			N/A									
pH	M	2010		4.0	7.6		7.9		7.1	6.1	8.5	8.1	
Magnesium (Water Soluble)	N	2120	g/l	0.010	0.017		0.015		0.012	0.017	0.015	< 0.010	
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	1.7		1.5		1.6	1.7	1.3	0.90	
Total Sulphur	M	2175	%	0.010									
Chloride (Water Soluble)	M	2220	g/l	0.010	0.016		< 0.010		0.012	0.030	< 0.010	< 0.010	
Nitrate (Water Soluble)	N	2220	g/l	0.010	< 0.010		0.023		0.013	< 0.010	< 0.010	< 0.010	
Vanadium	U	2450	mg/kg	5.0	39		62		67	13	50	49	
Total Organic Carbon	M	2625	%	0.20	5.6	4.3	6.1	7.2				2.4	7.8
Diesel Present	N	2670		N/A									
TPH >C6-C8	N	2670	mg/kg	1.0	< 1.0		< 1.0					< 1.0	
TPH >C8-C10	N	2670	mg/kg	1.0	< 1.0		< 1.0					< 1.0	
TPH >C10-C12	N	2670	mg/kg	1.0	< 1.0		5.2					< 1.0	
TPH >C12-C16	N	2670	mg/kg	1.0	< 1.0		26					< 1.0	
TPH >C16-C21	N	2670	mg/kg	1.0	< 1.0		120					< 1.0	
TPH >C21-C35	N	2670	mg/kg	1.0	< 1.0		320					< 1.0	
Total TPH >C6-C35	U	2670	mg/kg	10.0	< 10		470					< 10	
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0									
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0									
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0									
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0									
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0									
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0									
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0									
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0									
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0									
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0									
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0									
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0									

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:	Chemtest Sample ID.:				1071286	1071287	1071289	1071291	1071292	1071294	1071296	1071300
	Client Sample ID.:				1	2	2	4	5	3	2	4
	Sample Location:				TP504	TP504	TP505	TP505	TP505	TP506	TP507	TP508
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.6	1.2	0.8	3.8	4.8	1.5	1	1.4
	Date Sampled:				15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020
	Asbestos Lab:				COVENTRY		COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD								
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0								
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0								
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0								
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0								
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0								
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0								
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0								
Dichlorodifluoromethane	U	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
Chloromethane	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
Vinyl Chloride	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
Bromomethane	M	2760	µg/kg	20		< 20		< 20				< 20
Chloroethane	U	2760	µg/kg	2.0		< 2.0		< 2.0				< 2.0
Trichlorofluoromethane	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
1,1-Dichloroethene	M	2760	mg/kg	1.0		< 1.0		< 1.0				< 1.0
Trans 1,2-Dichloroethene	M	2760	mg/kg	1.0		< 1.0		< 1.0				< 1.0
1,1-Dichloroethane	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
Bromochloromethane	U	2760	µg/kg	5.0		< 5.0		< 5.0				< 5.0
Trichloromethane	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
1,1,1-Trichloroethane	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
Tetrachloromethane	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
1,1-Dichloropropene	U	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
Benzene	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
1,2-Dichloroethane	M	2760	µg/kg	2.0		< 2.0		< 2.0				< 2.0
Trichloroethene	N	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
1,2-Dichloropropane	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
Dibromomethane	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
Bromodichloromethane	M	2760	µg/kg	5.0		< 5.0		< 5.0				< 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10		< 10		< 10				< 10
Toluene	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10		< 10		< 10				< 10
1,1,2-Trichloroethane	M	2760	µg/kg	10		< 10		< 10				< 10
Tetrachloroethene	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
1,3-Dichloropropane	U	2760	µg/kg	2.0		< 2.0		< 2.0				< 2.0
Dibromochloromethane	U	2760	µg/kg	10		< 10		< 10				< 10
1,2-Dibromoethane	M	2760	µg/kg	5.0		< 5.0		< 5.0				< 5.0
Chlorobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0		< 2.0		< 2.0				< 2.0

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:	Chemtest Sample ID.:				1071286	1071287	1071289	1071291	1071292	1071294	1071296	1071298
	Client Sample ID.:				1	2	2	4	5	3	2	4
	Sample Location:				TP504	TP504	TP505	TP505	TP505	TP506	TP507	TP508
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.6	1.2	0.8	3.8	4.8	1.5	1	1.4
	Date Sampled:				15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020
	Asbestos Lab:				COVENTRY		COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD								
Ethy benzene	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
m & p-Xylene	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
o-Xylene	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
Styrene	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
Tribromomethane	U	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
Isopropylbenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
Bromobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50		< 50		< 50				< 50
N-Propylbenzene	U	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
2-Chlorotoluene	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
4-Chlorotoluene	U	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
Sec-Butylbenzene	U	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
1,3-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
1,4-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
N-Butylbenzene	U	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
1,2-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50		< 50		< 50				< 50
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
Hexachlorobutadiene	U	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0		< 2.0		< 2.0				< 2.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0		< 1.0		< 1.0				< 1.0
N-Nitrosodimethylamine	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50
Phenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50
2-Chlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50
1,3-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50
1,2-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50
2-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50
Hexachloroethane	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50
4-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50
Nitrobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:	Chemtest Sample ID.:				1071286	1071287	1071289	1071291	1071292	1071294	1071296	1071298	1071300
	Client Sample ID.:				1	2	2	4	5	3	2	4	1
	Sample Location:				TP504	TP504	TP505	TP505	TP505	TP506	TP507	TP508	TP509
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.6	1.2	0.8	3.8	4.8	1.5	1	1.4	0.5
	Date Sampled:				15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020
	Asbestos Lab:				COVENTRY		COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY	
Determinand	Accred.	SOP	Units	LOD									
Isophorone	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
2-Nitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
2,4-Dimethylphenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
2,4-Dichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Naphthalene	M	2790	mg/kg	0.50	< 0.50	2.2	4.3	< 0.50				< 0.50	3.8
4-Chloroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Hexachlorobutadiene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
2-Methylnaphthalene	M	2790	mg/kg	0.50	< 0.50	0.97	3.6	< 0.50				< 0.50	0.59
4-Nitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
2-Chloronaphthalene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
2-Nitroaniline	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Acenaphthylene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Dimethylphthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
2,6-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Acenaphthene	M	2790	mg/kg	0.50	< 0.50	2.1	3.8	< 0.50				< 0.50	< 0.50
3-Nitroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Dibenzofuran	M	2790	mg/kg	0.50	< 0.50	1.3	2.1	< 0.50				< 0.50	< 0.50
4-Chlorophenylphenylether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
2,4-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Fluorene	M	2790	mg/kg	0.50	< 0.50	1.6	3.0	< 0.50				< 0.50	< 0.50
Diethyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
4-Nitroaniline	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Azobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Hexachlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Pentachlorophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Phenanthrene	M	2790	mg/kg	0.50	2.3	19	42	< 0.50				3.4	4.7
Anthracene	M	2790	mg/kg	0.50	0.56	4.2	8.7	< 0.50				0.96	1.0
Carbazole	M	2790	mg/kg	0.50	< 0.50	1.8	4.1	< 0.50				< 0.50	< 0.50
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Fluoranthene	M	2790	mg/kg	0.50	4.0	27	61	< 0.50				5.3	7.2

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:	Chemtest Sample ID.:				1071286	1071287	1071289	1071291	1071292	1071294	1071296	1071298	1071300
	Client Sample ID.:				1	2	2	4	5	3	2	4	1
	Sample Location:				TP504	TP504	TP505	TP505	TP505	TP506	TP507	TP508	TP509
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.6	1.2	0.8	3.8	4.8	1.5	1	1.4	0.5
	Date Sampled:				15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020
	Asbestos Lab:				COVENTRY		COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY	
Determinand	Accred.	SOP	Units	LOD									
Pyrene	M	2790	mg/kg	0.50	3.5	22	51	< 0.50				4.4	6.2
Buty benzyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Benzo[a]anthracene	M	2790	mg/kg	0.50	2.2	13	29	< 0.50				2.6	4.0
Chrysene	M	2790	mg/kg	0.50	1.9	11	27	< 0.50				2.2	3.5
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Benzo[b]fluoranthene	M	2790	mg/kg	0.50	2.5	13	31	< 0.50				2.5	3.9
Benzo[k]fluoranthene	M	2790	mg/kg	0.50	0.78	4.5	11	< 0.50				0.94	1.5
Benzo[a]pyrene	M	2790	mg/kg	0.50	1.8	10	23	< 0.50				2.1	3.1
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50	0.92	4.7	12	< 0.50				0.99	1.4
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50	< 0.50	1.5	4.1	< 0.50				< 0.50	< 0.50
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50	1.1	5.6	14	< 0.50				1.2	1.5
Arsenic	M	2450	mg/kg	1.0	410		230		140	30	180	63	
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.78		1.2		0.53	1.6	0.72	0.79	
Cadmium	M	2450	mg/kg	0.10	0.10		0.19		< 0.10	< 0.10	< 0.10	0.26	
Chromium	M	2450	mg/kg	1.0	29		84		22	8.0	67	53	
Chromium (Trivalent)	N	2490	mg/kg	1.0	29		84		21	8.0	67	53	
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50		< 0.50		1.4	< 0.50	< 0.50	< 0.50	
Copper	M	2450	mg/kg	0.50	87		160		100	20	370	100	
Lead	M	2450	mg/kg	0.50	560		890		770	270	1400	550	
Mercury	M	2450	mg/kg	0.10	1.1		1.6		0.51	0.14	1.3	0.49	
Nickel	M	2450	mg/kg	0.50	32		39		24	6.1	33	32	
Selenium	M	2450	mg/kg	0.20	1.1		0.99		1.1	0.51	0.81	0.58	
Zinc	M	2450	mg/kg	0.50	120		120		39	16	290	130	

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:	Chemtest Sample ID.:				1071303	1071305	1071306	1071308	1071309	1071312	1071316	1071317	1071318
	Client Sample ID.:				2	2	4	2	3	2	4	1	1
	Sample Location:				TP510	TP512	TP512	TP514	TP514	TP516	TP518	TP512	TP517
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.9	0.9	2.3	0.7	0.9	0.8	2	0.2	0.2
	Date Sampled:				15-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A	-	-	-		-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
ACM Detection Stage	U	2192		N/A	-	-	-		-	-	-	-	-
Moisture	N	2030	%	0.020	6.8	15	8.5	10	32	14	22	13	9.5
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Roots and Stones	Stones	Stones	Stones	Stones	Stones	Stones and Roots	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Chromatogram (TPH)	N			N/A			See Attached						
pH	M	2010		4.0	7.9	8.4	7.8		7.7	8.2	7.9	8.3	8.4
Magnesium (Water Soluble)	N	2120	g/l	0.010	0.013	< 0.010	0.019		< 0.010	< 0.010	0.017	< 0.010	< 0.010
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	1.4	0.18	1.5		0.32	0.23	0.72	0.057	0.076
Total Sulphur	M	2175	%	0.010									
Chloride (Water Soluble)	M	2220	g/l	0.010	< 0.010	< 0.010	0.014		0.039	< 0.010	0.056	< 0.010	< 0.010
Nitrate (Water Soluble)	N	2220	g/l	0.010	< 0.010	< 0.010	< 0.010		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Vanadium	U	2450	mg/kg	5.0	47	53	26		28	54	37	49	58
Total Organic Carbon	M	2625	%	0.20	5.0	18	36	0.73	11	23	7.9	8.7	
Diesel Present	N	2670		N/A			False						
TPH >C6-C8	N	2670	mg/kg	1.0	< 1.0		< 1.0			< 1.0	< 1.0	< 1.0	
TPH >C8-C10	N	2670	mg/kg	1.0	< 1.0		4.7			< 1.0	< 1.0	< 1.0	
TPH >C10-C12	N	2670	mg/kg	1.0	< 1.0		32			< 1.0	< 1.0	< 1.0	
TPH >C12-C16	N	2670	mg/kg	1.0	< 1.0		130			< 1.0	< 1.0	< 1.0	
TPH >C16-C21	N	2670	mg/kg	1.0	< 1.0		910			< 1.0	< 1.0	< 1.0	
TPH >C21-C35	N	2670	mg/kg	1.0	< 1.0		2200			< 1.0	< 1.0	< 1.0	
Total TPH >C6-C35	U	2670	mg/kg	10.0	< 10		3300			< 10	< 10	< 10	
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0			< 1.0						
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0			< 1.0						
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0			59						
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0			23						
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0			25						
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0			57						
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0			400						
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0			120						
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0			690						
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0			< 1.0						
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0			< 1.0						
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0			180						

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:	Chemtest Sample ID.:				1071303	1071305	1071306	1071308	1071309	1071312	1071316	1071318
	Client Sample ID.:				2	2	4	2	3	2	4	1
	Sample Location:				TP510	TP512	TP512	TP514	TP514	TP516	TP518	TP517
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.9	0.9	2.3	0.7	0.9	0.8	2	0.2
	Date Sampled:				15-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD								
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0			130					
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0			390					
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0			2300					
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0			9400					
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0			820					
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0			13000					
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0			14000					
Dichlorodifluoromethane	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
Chloromethane	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
Vinyl Chloride	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
Bromomethane	M	2760	µg/kg	20		< 20		< 20	< 20			
Chloroethane	U	2760	µg/kg	2.0		< 2.0		< 2.0	< 2.0			
Trichlorofluoromethane	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
1,1-Dichloroethene	M	2760	mg/kg	1.0		< 1.0		< 1.0	< 1.0			
Trans 1,2-Dichloroethene	M	2760	mg/kg	1.0		< 1.0		< 1.0	< 1.0			
1,1-Dichloroethane	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
Bromochloromethane	U	2760	µg/kg	5.0		< 5.0		< 5.0	< 5.0			
Trichloromethane	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
1,1,1-Trichloroethane	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
Tetrachloromethane	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
1,1-Dichloropropene	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
Benzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
1,2-Dichloroethane	M	2760	µg/kg	2.0		< 2.0		< 2.0	< 2.0			
Trichloroethene	N	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
1,2-Dichloropropane	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
Dibromomethane	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
Bromodichloromethane	M	2760	µg/kg	5.0		< 5.0		< 5.0	< 5.0			
cis-1,3-Dichloropropene	N	2760	µg/kg	10		< 10		< 10	< 10			
Toluene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
Trans-1,3-Dichloropropene	N	2760	µg/kg	10		< 10		< 10	< 10			
1,1,2-Trichloroethane	M	2760	µg/kg	10		< 10		< 10	< 10			
Tetrachloroethene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
1,3-Dichloropropane	U	2760	µg/kg	2.0		< 2.0		< 2.0	< 2.0			
Dibromochloromethane	U	2760	µg/kg	10		< 10		< 10	< 10			
1,2-Dibromoethane	M	2760	µg/kg	5.0		< 5.0		< 5.0	< 5.0			
Chlorobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0		< 2.0		< 2.0	< 2.0			

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:	Chemtest Sample ID.:				1071303	1071305	1071306	1071308	1071309	1071312	1071316	1071318
	Client Sample ID.:				2	2	4	2	3	2	4	1
	Sample Location:				TP510	TP512	TP512	TP514	TP514	TP516	TP518	TP517
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.9	0.9	2.3	0.7	0.9	0.8	2	0.2
	Date Sampled:				15-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD								
Ethy benzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
m & p-Xylene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
o-Xylene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
Styrene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
Tribromomethane	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
Isopropylbenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
Bromobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
1,2,3-Trichloropropane	N	2760	µg/kg	50		< 50		< 50	< 50			
N-Propylbenzene	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
2-Chlorotoluene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
4-Chlorotoluene	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
Tert-Butylbenzene	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
Sec-Butylbenzene	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
1,3-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
4-Isopropyltoluene	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
1,4-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
N-Butylbenzene	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
1,2-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50		< 50		< 50	< 50			
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
Hexachlorobutadiene	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0		< 2.0		< 2.0	< 2.0			
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0			
N-Nitrosodimethylamine	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachloroethane	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Nitrobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:	Chemtest Sample ID.:				1071303	1071305	1071306	1071308	1071309	1071312	1071316	1071317	1071318
	Client Sample ID.:				2	2	4	2	3	2	4	1	1
	Sample Location:				TP510	TP512	TP512	TP514	TP514	TP516	TP518	TP512	TP517
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.9	0.9	2.3	0.7	0.9	0.8	2	0.2	0.2
	Date Sampled:				15-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD									
Isophorone	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2-Nitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2,4-Dimethylphenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2,4-Dichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Naphthalene	M	2790	mg/kg	0.50	< 0.50	1.1	15	< 0.50	< 0.50	< 0.50	2.3	< 0.50	
4-Chloroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Hexachlorobutadiene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2-Methylnaphthalene	M	2790	mg/kg	0.50	< 0.50	0.93	7.3	< 0.50	< 0.50	< 0.50	0.86	< 0.50	
4-Nitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2-Chloronaphthalene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2-Nitroaniline	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Acenaphthylene	M	2790	mg/kg	0.50	< 0.50	< 0.50	1.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Dimethylphthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2,6-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Acenaphthene	M	2790	mg/kg	0.50	< 0.50	4.9	19	< 0.50	< 0.50	< 0.50	1.2	< 0.50	
3-Nitroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Dibenzofuran	M	2790	mg/kg	0.50	< 0.50	1.5	11	< 0.50	< 0.50	< 0.50	0.80	< 0.50	
4-Chlorophenylphenylether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2,4-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Fluorene	M	2790	mg/kg	0.50	< 0.50	2.8	15	< 0.50	< 0.50	< 0.50	1.2	< 0.50	
Diethyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
4-Nitroaniline	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Azobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Hexachlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Pentachlorophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Phenanthrene	M	2790	mg/kg	0.50	4.6	33	170	0.61	1.4	< 0.50	5.4	2.4	
Anthracene	M	2790	mg/kg	0.50	1.2	9.8	39	< 0.50	< 0.50	< 0.50	1.4	< 0.50	
Carbazole	M	2790	mg/kg	0.50	< 0.50	2.5	13	< 0.50	< 0.50	< 0.50	0.68	< 0.50	
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Fluoranthene	M	2790	mg/kg	0.50	8.7	48	210	1.3	5.3	< 0.50	9.3	5.0	

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:	Chemtest Sample ID.:				1071303	1071305	1071306	1071308	1071309	1071312	1071316	1071317	1071318
	Client Sample ID.:				2	2	4	2	3	2	4	1	1
	Sample Location:				TP510	TP512	TP512	TP514	TP514	TP516	TP518	TP512	TP517
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.9	0.9	2.3	0.7	0.9	0.8	2	0.2	0.2
	Date Sampled:				15-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD									
Pyrene	M	2790	mg/kg	0.50	7.7	39	160	1.1	4.8	< 0.50	7.9	4.4	
Buty benzyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Benzo[a]anthracene	M	2790	mg/kg	0.50	4.9	20	93	0.76	4.6	< 0.50	4.8	3.0	
Chrysene	M	2790	mg/kg	0.50	4.1	16	78	0.67	4.2	< 0.50	3.9	2.8	
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Benzo[b]fluoranthene	M	2790	mg/kg	0.50	5.3	18	89	0.82	5.6	< 0.50	4.3	3.4	
Benzo[k]fluoranthene	M	2790	mg/kg	0.50	1.9	6.2	35	< 0.50	2.1	< 0.50	1.6	1.4	
Benzo[a]pyrene	M	2790	mg/kg	0.50	4.1	15	67	0.59	3.7	< 0.50	3.8	2.7	
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50	2.1	6.4	36	< 0.50	2.1	< 0.50	1.5	1.5	
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50	0.56	1.9	10	< 0.50	0.79	< 0.50	< 0.50	< 0.50	
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50	2.3	6.9	39	< 0.50	2.3	< 0.50	1.8	1.6	
Arsenic	M	2450	mg/kg	1.0	230	61	56		18	35	40	83	35
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.61	1.8	0.98		0.66	0.71	0.66	1.6	0.86
Cadmium	M	2450	mg/kg	0.10	< 0.10	0.45	0.11		< 0.10	1.1	< 0.10	1.2	0.91
Chromium	M	2450	mg/kg	1.0	45	150	37		15	45	16	97	54
Chromium (Trivalent)	N	2490	mg/kg	1.0	45	150	37		15	45	16	97	54
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Copper	M	2450	mg/kg	0.50	130	160	49		60	210	65	240	310
Lead	M	2450	mg/kg	0.50	1100	630	220		290	240	180	720	700
Mercury	M	2450	mg/kg	0.10	1.2	0.44	0.36		0.14	0.29	1.2	0.90	1.0
Nickel	M	2450	mg/kg	0.50	43	69	21		24	69	25	64	66
Selenium	M	2450	mg/kg	0.20	1.1	0.66	0.85		< 0.20	0.29	< 0.20	1.0	0.51
Zinc	M	2450	mg/kg	0.50	180	200	61		50	140	51	870	700

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:		20-26031		
Quotation No.:	Chemtest Sample ID.:		1071319		
	Client Sample ID.:		5		
	Sample Location:		TP518		
	Sample Type:		SOIL		
	Top Depth (m):		2.7		
	Date Sampled:		16-Sep-2020		
	Asbestos Lab:				
Determinand	Accred.	SOP	Units	LOD	
ACM Type	U	2192		N/A	
Asbestos Identification	U	2192		N/A	
ACM Detection Stage	U	2192		N/A	
Moisture	N	2030	%	0.020	12
Soil Colour	N	2040		N/A	Brown
Other Material	N	2040		N/A	Stones
Soil Texture	N	2040		N/A	Sand
Chromatogram (TPH)	N			N/A	
pH	M	2010		4.0	
Magnesium (Water Soluble)	N	2120	g/l	0.010	
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	
Total Sulphur	M	2175	%	0.010	
Chloride (Water Soluble)	M	2220	g/l	0.010	
Nitrate (Water Soluble)	N	2220	g/l	0.010	
Vanadium	U	2450	mg/kg	5.0	
Total Organic Carbon	M	2625	%	0.20	0.49
Diesel Present	N	2670		N/A	
TPH >C6-C8	N	2670	mg/kg	1.0	< 1.0
TPH >C8-C10	N	2670	mg/kg	1.0	< 1.0
TPH >C10-C12	N	2670	mg/kg	1.0	< 1.0
TPH >C12-C16	N	2670	mg/kg	1.0	< 1.0
TPH >C16-C21	N	2670	mg/kg	1.0	< 1.0
TPH >C21-C35	N	2670	mg/kg	1.0	< 1.0
Total TPH >C6-C35	U	2670	mg/kg	10.0	< 10
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:		20-26031		
Quotation No.:	Chemtest Sample ID.:		1071319		
	Client Sample ID.:		5		
	Sample Location:		TP518		
	Sample Type:		SOIL		
	Top Depth (m):		2.7		
	Date Sampled:		16-Sep-2020		
	Asbestos Lab:				
Determinand	Accred.	SOP	Units	LOD	
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	
Dichlorodifluoromethane	U	2760	µg/kg	1.0	
Chloromethane	M	2760	µg/kg	1.0	
Vinyl Chloride	M	2760	µg/kg	1.0	
Bromomethane	M	2760	µg/kg	20	
Chloroethane	U	2760	µg/kg	2.0	
Trichlorofluoromethane	M	2760	µg/kg	1.0	
1,1-Dichloroethene	M	2760	mg/kg	1.0	
Trans 1,2-Dichloroethene	M	2760	mg/kg	1.0	
1,1-Dichloroethane	M	2760	µg/kg	1.0	
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0	
Bromochloromethane	U	2760	µg/kg	5.0	
Trichloromethane	M	2760	µg/kg	1.0	
1,1,1-Trichloroethane	M	2760	µg/kg	1.0	
Tetrachloromethane	M	2760	µg/kg	1.0	
1,1-Dichloropropene	U	2760	µg/kg	1.0	
Benzene	M	2760	µg/kg	1.0	
1,2-Dichloroethane	M	2760	µg/kg	2.0	
Trichloroethene	N	2760	µg/kg	1.0	
1,2-Dichloropropane	M	2760	µg/kg	1.0	
Dibromomethane	M	2760	µg/kg	1.0	
Bromodichloromethane	M	2760	µg/kg	5.0	
cis-1,3-Dichloropropene	N	2760	µg/kg	10	
Toluene	M	2760	µg/kg	1.0	
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	
1,1,2-Trichloroethane	M	2760	µg/kg	10	
Tetrachloroethene	M	2760	µg/kg	1.0	
1,3-Dichloropropane	U	2760	µg/kg	2.0	
Dibromochloromethane	U	2760	µg/kg	10	
1,2-Dibromoethane	M	2760	µg/kg	5.0	
Chlorobenzene	M	2760	µg/kg	1.0	
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0	

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:		20-26031		
Quotation No.:	Chemtest Sample ID.:		1071319		
	Client Sample ID.:		5		
	Sample Location:		TP518		
	Sample Type:		SOIL		
	Top Depth (m):		2.7		
	Date Sampled:		16-Sep-2020		
	Asbestos Lab:				
Determinand	Accred.	SOP	Units	LOD	
Ethy benzene	M	2760	µg/kg	1.0	
m & p-Xylene	M	2760	µg/kg	1.0	
o-Xylene	M	2760	µg/kg	1.0	
Styrene	M	2760	µg/kg	1.0	
Tribromomethane	U	2760	µg/kg	1.0	
Isopropylbenzene	M	2760	µg/kg	1.0	
Bromobenzene	M	2760	µg/kg	1.0	
1,2,3-Trichloropropane	N	2760	µg/kg	50	
N-Propylbenzene	U	2760	µg/kg	1.0	
2-Chlorotoluene	M	2760	µg/kg	1.0	
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0	
4-Chlorotoluene	U	2760	µg/kg	1.0	
Tert-Butylbenzene	U	2760	µg/kg	1.0	
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0	
Sec-Butylbenzene	U	2760	µg/kg	1.0	
1,3-Dichlorobenzene	M	2760	µg/kg	1.0	
4-Isopropyltoluene	U	2760	µg/kg	1.0	
1,4-Dichlorobenzene	M	2760	µg/kg	1.0	
N-Butylbenzene	U	2760	µg/kg	1.0	
1,2-Dichlorobenzene	M	2760	µg/kg	1.0	
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0	
Hexachlorobutadiene	U	2760	µg/kg	1.0	
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0	
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	
N-Nitrosodimethylamine	M	2790	mg/kg	0.50	< 0.50
Phenol	M	2790	mg/kg	0.50	< 0.50
2-Chlorophenol	M	2790	mg/kg	0.50	< 0.50
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50	< 0.50
1,3-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.50	< 0.50
1,2-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50
2-Methylphenol	M	2790	mg/kg	0.50	< 0.50
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50	< 0.50
Hexachloroethane	N	2790	mg/kg	0.50	< 0.50
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50	< 0.50
4-Methylphenol	M	2790	mg/kg	0.50	< 0.50
Nitrobenzene	M	2790	mg/kg	0.50	< 0.50

Results - Soil

Project: 3043 Westgate, Cleckheaton

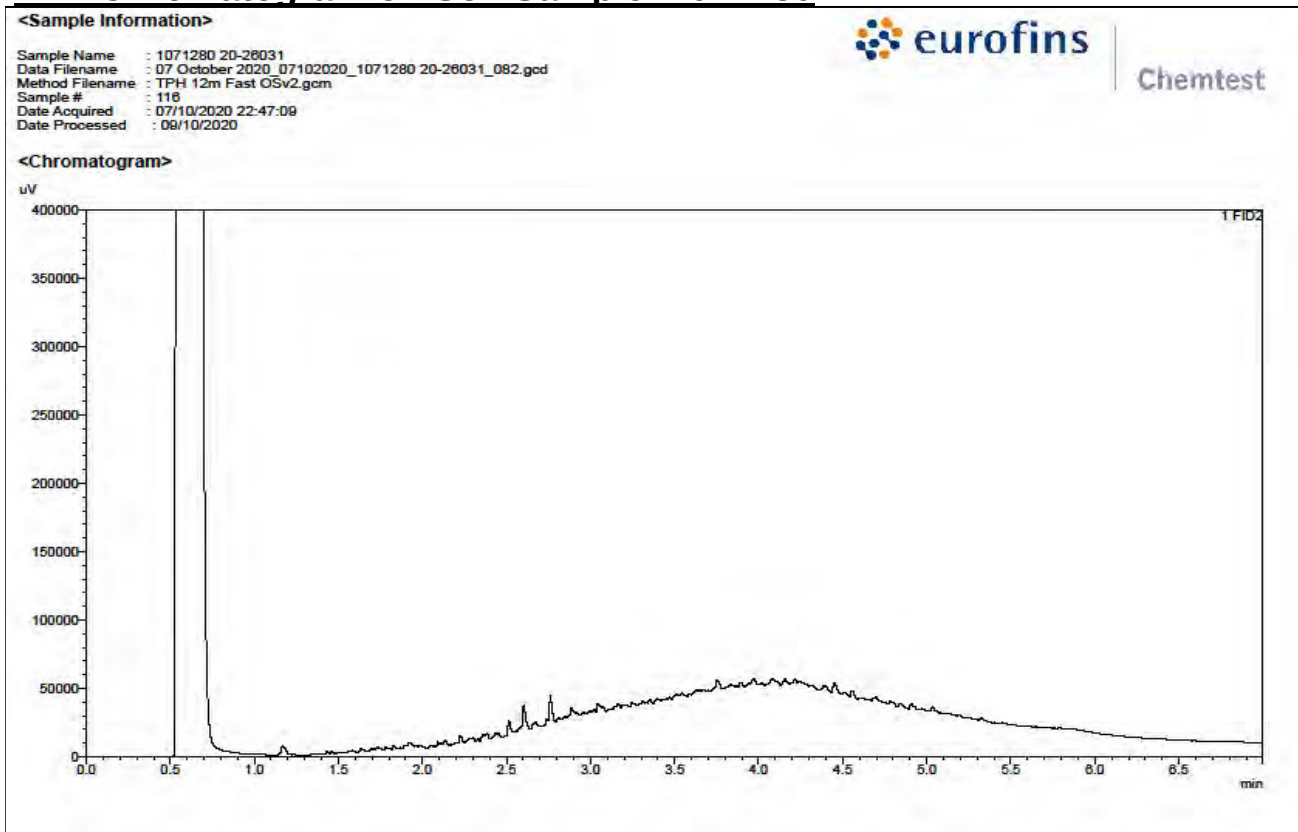
Client: Lithos Consulting	Chemtest Job No.:		20-26031		
Quotation No.:	Chemtest Sample ID.:		1071319		
	Client Sample ID.:		5		
	Sample Location:		TP518		
	Sample Type:		SOIL		
	Top Depth (m):		2.7		
	Date Sampled:		16-Sep-2020		
	Asbestos Lab:				
Determinand	Accred.	SOP	Units	LOD	
Isophorone	M	2790	mg/kg	0.50	< 0.50
2-Nitrophenol	N	2790	mg/kg	0.50	< 0.50
2,4-Dimethylphenol	N	2790	mg/kg	0.50	< 0.50
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50	< 0.50
2,4-Dichlorophenol	M	2790	mg/kg	0.50	< 0.50
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50	< 0.50
Naphthalene	M	2790	mg/kg	0.50	< 0.50
4-Chloroaniline	N	2790	mg/kg	0.50	< 0.50
Hexachlorobutadiene	M	2790	mg/kg	0.50	< 0.50
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50	< 0.50
2-Methylnaphthalene	M	2790	mg/kg	0.50	< 0.50
4-Nitrophenol	N	2790	mg/kg	0.50	< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50	< 0.50
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50
2-Chloronaphthalene	M	2790	mg/kg	0.50	< 0.50
2-Nitroaniline	M	2790	mg/kg	0.50	< 0.50
Acenaphthylene	M	2790	mg/kg	0.50	< 0.50
Dimethylphthalate	M	2790	mg/kg	0.50	< 0.50
2,6-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50
Acenaphthene	M	2790	mg/kg	0.50	< 0.50
3-Nitroaniline	N	2790	mg/kg	0.50	< 0.50
Dibenzofuran	M	2790	mg/kg	0.50	< 0.50
4-Chlorophenylphenylether	M	2790	mg/kg	0.50	< 0.50
2,4-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50
Fluorene	M	2790	mg/kg	0.50	< 0.50
Diethyl Phthalate	M	2790	mg/kg	0.50	< 0.50
4-Nitroaniline	M	2790	mg/kg	0.50	< 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50	< 0.50
Azobenzene	M	2790	mg/kg	0.50	< 0.50
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50	< 0.50
Hexachlorobenzene	M	2790	mg/kg	0.50	< 0.50
Pentachlorophenol	N	2790	mg/kg	0.50	< 0.50
Phenanthrene	M	2790	mg/kg	0.50	< 0.50
Anthracene	M	2790	mg/kg	0.50	< 0.50
Carbazole	M	2790	mg/kg	0.50	< 0.50
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50	< 0.50
Fluoranthene	M	2790	mg/kg	0.50	< 0.50

Results - Soil

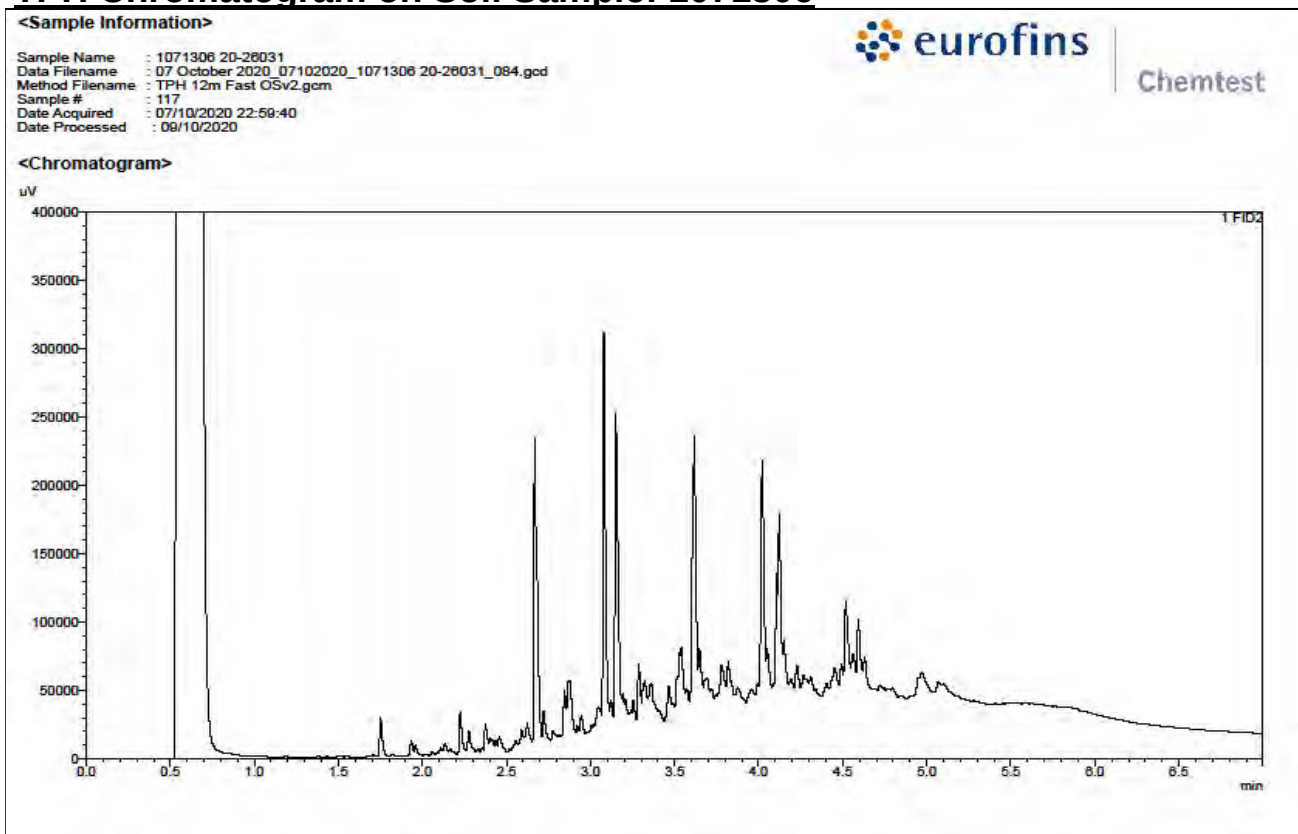
Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:		20-26031		
Quotation No.:	Chemtest Sample ID.:		1071319		
	Client Sample ID.:		5		
	Sample Location:		TP518		
	Sample Type:		SOIL		
	Top Depth (m):		2.7		
	Date Sampled:		16-Sep-2020		
	Asbestos Lab:				
Determinand	Accred.	SOP	Units	LOD	
Pyrene	M	2790	mg/kg	0.50	< 0.50
Buty benzyl Phthalate	M	2790	mg/kg	0.50	< 0.50
Benzo[a]anthracene	M	2790	mg/kg	0.50	< 0.50
Chrysene	M	2790	mg/kg	0.50	< 0.50
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50	< 0.50
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50	< 0.50
Benzo[b]fluoranthene	M	2790	mg/kg	0.50	< 0.50
Benzo[k]fluoranthene	M	2790	mg/kg	0.50	< 0.50
Benzo[a]pyrene	M	2790	mg/kg	0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50	< 0.50
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50	< 0.50
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50	< 0.50
Arsenic	M	2450	mg/kg	1.0	
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	
Cadmium	M	2450	mg/kg	0.10	
Chromium	M	2450	mg/kg	1.0	
Chromium (Trivalent)	N	2490	mg/kg	1.0	
Chromium (Hexavalent)	N	2490	mg/kg	0.50	
Copper	M	2450	mg/kg	0.50	
Lead	M	2450	mg/kg	0.50	
Mercury	M	2450	mg/kg	0.10	
Nickel	M	2450	mg/kg	0.50	
Selenium	M	2450	mg/kg	0.20	
Zinc	M	2450	mg/kg	0.50	

TPH Chromatogram on Soil Sample: 1071280



TPH Chromatogram on Soil Sample: 1071306



TPH Interpretation

Job	Sample	Matrix	Location	Sample Ref	Sample ID	Sample Depth (m)	Gasoline / Diesel Present	TPH Interpretation
20-26031	1071280	S	TP501		2	1.2	Yes	Weathered Diesel
20-26031	1071306	S	TP512		4	2.3	No	PAH

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2185	Asbestos	Asbestos	Polarised light microscopy
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2220	Water soluble Chloride in Soils	Chloride	Aqueous extraction and measurement by 'Aquakem 600' Discrete Analyser using ferric nitrate / mercuric thiocyanate.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

Report Information

Key

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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

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

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

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

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

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

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Amended Report

Report No.:	20-26520-2		
Initial Date of Issue:	12-Oct-2020	Date of Re-Issue:	15-Oct-2020
Client	Lithos Consulting		
Client Address:	Walton Road Wetherby LS22 5DZ		
Contact(s):	George Morton		
Project	3043 Westgate, Cleckheaton		
Quotation No.:		Date Received:	30-Sep-2020
Order No.:	PO16550/glm/3043	Date Instructed:	02-Oct-2020
No. of Samples:	9		
Turnaround (Wkdays):	12	Results Due:	19-Oct-2020
Date Approved:	15-Oct-2020		

REDACTED

Details: Glynn Harvey, Technical Manager

Results - Miscellaneous Solid

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				20-26520	20-26520
Quotation No.:	Chemtest Sample ID.:				1073836	1073838
	Client Sample ID.:				1	1
	Sample Location:				TP519	TP522
	Sample Type:				MISCSOLID	MISCSOLID
	Top Depth (m):				0.05	0.03
	Date Sampled:				27-Sep-2020	27-Sep-2020
Determinand	Accred.	SOP	Units	LOD		
Naphthalene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Fluoranthene	N	2800	mg/kg	0.10	0.48	< 0.10
Pyrene	N	2800	mg/kg	0.10	0.35	< 0.10
Benzo[a]anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Chrysene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[a]pyrene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Coronene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Total Of 17 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0
Moisture	N		%	0.10	< 0.10	< 0.10

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				20-26520	20-26520	20-26520	20-26520	20-26520	20-26520	20-26520
Quotation No.:	Chemtest Sample ID.:				1073824	1073826	1073829	1073830	1073831	1073832	1073834
	Client Sample ID.:				3	2	1	2	2	2	1
	Sample Location:				TP525	TP522	TP525	TP524	TP525	TP520	TP524
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				3.00	0.50	0.70	2.30	2.00	0.40	0.50
	Date Sampled:				27-Sep-2020	27-Sep-2020	27-Sep-2020	27-Sep-2020	27-Sep-2020	27-Sep-2020	27-Sep-2020
	Asbestos Lab:					COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD							
ACM Type	U	2192		N/A		-	-	-	-	-	Cement
Asbestos Identification	U	2192		N/A		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	Chrysotile
ACM Detection Stage	U	2192		N/A		-	-	-	-	-	Screen Visible by Eye
Asbestos by Gravimetry	U	2192	%	0.001							0.62
Total Asbestos	U	2192	%	0.001							0.62
Moisture	N	2030	%	0.020	19	18	22	20	74	17	16
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	None	None	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Clay	Clay	Clay	Sand	Sand
pH	M	2010		4.0		8.8	8.0	10.3	8.8		8.2
Magnesium (Water Soluble)	N	2120	g/l	0.010		< 0.010	< 0.010	< 0.010	0.050	< 0.010	< 0.010
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010		< 0.010	0.069	0.32	6.0	0.078	0.029
Chloride (Water Soluble)	M	2220	g/l	0.010		< 0.010	< 0.010	1.0	0.032	0.014	0.033
Nitrate (Water Soluble)	N	2220	g/l	0.010		< 0.010	0.015	< 0.010	< 0.010	< 0.010	< 0.010
Vanadium	U	2450	mg/kg	5.0		44	42	26	55		78
Total Organic Carbon	M	2625	%	0.20	9.9	4.8	5.8	0.49	7.0	7.3	5.2
TPH >C6-C8	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C8-C10	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C10-C12	N	2670	mg/kg	1.0	< 1.0	< 1.0	2.7	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C12-C16	N	2670	mg/kg	1.0	17	< 1.0	12	< 1.0	40	< 1.0	< 1.0
TPH >C16-C21	N	2670	mg/kg	1.0	110	< 1.0	12	< 1.0	590	< 1.0	< 1.0
TPH >C21-C35	N	2670	mg/kg	1.0	360	< 1.0	22	< 1.0	1300	< 1.0	< 1.0
Total TPH >C6-C35	U	2670	mg/kg	10.0	490	< 10	48	< 10	2000	< 10	< 10
N-Nitrosodimethylamine	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachloroethane	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Nitrobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				20-26520	20-26520	20-26520	20-26520	20-26520	20-26520	20-26520
Quotation No.:	Chemtest Sample ID.:				1073824	1073826	1073829	1073830	1073831	1073832	1073834
	Client Sample ID.:				3	2	1	2	2	2	1
	Sample Location:				TP525	TP522	TP525	TP524	TP525	TP520	TP524
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				3.00	0.50	0.70	2.30	2.00	0.40	0.50
	Date Sampled:				27-Sep-2020	27-Sep-2020	27-Sep-2020	27-Sep-2020	27-Sep-2020	27-Sep-2020	27-Sep-2020
	Asbestos Lab:					COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD							
Isophorone	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dimethylphenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene	M	2790	mg/kg	0.50	< 0.50	< 0.50	1.4	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylnaphthalene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chloronaphthalene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitroaniline	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthylene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dimethylphthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,6-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthene	M	2790	mg/kg	0.50	< 0.50	< 0.50	0.82	< 0.50	< 0.50	< 0.50	< 0.50
3-Nitroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenzofuran	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorophenylphenylether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluorene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitroaniline	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Azobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Pentachlorophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenanthrene	M	2790	mg/kg	0.50	2.7	< 0.50	6.6	< 0.50	4.2	< 0.50	4.1
Anthracene	M	2790	mg/kg	0.50	0.91	< 0.50	2.0	< 0.50	3.1	< 0.50	1.1
Carbazole	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluoranthene	M	2790	mg/kg	0.50	7.3	1.1	14	< 0.50	33	< 0.50	6.2

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting	Chemtest Job No.:				20-26520	20-26520	20-26520	20-26520	20-26520	20-26520	20-26520
Quotation No.:	Chemtest Sample ID.:				1073824	1073826	1073829	1073830	1073831	1073832	1073834
	Client Sample ID.:				3	2	1	2	2	2	1
	Sample Location:				TP525	TP522	TP525	TP524	TP525	TP520	TP524
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				3.00	0.50	0.70	2.30	2.00	0.40	0.50
	Date Sampled:				27-Sep-2020	27-Sep-2020	27-Sep-2020	27-Sep-2020	27-Sep-2020	27-Sep-2020	27-Sep-2020
	Asbestos Lab:					COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD							
Pyrene	M	2790	mg/kg	0.50	6.2	1.0	13	< 0.50	28	< 0.50	5.3
Buty benzyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]anthracene	M	2790	mg/kg	0.50	3.5	0.73	8.5	< 0.50	16	< 0.50	3.1
Chrysene	M	2790	mg/kg	0.50	3.4	0.66	7.0	< 0.50	15	< 0.50	2.8
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[b]fluoranthene	M	2790	mg/kg	0.50	4.2	0.81	9.3	< 0.50	18	< 0.50	3.3
Benzo[k]fluoranthene	M	2790	mg/kg	0.50	1.5	< 0.50	3.7	< 0.50	6.6	< 0.50	1.2
Benzo[a]pyrene	M	2790	mg/kg	0.50	3.0	< 0.50	7.8	< 0.50	14	< 0.50	2.7
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50	1.6	< 0.50	3.7	< 0.50	6.7	< 0.50	1.3
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50	< 0.50	< 0.50	1.2	< 0.50	1.9	< 0.50	< 0.50
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50	2.0	< 0.50	4.5	< 0.50	8.1	< 0.50	1.5
Arsenic	M	2450	mg/kg	1.0		41	67	16	110		170
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40		< 0.40	1.2	< 0.40	2.6		0.43
Cadmium	M	2450	mg/kg	0.10		0.28	0.69	< 0.10	0.47		0.28
Chromium	M	2450	mg/kg	1.0		27	36	32	75		74
Chromium (Trivalent)	N	2490	mg/kg	1.0		27	36	32	75		74
Chromium (Hexavalent)	N	2490	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
Copper	M	2450	mg/kg	0.50		79	110	33	170		210
Lead	M	2450	mg/kg	0.50		160	700	81	8100		290
Mercury	M	2450	mg/kg	0.10		0.38	0.42	0.10	0.88		2.1
Nickel	M	2450	mg/kg	0.50		25	45	42	32		57
Selenium	M	2450	mg/kg	0.20		< 0.20	0.67	< 0.20	1.8		0.64
Zinc	M	2450	mg/kg	0.50		130	350	80	290		250

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2220	Water soluble Chloride in Soils	Chloride	Aqueous extraction and measurement by 'Aquakem 600' Discrete Analyser using ferric nitrate / mercuric thiocyanate.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS

Report Information

Key

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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

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

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

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

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

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

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Appendix J
Geotechnical Test Results



LABORATORY REPORT



4043

Contract Number: PSL19/0528

Report Date: 06 February 2019

Client's Reference: 3043

Client Name: Lithos Consulting
Parkhill
Walton Road
Wetherby
North Yorkshire
LS22 5DZ

For the attention of: Josh Jones/Alan Swales

Contract Title: Westgate, Cleckheaton

Date Received: 22/1/2019

Date Commenced: 22/1/2019

Date Completed: 6/2/2019

Notes: Opinions and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced other than in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

REDACTED

R Gunson
(Director)

A Watkins
(Director)

R Berriman
(Quality Manager)

S Royle
(Laboratory Manager)

S Eyre
(Senior Technician)

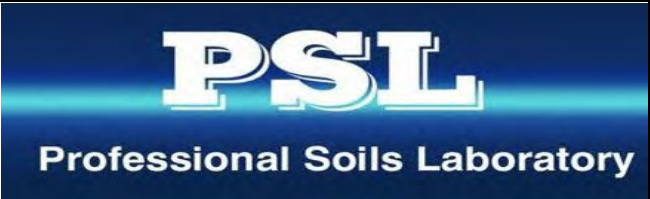
L Knight
(Senior Technician)

5 – 7 Hexthorpe Road, Hexthorpe,
Doncaster DN4 0AR
tel: +44 (0)844 815 6641
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Page 1 of

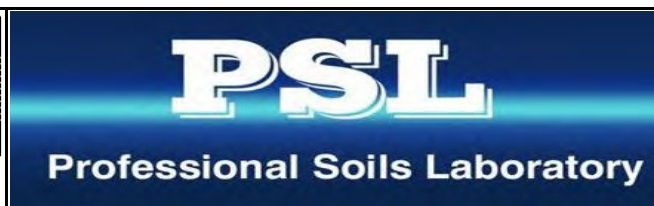
SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
TP402	3	B	3.00		MADE GROUND dark grey clayey silty sand & gravel.
TP423	2	B	0.90		MADE GROUND dark grey very sandy clayey silty gravel with cobbles.
TP413	2	B	1.20		MADE GROUND dark brown very sandy clayey silty gravel.
TP427	3	B	1.20		MADE GROUND dark brown very sandy silty gravel.
TP408	2	B	1.40		MADE GROUND dark brown very sandy clayey silty gravel.
TP431	3	B	1.80		MADE GROUND brown very sandy silty gravel.
TP410	2	B	1.90		MADE GROUND dark brown very sandy gravel.
TP445	1	B	2.60		MADE GROUND dark brown very gravelly very silty sand.
TP416	2	B	2.80		MADE GROUND dark brown very sandy silty gravel.
TP444	2	B	0.70		MADE GROUND brown mottled grey very gravelly very sandy clay.
TP447	1	B	1.50		Brown very gravelly sandy CLAY.
TP437	3	B	0.80		MADE GROUND very sandy very silty gravel.
TT428	3	D	0.80		Brown slightly gravelly sandy very silty CLAY.
TP423	3	D	1.30		Brown slightly gravelly sandy very silty CLAY.
TP421	2	D	2.00		Brown slightly sandy very silty CLAY.
TP427	4	D	2.50		Brown slightly gravelly sandy very silty CLAY.
TP419	3	D	2.60		Dark brown slightly sandy very silty CLAY.
TP404	2	D	0.90		Brown slightly gravelly sandy CLAY.
TP435	2	D	0.90		Brown slightly gravelly sandy CLAY.

		Westgate, Cleckheaton	Contract No:
			PSL19/0528
			Client Ref:
			3043

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
TP424	2	D	1.30		Brown slightly gravelly sandy CLAY.
TP403	2	D	1.40		Brown sandy CLAY.
TP447	1	D	1.50		Brown slightly gravelly sandy CLAY.
TP434	2	D	1.60		Brown mottled grey very sandy CLAY.
TP405	2	D	1.80		Brown gravelly very sandy CLAY
TP446	3	D	1.80		Brown mottled grey slightly gravelly sandy CLAY.
TP433	2	D	1.90		Brown mottled grey slightly gravelly sandy CLAY.
TP442	4	D	2.00		Brown slightly gravelly very sandy CLAY.
TP444	5	D	2.50		Brown mottled grey slightly sandy CLAY.
TP431	4	D	3.50		Brown slightly gravelly slightly sandy CLAY.
TP439	5	D	4.20		Brown slightly gravelly very sandy CLAY.



Westgate, Cleckheaton

Contract No:
PSL19/0528
Client Ref:
3043

SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377 : PART 2 : 1990)

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Moisture Content % Clause 3.2	Linear Shrinkage % Clause 6.5	Particle Density Mg/m ³ Clause 8.2	Liquid Limit % Clause 4.3/4	Plastic Limit % Clause 5.3	Plasticity Index % Clause 5.4	Passing .425mm %	Remarks
TP402	3	B	3.00		20							
TP423	2	B	0.90		20							
TP413	2	B	1.20		27							
TP427	3	B	1.20		23							
TP408	2	B	1.40		25							
TP431	3	B	1.80		20							
TP410	2	B	1.90		27							
TP445	1	B	2.60		30							
TP416	2	B	2.80		45							
TP444	2	B	0.70		19							
TP447	1	B	1.50		19							
TP437	3	B	0.80		27							
TT428	3	D	0.80		25			41	21	20	97	Intermediate plasticity CI.
TP423	3	D	1.30		29			50	25	25	92	High plasticity CH.
TP421	2	D	2.00		39			54	26	28	100	High plasticity CH.
TP427	4	D	2.50		32			43	23	20	100	Intermediate plasticity CI.
TP419	3	D	2.60		35			58	27	31	100	High plasticity CH.
TP404	2	D	0.90		19			39	19	20	96	Intermediate plasticity CI.
TP435	2	D	0.90		23			45	22	23	94	Intermediate plasticity CI.

SYMBOLS : NP : Non Plastic

* : Liquid Limit and Plastic Limit Wet Sieved.



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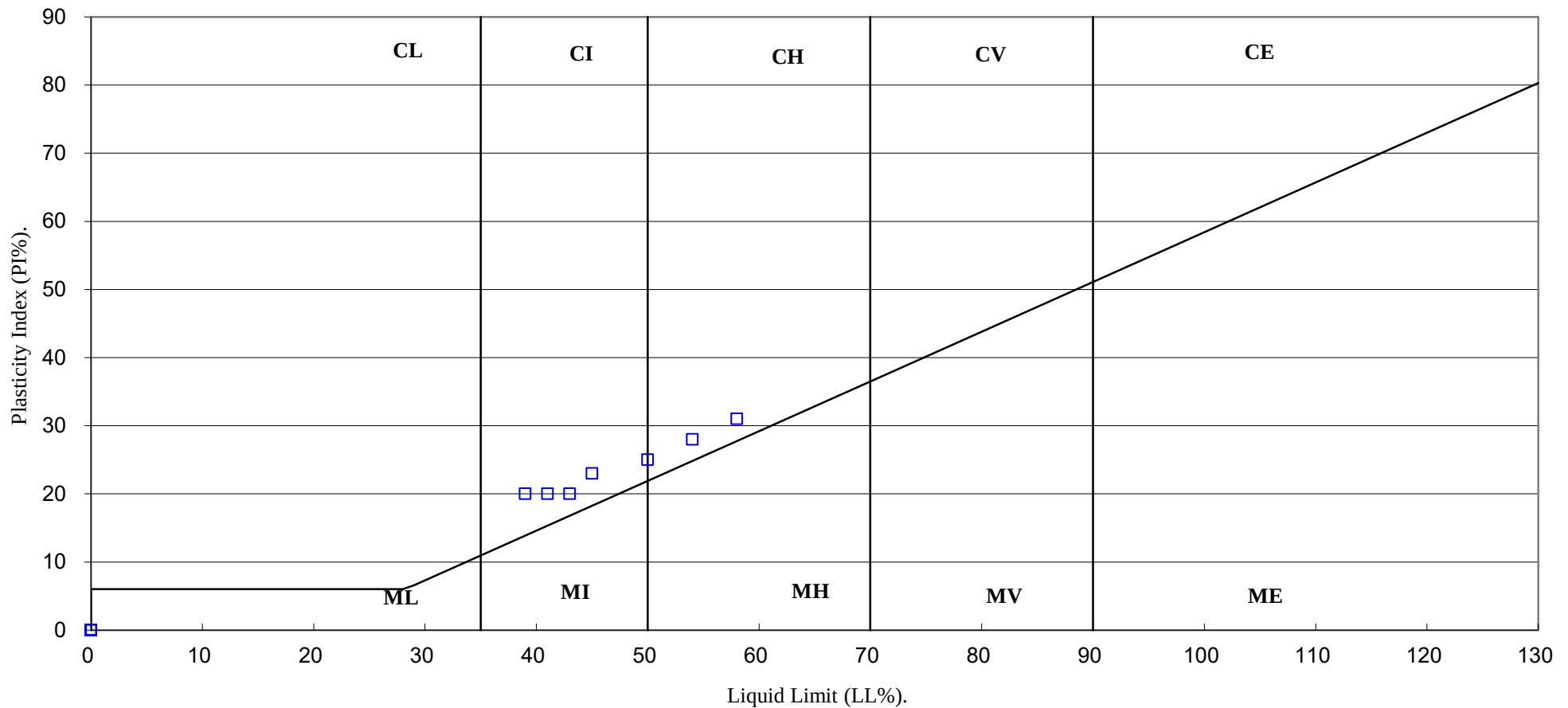
Contract No:

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Client Ref:

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PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.



4043

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Client Ref:

3043

SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377 : PART 2 : 1990)

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Moisture Content % Clause 3.2	Linear Shrinkage % Clause 6.5	Particle Density Mg/m ³ Clause 8.2	Liquid Limit % Clause 4.3/4	Plastic Limit % Clause 5.3	Plasticity Index % Clause 5.4	Passing .425mm %	Remarks
TP424	2	D	1.30		20			43	22	21	92	Intermediate plasticity CI.
TP403	2	D	1.40		16			40	20	20	100	Intermediate plasticity CI.
TP447	1	D	1.50		15			41	21	20	94	Intermediate plasticity CI.
TP434	2	D	1.60		15			34	17	17	100	Low plasticity CL.
TP405	2	D	1.80		16			35	18	17	81	Intermediate plasticity CI.
TP446	3	D	1.80		23			41	21	20	96	Intermediate plasticity CI.
TP433	2	D	1.90		19			45	24	21	97	Intermediate plasticity CI.
TP442	4	D	2.00		14			25	15	10	83	Low plasticity CL.
TP444	5	D	2.50		40			64	26	38	100	High plasticity CH.
TP431	4	D	3.50		30			54	26	28	96	High plasticity CH.
TP439	5	D	4.20		19			32	16	16	96	Low plasticity CL.

SYMBOLS : NP : Non Plastic

* : Liquid Limit and Plastic Limit Wet Sieved.



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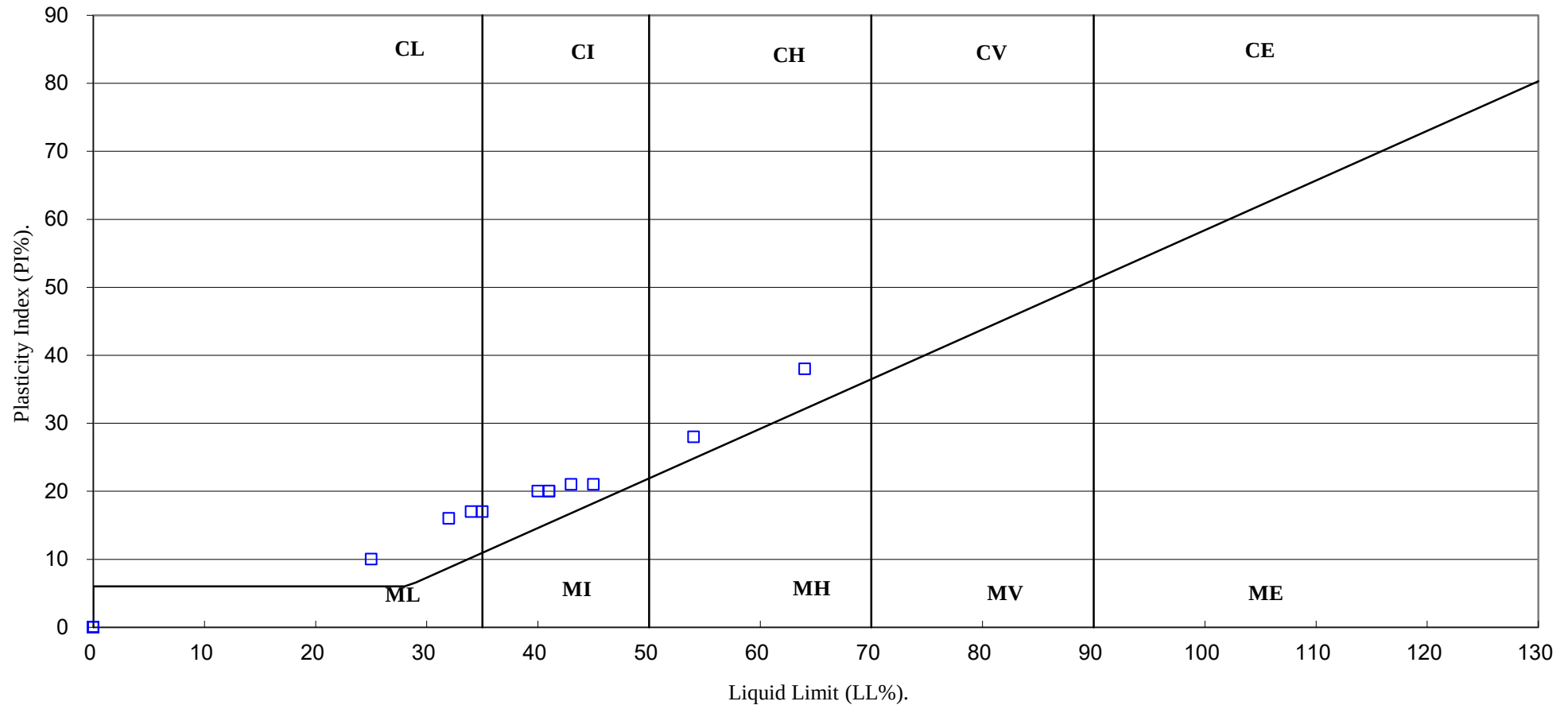
Contract No:

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Client Ref:

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PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.



4043

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Contract No:

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Client Ref:

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PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

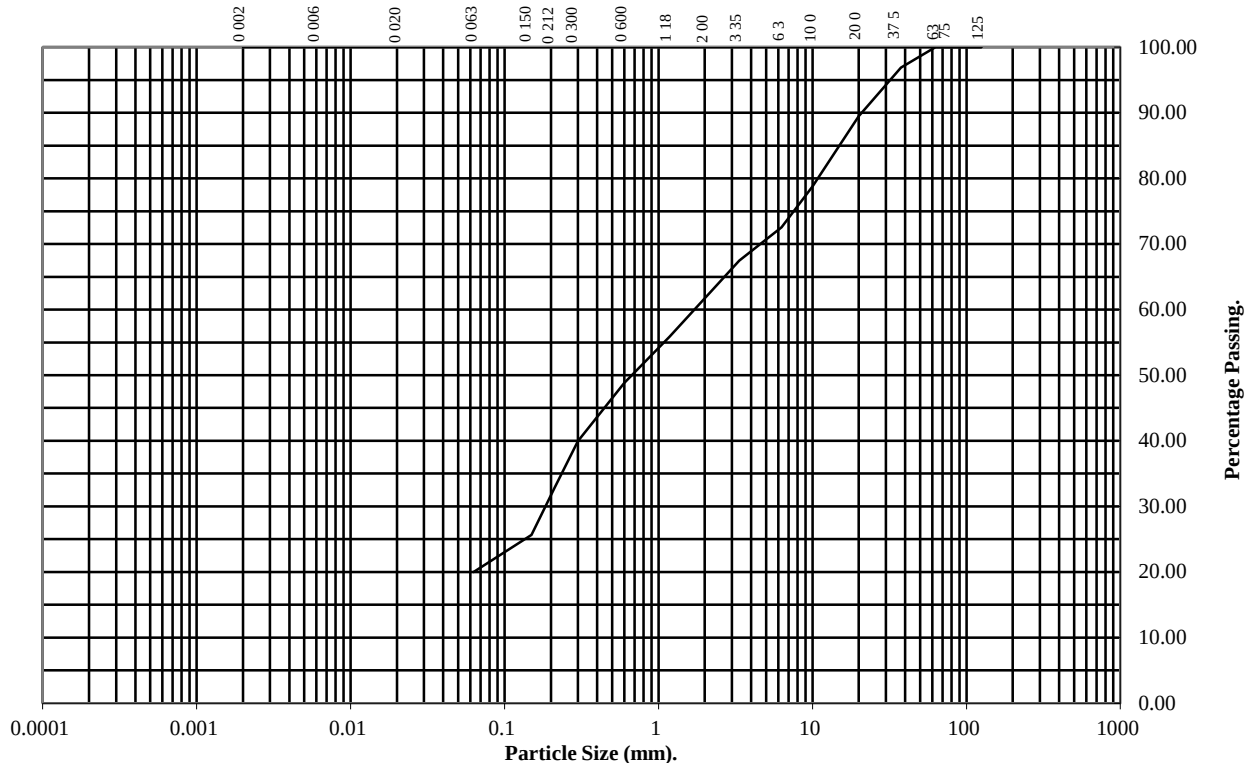
Hole Number: TP402

Top Depth (m): 3.00

Sample Number: 3

Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	97
20	89
10	79
6.3	73
3.35	67
2	62
1.18	56
0.6	49
0.3	40
0.212	33
0.15	26
0.063	20

Soil Fraction	Total Percentage
Cobbles	0
Gravel	38
Sand	42
Silt/Clay	20

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

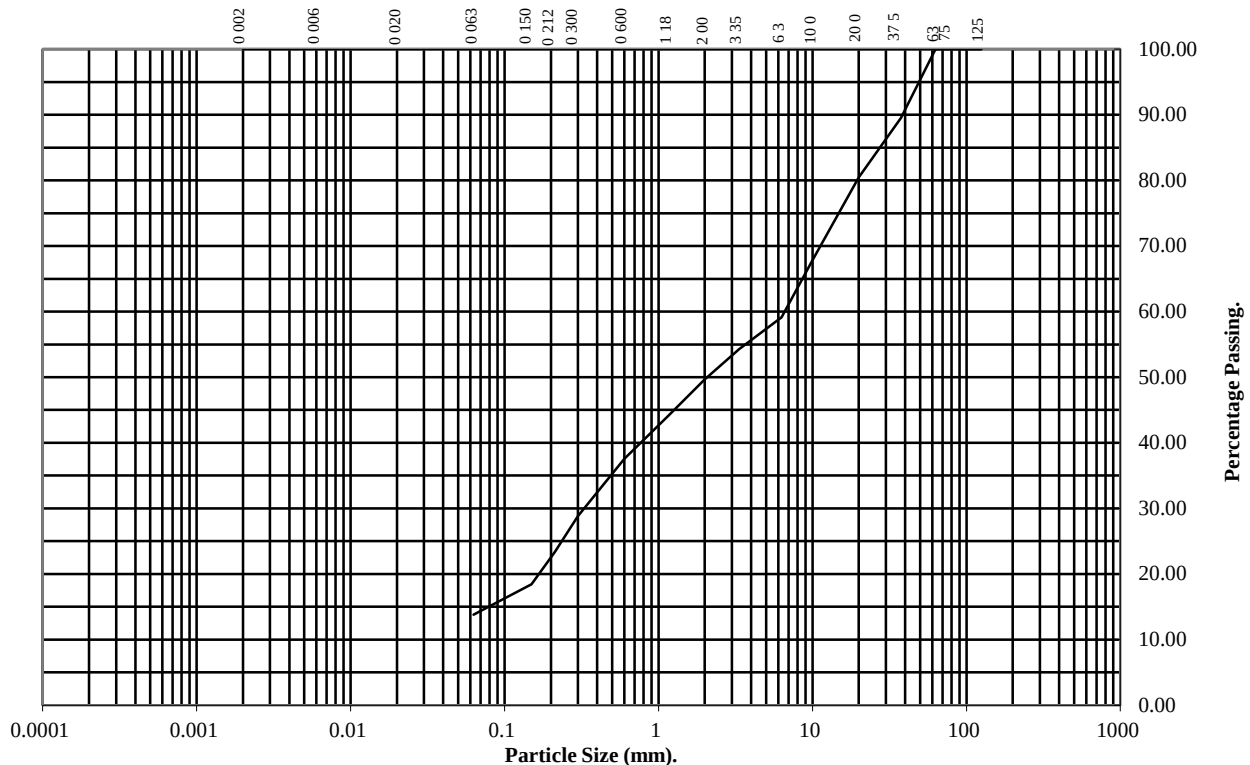
Hole Number: TP408

Top Depth (m): 1.40

Sample Number: 2

Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	90
20	80
10	68
6.3	59
3.35	54
2	50
1.18	44
0.6	38
0.3	29
0.212	23
0.15	18
0.063	14

Soil Fraction	Total Percentage
Cobbles	0
Gravel	50
Sand	36
Silt/Clay	14

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

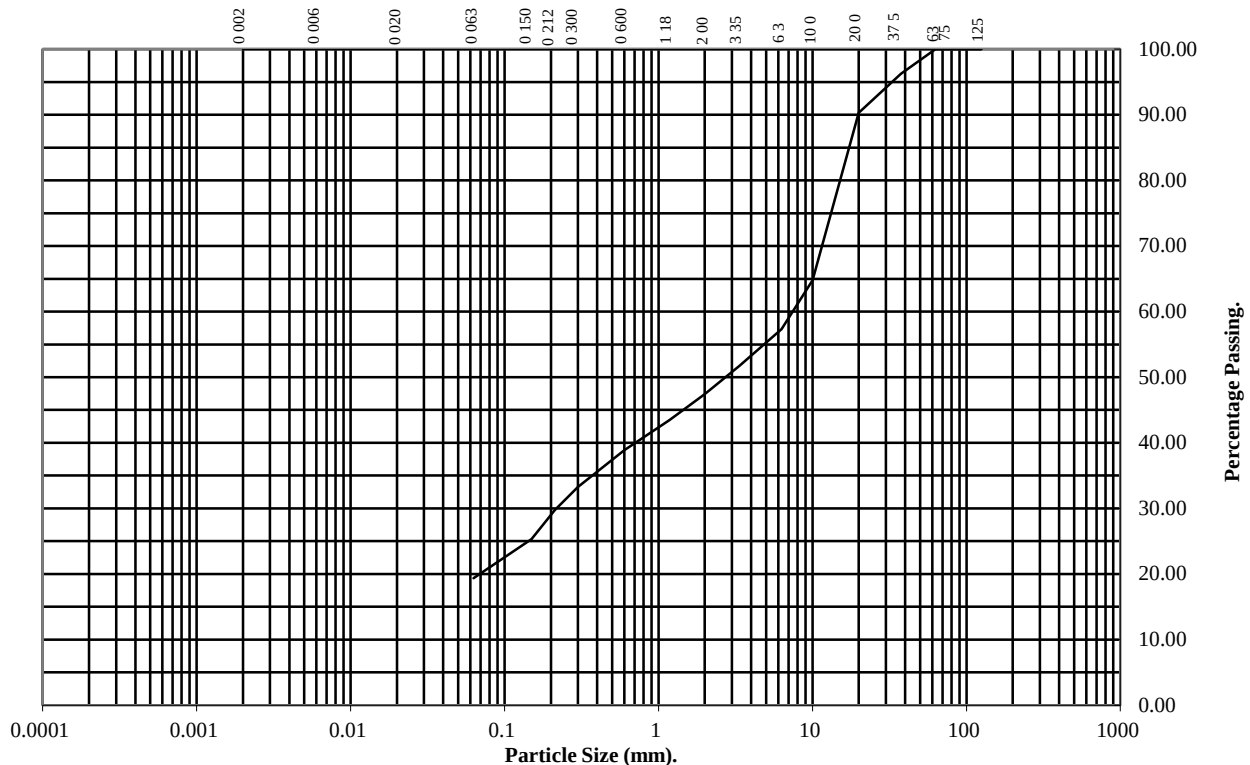
Hole Number: TP413

Top Depth (m): 1.20

Sample Number: 2

Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	96
20	90
10	65
6.3	57
3.35	52
2	47
1.18	43
0.6	39
0.3	33
0.212	30
0.15	25
0.063	19

Soil Fraction	Total Percentage
Cobbles	0
Gravel	53
Sand	28
Silt/Clay	19

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

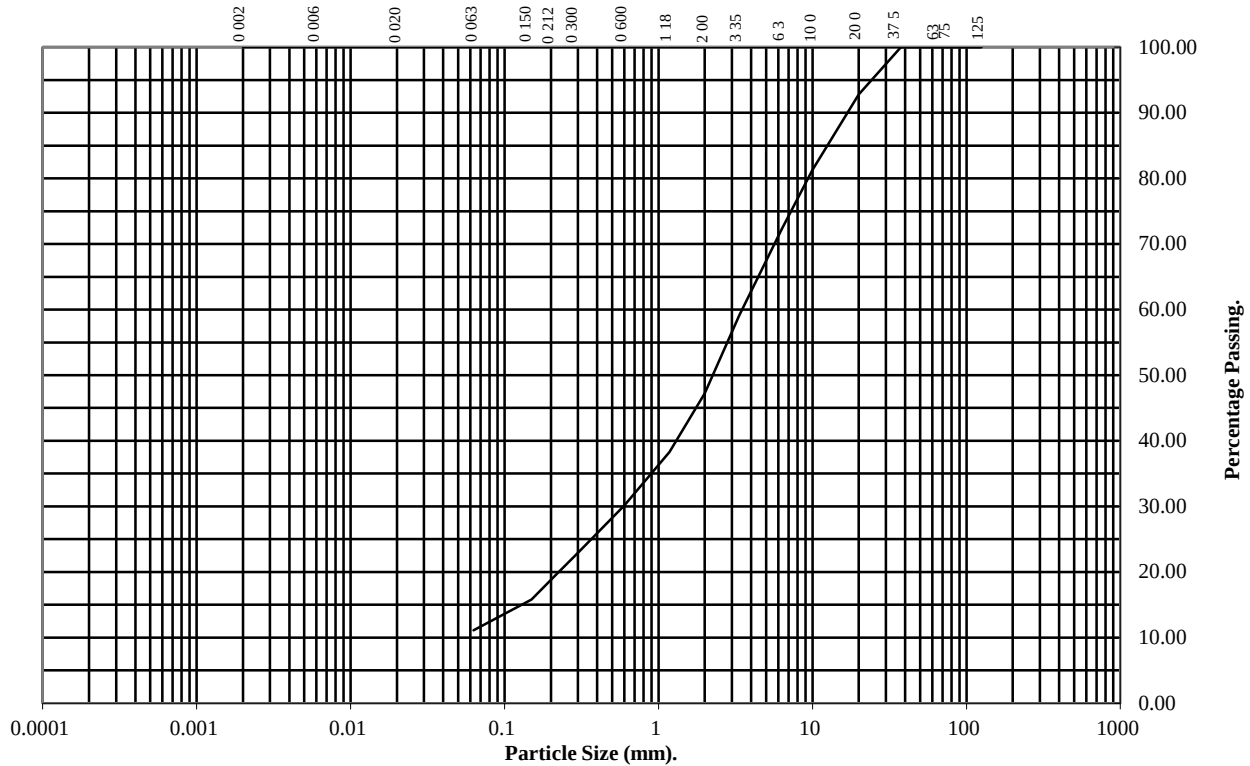
Hole Number: TP416

Top Depth (m): 2.80

Sample Number: 2

Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	93
10	81
6.3	72
3.35	59
2	47
1.18	38
0.6	30
0.3	23
0.212	19
0.15	16
0.063	11

Soil Fraction	Total Percentage
Cobbles	0
Gravel	53
Sand	36
Silt/Clay	11

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

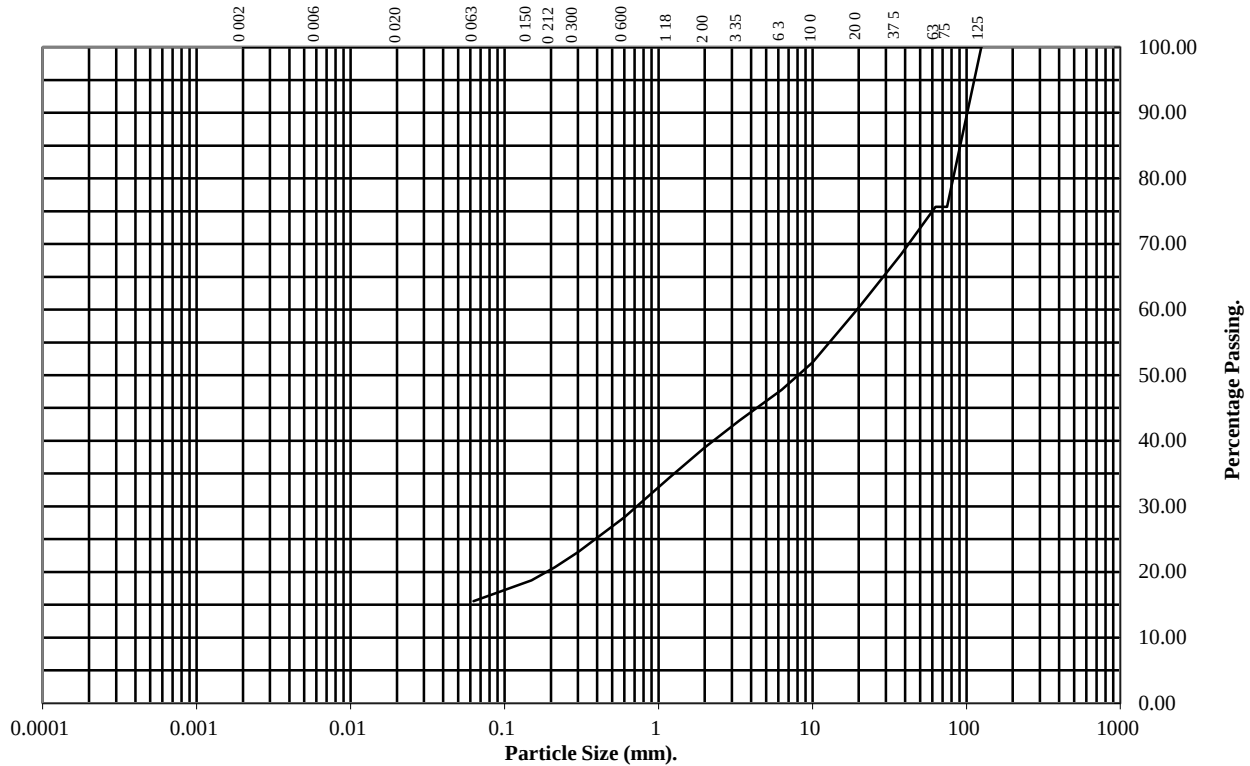
Hole Number: TP423

Top Depth (m): 0.90

Sample Number: 2

Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	76
63	76
37.5	68
20	60
10	52
6.3	48
3.35	43
2	39
1.18	34
0.6	28
0.3	23
0.212	21
0.15	19
0.063	16

Soil Fraction	Total Percentage
Cobbles	24
Gravel	37
Sand	23
Silt/Clay	16

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

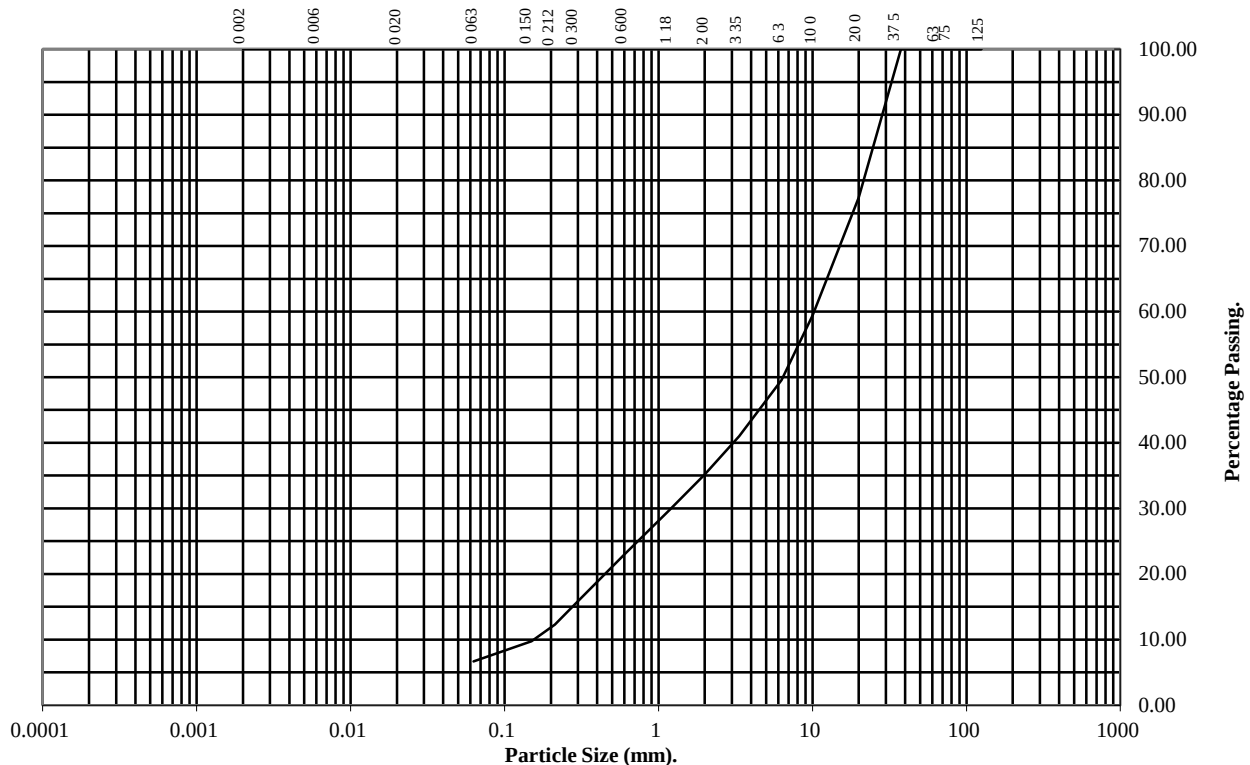
Hole Number: TP431

Top Depth (m): 1.80

Sample Number: 3

Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	77
10	59
6.3	50
3.35	41
2	35
1.18	30
0.6	23
0.3	16
0.212	12
0.15	10
0.063	7

Soil Fraction	Total Percentage
Cobbles	0
Gravel	65
Sand	28
Silt/Clay	7

Remarks:

See Summary of Soil Descriptions



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PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

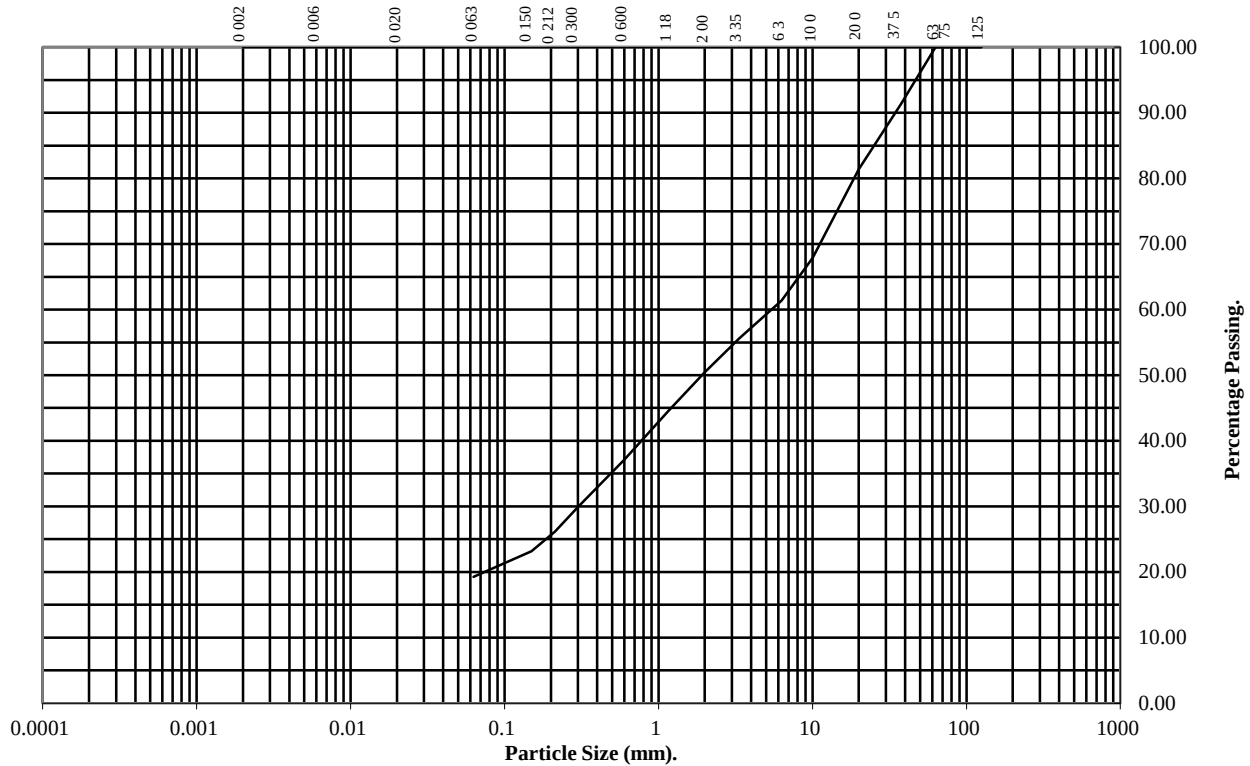
Hole Number: TP437

Top Depth (m): 0.80

Sample Number: 3

Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	91
20	81
10	68
6.3	61
3.35	56
2	50
1.18	45
0.6	37
0.3	30
0.212	26
0.15	23
0.063	19

Soil Fraction	Total Percentage
Cobbles	0
Gravel	50
Sand	31
Silt/Clay	19

Remarks:

See Summary of Soil Descriptions



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Contract No:
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PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

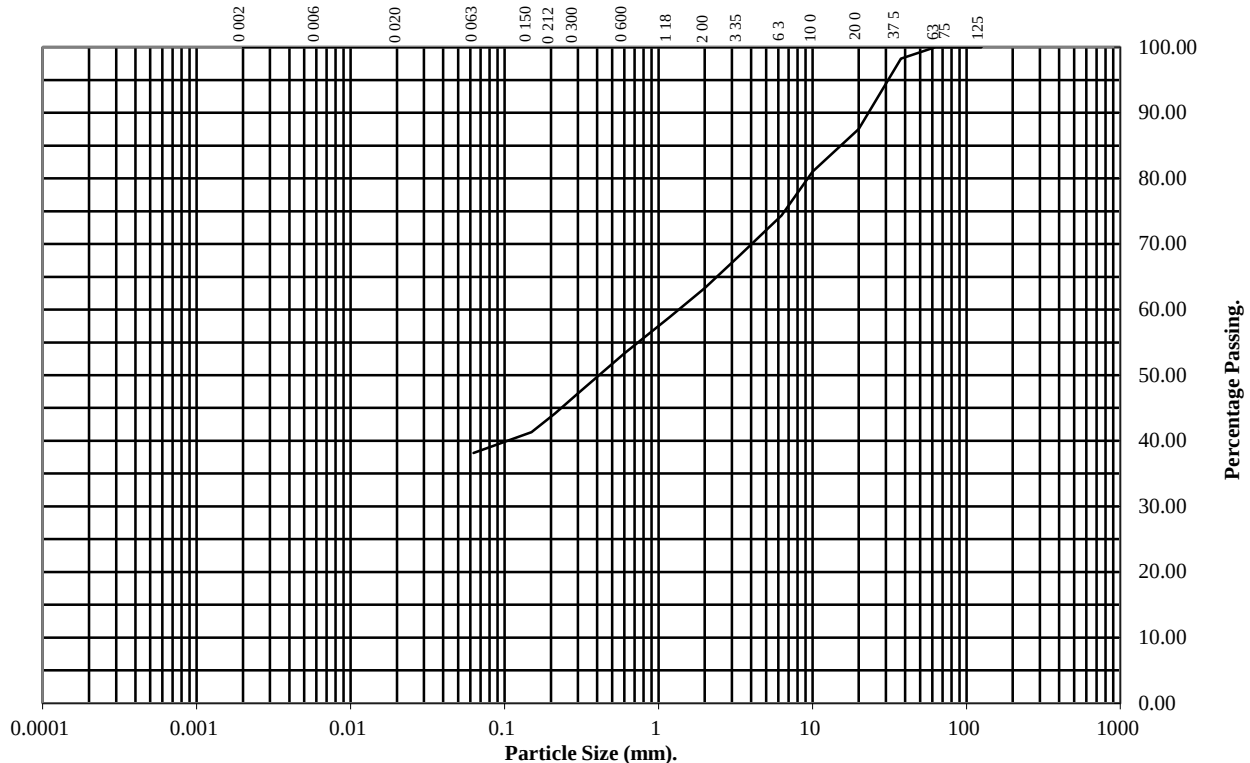
Hole Number: TP444

Top Depth (m): 0.70

Sample Number: 2

Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	98
20	88
10	81
6.3	74
3.35	68
2	63
1.18	59
0.6	53
0.3	47
0.212	44
0.15	41
0.063	38

Soil Fraction	Total Percentage
Cobbles	0
Gravel	37
Sand	25
Silt/Clay	38

Remarks:

See Summary of Soil Descriptions



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Client Ref:
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PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

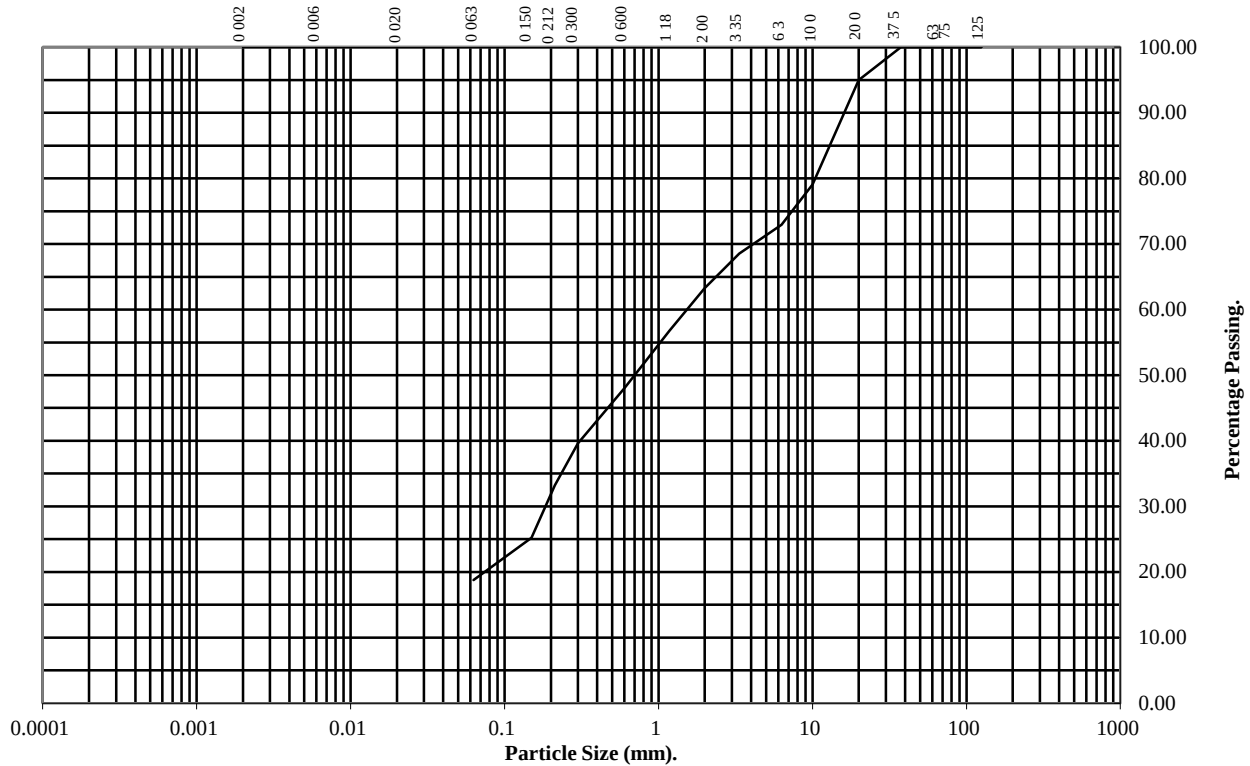
Hole Number: TP445

Top Depth (m): 2.60

Sample Number: 1

Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	95
10	79
6.3	73
3.35	69
2	63
1.18	57
0.6	48
0.3	40
0.212	33
0.15	25
0.063	19

Soil Fraction	Total Percentage
Cobbles	0
Gravel	37
Sand	44
Silt/Clay	19

Remarks:

See Summary of Soil Descriptions



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PSL19/0528
Client Ref:
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PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

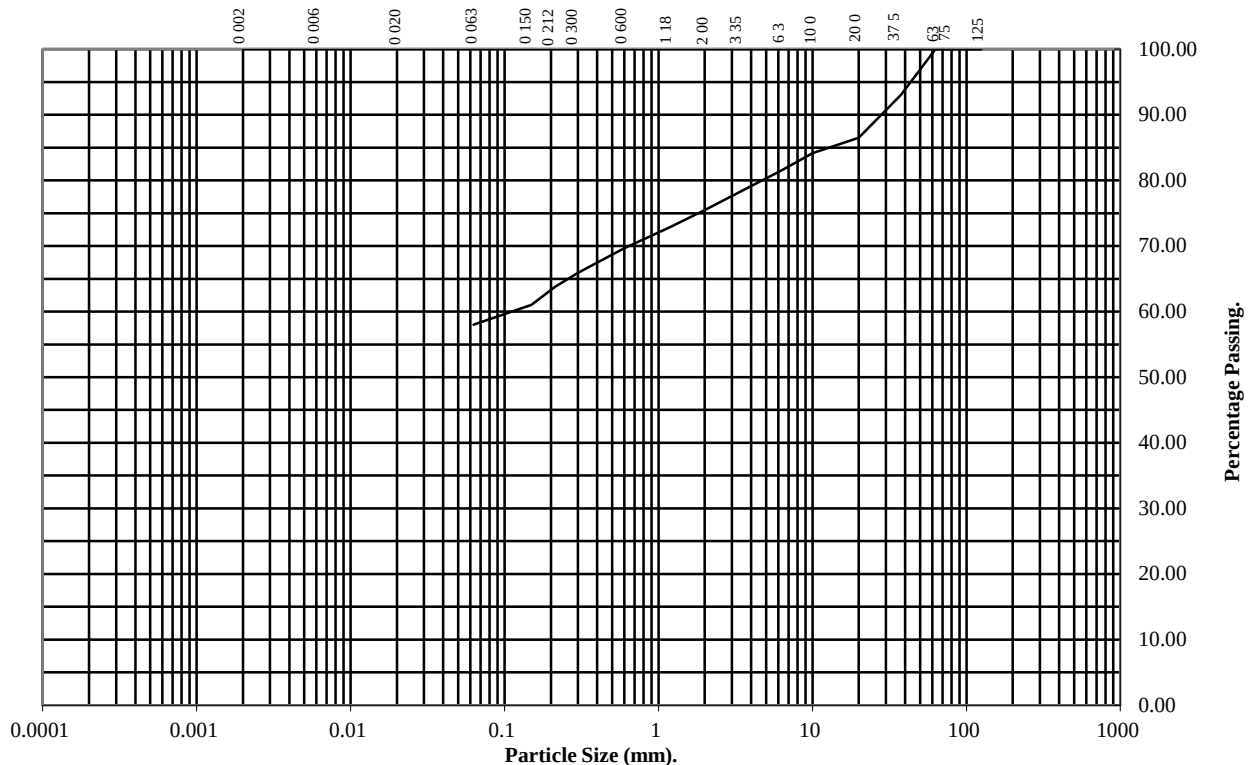
Hole Number: TP447

Top Depth (m): 1.50

Sample Number: 1

Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	93
20	87
10	84
6.3	82
3.35	78
2	75
1.18	73
0.6	70
0.3	66
0.212	64
0.15	61
0.063	58

Soil Fraction	Total Percentage
Cobbles	0
Gravel	25
Sand	17
Silt/Clay	58

Remarks:

See Summary of Soil Descriptions



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Contract No:
PSL19/0528
Client Ref:
3043

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : 1990

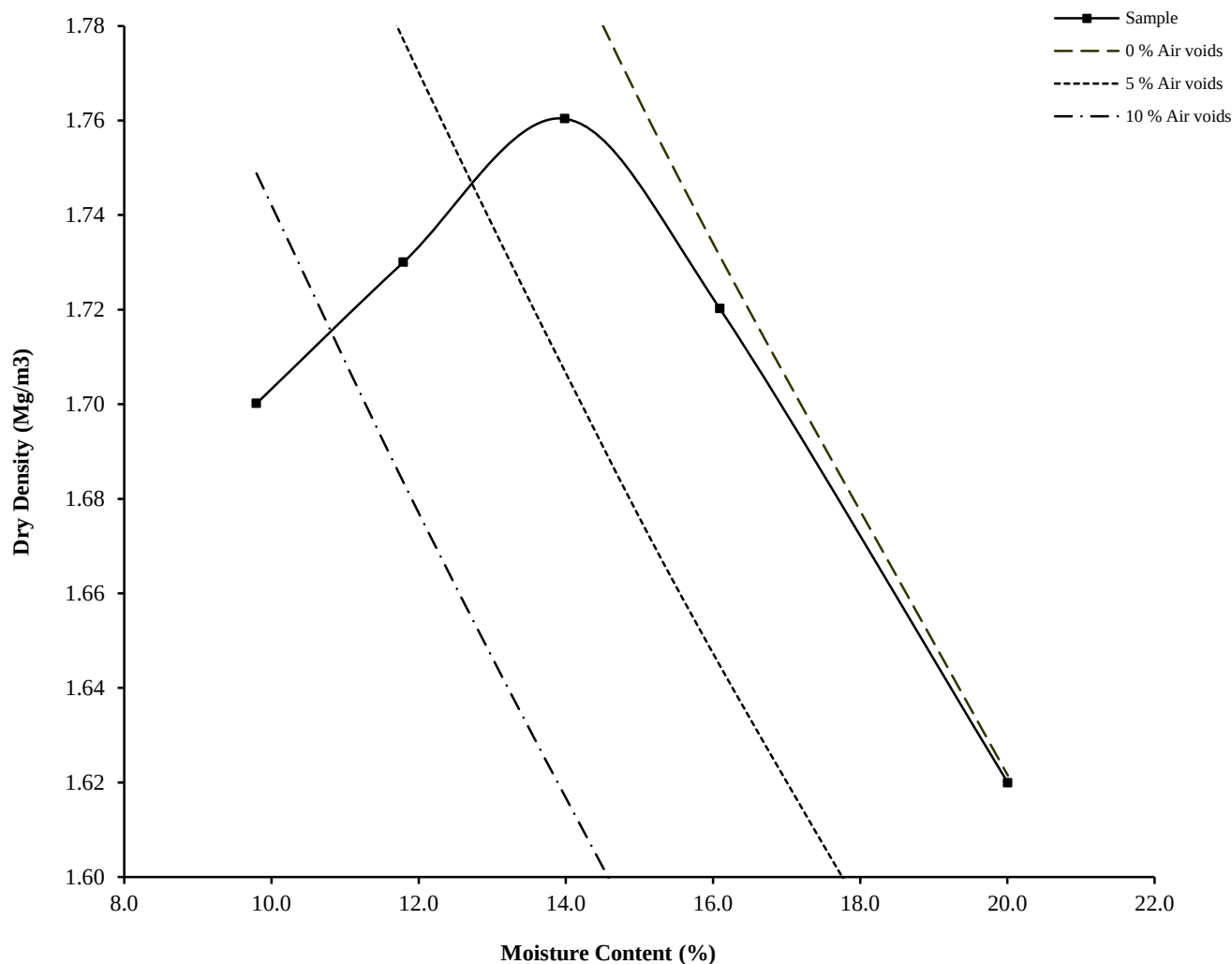
Hole Number: TP402

Top Depth (m) : 3.00

Sample Number: 3

Base Depth (m) :

Sample Type: B



Initial Moisture Content:	20	Method of Compaction:	4.5kg	Separate Samples
Particle Density (Mg/m ³):	2.40	Assumed	Material Retained on 37.5 mm Test Sieve (%):	3
Maximum Dry Density (Mg/m ³):	1.76		Material Retained on 20.0 mm Test Sieve (%):	8
Optimum Moisture Content (%):	14			
Remarks				
See summary of soil descriptions.				



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DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : 1990

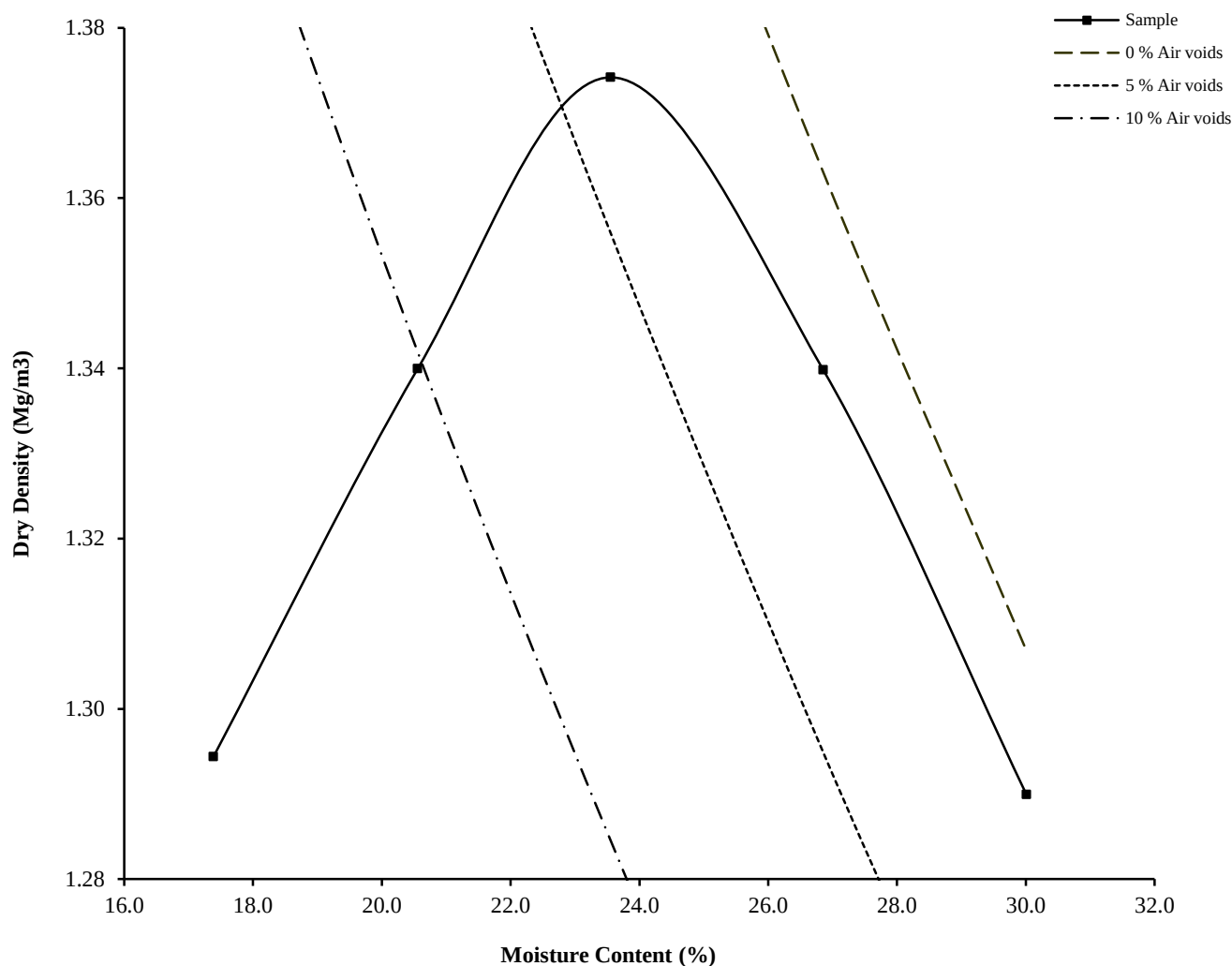
Hole Number: TP408

Top Depth (m) : 1.40

Sample Number: 2

Base Depth (m) :

Sample Type: B



Initial Moisture Content:	27	Method of Compaction:	4.5kg	Separate Samples
Particle Density (Mg/m ³):	2.15	Assumed	Material Retained on 37.5 mm Test Sieve (%):	10
Maximum Dry Density (Mg/m ³):	1.37		Material Retained on 20.0 mm Test Sieve (%):	10
Optimum Moisture Content (%):	24			
Remarks				
See summary of soil descriptions.				



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Westgate, Cleckheaton

Contract
PSL19/0528
Client Ref
3043

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : 1990

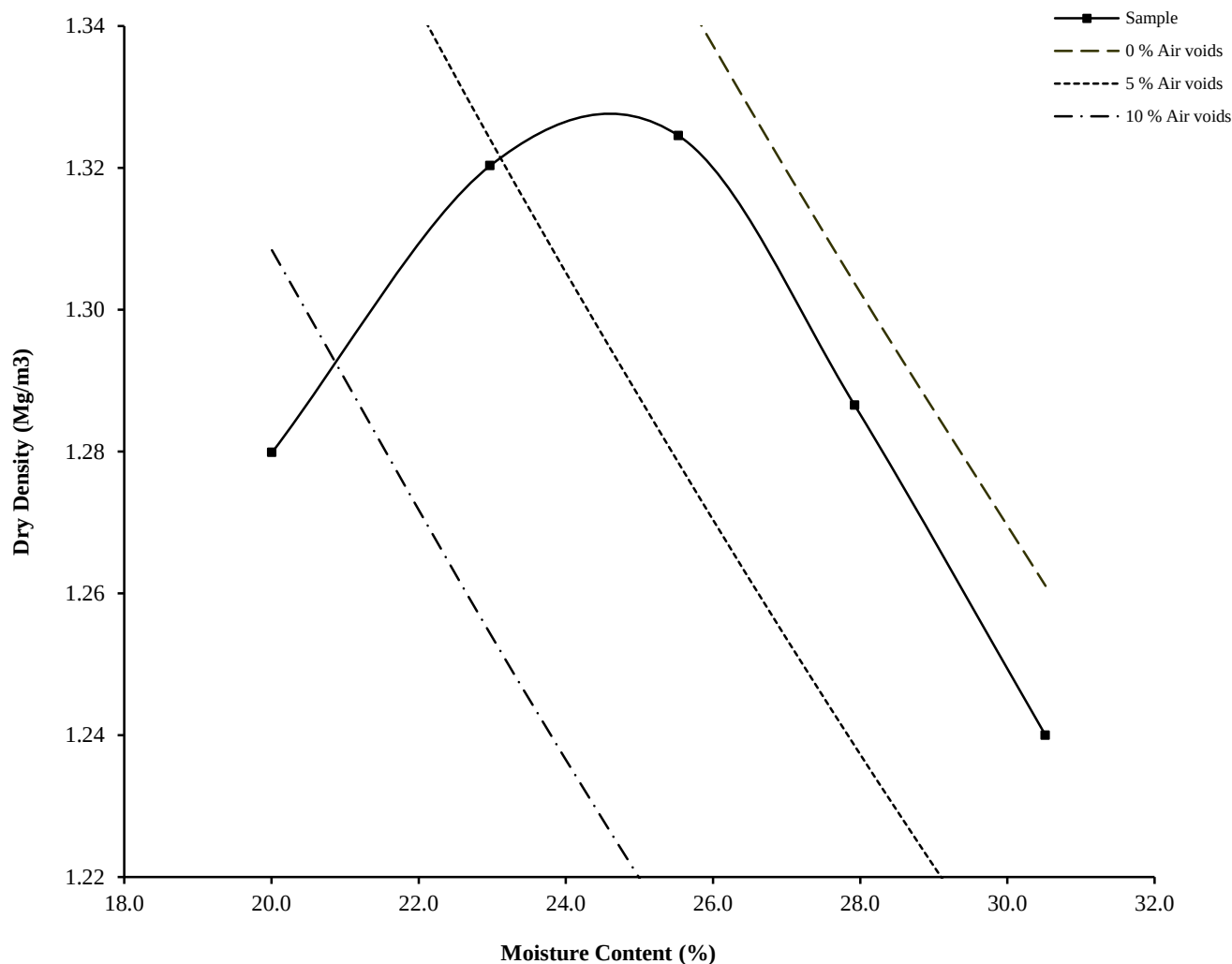
Hole Number: TP413

Top Depth (m) : 1.20

Sample Number: 2

Base Depth (m) :

Sample Type: B



Initial Moisture Content:	28	Method of Compaction:	4.5kg	Separate Samples
Particle Density (Mg/m3):	2.05	Assumed	Material Retained on 37.5 mm Test Sieve (%):	4
Maximum Dry Density (Mg/m3):	1.32		Material Retained on 20.0 mm Test Sieve (%):	6
Optimum Moisture Content (%):	25			
Remarks				
See summary of soil descriptions.				



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DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : 1990

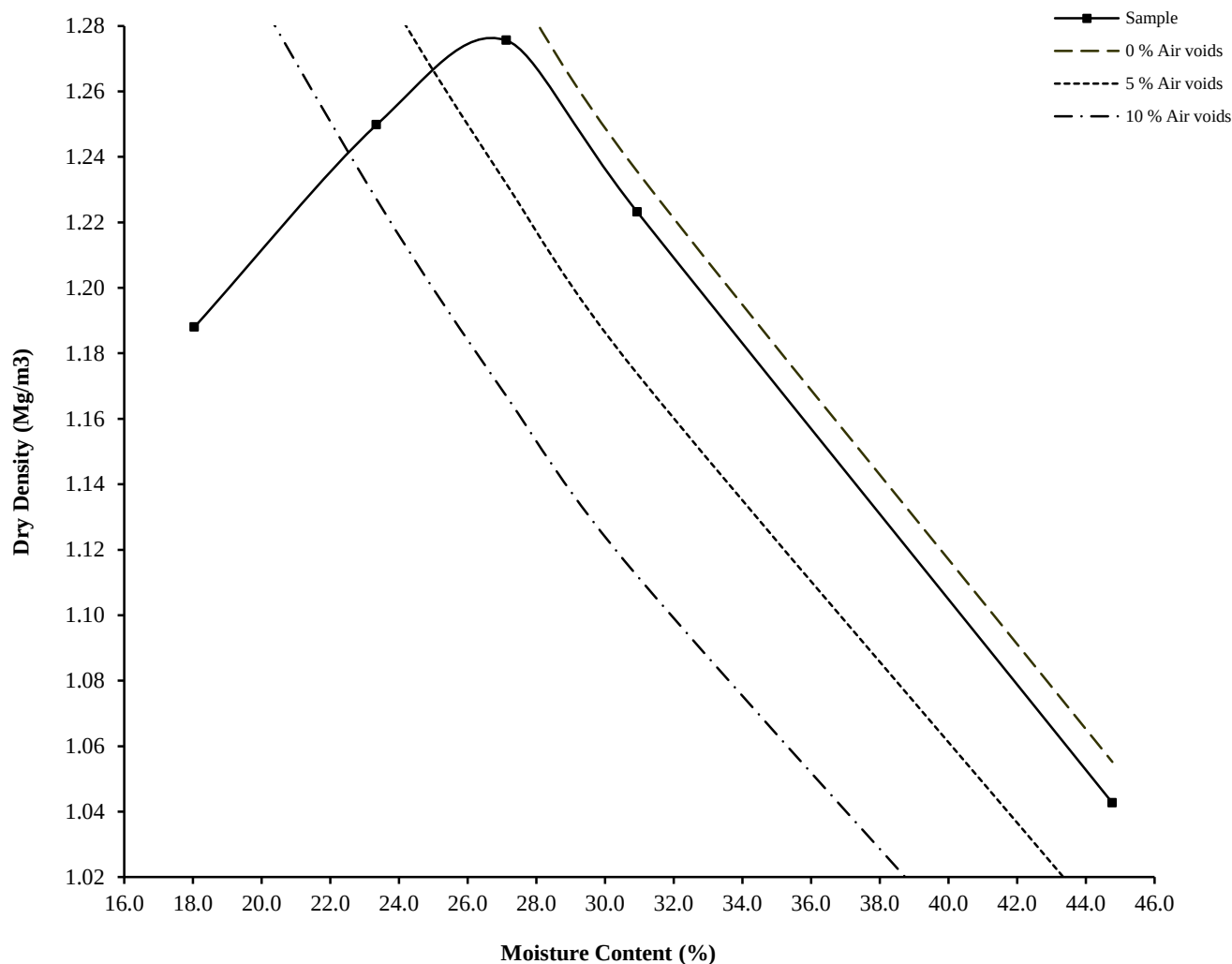
Hole Number: TP416

Top Depth (m) : 2.80

Sample Number: 2

Base Depth (m) :

Sample Type: B



Initial Moisture Content:	45	Method of Compaction:	4.5kg	Separate Samples
Particle Density (Mg/m ³):	2.00	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m ³):	1.28		Material Retained on 20.0 mm Test Sieve (%):	7
Optimum Moisture Content (%):	27			
Remarks				
See summary of soil descriptions.				



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DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

Non compliance with BS 1377 : Part 4 : 1990

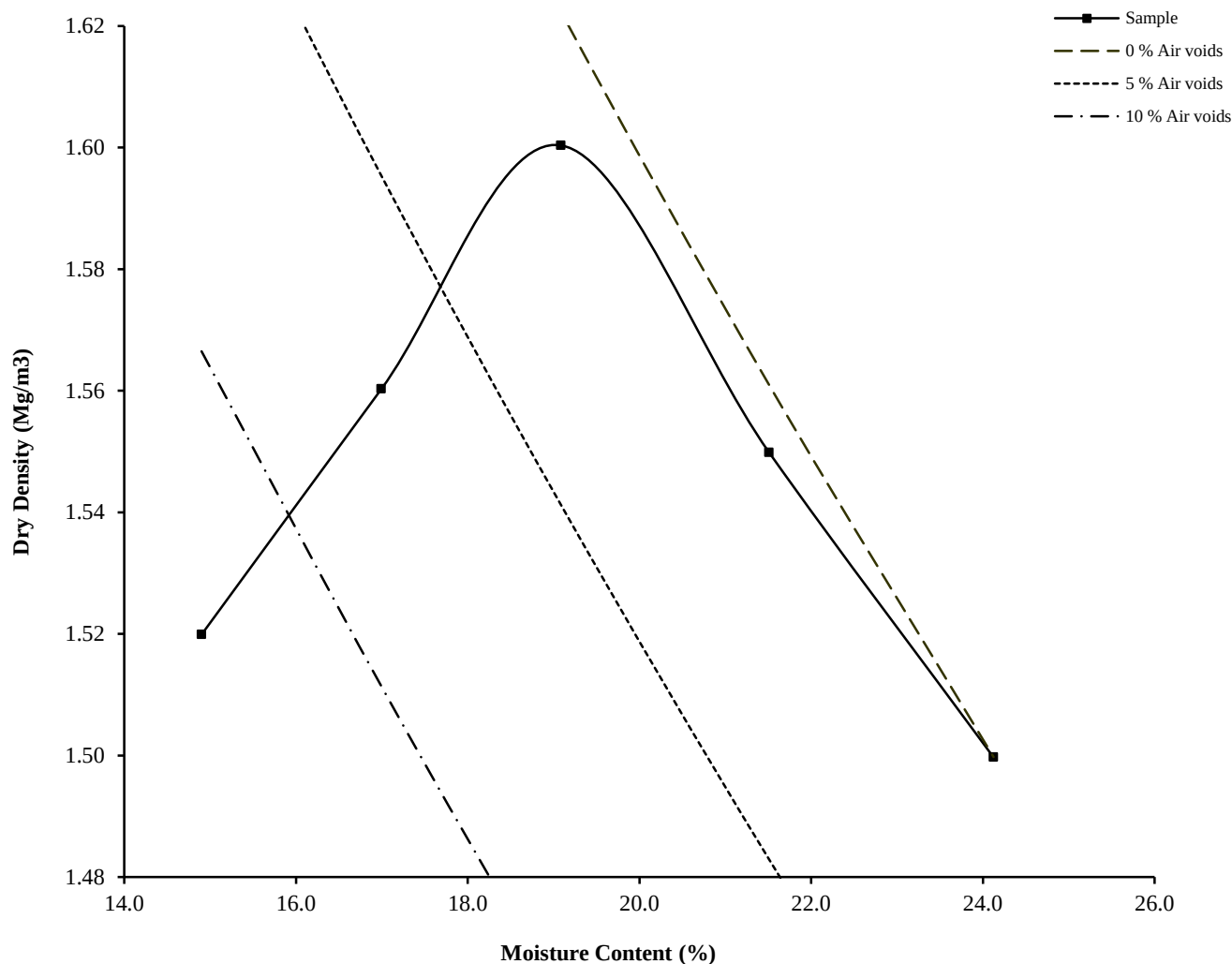
Hole Number: TP423

Top Depth (m) : 0.90

Sample Number: 2

Base Depth (m) :

Sample Type: B



Initial Moisture Content:	22	Method of Compaction:	4.5kg	Separate Samples
Particle Density (Mg/m ³):	2.35	Assumed	Material Retained on 37.5 mm Test Sieve (%):	32
Maximum Dry Density (Mg/m ³):	1.60		Material Retained on 20.0 mm Test Sieve (%):	8
Optimum Moisture Content (%):	19			
Remarks				
See summary of soil descriptions.				



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DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : 1990

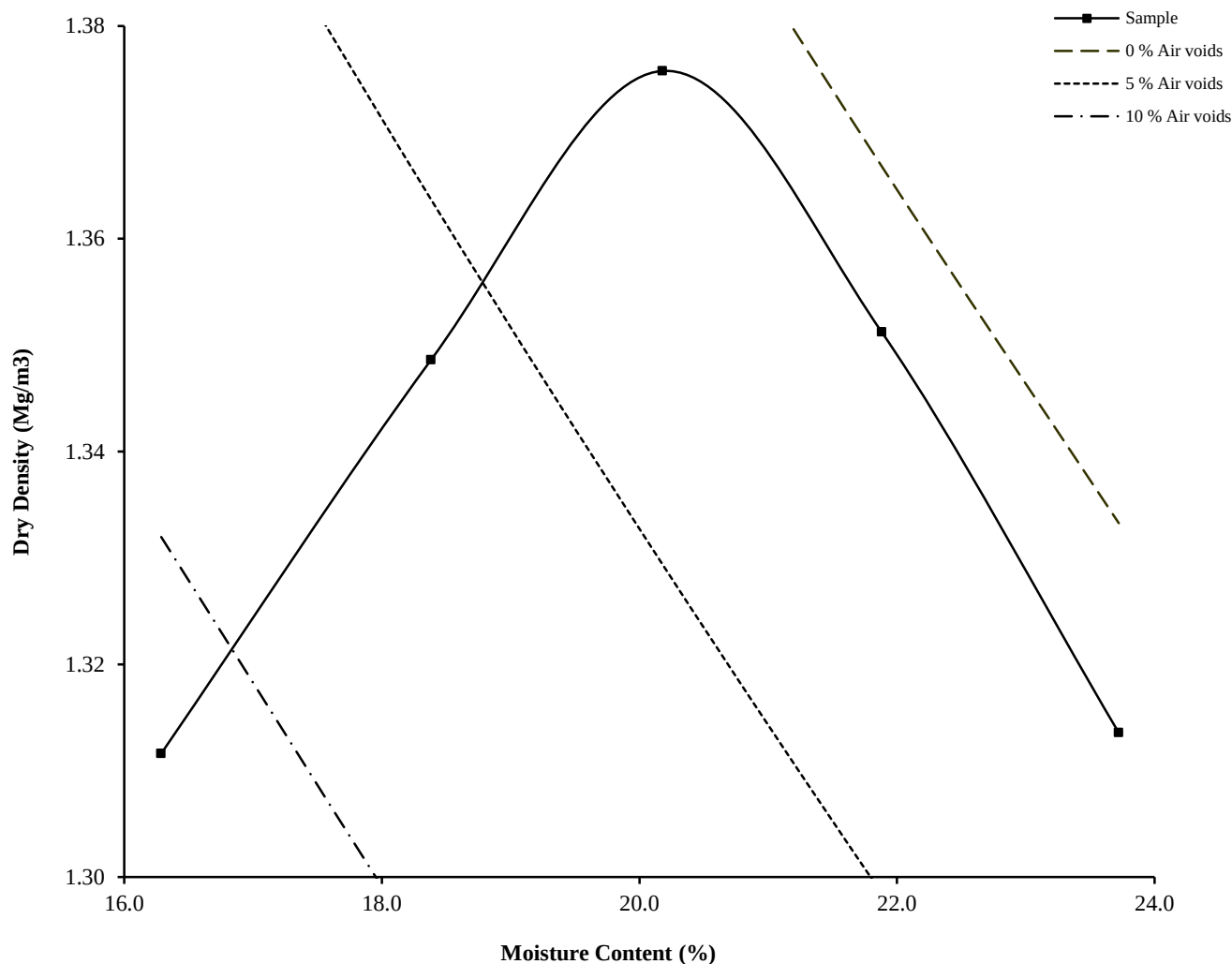
Hole Number: TP431

Top Depth (m) : 1.80

Sample Number: 3

Base Depth (m) :

Sample Type: B



Initial Moisture Content:	20	Method of Compaction:	4.5kg	Separate Samples
Particle Density (Mg/m ³):	1.95	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m ³):	1.38		Material Retained on 20.0 mm Test Sieve (%):	23
Optimum Moisture Content (%):	20			
Remarks				
See summary of soil descriptions.				



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DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : 1990

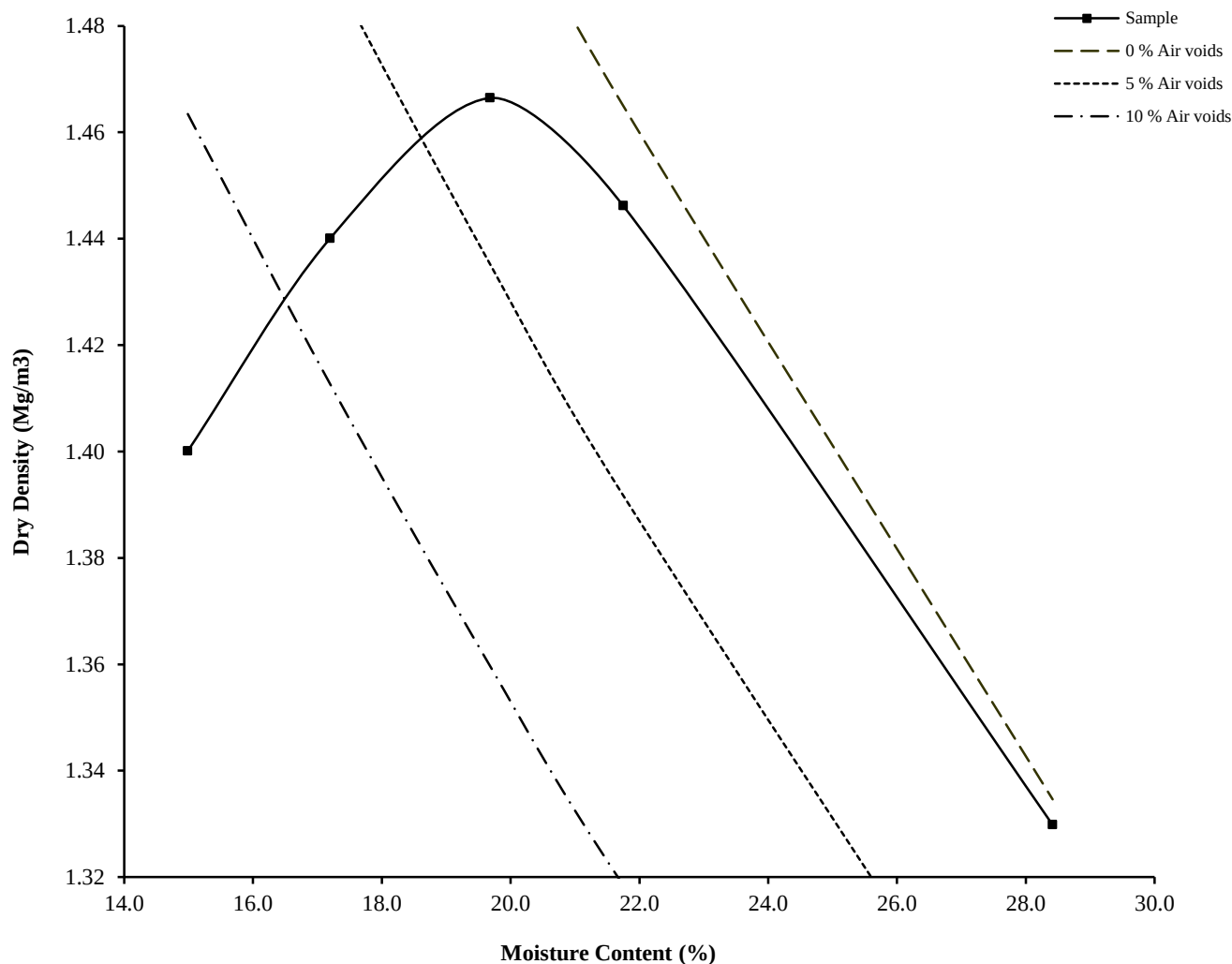
Hole Number: TP437

Top Depth (m) : 0.80

Sample Number: 3

Base Depth (m) :

Sample Type: B



Initial Moisture Content:	28	Method of Compaction:	4.5kg	Separate Samples
Particle Density (Mg/m ³):	2.15	Assumed	Material Retained on 37.5 mm Test Sieve (%):	9
Maximum Dry Density (Mg/m ³):	1.47		Material Retained on 20.0 mm Test Sieve (%):	10
Optimum Moisture Content (%):	20			
Remarks				
See summary of soil descriptions.				



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DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : 1990

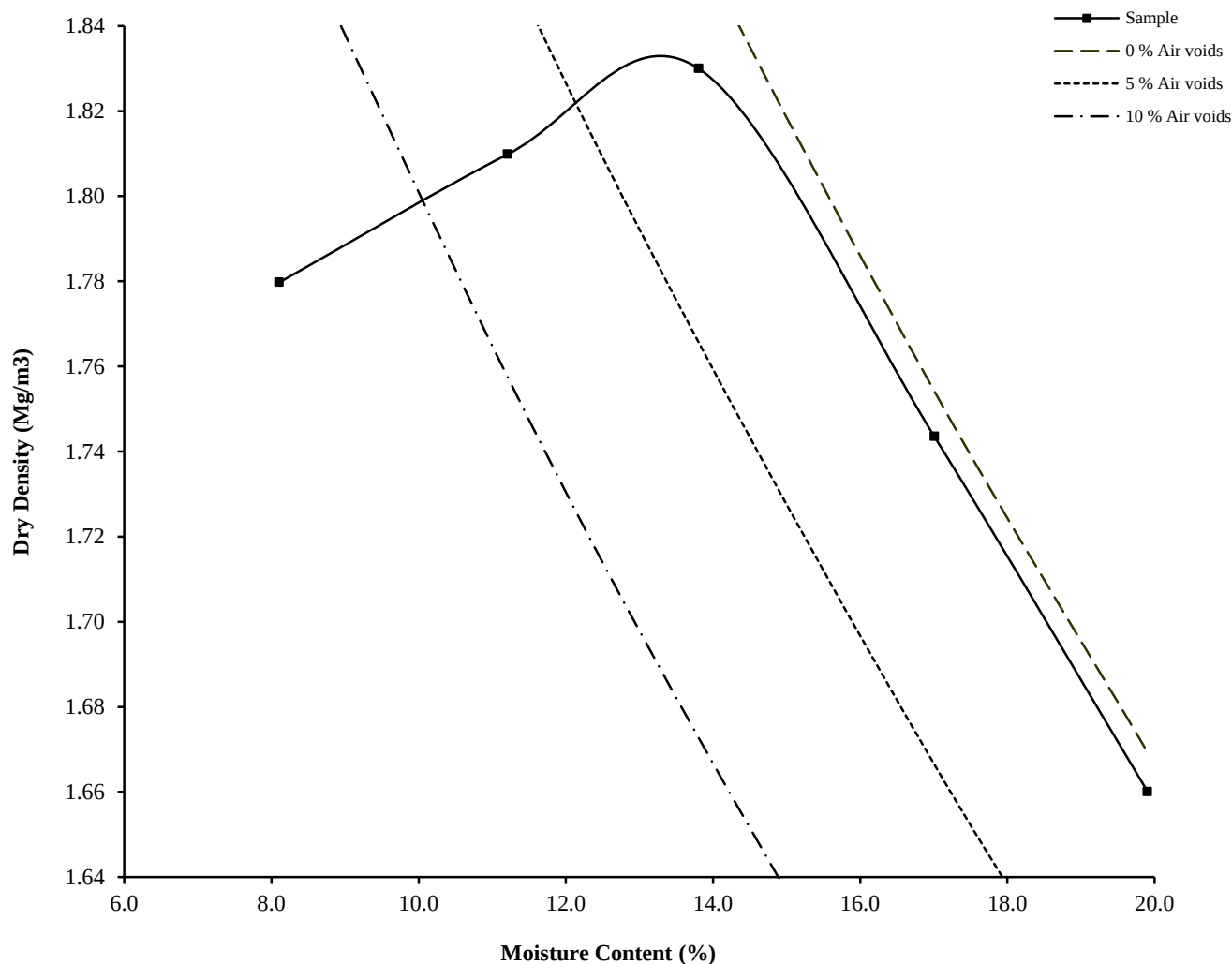
Hole Number: TP444

Top Depth (m) : 0.70

Sample Number: 2

Base Depth (m) :

Sample Type: B



Initial Moisture Content:	20	Method of Compaction:	4.5kg	Separate Samples
Particle Density (Mg/m ³):	2.50	Assumed	Material Retained on 37.5 mm Test Sieve (%):	2
Maximum Dry Density (Mg/m ³):	1.83		Material Retained on 20.0 mm Test Sieve (%):	10
Optimum Moisture Content (%):	13			
Remarks				
See summary of soil descriptions.				



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DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : 1990

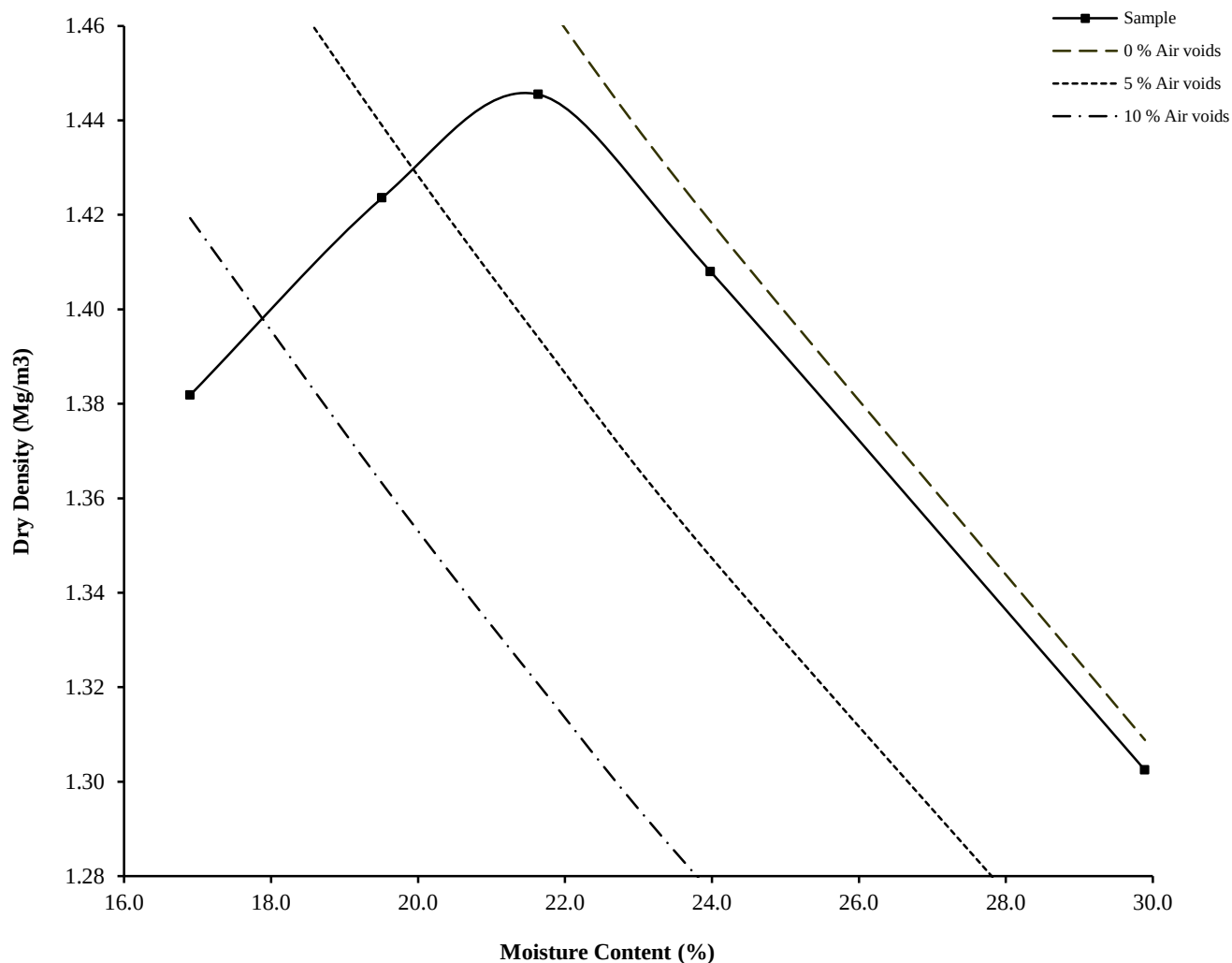
Hole Number: TP445

Top Depth (m) : 2.60

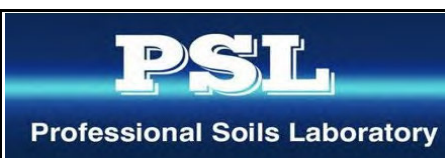
Sample Number: 1

Base Depth (m) :

Sample Type: B



Initial Moisture Content:	30	Method of Compaction:	4.5kg	Separate Samples
Particle Density (Mg/m ³):	2.15	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m ³):	1.45		Material Retained on 20.0 mm Test Sieve (%):	5
Optimum Moisture Content (%):	22			
Remarks				
See summary of soil descriptions.				



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DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : 1990

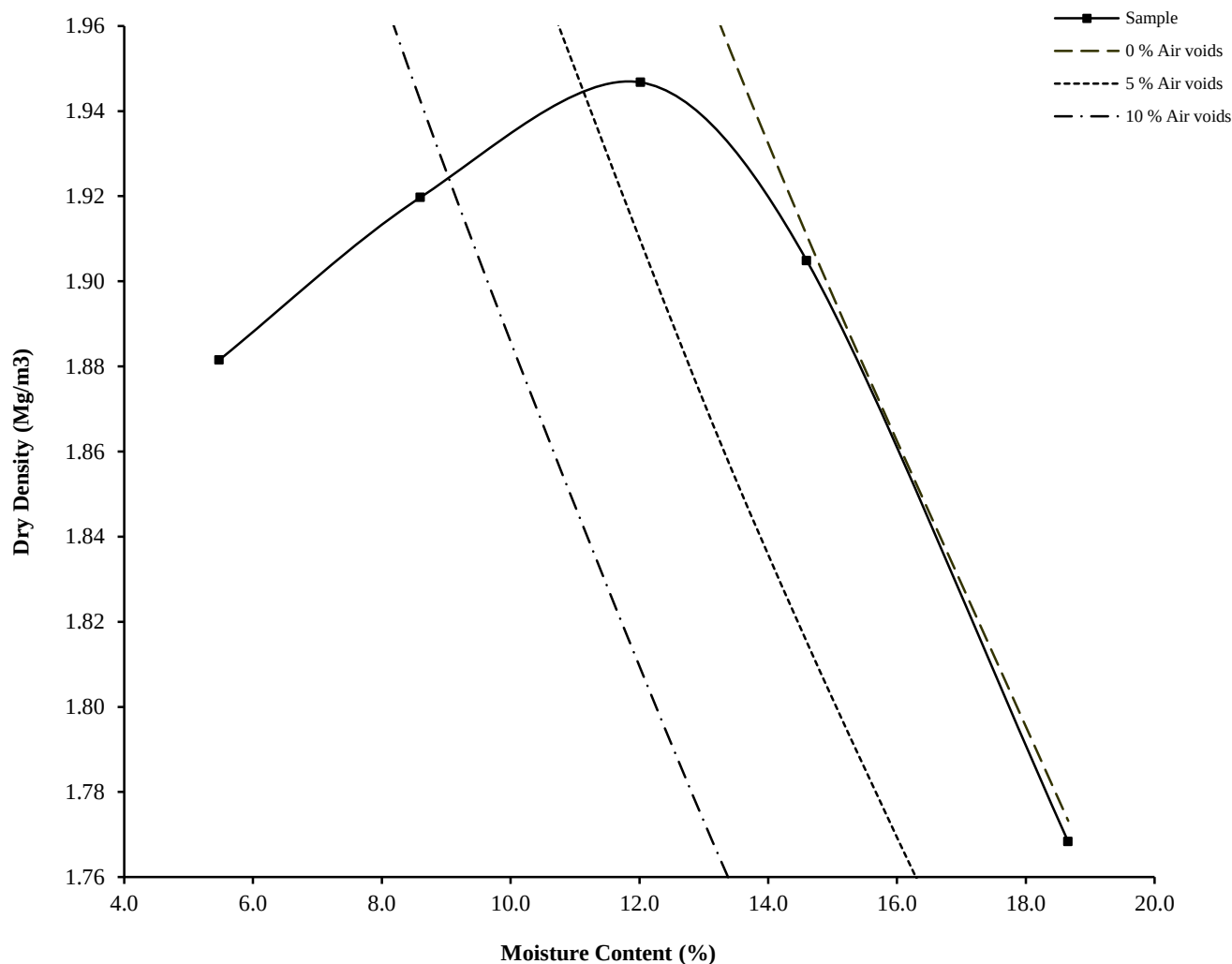
Hole Number: TP447

Top Depth (m) : 1.50

Sample Number: 1

Base Depth (m) :

Sample Type: B



Initial Moisture Content:	19	Method of Compaction:	4.5kg	Separate Samples
Particle Density (Mg/m ³):	2.65	Assumed	Material Retained on 37.5 mm Test Sieve (%):	7
Maximum Dry Density (Mg/m ³):	1.95		Material Retained on 20.0 mm Test Sieve (%):	6
Optimum Moisture Content (%):	12			
Remarks				
See summary of soil descriptions.				



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PSL19/0528
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Certificate of Analysis

Certificate Number 19-01449-1

21-Feb-19

Client Professional Soils Laboratory Ltd
5/7 Hexthorpe Road
Hexthorpe
DN4 0AR

Our Reference 19-01449-1

Client Reference PSL19/0528

Order No (not supplied)

Contract Title Westgate, Cleckheaton

Description 18 Soil samples.

Date Received 25-Jan-19

Date Started 25-Jan-19

Date Completed 21-Feb-19

Test Procedures Identified by prefix DETSn (details on request).

Notes This test supersedes 19-01449, extra testing.

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By REDACTED

Adam Fenwick
Contracts Manager



Summary of Chemical Analysis

Soil Samples

Our Ref 19-01449-1

Client Ref PSL19/0528

Contract Title Westgate, Cleckheaton

Lab No	1450416	1450417	1450418	1450419	1450420	1450421	1450422	1450423	1450424	1450425	1450426
Sample ID	TT428S	TP423	TP421	TP427	TP419	TP404	TP435	TP424	TP403	TP447	TP434
Depth	0.80	1.30	2.00	2.50	2.60	0.90	0.90	1.30	1.40	1.50	1.60
Other ID	3	3	2	4	3	2	2	2	2	1	2
Sample Type	D	D	D	D	D	D	D	D	D	D	D
Sampling Date	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units											
Metals														
Magnesium Aqueous Extract	DETSC 2076*	10	mg/l									12		
Inorganics														
pH	DETSC 2008#			7.3	7.2	7.0	7.5	6.5	7.2	7.3	6.3	5.3	7.5	6.8
Chloride Aqueous Extract	DETSC 2055	1	mg/l									6.3		
Nitrate Aqueous Extract as NO3	DETSC 2055	1	mg/l									< 1.0		
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	90	55	62	20	26	26	50	34	110	23	120

Summary of Chemical Analysis Soil Samples

Our Ref 19-01449-1

Client Ref PSL19/0528

Contract Title Westgate, Cleckheaton

Lab No	1450427	1450428	1450429	1450430	1450431	1450432	1450433
Sample ID	TP405	TP446	TP433	TP442	TP444	TT431	TP439
Depth	1.80	1.80	1.90	2.00	2.50	3.50	4.20
Other ID	2	3	2	4	5	4	5
Sample Type	D	D	D	D	D	D	D
Sampling Date	n/s	n/s	n/s	n/s	n/s	n/s	n/s
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units							
Metals										
Magnesium Aqueous Extract	DETSC 2076*	10	mg/l			13			< 10	< 10
Inorganics										
pH	DETSC 2008#			7.2	6.1	5.0	7.8	6.8	4.6	4.4
Chloride Aqueous Extract	DETSC 2055	1	mg/l			120			13	7.1
Nitrate Aqueous Extract as NO3	DETSC 2055	1	mg/l			23			1.5	< 1.0
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	15	790	200	720	17	530	380

Information in Support of the Analytical Results

Our Ref 19-01449-1
 Client Ref PSL19/0528
 Contract Westgate, Cleckheaton

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1450416	TT428S 0.80 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450417	TP423 1.30 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450418	TP421 2.00 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450419	TP427 2.50 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450420	TP419 2.60 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450421	TP404 0.90 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450422	TP435 0.90 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450423	TP424 1.30 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450424	TP403 1.40 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450425	TP447 1.50 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450426	TP434 1.60 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450427	TP405 1.80 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450428	TP446 1.80 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450429	TP433 1.90 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450430	TP442 2.00 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450431	TP444 2.50 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450432	TT431 3.50 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450433	TP439 4.20 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	

Key: P-Plastic T-Tub

DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Information in Support of the Analytical Results

Our Ref 19-01449-1
Client Ref PSL19/0528
Contract Westgate, Cleckheaton

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.
Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.
The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months



LABORATORY REPORT



4043

Contract Number: PSL20/5177

Report Date: 26 October 2020

Client's Reference: 3043

Client Name: Lithos Consulting
Parkhill
Walton Road
Wetherby
North Yorkshire
LS22 5DZ

For the attention of: Alex Potts/George Morton

Contract Title: Westgate, Cleckheaton

Date Received: 28/9/2020

Date Commenced: 28/9/2020

Date Completed: 26/10/2020

Notes: Opinions and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced other than in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

REDACTED

H Daniels
(Senior Technician)

A Watkins
(Director)

R Berriman
(Quality Manager)

S Royle
(Laboratory Manager)

S Eyre
(Senior Technician)

L Knight
(Senior Technician)

5 – 7 Hexthorpe Road, Hexthorpe,
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Page 1 of

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
BH508	2	D	2.00		Brown slightly gravelly sandy CLAY.
BH508	3	U	2.50		Stiff brown gravelly slightly sandy CLAY.
BH509	1	D	1.00		Brown slightly gravelly very sandy CLAY.
BH509	2	U	2.00		Firm brown gravelly sandy CLAY.
BH509	3	D	2.50		Brown mottled grey slightly gravelly sandy CLAY.
BH509	4	U	2.70		Firm gravelly slightly sandy CLAY.
TP506	5	D	2.30		Brown slightly gravelly sandy CLAY.
TP513	7	D	4.80		Brown mottled grey slightly gravelly sandy CLAY.
BH501	5	D&B	4.00		Grey very clayey SAND & GRAVEL.
TP504	3	D&B	1.00		MADE GROUND dark brown very sandy clayey gravel with cobbles.
TP508	3	D&B	0.40		MADE GROUND dark brown very sandy very clayey gravel with some cobbles.
TP511	2	D&B	0.80		MADE GROUND brown very sandy very clayey gravel.
TP514	4	D&B	1.00		MADE GROUND dark brown very sandy very clayey gravel with some cobbles and organic material.
TP517	3	D	0.90		Brown slightly gravelly sandy CLAY.
TP518	6	D	2.80		Brown gravelly sandy CLAY.



4043

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Professional Soils Laboratory

Westgate, Cleckheaton

Contract No:

PSL20/5177

Client Ref:

3043

SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377 : PART 2 : 1990)

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Moisture Content % Clause 3.2	Linear Shrinkage % Clause 6.5	Particle Density Mg/m ³ Clause 8.2	Liquid Limit % Clause 4.3/4	Plastic Limit % Clause 5.3	Plasticity Index % Clause 5.4	Passing .425mm %	Remarks
BH508	2	D	2.00		18			47	24	23	95	Intermediate plasticity CI.
BH509	1	D	1.00		26			33	17	16	97	Low plasticity CL.
BH509	3	D	2.50		22			34	18	16	97	Low plasticity CL.
TP506	5	D	2.30		13			37	19	18	90	Intermediate plasticity CI.
TP513	7	D	4.80		32			46	22	24	97	Intermediate plasticity CI.
BH501	5	D&B	4.00		33		2.35					
TP504	3	D&B	1.00		31		2.40					
TP508	3	D&B	0.40		21		2.41					
TP511	2	D&B	0.80		18		2.32					
TP514	4	D&B	1.00		61		2.40					
TP517	3	D	0.90		18			47	23	24	94	Intermediate plasticity CI.
TP518	6	D	2.80		14			34	17	17	83	Low plasticity CL.

SYMBOLS : NP : Non Plastic

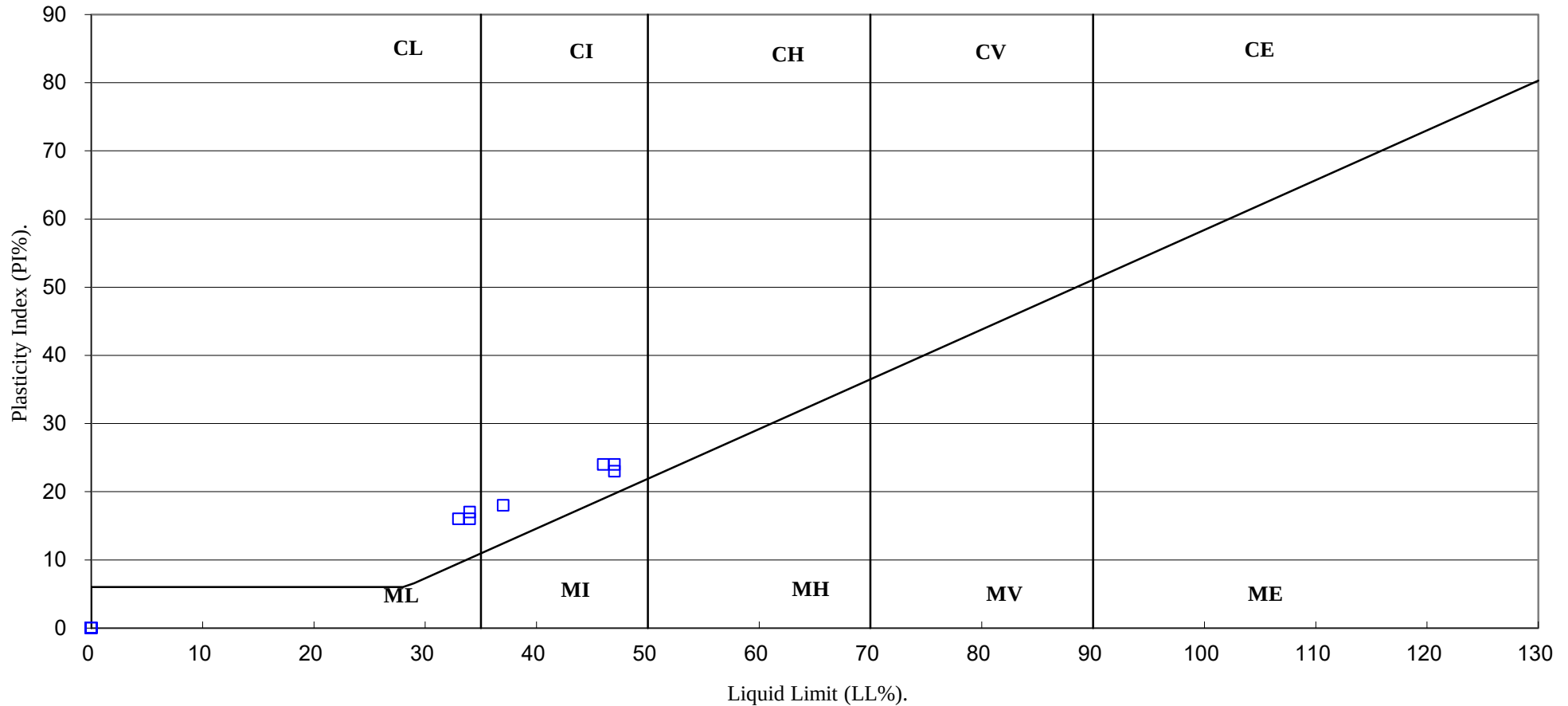
* : Liquid Limit and Plastic Limit Wet Sieved.



Westgate, Cleckheaton

Contract No:
PSL20/5177
Client Ref:
3043

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.



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Contract No:

PSL20/5177

Client Ref:

3043

ONE DIMENSIONAL CONSOLIDATION TEST

BS 1377: Part 5: 1990: Clause 3

Hole Number: BH508

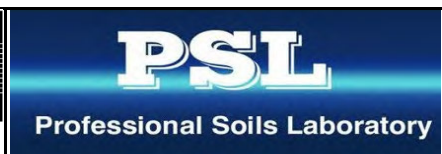
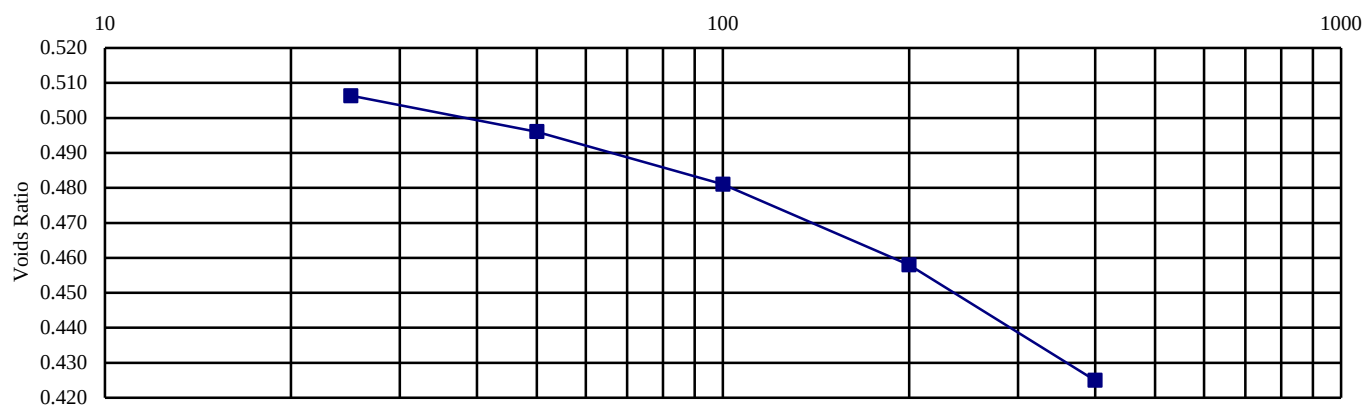
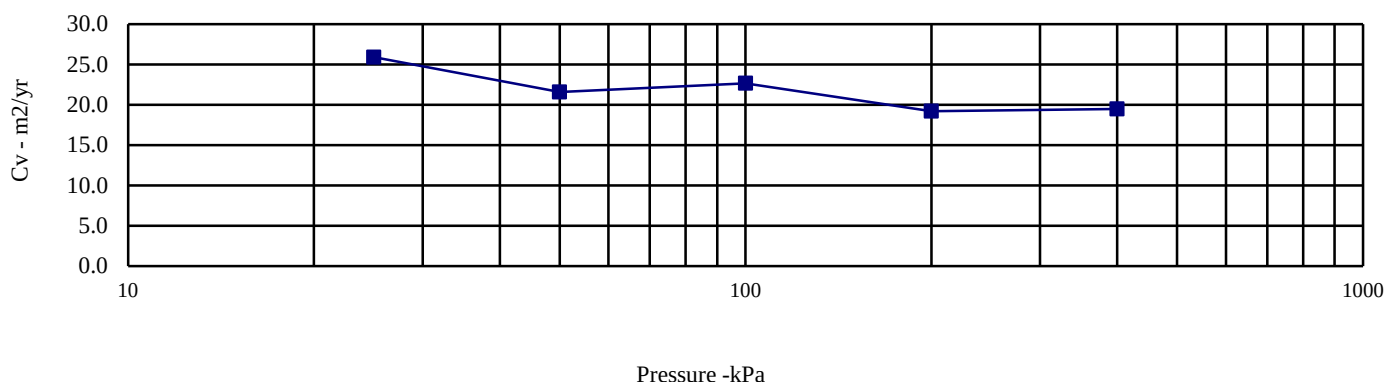
Top Depth (m): 2.50

Sample Number: 3

Base Depth (m) :

Sample Type: U

Initial Conditions		Pressure Range		Mv	Cv	Specimen location	
Moisture Content (%):	17	kPa		m2/MN	m2/yr	within tube:	Top
Bulk Density (Mg/m3):	2.05	0	25	0.313	25.901	Method used to	
Dry Density (Mg/m3):	1.75	25	50	0.273	21.563	determine CV:	T90
Voids Ratio:	0.518	50	100	0.200	22.669	Nominal temperature	
Degree of saturation:	88.0	100	200	0.156	19.193	during test ' C:	20
Height (mm):	20.054	200	400	0.113	19.477	Remarks:	See summary of soil descriptions
Diameter (mm)	75.015						
Particle Density (Mg/m3):	2.65						
Assumed							



Westgate, Cleckheaton

Contract No:

PSL20/5177

Client Ref:

3043

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 9

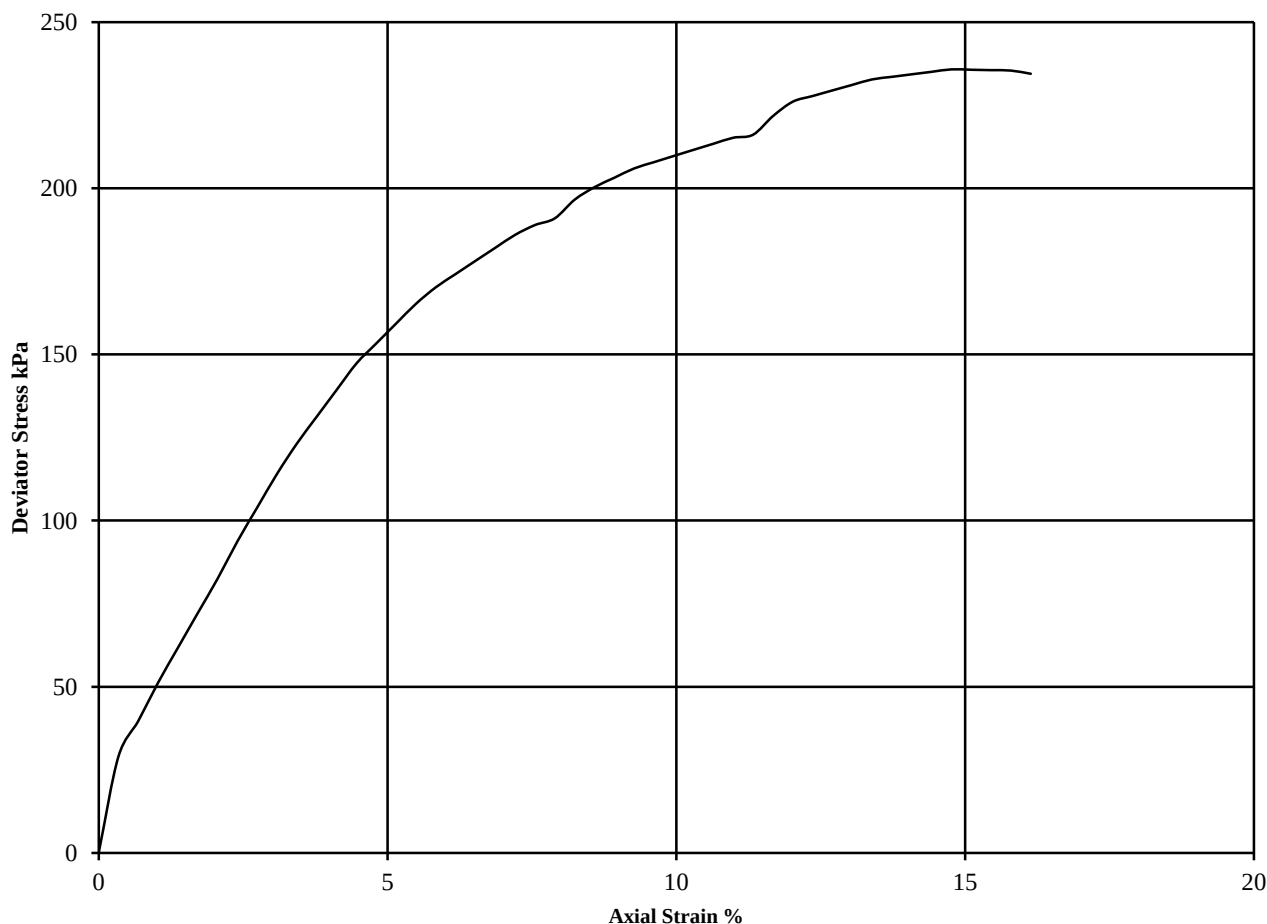
Hole Number: BH508

Top Depth (m): 2.50

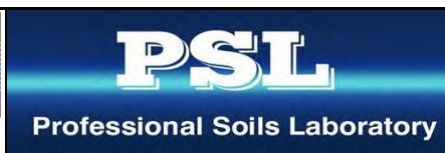
Sample Number: 3

Base Depth (m):

Sample Type U



Diameter (mm):		103	Height (mm):		150	Test:	UU Multistage		Remarks
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick Membrane Correction applied (kPa) 0.35 0.35 0.34 See summary of soil descriptions
	24	1.98	1.60	10	191	95	7.9		
				25	216	108	11.3		
				40	236	118	14.8	Intermediate	



Westgate, Cleckheaton

Contract No:

PSL20/5177

Client Ref:

3043

ONE DIMENSIONAL CONSOLIDATION TEST

BS 1377: Part 5: 1990: Clause 3

Hole Number: BH509

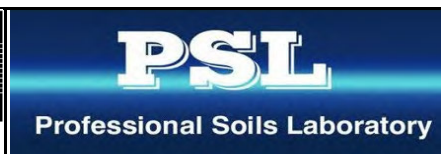
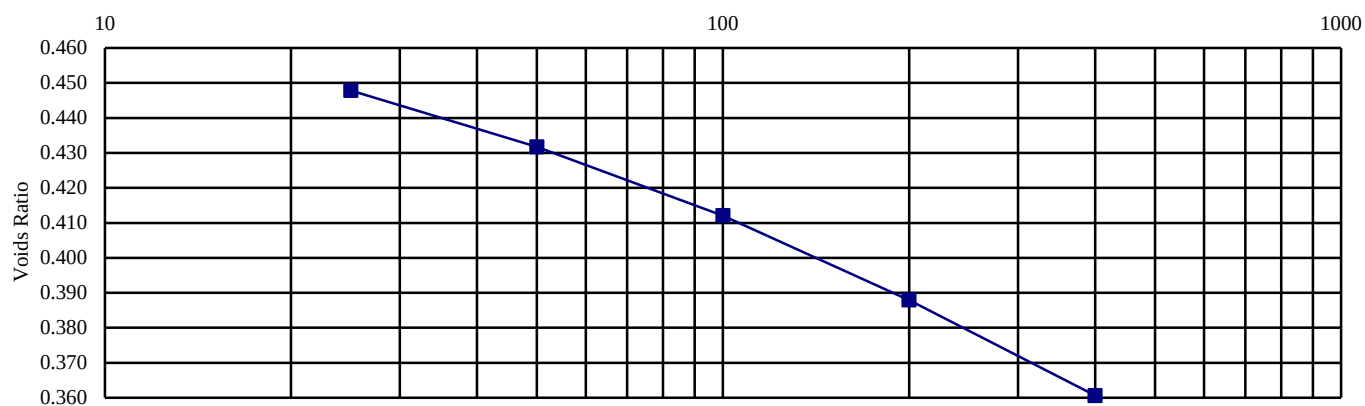
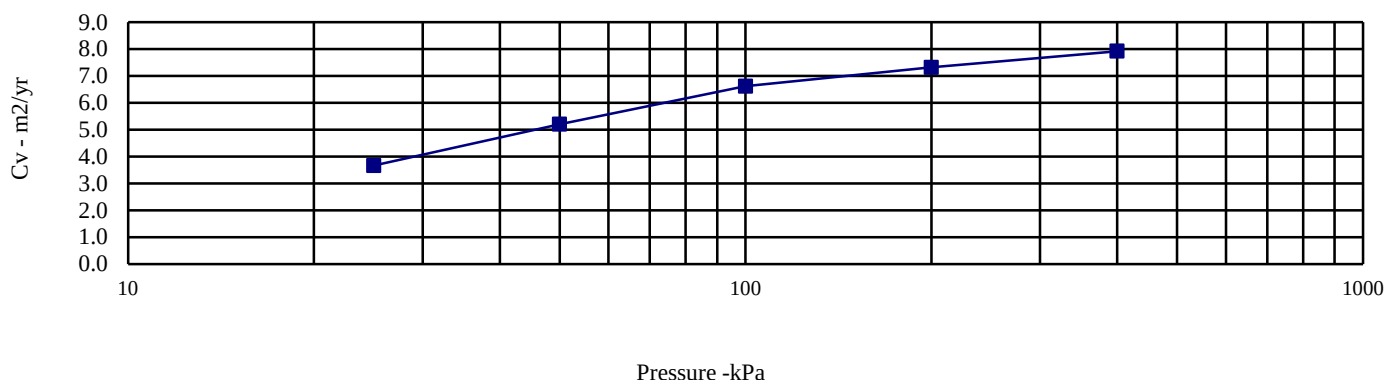
Top Depth (m): 2.00

Sample Number: 2

Base Depth (m) :

Sample Type: U

Initial Conditions		Pressure Range		Mv	Cv	Specimen location	
Moisture Content (%):	19	kPa		m2/MN	m2/yr	within tube:	Top
Bulk Density (Mg/m3):	2.13	0	25	0.822	3.659	Method used to	
Dry Density (Mg/m3):	1.79	25	50	0.445	5.195	determine CV:	T90
Voids Ratio:	0.478	50	100	0.274	6.615	Nominal temperature	
Degree of saturation:	105.0	100	200	0.171	7.315	during test ' C:	20
Height (mm):	20.01	200	400	0.098	7.919	Remarks:	
Diameter (mm)	75.003					See summary of soil descriptions	
Particle Density (Mg/m3):	2.65						
Assumed							



Westgate, Cleckheaton

Contract No:

PSL20/5177

Client Ref:

3043

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 9

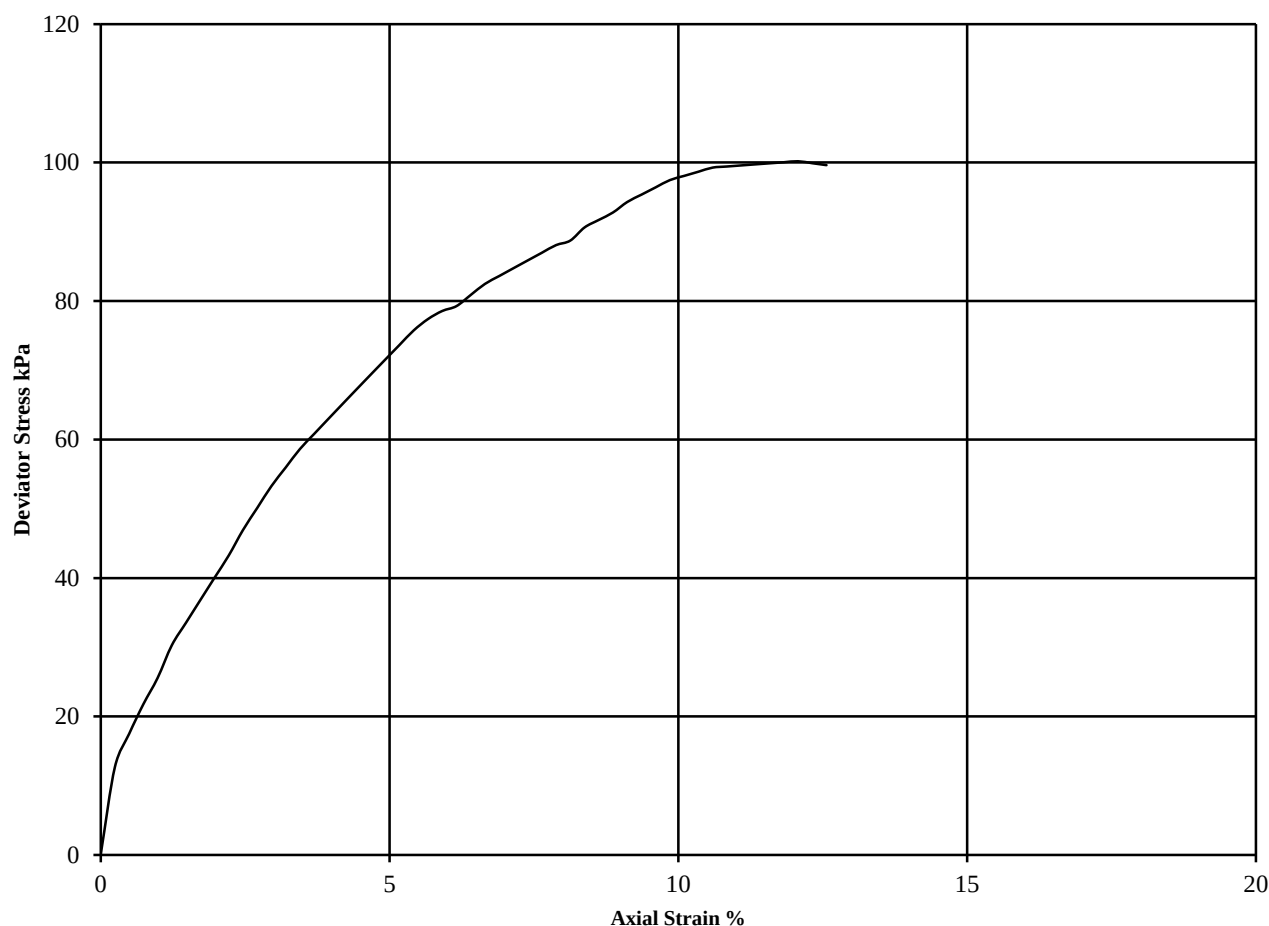
Hole Number: BH509

Top Depth (m): 2.00

Sample Number: 2

Base Depth (m):

Sample Type U



Diameter (mm):		102	Height (mm):		207	Test:	UU Multistage		Remarks
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick Membrane Correction applied (kPa) 0.36 0.36 0.35 See summary of soil descriptions
1	21	2.26	1.86	10	79	40	6.2		
				20	89	44	8.1		
				30	100	50	12.1	Intermediate	



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ONE DIMENSIONAL CONSOLIDATION TEST

BS 1377: Part 5: 1990: Clause 3

Hole Number: BH509

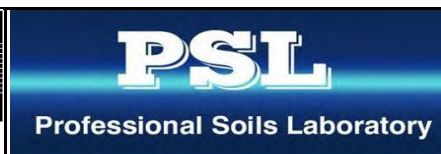
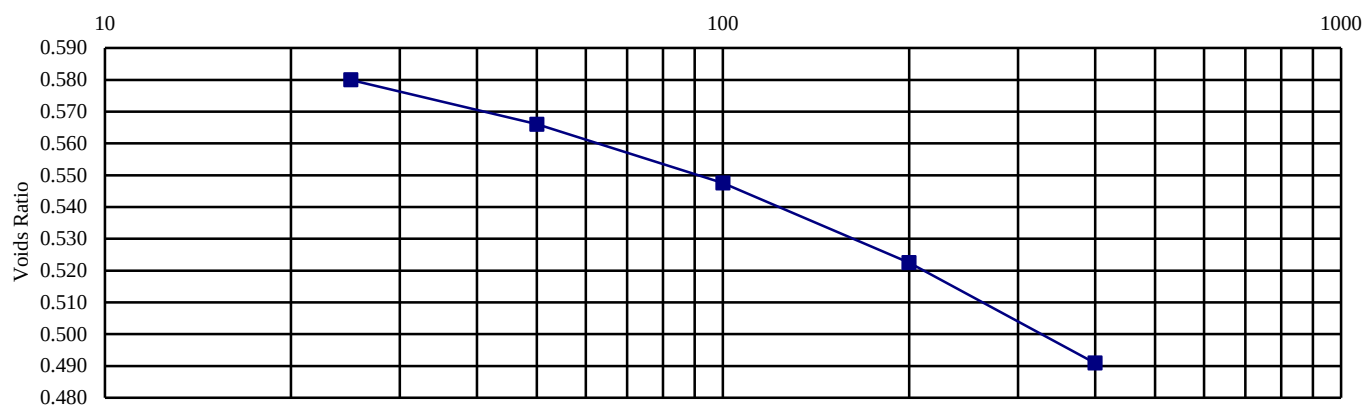
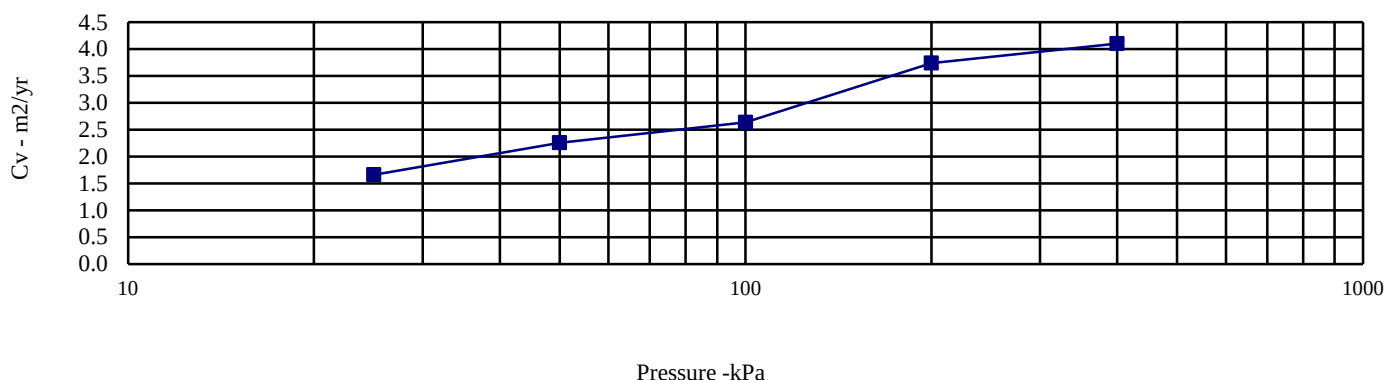
Top Depth (m): 2.70

Sample Number: 4

Base Depth (m) :

Sample Type: U

Initial Conditions		Pressure Range		Mv	Cv	Specimen location	
Moisture Content (%):	23	kPa		m2/MN	m2/yr	within tube:	Top
Bulk Density (Mg/m3):	2.03	0	25	0.637	1.661	Method used to	
Dry Density (Mg/m3):	1.65	25	50	0.353	2.257	determine CV:	T90
Voids Ratio:	0.606	50	100	0.236	2.634	Nominal temperature	
Degree of saturation:	100.9	100	200	0.162	3.739	during test ' C:	20
Height (mm):	20.036	200	400	0.104	4.099	Remarks:	
Diameter (mm)	75					See summary of soil descriptions	
Particle Density (Mg/m3):	2.65						
Assumed							



Westgate, Cleckheaton

Contract No:

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Client Ref:

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UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 9

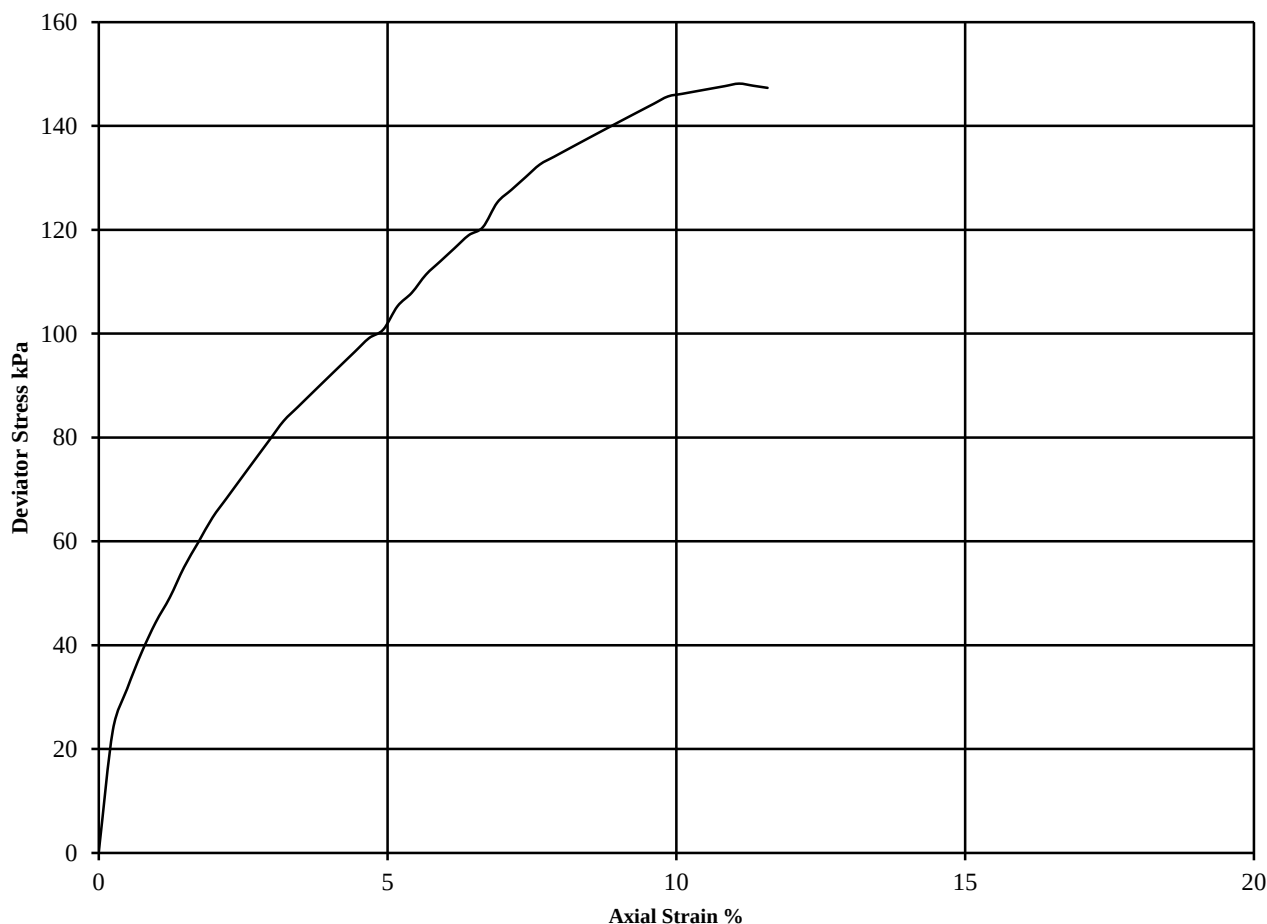
Hole Number: BH509

Top Depth (m): 2.70

Sample Number: 4

Base Depth (m):

Sample Type U



Diameter (mm):		102	Height (mm):		207	Test:	UU Multistage		Remarks
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick Membrane Correction applied (kPa) 0.36 0.36 0.35 See summary of soil descriptions
	23	0.41	0.33	15	101	50	4.9		
				30	121	60	6.7		
				45	148	74	11.1	Intermediate	



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PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

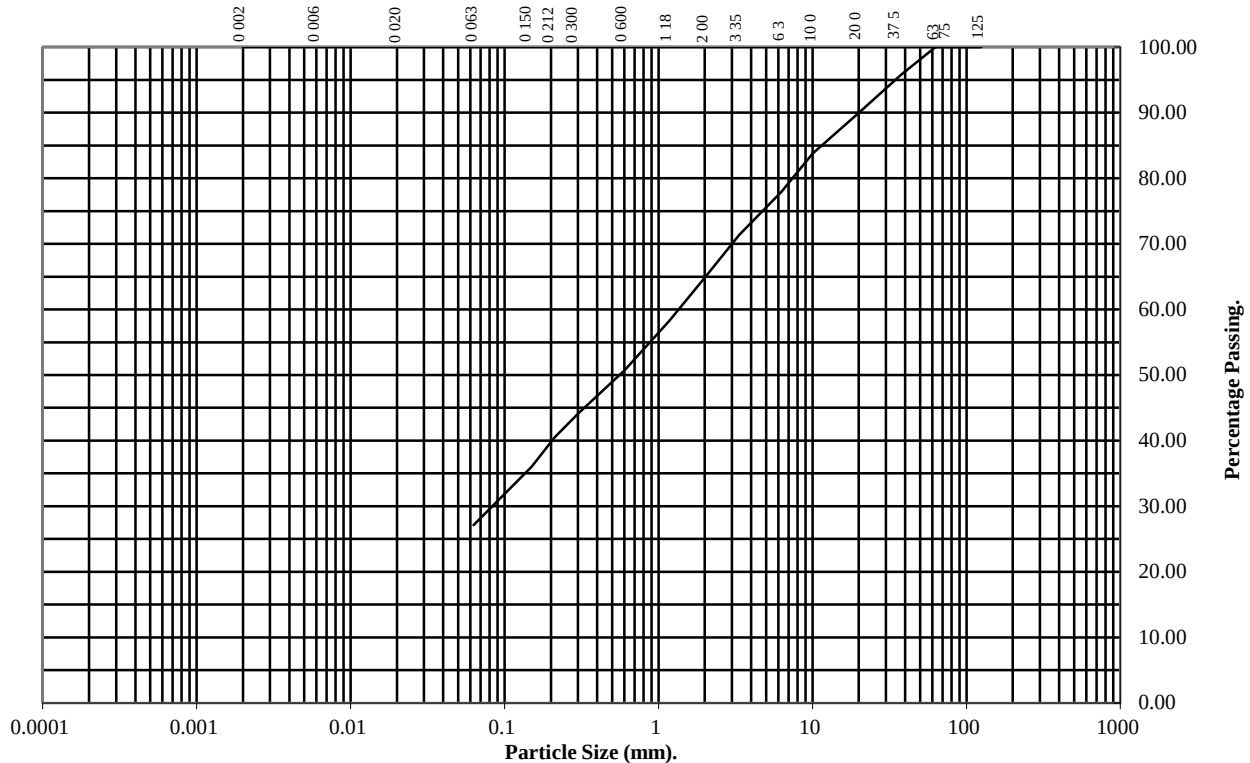
Hole Number: BH501

Top Depth (m): 4.00

Sample Number: 5

Base Depth(m):

Sample Type: D&B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	96
20	90
10	84
6.3	78
3.35	71
2	65
1.18	58
0.6	51
0.3	44
0.212	41
0.15	36
0.063	27

Soil Fraction	Total Percentage
Cobbles	0
Gravel	35
Sand	38
Silt/Clay	27

Remarks:

See Summary of Soil Descriptions



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DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.4 : 1990

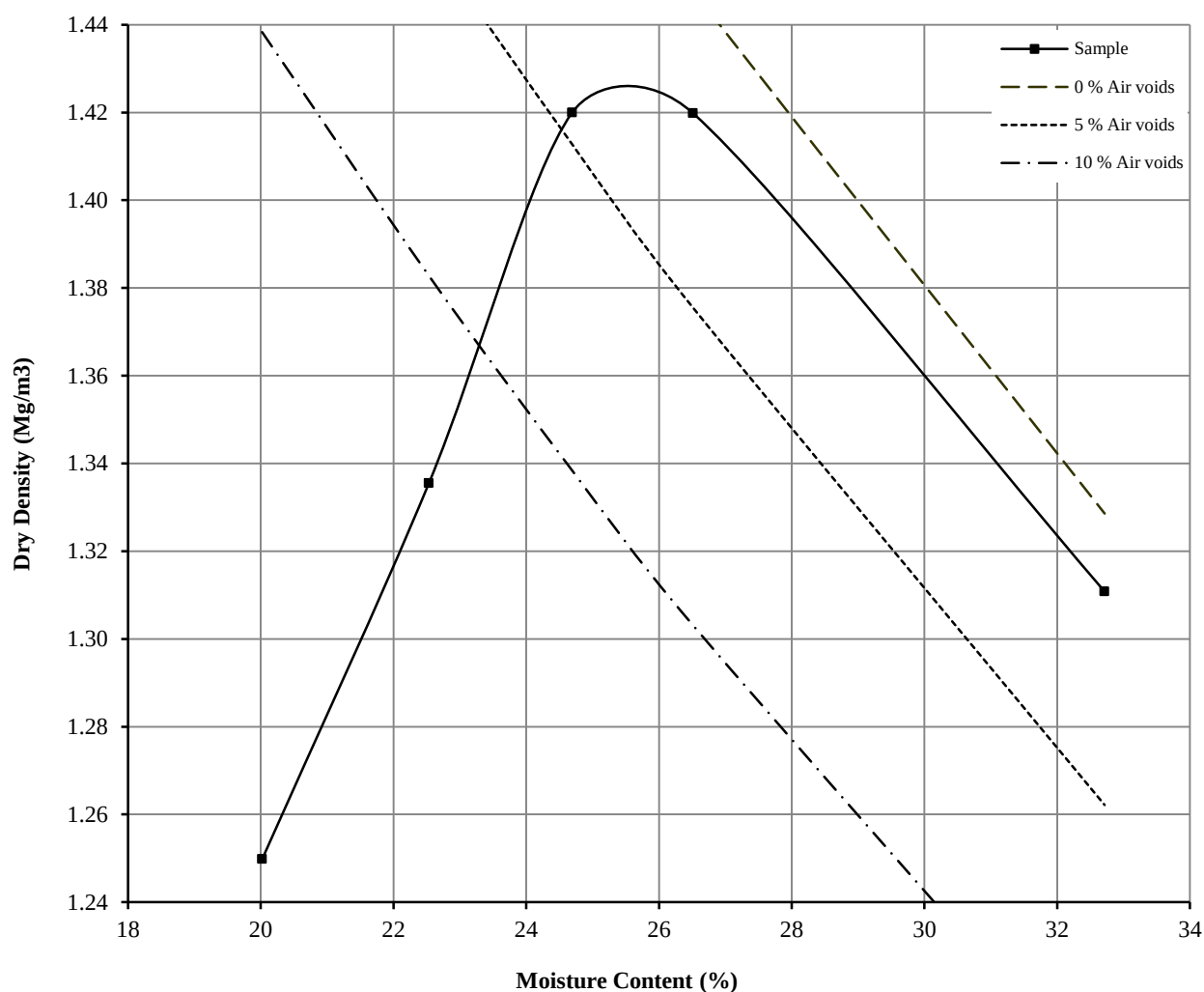
Hole Number: BH501

Top Depth (m) : 4.00

Sample Number: 5

Base Depth (m) :

Sample Type: D&B



Initial Moisture Content:	33	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m3):	2.35	Measured	Material Retained on 37.5 mm Test Sieve (%):	4
Maximum Dry Density (Mg/m3):	1.42		Material Retained on 20.0 mm Test Sieve (%):	6
Optimum Moisture Content (%):	25			
Remarks				
See summary of soil descriptions.				

		Westgate, Cleckheaton	Contract
			PSL20/5177
			Client Ref
			3043

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

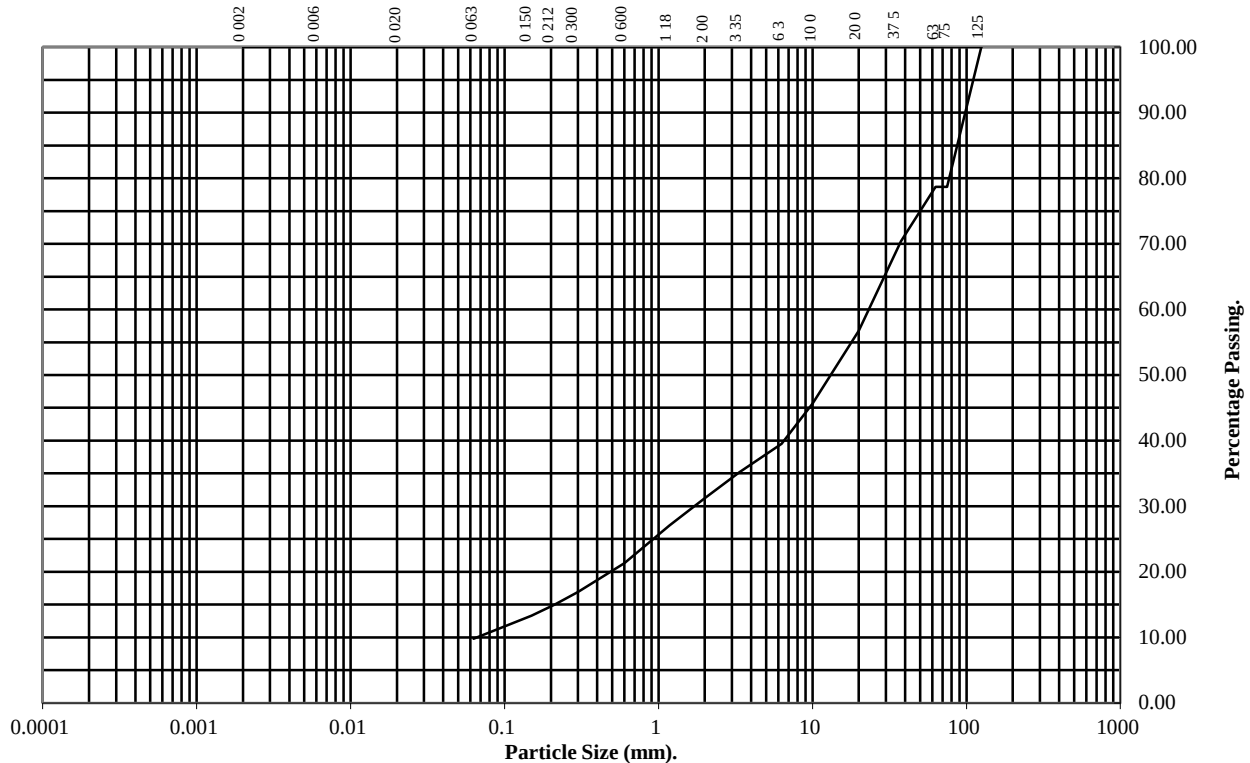
Hole Number: TP504

Top Depth (m): 1.00

Sample Number: 3

Base Depth(m):

Sample Type: D&B



BS Test Sieve (mm)	Percentage Passing
125	100
75	79
63	79
37.5	70
20	57
10	46
6.3	39
3.35	35
2	31
1.18	27
0.6	21
0.3	17
0.212	15
0.15	13
0.063	10

Soil Fraction	Total Percentage
Cobbles	21
Gravel	48
Sand	21
Silt/Clay	10

Remarks:

See Summary of Soil Descriptions



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DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

Non compliance with BS 1377 : Part 4 : Clause 3.4 : 1990

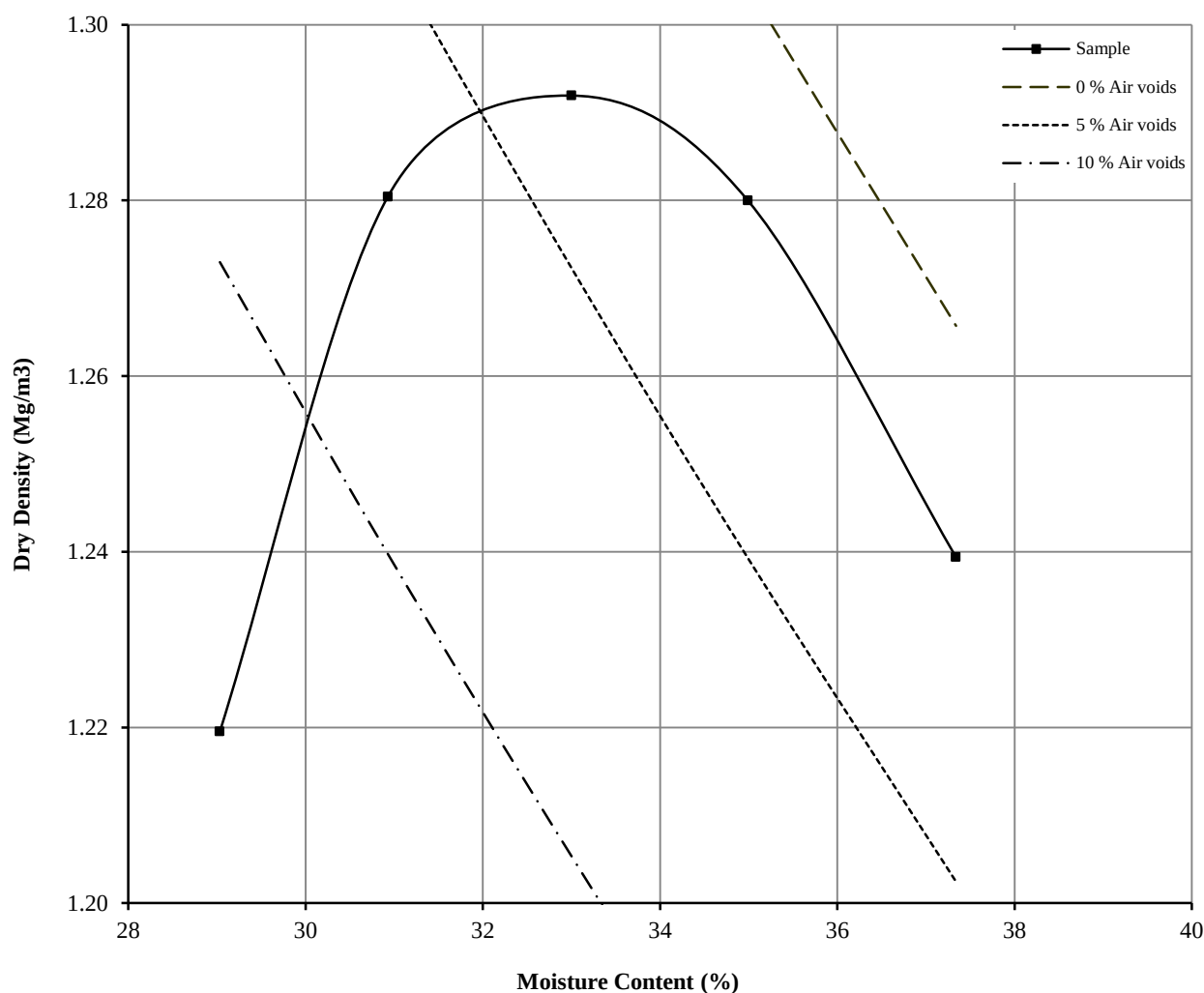
Hole Number: TP504

Top Depth (m) : 1.00

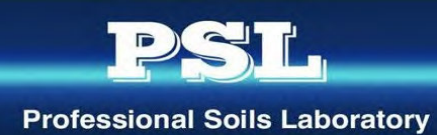
Sample Number: 3

Base Depth (m) :

Sample Type: D&B



Initial Moisture Content:	31	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m ³):	2.40	Measured	Material Retained on 37.5 mm Test Sieve (%):	30
Maximum Dry Density (Mg/m ³):	1.29		Material Retained on 20.0 mm Test Sieve (%):	13
Optimum Moisture Content (%):	33			
Remarks				
See summary of soil descriptions.				

		Westgate, Cleckheaton	Contract
			PSL20/5177
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			3043

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

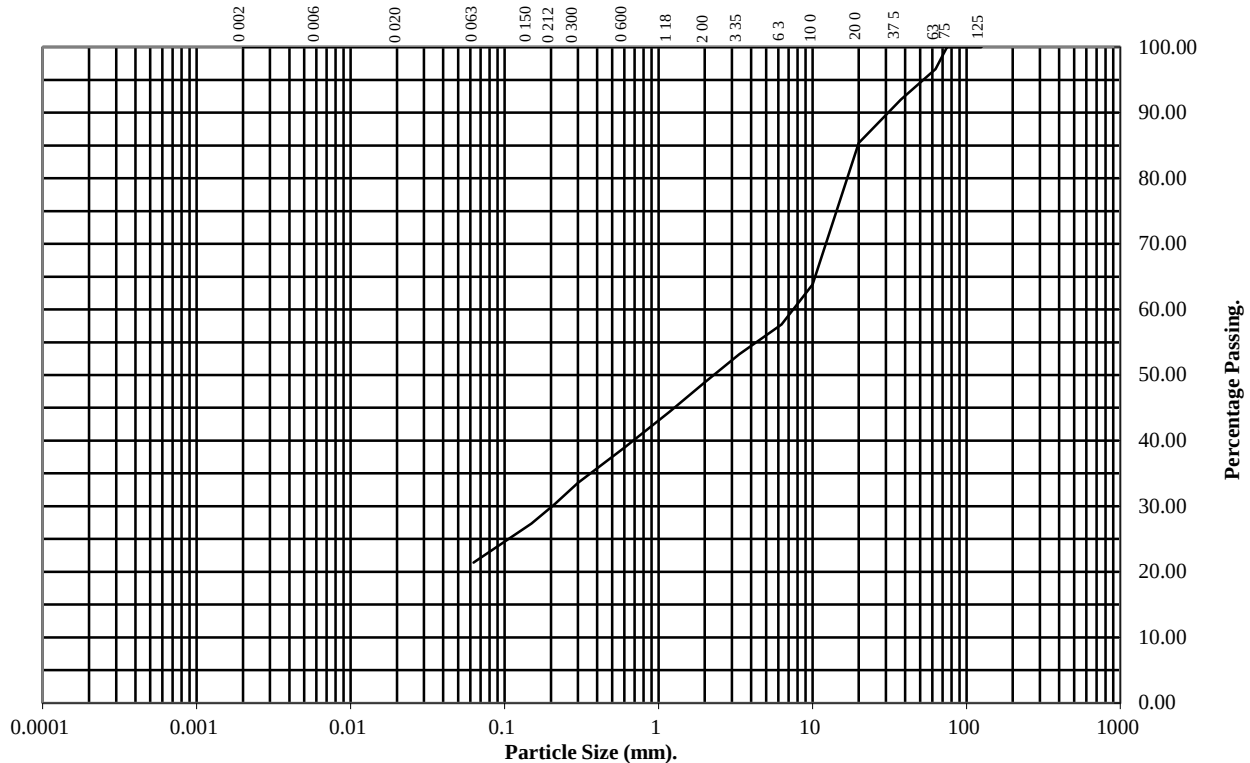
Hole Number: TP508

Top Depth (m): 0.40

Sample Number: 3

Base Depth(m):

Sample Type: D&B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	97
37.5	92
20	85
10	64
6.3	58
3.35	53
2	49
1.18	44
0.6	39
0.3	34
0.212	30
0.15	27
0.063	21

Soil Fraction	Total Percentage
Cobbles	3
Gravel	48
Sand	28
Silt/Clay	21

Remarks:

See Summary of Soil Descriptions



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DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.4 : 1990

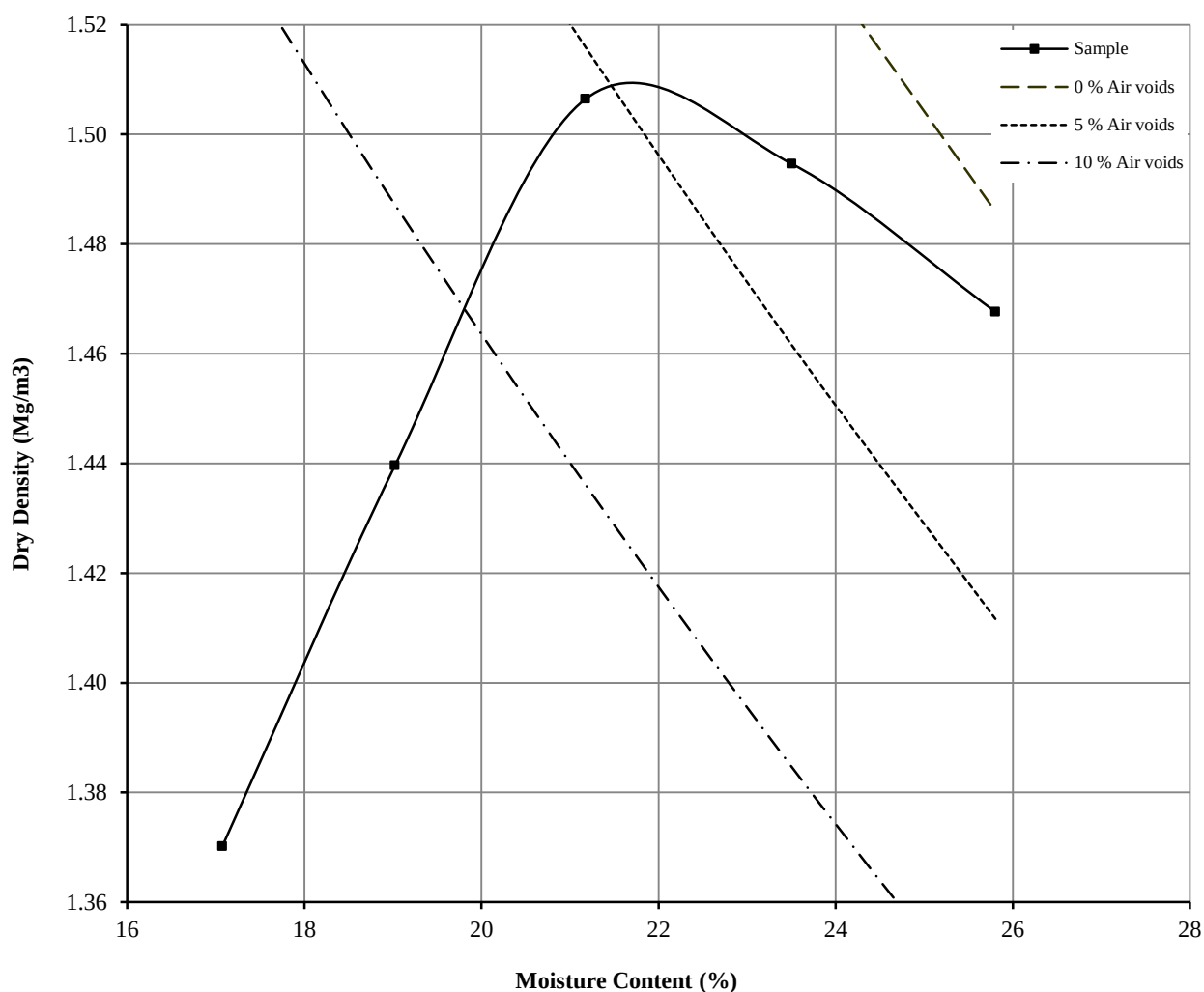
Hole Number: TP508

Top Depth (m) : 0.40

Sample Number: 3

Base Depth (m) :

Sample Type: D&B



Initial Moisture Content:	21	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m3):	2.41	Measured	Material Retained on 37.5 mm Test Sieve (%):	8
Maximum Dry Density (Mg/m3):	1.51		Material Retained on 20.0 mm Test Sieve (%):	7
Optimum Moisture Content (%):	21			
Remarks				
See summary of soil descriptions.				



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PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

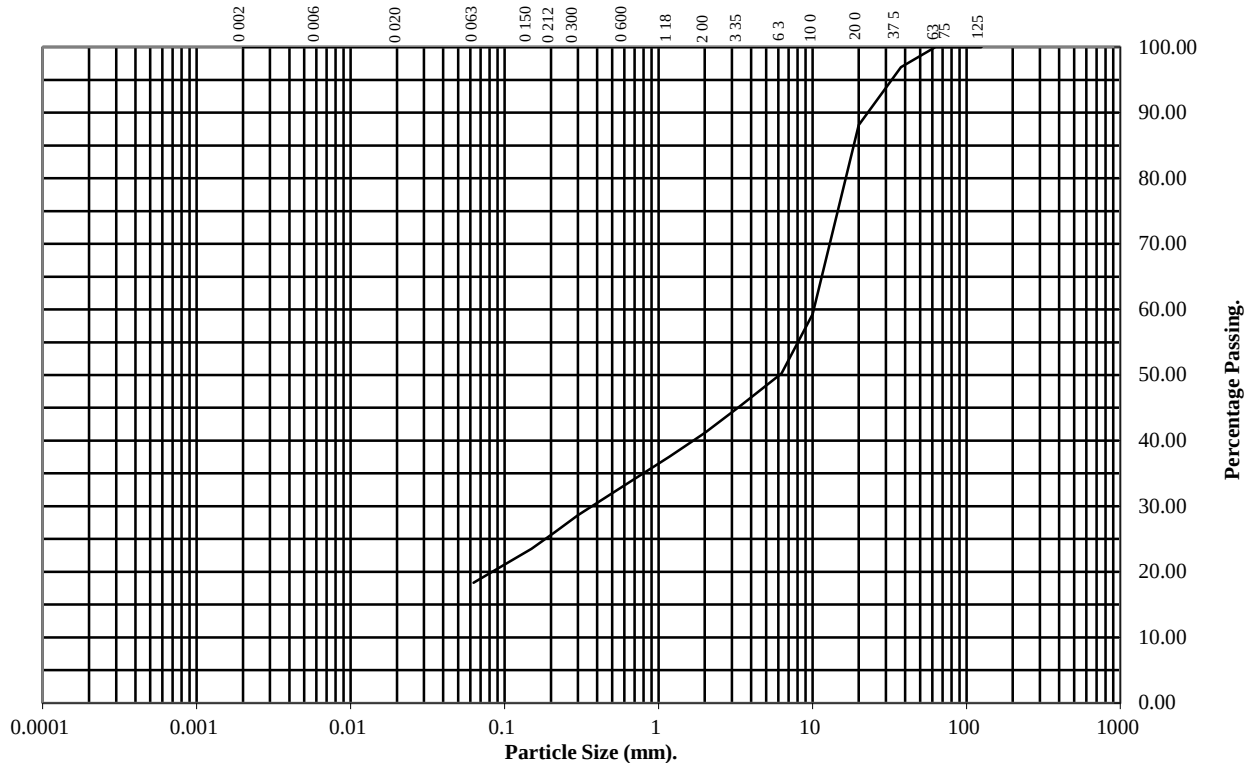
Hole Number: TP511

Top Depth (m): 0.80

Sample Number: 2

Base Depth(m):

Sample Type: D&B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	97
20	88
10	59
6.3	50
3.35	45
2	41
1.18	38
0.6	33
0.3	29
0.212	26
0.15	23
0.063	18

Soil Fraction	Total Percentage
Cobbles	0
Gravel	59
Sand	23
Silt/Clay	18

Remarks:

See Summary of Soil Descriptions



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DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.4 : 1990

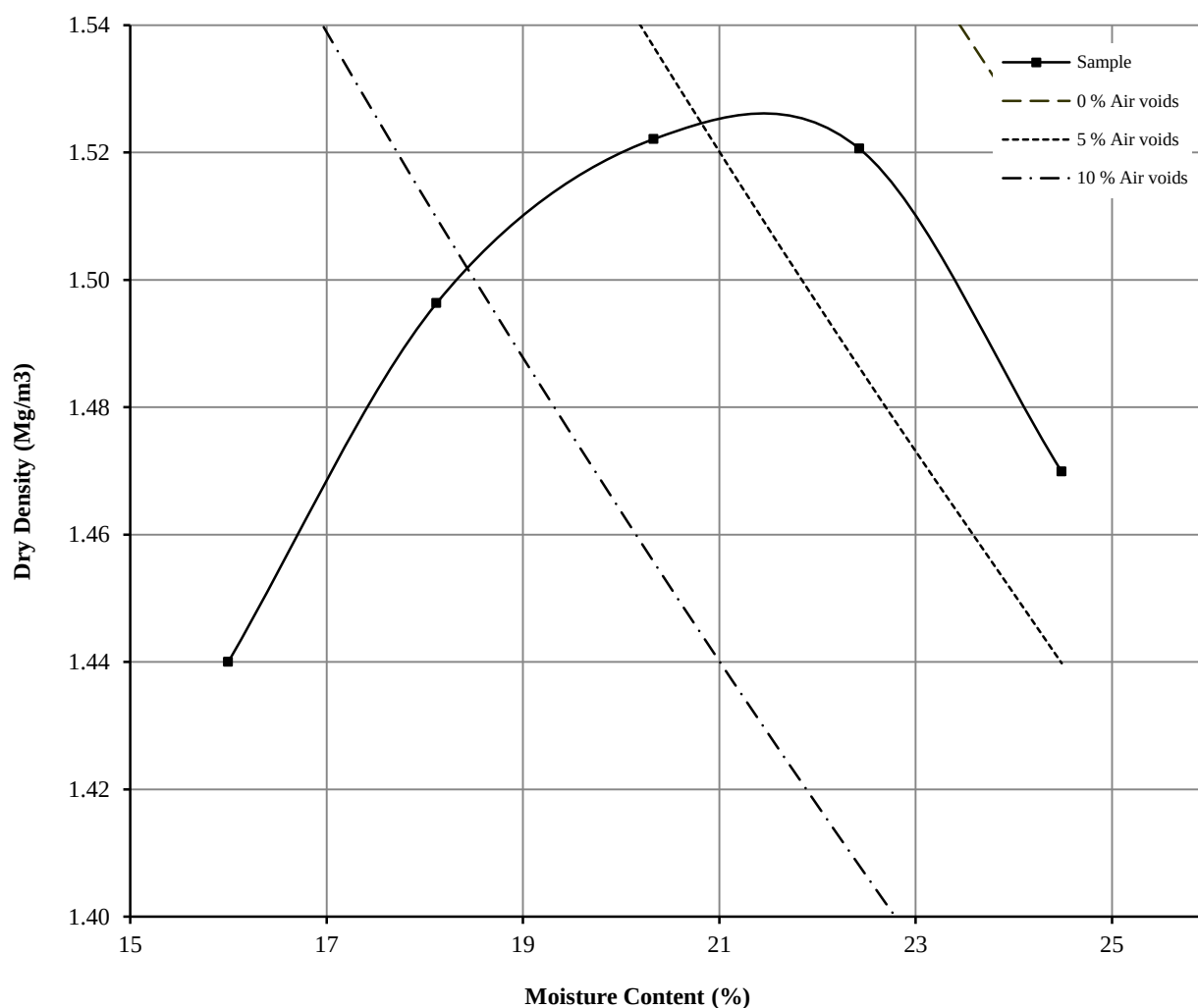
Hole Number: TP511

Top Depth (m) : 0.80

Sample Number: 2

Base Depth (m) :

Sample Type: D&B



Initial Moisture Content:	18	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m ³):	2.41	Measured	Material Retained on 37.5 mm Test Sieve (%):	3
Maximum Dry Density (Mg/m ³):	1.52		Material Retained on 20.0 mm Test Sieve (%):	9
Optimum Moisture Content (%):	20			
Remarks				
See summary of soil descriptions.				



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PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

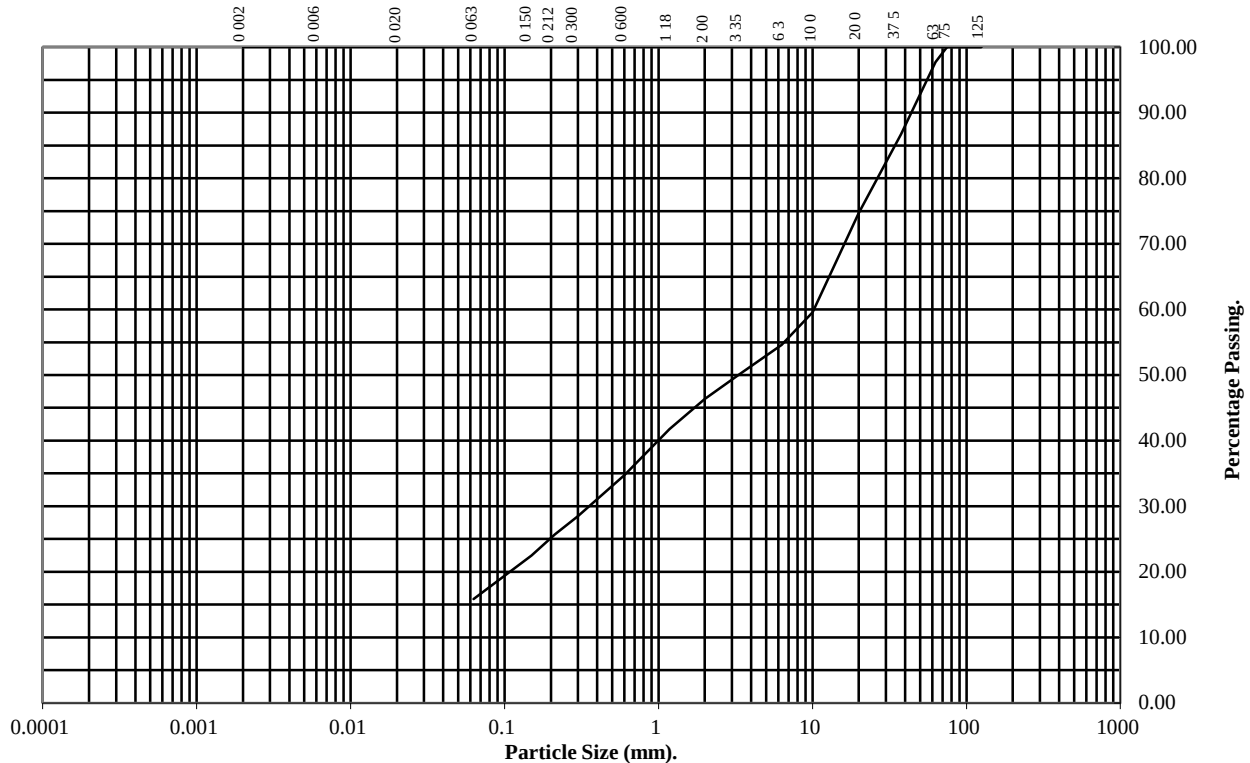
Hole Number: TP514

Top Depth (m): 1.00

Sample Number: 4

Base Depth(m):

Sample Type: D&B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	98
37.5	87
20	75
10	60
6.3	55
3.35	50
2	46
1.18	42
0.6	35
0.3	28
0.212	26
0.15	22
0.063	16

Soil Fraction	Total Percentage
Cobbles	2
Gravel	52
Sand	30
Silt/Clay	16

Remarks:

See Summary of Soil Descriptions



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DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

Non compliance with BS 1377 : Part 4 : Clause 3.4 : 1990

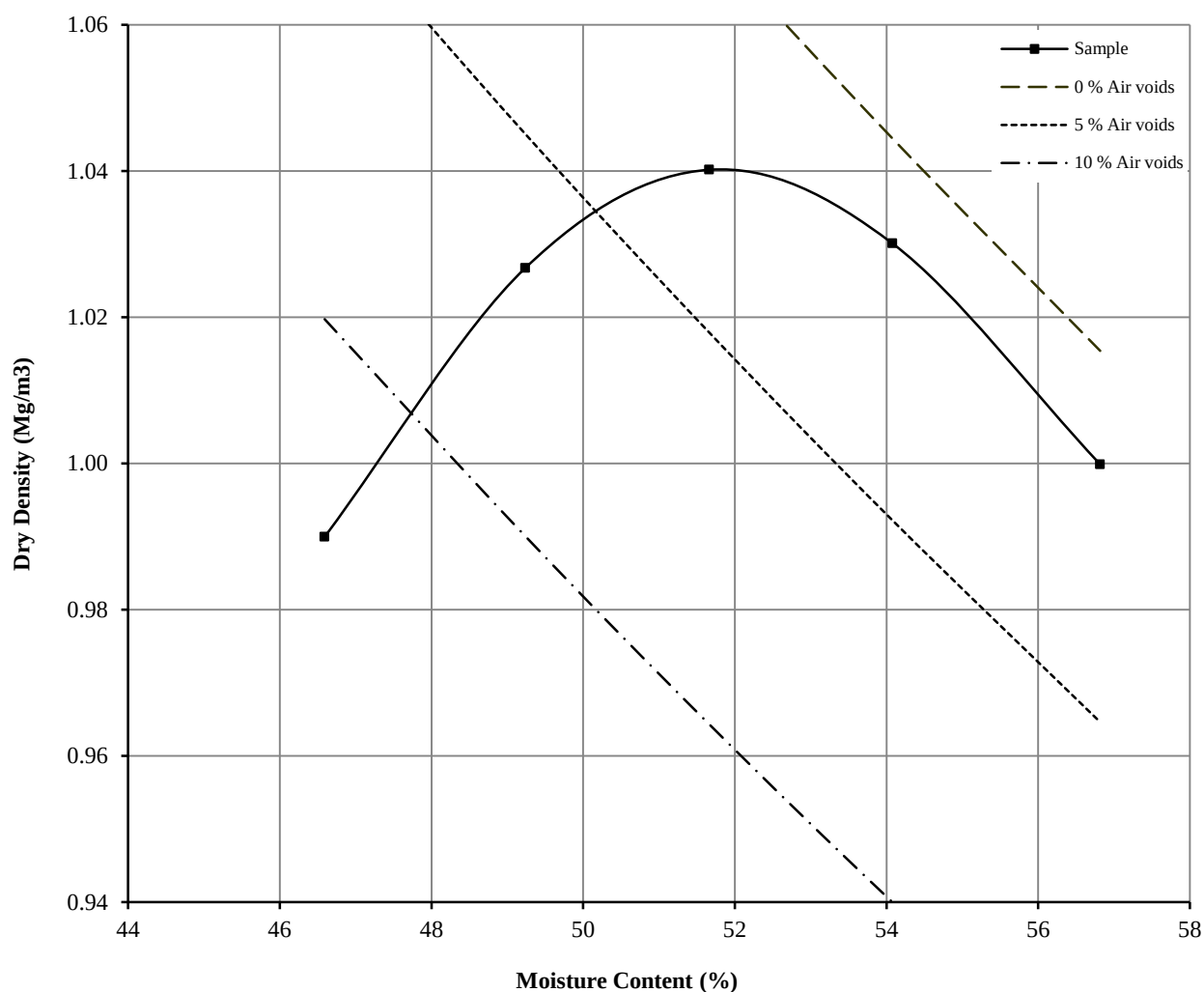
Hole Number: TP514

Top Depth (m) : 1.00

Sample Number: 4

Base Depth (m) :

Sample Type: D&B



Initial Moisture Content:	61	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m ³):	2.40	Measured	Material Retained on 37.5 mm Test Sieve (%):	13
Maximum Dry Density (Mg/m ³):	1.04		Material Retained on 20.0 mm Test Sieve (%):	12
Optimum Moisture Content (%):	52			
Remarks				
See summary of soil descriptions.				



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Certificate of Analysis

Certificate Number 20-19313

08-Oct-20

Client Professional Soils Laboratory Ltd
5/7 Hexthorpe Road
Hexthorpe
DN4 0AR

Our Reference 20-19313

Client Reference PSL20/5177

Order No (not supplied)

Contract Title Westgate, Cleckheaton

Description 11 Soil samples.

Date Received 02-Oct-20

Date Started 02-Oct-20

Date Completed 08-Oct-20

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By **REDACTED**

Adam Fenwick
Contracts Manager



Summary of Chemical Analysis

Soil Samples

Our Ref 20-19313

Client Ref PSL20/5177

Contract Title Westgate, Cleckheaton

Lab No	1737087	1737088	1737089	1737090	1737091	1737092	1737093	1737094	1737095	1737096	1737097
Sample ID	BH508	BH509	BH509	BH503	BH503	BH505	BH506	BH507	BH508	TP506	TP513
Depth	2.00	1.00	2.50	2.00	6.00	7.50	7.50	1.00	1.00	2.30	4.80
Other ID	2	1	3	2	6	7	6	1	1	5	7
Sample Type	D	D	D	D	D	D	D	D	D	D	D
Sampling Date	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units											
Inorganics														
pH	DETSC 2008#		pH	6.2	7.0	7.2	7.8	7.7	7.1	3.5	8.5	7.4	4.6	3.2
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	72	56	41	180	230	710	180	51	75	1400	3200

Information in Support of the Analytical Results

Our Ref 20-19313
 Client Ref PSL20/5177
 Contract Westgate, Cleckheaton

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1737087	BH508 2.00 SOIL		PT 1L	Sample date not supplied, Anions 2:1 (30 days), pH + Conductivity (7 days)	
1737088	BH509 1.00 SOIL		PT 1L	Sample date not supplied, Anions 2:1 (30 days), pH + Conductivity (7 days)	
1737089	BH509 2.50 SOIL		PT 1L	Sample date not supplied, Anions 2:1 (30 days), pH + Conductivity (7 days)	
1737090	BH503 2.00 SOIL		PT 1L	Sample date not supplied, Anions 2:1 (30 days), pH + Conductivity (7 days)	
1737091	BH503 6.00 SOIL		PT 1L	Sample date not supplied, Anions 2:1 (30 days), pH + Conductivity (7 days)	
1737092	BH505 7.50 SOIL		PT 1L	Sample date not supplied, Anions 2:1 (30 days), pH + Conductivity (7 days)	
1737093	BH506 7.50 SOIL		PT 1L	Sample date not supplied, Anions 2:1 (30 days), pH + Conductivity (7 days)	
1737094	BH507 1.00 SOIL		PT 1L	Sample date not supplied, Anions 2:1 (30 days), pH + Conductivity (7 days)	
1737095	BH508 1.00 SOIL		PT 1L	Sample date not supplied, Anions 2:1 (30 days), pH + Conductivity (7 days)	
1737096	TP506 2.30 SOIL		PT 1L	Sample date not supplied, Anions 2:1 (30 days), pH + Conductivity (7 days)	
1737097	TP513 4.80 SOIL		PT 1L	Sample date not supplied, Anions 2:1 (30 days), pH + Conductivity (7 days)	

Key: P-Plastic T-Tub

DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.

Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.

The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

End of Report

Appendix K
Gas Monitoring Results

Visit 1

Job Title:

Westgate, Cleckheaton

Client:

Strata Homes

Date:

09/10/2020

Arrival Time:

09:57

Depart Time:

17:18

Operator:

Lander Latta

Job No:

3043

Sheet :

1 of 5



Gas Monitoring Results:

Ambient Concentration (% Volume):

CH₄:

ND

CO₂:

ND

O₂:

20.3

Monitoring Point	Groundwater level	Concentrations					Gas Flow Rates			Bottom of well	Remarks
		Initial / Highest		Steady concentrations		Lowest concn	Initial / Maximum	Steady	Time to fall from highest to steady		
		CH ₄	CO ₂	CH ₄	CO ₂	O ₂					
		% v/v	(%)	% v/v	(%)	(%)					
	(m) bgl	% v/v	(%)	% v/v	(%)	(%)	litre/hr	litre/hr	secs	m	
BH501	4.57	ND	0.2	ND	0.2	20.7	ND	ND	ND	10.03	Bung out on arrival. Replaced at 11:41. Monitored at 15:43.
BH502	4.42	ND	11.4	ND	11.4	10.8	ND	ND	ND	8.97	
BH503	8.59	ND	14.8	ND	14.8	0.9	ND	ND	ND	8.73	
BH504	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Could not find. Maybe under Lorries.
BH505	8.52	ND	0.9	ND	0.9	20.1	ND	ND	ND	8.96	
BH506	6.80	ND	ND	ND	ND	21.5	ND	ND	ND	8.82	Bung out on arrival. Replaced at 11:06. Monitored at 15:30.
BH507	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Bung Missing. Well flooded. Will bail next time.
BH508	0.69	ND	0.7	ND	0.7	19.5	ND	ND	ND	2.83	Bailed at 16:18 to 2.56m (7l). Remonitored at 17:05. Valve missing. Insterted at 12:35. Monitored at 16:18.
BH509	0.95	ND	ND	ND	ND	21.5	ND	ND	ND	2.96	Bailed at 16:27 to 1.97m (10l). Remonitored at 17:09. Bung out on arrival. Replaced at 12:50. Monitored at 16:23.
PH501	5.12	ND	ND	ND	ND	21.2	ND	ND	ND	8.57	Bailer would not fit down the well past 5/6m. Bung out on arrival. Replaced at 14:02. Monitored at 16:52.
PH502	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Well Destroyed.
PH505	ND	ND	4.0	ND	4.0	10.2	ND	ND	ND	5.45	Bung out on arrival. Replaced at 14:05. Monitored at 16:47.
PH506	ND	ND	ND	ND	ND	21.2	ND	ND	ND	5.71	Bung out on arrival. Replaced at 14:26. Monitored at 16:43.
PH507	ND	ND	2.8	ND	2.8	18.1	ND	ND	ND	5.43	Bung out on arrival. Replaced at 14:37. Monitored at 16:41.
PH508	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Could not find. Maybe under Lorries.
PH509	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
PH510	ND	ND	3.1	ND	3.1	17.2	ND	ND	ND	5.19	Bung out on arrival. Replaced at 14:46. Monitored at 16:35.
PH511	ND	ND	10.4	ND	10.4	10.9	ND	ND	ND	5.18	
PH512	4.04	ND	0.8	ND	0.8	18.7	ND	ND	ND	4.13	
PH513	4.17	ND	3.3	ND	3.3	16.0	ND	ND	ND	8.62	Bailed at 10:27 to 6.28m (20l)
PH514	ND	ND	3.9	ND	3.9	17.1	ND	ND	ND	5.90	
PH515	5.00	2.0	17.9	2.0	17.9	2.1	ND	ND	ND	9.02	Bailed at 11:26 to 7.18m (15l). LEL Rose to 45.5
PH516	4.86	ND	4.4	ND	4.4	14.7	ND	ND	ND	5.69	Bailed at 12:12 to 4.82m (7l)
PH517	ND	ND	5.7	ND	5.7	13.3	ND	ND	ND	4.38	
PH518	5.80	ND	9.0	ND	9.0	7.3	ND	ND	ND	7.54	Bailed at 12:03 to 6.71m (7l)
PH519	1.84	ND	14.8	ND	14.8	14.8	ND	ND	ND	3.03	Bung out and top hat off on arrival. Replaced at 12:25. Monitored at 15:53.
PH520	2.37	ND	ND	ND	ND	21.3	6.7	ND	15.0	7.43	Bailed at 16:05 to 2.37m (15l). Fast recharge. Bung out and top hat off on arrival. Replaced at 12:30. Monitored at 16:00.

Equipment Used:

Gas Data GFM436 Infrared Gas Analyser
Geotechnical Instruments Dipmeter

Next Calibration Date

22/02/2021

Key

ND
NR
1.0
5.0
10.0

None Detected
Not Recorded
Recorded value does not breach trigger levels
Recorded value breaches trigger level 1
Recorded value breaches trigger level 2

	Site Data:			Weather Station Data (Bailiff Bridge Station)										
	Temp (°C):	8 to 11		Barometric Pressure Trend:			Falling the rising							
Time:	09:57	15:56	17:18	00:04	05:59	09:59	15:54	17:19	19:59	Trigger level 1	1.0	5.0	16.0	
Pressure (mb):	999	998	998	1018	1015	1016	1016	1017	1018	Trigger level 2	5.0	10.0	10.0	
	Weather Conditions:		Cloudy											
	Surface Ground Conditions:		Dry											
Remarks:														

Visit 1

23/11/2020

Visit 1 Bailed

Job Title:

Westgate, Cleckheaton

Client:

Strata Homes

Date:09/10/2020

Arrival Time:09:57

Depart Time:17:18

Operator:Lander Latta

Job No:

3043

Sheet :

2 of 5

LITHOSCONSULTING

Gas Monitoring Results:

Ambient Concentration (% Volume):CH₄:NDCO₂:ND O₂:20.3

Monitoring Point	Groundwater level (m) bgl	Concentrations					Gas Flow Rates			Bottom of well m	Remarks
		Initial / Highest		Steady concentrations		Lowest concn	Initial / Maximum litre/hr	Steady litre/hr	Time to fall from highest to steady secs		
		CH ₄	CO ₂	CH ₄	CO ₂	O ₂					
		% v/v	(%)	% v/v	(%)	(%)					
BH501	4.57	ND	0.2	ND	0.2	20.7	ND	ND	ND	10.03	Bung out on arrival. Replaced at 11:41. Monitored at 15:43.
BH502	4.42	ND	11.4	ND	11.4	10.8	ND	ND	ND	8.97	Could not find. Maybe under Lorries.
BH503	8.59	ND	14.8	ND	14.8	0.9	ND	ND	ND	8.73	
BH504	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Could not find. Maybe under Lorries.
BH505	8.52	ND	0.9	ND	0.9	20.1	ND	ND	ND	8.96	
BH506	6.80	ND	ND	ND	ND	21.5	ND	ND	ND	8.82	Bung out on arrival. Replaced at 11:06. Monitored at 15:30.
BH507	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Bung Missing. Well flooded. Will bail next time.
BH508	1.00	ND	ND	ND	ND	21.6	ND	ND	ND	2.93	Bailed at 16:18 to 2.56m (7l). Remonitored at 17:05. Valve missing. Insterted at 12:35. Monitored at 16:18.
BH509	0.83	ND	0.7	ND	0.7	20.4	115.0	ND	200.0	2.96	Bailed at 16:27 to 1.97m (10l). Remonitored at 17:09. Bung out on arrival. Replaced at 12:50. Monitored at 16:23.
PH501	5.12	ND	ND	ND	ND	21.2	ND	ND	ND	8.57	Bailer would not fit down the well past 5/6m. Bung out on arrival. Replaced at 14:02. Monitored at 16:52.
PH502	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Well Destroyed.
PH505	ND	ND	4.0	ND	4.0	10.2	ND	ND	ND	5.45	Bung out on arrival. Replaced at 14:05. Monitored at 16:47.
PH506	ND	ND	ND	ND	ND	21.2	ND	ND	ND	5.71	Bung out on arrival. Replaced at 14:26. Monitored at 16:43.
PH507	ND	ND	2.8	ND	2.8	18.1	ND	ND	ND	5.43	Bung out on arrival. Replaced at 14:37. Monitored at 16:41.
PH508	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Could not find. Maybe under Lorries.
PH509	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
PH510	ND	ND	3.1	ND	3.1	17.2	ND	ND	ND	5.19	Bung out on arrival. Replaced at 14:46. Monitored at 16:35.
PH511	ND	ND	10.4	ND	10.4	10.9	ND	ND	ND	5.18	
PH512	4.04	ND	0.8	ND	0.8	18.7	ND	ND	ND	4.13	
PH513	4.17	ND	3.3	ND	3.3	16.0	ND	ND	ND	8.62	Bailed at 10:27 to 6.28m (20l)
PH514	ND	ND	3.9	ND	3.9	17.1	ND	ND	ND	5.90	
PH515	5.00	2.0	17.9	2.0	17.9	2.1	ND	ND	ND	9.02	Bailed at 11:26 to 7.18m (15l). LEL Rose to 45.5
PH516	4.86	ND	4.4	ND	4.4	14.7	ND	ND	ND	5.69	Bailed at 12:12 to 4.82m (7l)
PH517	ND	ND	5.7	ND	5.7	13.3	ND	ND	ND	4.38	
PH518	5.80	ND	9.0	ND	9.0	7.3	ND	ND	ND	7.54	Bailed at 12:03 to 6.71m (7l)
PH519	1.84	ND	14.8	ND	14.8	14.8	ND	ND	ND	3.03	Bung out and top hat off on arrival. Replaced at 12:25. Monitored at 15:53.
PH520	2.37	ND	ND	ND	ND	21.3	6.7	ND	15.0	7.43	Bailed at 16:05 to 2.37m (15l). Fast recharge. Bung out and top hat off on arrival. Replaced at 12:30. Monitored at 16:00.

Equipment Used:

Gas Data GFM436 Infrared Gas Analyser
Geotechnical Instruments Dipmeter

Next Calibration Date

22/02/2021

Key

NDNone Detected
NRNot Recorded
1.0Recorded value does not breach trigger levels
5.0Recorded value breaches trigger level 1
10.0Recorded value breaches trigger level 2

	Site Data:			Weather Station Data (Bailiff Bridge Station)										
	Temp (°C):	8 to 11		Barometric Pressure Trend:			Falling the rising							
Time:	09:57	15:56	17:18	00:04	05:59	09:59	15:54	17:19	19:59	Trigger level 1	1.0	5.0	16.0	
Pressure (mb):	999	998	998	1018	1015	1016	1016	1017	1018	Trigger level 2	5.0	10.0	10.0	
	Weather Conditions:		Cloudy											
	Surface Ground Conditions:		Dry											
Remarks:														

Visit 1 Bailed

23/11/2020

Visit 2

Job Title:				Job No:			
Westgate, Cleckheaton				3043			
Client:				Sheet :			
Strata Homes				3 of 5			
Date:		Arrival Time:		Depart Time:			Operator:
02/11/2020		09:11		13:53		Lander Latta	

Gas Monitoring Results:							
Ambient Concentration (% Volume):	CH ₄ :	ND	CO ₂ :	0.1	O ₂ :	20.4	

Monitoring Point	Groundwater level	Concentrations					Gas Flow Rates			Bottom of well	Remarks
		Initial / Highest		Steady concentrations		Lowest concn	Initial / Maximum	Steady	Time to fall from highest to steady		
		CH ₄	CO ₂	CH ₄	CO ₂	O ₂					
	(m) bgl	% v/v	(%)	% v/v	(%)	(%)	litre/hr	litre/hr	secs	m	
BH501	4.16	ND	1.0	ND	1.0	18.2	ND	ND	ND	10.50	
BH502	4.36	ND	9.2	ND	9.2	9.5	ND	ND	ND	8.93	Could not find.
BH503	8.34	ND	0.5	ND	0.5	20.0	ND	ND	ND	8.70	Flooded Well. Bung released and monitored immediately.
BH504	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
BH505	8.25	ND	4.7	ND	4.7	14.7	ND	ND	ND	8.94	Bung Missing. Inserted at 12:36. Top Hat Destroyed. Monitored at 13:39.
BH506	6.76	ND	0.1	ND	0.1	20.5	ND	ND	ND	8.49	Bung missing. Inserted at 09:35. Monitored at 13:11.
BH507	0.05	NR	NR	NR	NR	NR	NR	NR	NR	2.87	Bailed 10:53 - 11:05 to 0.20m (45l). Top hat removed. Well Flooded. No Gas Measured. No Bung.
BH508	0.76	ND	3.3	ND	3.3	18.2	104.8	ND	10.0	2.92	Bailed 11:14 - 11:18 to 2.62m (10l). 2.48m Dip at 12:07. Bung Released to drain. Monitored Immediately.
BH509	0.84	ND	0.9	ND	0.9	19.7	ND	ND	ND	2.97	Bailed 11:26 - 11:37 to 2.03m (30l). 1.04m Dip at 12:09.
PH501	4.90	NR	NR	NR	NR	NR	NR	NR	NR	8.48	Bailed 13:01 - 13:03 to 5.41m (3l). 4.93m Dip at 13:52. No Bung and can not bail. Bung inserted at 13:05.
PH502	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
PH505	ND	ND	0.1	ND	0.1	20.4	ND	ND	ND	5.45	Bung Missing. Inserted at 12:43. Monitored at 13:49.
PH506	ND	ND	0.4	ND	0.4	20.0	ND	ND	ND	5.71	Bung Missing. Inserted at 12:41. Monitored at 13:45.
PH507	ND	ND	3.1	ND	3.1	16.7	ND	ND	ND	5.41	Bung Missing. Inserted at 12:37. Monitored at 13:42.
PH508	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Could not find.
PH509	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
PH510	ND	ND	2.5	ND	2.5	17.4	ND	ND	ND	4.98	Bung Missing. Inserted at 12:34. Monitored at 13:34.
PH511	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Flush Cover Destroyed. Well Flooded. Bung Stuck in Well.
PH512	3.99	ND	1.1	ND	1.1	14.9	ND	ND	ND	4.09	
PH513	4.02	ND	2.1	ND	2.1	12.0	ND	ND	ND	8.30	
PH514	ND	ND	4.4	ND	4.4	14.9	ND	ND	ND	5.86	
PH515	4.32	1.5	21.0	1.5	21.0	0.0	ND	ND	ND	9.02	LEL Rose to 35.4
PH516	4.52	ND	4.7	ND	4.7	14.4	ND	ND	ND	5.69	
PH517	4.20	ND	2.3	ND	2.3	18.0	ND	ND	ND	4.38	
PH518	5.65	ND	1.1	ND	1.1	8.8	ND	ND	ND	7.55	
PH519	0.67	ND	3.1	ND	3.1	17.0	ND	ND	ND	2.96	Bailed 10:20 - 10:26 to 2.68m (15l). 1.42m Dip at 10:47. Remonitored at 13:16.
PH520	2.20	ND	1.2	ND	1.2	19.2	ND	ND	ND	7.43	Bailed 10:36 - 10:42 to 2.20m (15l).

Equipment Used:						Next Calibration Date				Key					
Gas Data GFM436 Infrared Gas Analyser Geotechnical Instruments Dipmeter						22/02/2021				ND				None Detected	
										NR				Not Recorded	
										1.0				Recorded value does not breach trigger levels	
										5.0				Recorded value breaches trigger level 1	
										10.0				Recorded value breaches trigger level 2	
		Site Data:		Weather Station Data (Bailiff Bridge Station)											
		Temp (°C):	9 to 11		Barometric Pressure Trend:			Rising							
Time:	09:11	13:15	13:53	00:04	09:09	13:14	13:54	17:59	19:59	Trigger level 1	1.0	5.0	16.0		
Pressure (mb):	985	980	987	988	997	1000	1000	1004	1007	Trigger level 2	5.0	10.0	10.0		
		Weather Conditions:		Raining											
		Surface Ground Conditions:		Wet											

Remarks:	

Visit 2 Bailed

Job Title:							Job No:			LITHOS CONSULTING				
Westgate, Cleckheaton							3043							
Client:							Sheet :							
Strata Homes							4 of 5							
Date:		Arrival Time:		Depart Time:		Operator:								
02/11/2020		09:11		13:53		Lander Latta								

Gas Monitoring Results:

Ambient Concentration (% Volume):				CH ₄ :	ND	CO ₂ :	0.1	O ₂ :	20.4		

Monitoring Point	Groundwater level	Concentrations					Gas Flow Rates			Bottom of well	Remarks
		Initial / Highest		Steady concentrations		Lowest concn	Initial / Maximum	Steady	Time to fall from highest to steady		
		CH ₄	CO ₂	CH ₄	CO ₂	O ₂					
	(m) bgl	% v/v	(%)	% v/v	(%)	(%)	litre/hr	litre/hr	secs	m	
BH501	4.16	ND	1.0	ND	1.0	18.2	ND	ND	ND	10.50	
BH502	4.36	ND	9.2	ND	9.2	9.5	ND	ND	ND	8.93	Could not find.
BH503	8.34	ND	0.5	ND	0.5	20.0	ND	ND	ND	8.70	Flooded Well. Bung released and monitored immediately.
BH504	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
BH505	8.25	ND	4.7	ND	4.7	14.7	ND	ND	ND	8.94	Bung Missing. Inserted at 12:36. Top Hat Destroyed. Monitored at 13:39.
BH506	6.76	ND	0.1	ND	0.1	20.5	ND	ND	ND	8.49	Bung missing. Inserted at 09:35. Monitored at 13:11.
BH507	0.05	NR	NR	NR	NR	NR	NR	NR	NR	2.87	Bailed 10:53 - 11:05 to 0.20m (45l). Top hat removed. Well Flooded. No Gas Measured. No Bung.
BH508	1.52	ND	0.8	ND	0.8	19.6	120.0	8.0	300.0	2.93	Bailed 11:14 - 11:18 to 2.62m (10l). 2.48m Dip at 12:07. Remonitored at 13:24. Bung Released to drain. Monitored Immediate
BH509	0.84	ND	0.9	ND	0.9	19.7	ND	ND	ND	2.97	Bailed 11:26 - 11:37 to 2.03m (30l). 1.04m Dip at 12:09.
PH501	4.90	NR	NR	NR	NR	NR	NR	NR	NR	8.48	Bailed 13:01 - 13:03 to 5.41m (3l). 4.93m Dip at 13:52. No Bung and can not bail. Bung inserted at 13:05.
PH502	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
PH505	ND	ND	0.1	ND	0.1	20.4	ND	ND	ND	5.45	Bung Missing. Inserted at 12:43. Monitored at 13:49.
PH506	ND	ND	0.4	ND	0.4	20.0	ND	ND	ND	5.71	Bung Missing. Inserted at 12:41. Monitored at 13:45.
PH507	ND	ND	3.1	ND	3.1	16.7	ND	ND	ND	5.41	Bung Missing. Inserted at 12:37. Monitored at 13:42.
PH508	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Could not find.
PH509	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
PH510	ND	ND	2.5	ND	2.5	17.4	ND	ND	ND	4.98	Bung Missing. Inserted at 12:34. Monitored at 13:34.
PH511	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Flush Cover Destroyed. Well Flooded. Bung Stuck in Well.
PH512	3.99	ND	1.1	ND	1.1	14.9	ND	ND	ND	4.09	
PH513	4.02	ND	2.1	ND	2.1	12.0	ND	ND	ND	8.30	
PH514	ND	ND	4.4	ND	4.4	14.9	ND	ND	ND	5.86	
PH515	4.32	1.5	21.0	1.5	21.0	0.0	ND	ND	ND	9.02	LEL Rose to 35.4
PH516	4.52	ND	4.7	ND	4.7	14.4	ND	ND	ND	5.69	
PH517	4.20	ND	2.3	ND	2.3	18.0	ND	ND	ND	4.38	
PH518	5.65	ND	1.1	ND	1.1	8.8	ND	ND	ND	7.55	
PH519	0.82	ND	0.6	ND	0.6	19.6	106.6	ND	90.0	3.00	Bailed 10:20 - 10:26 to 2.68m (15l). 1.42m Dip at 10:47. Remonitored at 13:16.
PH520	2.20	ND	1.2	ND	1.2	19.2	ND	ND	ND	7.43	Bailed 10:36 - 10:42 to 2.20m (15l).

Equipment Used:

Gas Data GFM436 Infrared Gas Analyser
Geotechnical Instruments Dipmeter

Next Calibration Date
22/02/2021

Key
NDNone Detected
NRNot Recorded
1.0Recorded value does not breach trigger levels
5.0Recorded value breaches trigger level 1
10.0Recorded value breaches trigger level 2

	Site Data:			Weather Station Data (Bailiff Bridge Station)										
	Temp (°C):	9 to 11		Barometric Pressure Trend:			Rising							
Time:	09:11	13:15	13:53	00:04	09:09	13:14	13:54	17:59	19:59	Trigger level 1	1.0	5.0	16.0	
Pressure (mb):	985	980	987	988	997	1000	1000	1004	1007	Trigger level 2	5.0	10.0	10.0	
	Weather Conditions:		Raining											
	Surface Ground Conditions:		Wet											
Remarks:														

Visit 2 Bailed

23/11/2020

Job Title:				Job No:		
Westgate, Cleckheaton				3043		
Client:				Sheet :		
Strata Homes				5 of 5		
Date:	Arrival Time:	Depart Time:	Operator:			
20/11/2020	09:19	12:42	Lander Latta			

Gas Monitoring Results:											
Ambient Concentration (% Volume):				CH ₄ :	ND	CO ₂ :	0.1	O ₂ :	20.2		

Monitoring Point	Groundwater level	Concentrations					Gas Flow Rates			Bottom of well	Remarks
		Initial / Highest		Steady concentrations		Lowest concn	Initial / Maximum	Steady	Time to fall from highest to steady		
		CH ₄	CO ₂	CH ₄	CO ₂	O ₂					
	(m) bgl	% v/v	(%)	% v/v	(%)	(%)	litre/hr	litre/hr	secs	m	
BH501	4.26	ND	2.1	ND	2.1	16.0	ND	ND	ND	10.04	
BH502	4.41	ND	9.4	ND	9.4	7.7	ND	ND	ND	8.90	
BH503	8.48	ND	0.3	ND	0.3	20.1	ND	ND	ND	8.72	Well Flooded. Bung released to drain and monitored immediately.
BH504	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
BH505	8.24	ND	2.6	ND	2.6	16.8	ND	ND	ND	8.94	
BH506	6.87	ND	0.8	ND	0.8	19.4	ND	ND	ND	8.79	
BH507	0.46	ND	2.2	ND	2.2	18.5	7.8	ND	15.0	2.86	Not Bailed as Recharge is too quick.
BH508	1.08	NR	NR	NR	NR	NR	NR	NR	NR	2.91	No Bung. No Gas monitored and Not Bailed as Recharge is too quick. Bung inserted at 11:02.
BH509	1.00	ND	0.4	ND	0.4	20.0	ND	ND	ND	2.98	Not Bailed as Recharge is too quick.
PH501	5.21	NR	NR	NR	NR	NR	NR	NR	NR	8.56	No Bung. No Gas monitored and Not Bailed as bailer does not fit down this well. Bung inserted at 12:41.
PH502	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
PH505	ND	ND	8.8	ND	8.8	4.8	ND	ND	ND	5.52	
PH506	ND	ND	9.1	ND	9.1	7.5	ND	ND	ND	5.75	
PH507	ND	ND	0.2	ND	0.2	20.1	ND	ND	ND	5.42	
PH508	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
PH509	5.71	ND	4.5	ND	4.5	15.7	ND	ND	ND	7.44	
PH510	ND	ND	2.4	ND	2.4	17.8	ND	ND	ND	5.07	
PH511	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Could not remove flush cover. Will use different socket set next time.
PH512	4.00	ND	0.8	ND	0.8	16.8	-5.3	ND	1.0	4.09	
PH513	5.10	ND	4.4	ND	4.4	12.0	ND	ND	ND	8.25	
PH514	ND	ND	4.6	ND	4.6	14.1	43.6	ND	15.0	5.89	
PH515	4.68	ND	23.9	ND	23.9	2.6	ND	ND	ND	9.03	
PH516	4.42	ND	1.6	ND	1.6	18.6	ND	ND	ND	5.69	
PH517	4.25	ND	2.5	ND	2.5	15.8	ND	ND	ND	4.38	
PH518	5.70	ND	9.2	ND	9.2	2.0	ND	ND	ND	7.54	
PH519	1.28	ND	0.8	ND	0.8	19.7	ND	ND	ND	3.04	
PH520	2.14	ND	1.1	ND	1.1	19.8	-61.4	ND	25.0	7.39	Not Bailed as Recharge is too quick.

Equipment Used:						Next Calibration Date				Key					
Gas Data GFM436 Infrared Gas Analyser Geotechnical Instruments Dipmeter						22/02/2021				ND				None Detected	
										NR				Not Recorded	
										1.0				Recorded value does not breach trigger levels	
										5.0				Recorded value breaches trigger level 1	
										10.0				Recorded value breaches trigger level 2	
	Site Data:			Weather Station Data (Bailiff Bridge Station)											
	Temp (°C):	5 to 9		Barometric Pressure Trend:			Falling								
Time:	09:19	12:10	12:42	00:04	09:12	11:50	12:44	17:59	19:59	Trigger level 1	1.0	5.0	16.0		
Pressure (mb):	1019	1017	1014	1034	1030	1029	1028	1025	1024	Trigger level 2	5.0	10.0	10.0		
	Weather Conditions:		Cloudy												
	Surface Ground Conditions:		Damp												

Remarks:	