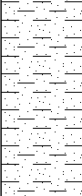
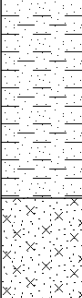
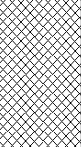


				Trial Pit Log				TrialPit No TP121 Sheet 1 of 1	
Project Name: Trubs Farm				Project No. 17524		Co-ords: - Level:		Date 16/04/2024	
Location: Rochdale						Dimensions (m): 2.50		Scale 1:30	
Client: MCI Developments						Depth 2.00		Logged J.Beer	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.80	ES		0.25			Dark brown clayey fine to medium SAND with rootlets. (TOPSOIL).		
							Orangish light brown clayey fine to medium SAND.		
									2.00
						End of Pit at 2.00m			
1 2 3 4									
Trial Pit Photographs									
									
Trial Pit 121					Trial Pit 121 Spoil				
Remarks: 1. Terminated due to instability.									
Stability: Very unstable									
									

				Trial Pit Log				TrialPit No TP122 Sheet 1 of 1	
Project Name: Trubs Farm				Project No. 17524		Co-ords: - Level:		Date 16/04/2024	
Location: Rochdale						Dimensions (m): 2.50		Scale 1:30	
Client: MCI Developments						Depth 2.30		Logged J.Beer	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
 1.90				0.30			Dark brown clayey fine to medium SAND with rootlets. (TOPSOIL).		
							Firm brown mottled grey very sandy CLAY.		
	0.70	HVP	71						
	0.80	B							
	1.00	ES		1.10			Stiff brown mottled grey slightly sandy CLAY.		
	1.30	HVP	115				Reddish brown slightly silty fine to medium SAND.		
				1.90					
				2.30			End of Pit at 2.30m		
Trial Pit Photographs									
									
Trial Pit 122					Trial Pit 122 Spoil				
Remarks: 1. Complete. 2. Water encountered as seepage at 1.90m bgl.									
Stability: Slightly unstable									
									

				Trial Pit Log			TrialPit No TP123 Sheet 1 of 1			
Project Name: Trubs Farm				Project No. 17524		Co-ords: - Level:		Date 16/04/2024		
Location: Rochdale						Dimensions (m): 2.50		Scale 1:30		
Client: MCI Developments						Depth 1.10		Logged J.Beer		
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
	Depth	Type	Results							
	0.10	ES					MADE GROUND: Dark brown slightly gravelly clayey fine to medium sand with rootlets. Gravel is fine to coarse subangular of brick.			
				0.60			MADE GROUND: Orangish light brown clayey fine to medium sand (reworked).			
				1.10			End of Pit at 1.10m			
									1	
									2	
									3	
									4	
Trial Pit Photographs										
										
Trial Pit 123					Trial Pit 123 Spoil					
Remarks: 1. Terminated due to land drain encountered at 1.10 m bgl.										
Stability: Stable										
										

Project Name: Trubs Farm

Project No.
17524

Co-ords: -
Level:

Date
16/04/2024

Location: Rochdale

Dimensions (m): 2.50

Scale
1:30

Client: MCI Developments

Depth
1.20

0.60

Logged
J.Beer

[illegible]

Trial Pit Photographs



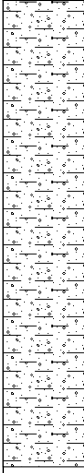
Trial Pit 124



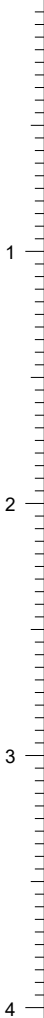
Trial Pit 124 Spoil

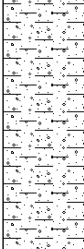
Remarks: 1. Terminated due to instability. 2. Water strike encountered at 1.00 m bgl.

Stability: Very unstable

				Trial Pit Log				TrialPit No TP125 Sheet 1 of 1		
Project Name: Trubs Farm				Project No. 17524		Co-ords: - Level:			Date 16/04/2024	
Location: Rochdale						Dimensions (m): 2.50			Scale 1:30	
Client: MCI Developments						Depth 2.20			Logged J.Beer	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
	Depth	Type	Results							
 1.70	0.10	ES		0.35			Dark brown clayey fine to medium SAND with rootlets. (TOPSOIL).			
	0.80	HVP	139							
	1.30	HVP	142							
	1.60	HVP	71							
	2.00	HVP	123							
				2.20			End of Pit at 2.20m			
Trial Pit Photographs										
										
Trial Pit 125					Trial Pit 125 Spoil					
Remarks: 1. Complete. 2. Water encountered as seepage at 1.70m bgl.										
Stability: Stable										
										

				Trial Pit Log				TrialPit No TP126 Sheet 1 of 1											
Project Name: Trubs Farm				Project No. 17524		Co-ords: - Level:		Date 16/04/2024											
Location: Rochdale						Dimensions (m): 2.50		Scale 1:30											
Client: MCI Developments						Depth 3.50		Logged J.Beer											
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description												
	Depth	Type	Results																
	2.00	D		0.40			Dark brown sandy CLAY with rootlets (TOPSOIL).		1 2 3 4										
				0.70			Brown clayey fine to medium SAND with plant debris.												
				1.80			Dark brown pseudo fibrous PEAT.												
		2.60					Brown pseudo fibrous PEAT.												
						2.80	D			Brown amorphous PEAT (very wet).									
		3.10				ES	3.00			Grey clayey sandy SILT.									
				3.50				End of Pit at 3.50m											
Trial Pit Photographs																			
																			
Trial Pit 126										Trial Pit 126 Spoil									
Remarks: 1. Complete.																			
Stability: Slightly unstable																			

				Trial Pit Log				TrialPit No TP127 Sheet 1 of 1			
Project Name: Trubs Farm				Project No. 17524		Co-ords: - Level:			Date 16/04/2024		
Location: Rochdale						Dimensions (m): 2.50			Scale 1:30		
Client: MCI Developments						Depth 2.30			Logged J.Beer		
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description				
	Depth	Type	Results								
	0.60	ES		0.20			MADE GROUND: Dark brown sandy clay with rootlets (Topsoil).				
						MADE GROUND: Brown slightly gravelly clayey fine to medium sand (reworked). Gravel is fine to medium subangular of brick.					
				0.80			MADE GROUND: Greyish dark brown gravelly clayey fine to medium sand. Gravel is fine to medium subangular of brick.				
				1.20			Firm brown mottled grey very sandy CLAY.				
				1.70			Dark brownish grey clayey fine to medium SAND.				
				2.30			End of Pit at 2.30m				
Trial Pit Photographs											
											
Trial Pit 127						Trial Pit 127 Spoil					
Remarks: 1. Complete.											
Stability: Stable											
											

				Trial Pit Log				TrialPit No TP128 Sheet 1 of 1			
Project Name: Trubs Farm				Project No. 17524		Co-ords: - Level:			Date 16/04/2024		
Location: Rochdale						Dimensions (m): 2.50			Scale 1:30		
Client: MCI Developments						Depth 2.20			Logged J.Beer		
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description				
	Depth	Type	Results								
	0.10	ES	91	0.30			Dark brown clayey fine to medium SAND with rootlets. (TOPSOIL).				1 2 3 4
	1.00 1.00	B HVP		1.30			Firm to stiff orangish brown mottled grey gravelly very sandy CLAY. Gravel is fine to coarse subrounded to rounded of mudstone.				
				2.20			Brownish grey gravelly very sandy CLAY with rare cobbles and plant debris. Gravel is fine to coarse subrounded to rounded of mudstone. Cobbles are rounded of mudstone.				
								End of Pit at 2.20m			
Trial Pit Photographs											
											
Trial Pit 128						Trial Pit 128 Spoil					
Remarks: 1. Complete.											
Stability: Stable											
											

Borehole Log

Borehole No.

WS101

Sheet 1 of 1

Project Name: Trubs Farm

Project No.
17524

Co-ords: -

Hole Type
WS

Location: Rochdale

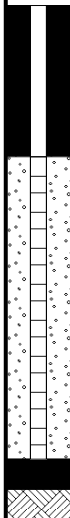
Level:

Scale
1:50

Client: MCI Developments

Dates: 17/04/2024 -

Logged By
J.Beer

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.30			Dark brown clayey fine to medium SAND with rootlets. (TOPSOIL).	
					0.80			Brown sandy CLAY with rare plant debris.	
		1.00		N=4 (1,0/1,1,1,1)	1.20			Loose grey slightly clayey fine to medium SAND.	1
					1.70			Loose grey slightly silty fine to medium SAND.	
		1.80	ES		2.00			Medium dense grey gravelly fine to medium SAND. Gravel is fine to medium subrounded to rounded of mudstone.	2
		2.00		N=15 (1,3/2,4,5,4)					
					2.80			Dense greyish brown SAND and GRAVEL. Gravel is fine to medium subrounded to rounded of mudstone.	3
		3.00		50 (5,8/50 for 285mm)	3.44			End of borehole at 3.44 m	
									4
									5
									6
									7
									8
									9
									10

Remarks

1. Terminated due to refusal in SPT test at 3.00 m bgl. 2. Monitoring well installed. Response zone 1.00 to 3.00 m bgl.

Borehole Log

Borehole No.

WS102

Sheet 1 of 1

Project Name: Trubs Farm

Project No.
17524

Co-ords: -

Hole Type
WS

Location: Rochdale

Level:

Scale
1:50

Client: MCI Developments

Dates: 17/04/2024 -

Logged By
J.Beer

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES	N=6 (1,1/1,2,1,2)	0.20			Dark brown clayey fine to medium SAND with rootlets. (TOPSOIL).	1
		0.80			1.00			Grey clayey fine to medium SAND.	
		1.00			1.00				
		2.00			1.90			Dark brown pseudo fibrous PEAT.	
		2.00			1.90				
		3.00		50 (5,7/50 for 295mm)	2.90			Loose grey clayey fine to medium SAND (saturated).	2
		3.00			2.90				3
		3.00			2.90				3
		3.45			3.45			Dense grey SAND and GRAVEL. Gravel is fine to medium subrounded to rounded of mudstone.	3
		3.45			3.45				4
		3.45			3.45				5
		3.45			3.45				6
		3.45			3.45				7
		3.45			3.45				8
		3.45			3.45				9
		3.45			3.45				10
		3.45			3.45				11
		3.45			3.45				12

Remarks

1. Terminated due to refusal in SPT test at 3.00 m bgl. 2. Monitoring well installed. Response zone 2.00 to 3.00 m bgl.

Borehole Log

Borehole No.

WS103

Sheet 1 of 1

Project Name: Trubs Farm

Project No.
17524

Co-ords: -

Hole Type
WS

Location: Rochdale

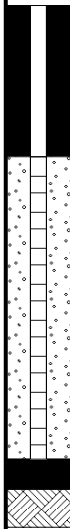
Level:

Scale
1:50

Client: MCI Developments

Dates: 17/04/2024 -

Logged By
J.Beer

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30	ES	N=41 (5,9/8,9,11,13)	0.30			MADE GROUND: Dark brown slightly gravelly clayey fine to medium sand with rootlets. Gravel is fine subangular of brick. (Topsoil).	1
		0.80			0.80			MADE GROUND: Brown clayey gravelly fine to medium sand (reworked). Gravel is fine to coarse subangular to rounded of mudstone and brick.	
		1.00						Dense light brown gravelly fine to medium SAND. Gravel is fine to medium subangular to rounded of mudstone.	
		2.00			1.70			Stiff medium strength brownish grey sandy CLAY.	
		3.00			2.40			Dense grey slightly sandy GRAVEL. Gravel is fine to coarse subrounded to rounded of mudstone.	
		3.45		N=50 (6,8/12,14,15,9)	3.45			End of borehole at 3.45 m	3
									4
									5
									6
									7
									8
									9
									10

Remarks

1. Terminated due to refusal in SPT test at 3.00 m bgl. 2. Monitoring well installed. Response zone 1.00 to 3.00 m bgl.

Borehole Log

Borehole No.

WS104

Sheet 1 of 1

Project Name: Trubs Farm

Project No.
17524

Co-ords: -

Hole Type
WS

Location: Rochdale

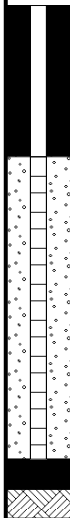
Level:

Scale
1:50

Client: MCI Developments

Dates: 17/04/2024 -

Logged By
J.Beer

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20			0.20			Dark brown sandy CLAY with rootlets (TOPSOIL).	
		1.00		N=7 (1,1/1,2,2,2)				Loose light brown mottled grey slightly gravelly clayey fine to medium SAND. Gravel is fine to medium subrounded to rounded of mudstone.	1
		1.60	ES		1.40				
		2.00	D					Stiff medium strength brown gravelly very sandy CLAY. Gravel is fine to medium subrounded to rounded of mudstone. Sand band 2.20 to 2.40 m bgl.	2
		2.00		N=10 (2,2/2,2,3,3)					
		3.00		50 (8,7/50 for 240mm)	2.60			Dense brown gravelly fine to medium SAND. Gravel is fine to medium subrounded to rounded of mudstone.	3
					3.39			End of borehole at 3.39 m	4
									5
									6
									7
									8
									9
									10

Remarks

1. Terminated due to refusal in SPT test at 3.00 m bgl. 2. Monitoring well installed. Response zone 1.00 to 3.00 m bgl.

Borehole Log

Borehole No.

WS105

Sheet 1 of 1

Project Name: Trubs Farm

Project No.
17524

Co-ords: -

Hole Type
WS

Location: Rochdale

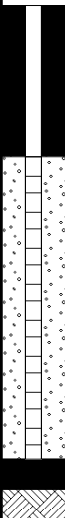
Level:

Scale
1:50

Client: MCI Developments

Dates: 17/04/2024 -

Logged By
J.Beer

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES					Dark brown clayey fine to medium SAND with rootlets. (TOPSOIL).	
					0.30			Very soft brown very sandy CLAY with plant debris.	
		1.00		N=7 (1,1/1,2,2,2)	1.00			Loose brownish grey clayey fine to medium SAND.	1
					1.40			Stiff medium strength grey sandy silty CLAY.	
		2.00		N=10 (2,2/2,3,3,2)					2
					2.70			Dense grey slightly gravelly fine to medium SAND.	
		3.00		50 (8,9/50 for 245mm)					3
					3.40			End of borehole at 3.40 m	
									4
									5
									6
									7
									8
									9
									10

Remarks

1. Terminated due to refusal in SPT test at 3.00 m bgl. 2. Monitoring well installed. Response zone 1.00 to 3.00 m bgl.



Borehole Log

Borehole No.

WS106

Sheet 1 of 1

Project Name: Trubs Farm

Project No.
17524

Co-ords: -

Hole Type
WS

Location: Rochdale

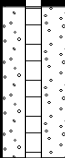
Level:

Scale
1:50

Client: MCI Developments

Dates: 17/04/2024 -

Logged By
J.Beer

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.30			Dark brown clayey fine to medium SAND with rootlets. (TOPSOIL).	
								Brown pseudo fibrous PEAT (saturated).	
		1.00		N=5 (1,1/1,1,1,2)					1
		2.00		N=0 (0,0/0,0,0,0)					2
		3.00		N=0 (0,0/0,0,0,0)					3
		3.70	ES		3.50			Medium dense grey slightly gravelly slightly clayey fine to medium SAND. Gravel is fine to medium subrounded to rounded of mudstone.	
		4.00		N=17 (3,3/4,4,4,5)					4
		5.00		N=27 (4,4/4,7,8,8)					5
					5.45			End of borehole at 5.45 m	
									6
									7
									8
									9
									10

Remarks

1. Complete. 2. Monitoring well installed. Response zone 3.50 to 4.50 m bgl.





Borehole Log

Borehole No.

WS107

Sheet 1 of 1

Project Name: Trubs Farm

Project No.
17524

Co-ords: -

Hole Type
WS

Location: Rochdale

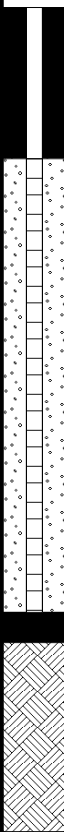
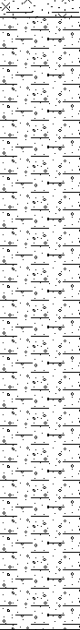
Level:

Scale
1:50

Client: MCI Developments

Dates: 17/04/2024 -

Logged By
J.Beer

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
					0.25			Dark brown clayey fine to medium SAND with rootlets. (TOPSOIL).		
								Brown pseudo fibrous PEAT.		
		1.00		N=7 (1,1/2,2,2,1)	0.90					
		1.50 - 1.80	U		1.40			Loose greyish brown silty clayey fine to medium SAND.		
		2.00	D				Stiff medium strength brown mottled grey sandy gravelly CLAY. Gravel is fine to medium subrounded to rounded of mudstone. Becoming very stiff high strength at 4.00 m bgl. Becoming very stiff very high strength at 5.00 m bl.			
		2.00		N=10 (1,1/2,2,2,4)						
		2.70	ES							
		3.00	D							
		3.00		N=13 (2,2/2,3,4,4)						
		4.00	D							
		4.00		N=20 (3,3/4,4,6,6)						
		5.00	D							
		5.00		N=47 (6,8/10,12,12,13)	5.45					
								End of borehole at 5.45 m		

Remarks

1. Complete. 2. Monitoring well installed. Response zone 1.00 to 4.00 m bgl.





Borehole Log

Borehole No.

WS108

Sheet 1 of 1

Project Name: Trubs Farm

Project No.
17524

Co-ords: -

Hole Type
WS

Location: Rochdale

Level:

Scale
1:50

Client: MCI Developments

Dates: 17/04/2024 -

Logged By
J.Beer

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.25			0.25			Dark brown clayey fine to medium SAND with rootlets. (TOPSOIL). Brown mottled grey sandy CLAY.	
		1.00 1.00	D	N=7 (1,1/1,2,2,2)	0.90			Firm low strength brown slightly sandy gravelly CLAY. Gravel is fine subrounded to rounded of mudstone.	1
		1.50 - 2.00	U						
		2.00 2.00	D	N=9 (1,1/2,2,2,3)	2.00			Loose brown clayey fine to medium SAND. Clay band 2.50 to 3.00 m bgl. Becoming medium dense at 3.00 m bgl.	2
		2.50	ES						
		3.00		N=16 (2,2/3,4,4,5)					3
		4.00		N=30 (3,4/6,6,8,10)	4.45				4
								End of borehole at 4.45 m	5
									6
									7
									8
									9
									10

Remarks

1. Terminated due to blowing sands and hole collapse at 4.00 m bgl. 2. Monitoring well installed. Response zone 1.00 to 3.00 m bgl.





Borehole Log

Borehole No.

WS109

Sheet 1 of 1

Project Name: Trubs Farm

Project No.
17524

Co-ords: -

Hole Type
WS

Location: Rochdale

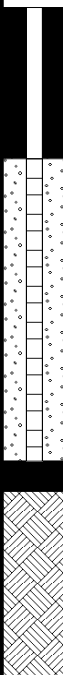
Level:

Scale
1:50

Client: MCI Developments

Dates: 17/04/2024 -

Logged By
J.Beer

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.10	ES		0.30			Dark brown sandy CLAY with rootlets (TOPSOIL).	1	
					0.70			Brown clayey fine to medium SAND with plant debris.		
		1.00	D		1.00			Greyish light brown clayey fine to medium SAND.		
		1.00		N=4 (1,1/1,1,1,1)			Firm low strength greyish brown silty sandy CLAY.			
		1.50 - 2.00	U							
		2.00	D	N=6 (1,1/1,2,2,1)	2.00		Loose greyish light brown slightly clayey gravelly fine to medium SAND. Gravel is fine to medium subrounded to rounded of mudstone. Becoming medium dense at 3.00 m bgl.	2		
		2.00								
		3.00		N=16 (2,3/3,4,4,5)				3		
										
		4.00		N=25 (3,3/4,6,6,9)	4.45			4		
End of borehole at 4.45 m									5	
									6	
									7	
									8	
									9	
									10	

Remarks

1. Terminated due to blowing sands and hole collapse at 4.00 m bgl. 2. Monitoring well installed. Response zone 1.00 to 3.00 m bgl.



Borehole Log

Borehole No.

WS110

Sheet 1 of 1

Project Name: Trubs Farm

Project No.
17524

Co-ords: -

Hole Type
WS

Location: Rochdale

Level:

Scale
1:50

Client: MCI Developments

Dates: 17/04/2024 -

Logged By
J.Beer

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.30			Dark brown sandy CLAY with rootlets (TOPSOIL).	
								Brown pseudo fibrous PEAT (saturated).	1
		1.00		N=1 (1,0/0,0,1,0)					
		2.00		N=7 (1,0/1,1,2,3)	2.20				2
		2.50	ES					Dense grey SAND and GRAVEL. Gravel is fine to medium subrounded to rounded of mudstone.	
		3.00		N=50 (4,8/12,12,13,13)	3.45				3
								End of borehole at 3.45 m	4
									5
									6
									7
									8
									9
									10

Remarks

1. Terminated due to refusal in SPT test at 3.00 m bgl. 2. Monitoring well installed. Response zone 2.20 to 3.00 m bgl.



Borehole Log

Borehole No.

WS111

Sheet 1 of 1

Project Name: Trubs Farm

Project No.
17524

Co-ords: -

Hole Type
WS

Location: Rochdale

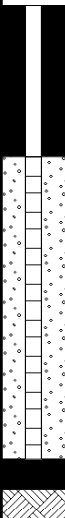
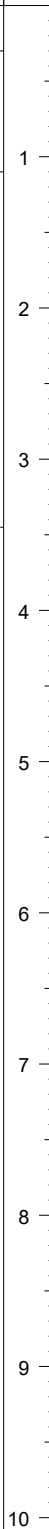
Level:

Scale
1:50

Client: MCI Developments

Dates: 17/04/2024 -

Logged By
J.Beer

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.30			Dark brown clayey fine to medium SAND with rootlets. (TOPSOIL).	
								Brown pseudo fibrous PEAT (saturated).	
		1.00		N=2 (1,0/1,1,0,0)	1.10				
		1.50	ES						
		2.00		N=11 (3,2/3,2,2,4)					
		3.00		N=25 (5,6/5,7,6,7)					
					3.45				
								End of borehole at 3.45 m	

Remarks

1. Terminated due to blowing sands and hole collapse at 3.00 m bgl. 2. Monitoring well installed. Response zone 1.00 to 3.00 m bgl.





Borehole Log

Borehole No.

WS112

Sheet 1 of 1

Project Name: Trubs Farm

Project No.
17524

Co-ords: -

Hole Type
WS

Location: Rochdale

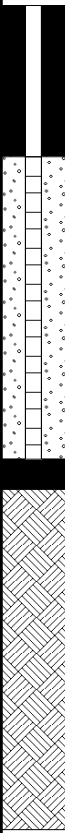
Level:

Scale
1:50

Client: MCI Developments

Dates: 17/04/2024 -

Logged By
J.Beer

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES					Dark brown clayey fine to medium SAND with rootlets. (TOPSOIL).	
					0.30			Brown clayey fine to medium SAND.	
					0.50			Dark brown pseudo fibrous PEAT.	
		1.00		N=1 (1,0/0,1,0,0)					1
									
									
									
		2.00		N=4 (1,0/1,1,1,1)					2
									
									
		3.00		N=7 (1,2/1,2,2,2)	3.00				3
								Loose grey silty fine to medium SAND with plant debris.	
					3.70				
		4.00		N=2 (1,0/1,1,0,0)				Very loose grey fine to medium SAND. Becoming loose at 5.00 m bgl. (Blowing sands).	4
									
									
		5.00		N=9 (2,1/3,2,2,2)					5
									
					5.45				
								End of borehole at 5.45 m	6
									7
									8
									9
									10

Remarks

1. Complete. 2. Monitoring well installed. Response zone 1.00 to 3.00 m bgl.





Borehole Log

Borehole No.

CP101

Sheet 1 of 2

Project Name: Trubs Farm

Project No.
17524

Co-ords: -

Hole Type
CP

Location: Rochdale

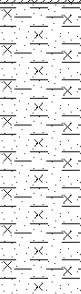
Level:

Scale
1:50

Client: MCI Developments

Dates: 15/04/2024 - 18/04/2024

Logged By
JB Site Investigation

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.00 - 0.50	B		0.50			Dark brown sandy CLAY with rootlets (TOPSOIL).	1
		0.50 - 1.00	B					Stiff medium strength brown silty sandy CLAY. Becoming very soft extremely low strength at 2.00 m bgl.	
		1.20		N=11 (1,2/2,3,3,3)	2.50				2
		1.20 - 1.65	D						
		1.20 - 1.70	B		2.80				3
		2.00		N=2 (0,0/1,0,1,0)					
		2.00 - 2.45	D						4
		2.00 - 2.50	B						
		2.80	D		4.00				5
		3.00		N=1 (1,0/0,1,0,0)					
		3.00 - 3.45	D		5.00				6
		3.00 - 3.50	B						
		3.80	D		6.00				7
		4.00		N=1 (0,0/1,0,0,0)					
		4.00 - 4.45	D		7.00				8
		4.00 - 4.50	B						
		4.80	D		8.00				9
		5.00		N=30 (3,3/4,6,10,10)					
		5.00 - 5.45	D		9.00				10
		5.00 - 5.50	B						
		5.80	D						
		6.00		N=25 (2,3/3,5,7,10)					
		6.00 - 6.45	D						
		6.00 - 6.50	B						
		7.00	D						
		7.50		N=34 (1,3/5,7,10,12)					
		7.50 - 7.95	D						
		7.50 - 8.00	B						
		9.00		N=37 (4,5/7,9,9,12)					
		9.00 - 9.45	D						
		10.00 - 10.50	B						

Continued on next sheet

Remarks

1. Complete. 2. Hole originally terminated due to blowing sands at 8.00 m bgl. Re drilled with water from tractor and bowser.





Borehole Log

Borehole No.

CP101

Sheet 2 of 2

Project Name: Trubs Farm

Project No.
17524

Co-ords: -

Hole Type
CP

Location: Rochdale

Level:

Scale
1:50

Client: MCI Developments

Dates: 15/04/2024 - 18/04/2024

Logged By
JB Site Investigation

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.50 10.50 - 10.95	D	N=38 (5,5/5,10,10,13)	11.20				11
		12.00 12.00 - 12.45	D	N=42 (4,5/6,9,12,15)	12.40			Dense light brown gravelly fine to medium SAND. Gravel is fine to medium subangular to rounded of mudstone.	12
		12.50 - 13.00	B					Very stiff high strength brown CLAY.	13
		14.00 14.00 - 14.45	D	N=30 (3,4/7,7,7,9)	15.00				14
								End of borehole at 15.00 m	15
									16
									17
									18
									19
									20

Remarks

1. Complete. 2. Hole originally terminated due to blowing sands at 8.00 m bgl. Re drilled with water from tractor and bowser.





Borehole Log

Borehole No.

CP102

Sheet 1 of 2

Project Name: Trubs Farm

Project No.
17524

Co-ords: -

Hole Type
CP

Location: Rochdale

Level:

Scale
1:50

Client: MCI Developments

Dates: 15/04/2024 - 16/04/2024

Logged By
JB Site Investigation

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.00 - 0.50	B		0.30			Dark brown clayey fine to medium SAND with rootlets. (TOPSOIL).	
		0.50 - 1.00	B					Greyish brown sandy CLAY.	
		1.20		N=5 (1,1/2,1,1,1)	1.10			Firm low strength grey silty sandy CLAY. Becoming stiff medium strength at 2.00 m bgl. Becoming very soft extremely low strength at 3.00 m bgl. Becoming stiff medium strength 4.00 m bl.	1
		1.20 - 1.65 1.20 - 1.70	D B						
		2.00		N=11 (2,2/2,3,3,3)					2
		2.00 - 2.45	D						
		2.50 - 3.00	B						3
		3.00		N=1 (1,0/0,0,1,0)					
		3.00 - 3.45	D						4
		4.00		N=11 (2,2/2,3,3,3)					
		4.00 - 4.45	D		4.80				5
		5.00		N=15 (2,2/3,3,4,5)					
		5.00 - 5.45 5.00 - 5.50	D B						6
		6.00		N=16 (2,3/3,4,4,5)					7
		6.00 - 6.45	D						8
		7.50 - 7.95	U						9
		9.00		N=20 (3,3/4,4,5,7)					10
		9.00 - 9.45	D						

Continued on next sheet

Remarks

1. Terminated due to blowing sands at 13.20 m bgl.





Borehole Log

Borehole No.

CP102

Sheet 2 of 2

Project Name: Trubs Farm

Project No.
17524

Co-ords: -

Hole Type
CP

Location: Rochdale

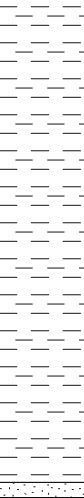
Level:

Scale
1:50

Client: MCI Developments

Dates: 15/04/2024 - 16/04/2024

Logged By
JB Site Investigation

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.50 - 10.95	U						11
		12.00 12.00 - 12.45	D	N=37 (4,5/7,7,9,14)					12
		13.20	D		13.20 13.30				13
								Light brown fine to medium SAND (blowing). End of borehole at 13.30 m	14
									15
									16
									17
									18
									19
									20

Remarks

1. Terminated due to blowing sands at 13.20 m bgl.





Borehole Log

Borehole No.

CP103

Sheet 1 of 2

Project Name: Trubs Farm

Project No.
17524

Co-ords: -

Hole Type
CP

Location: Rochdale

Level:

Scale
1:50

Client: MCI Developments

Dates: 16/04/2024 - 17/04/2024

Logged By
JB Site Investigation

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.00 - 0.50	B	N=1 (0,0/0,0,1,0)	0.30			Dark brown clayey fine to medium SAND with rootlets. (TOPSOIL).	1
		0.50 - 1.00	B					Dark brown pseudo fibrous PEAT.	
		1.20							
		1.20 - 1.65	D	N=2 (0,0/1,0,0,1)					2
		1.20 - 1.70	B						
		2.00							
		2.00 - 2.45	D	N=2 (1,0/1,0,0,1)					3
		3.00							
		3.00 - 3.45	D						
		3.50 - 4.00	B	N=3 (1,0/1,0,1,1)					4
		4.00							
		4.00 - 4.45	D						
		5.00		N=12 (2,2/3,3,3,3)	4.90			Stiff medium strength grey silty sandy CLAY.	5
		5.00 - 5.45	D						
		5.50 - 6.00	B						
		6.00		N=17 (2,2/3,4,4,6)					6
		6.00 - 6.45	D						
		7.50 - 7.95	U						
		9.00		N=31 (3,4/6,7,9,9)	8.80			Very stiff high strength greyish brown silty sandy gravelly CLAY.	9
		9.00 - 9.45	D						
		9.50 - 10.00	B						
									10

Continued on next sheet

Remarks

1. Complete.





Borehole Log

Borehole No.

CP103

Sheet 2 of 2

Project Name: Trubs Farm

Project No.
17524

Co-ords: -

Hole Type
CP

Location: Rochdale

Level:

Scale
1:50

Client: MCI Developments

Dates: 16/04/2024 - 17/04/2024

Logged By
JB Site Investigation

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description					
		Depth (m)	Type	Results									
		10.50 10.50 - 10.95	D	N=35 (3,5/7,9,10,9)	15.00				11				
		12.00 12.00 - 12.45	D	N=37 (5,5/8,8,11,10)					12				
		13.50 13.50 - 13.95	D	N=38 (5,7/7,9,11,11)					13				
					15.00			End of borehole at 15.00 m	14				
									15				
									16				
									17				
									18				
									19				
									20				
									21				

End of borehole at 15.00 m

Remarks

1. Complete.



APPENDIX VIII

CHEMICAL TESTING

RESULTS





Final Report

Report No.: 24-12170-1

Initial Date of Issue: 26-Apr-2024

Re-Issue Details:

Client E3P

Client Address: Taylor Road
Trafford Park
Urmston
Manchester
M41 7JQ

Contact(s): mdee@e3p.co.uk; jbeer@e3p.co.uk

Project Trubs Farm 17-524

Quotation No.: Q23-31421

Date Received: 19-Apr-2024

Order No.: 007990

Date Instructed: 19-Apr-2024

No. of Samples: 15

Turnaround (Wkdays): 5

Results Due: 25-Apr-2024

Date Approved: 26-Apr-2024

Approved By:

Details: David Smith, Technical Director
Nick Watson, Operations Director

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

Results - Leachate

Project: Trubs Farm 17-524

Client: E3P	Chemtest Job No.:				24-12170	24-12170	24-12170
Quotation No.: Q23-31421	Chemtest Sample ID.:				1795834	1795839	1795843
Order No.: 007990	Client Sample Ref.:				TP109	TP119	TP127
	Client Sample ID.:				TP109	TP119	TP127
	Sample Type:				SOIL	SOIL	SOIL
	Top Depth (m):				0.3	0.4	0.6
	Date Sampled:				15-Apr-2024	16-Apr-2024	16-Apr-2024
	Time Sampled:				12:00	12:00	12:00
Determinand	Accred.	SOP	Type	Units	LOD		
pH at 20C	U	1010	2:1		4.0	7.4	6.9
Cyanide (Total) Low-Level	N	1300	2:1	mg/l	0.0050	< 0.0050	< 0.0050
Arsenic (Dissolved)	U	1455	2:1	µg/l	0.20	6.5	11
Cadmium (Dissolved)	U	1455	2:1	µg/l	0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	2:1	µg/l	0.50	3.6	1.7
Copper (Dissolved)	U	1455	2:1	µg/l	0.50	16	15
Mercury (Dissolved)	U	1455	2:1	µg/l	0.05	0.10	< 0.05
Nickel (Dissolved)	U	1455	2:1	µg/l	0.50	1.6	1.9
Lead (Dissolved)	U	1455	2:1	µg/l	0.50	28	14
Selenium (Dissolved)	U	1455	2:1	µg/l	0.50	1.4	0.77
Zinc (Dissolved)	U	1455	2:1	µg/l	2.5	16	9.7
Chromium (Hexavalent)	U	1490	2:1	µg/l	20	< 20	< 20
C2 Aliphatic TPH >C5-C6	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10
C2 Aliphatic TPH >C6-C8	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10
C2 Aliphatic TPH >C8-C10	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10
C2 Aliphatic TPH >C10-C12	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10
C2 Aliphatic TPH >C12-C16	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10
C2 Aliphatic TPH >C16-C21	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10
C2 Aliphatic TPH >C21-C35	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10
C2 Aliphatic TPH >C35-C44	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	2:1	µg/l	5.0	< 5.0	< 5.0
C2 Aromatic TPH >C5-C7	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10
C2 Aromatic TPH >C7-C8	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10
C2 Aromatic TPH >C8-C10	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10
C2 Aromatic TPH >C10-C12	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10
C2 Aromatic TPH >C12-C16	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10
C2 Aromatic TPH >C16-C21	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10
C2 Aromatic TPH >C21-C35	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10
C2 Aromatic TPH >C35-C44	N	1675	2:1	µg/l	0.10	< 0.10	< 0.10
C2 Total Aromatic Hydrocarbons	N	1675	2:1	µg/l	5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	1675	2:1	µg/l	10	< 10	< 10
Benzene	U	1760	2:1	µg/l	1.0	< 1.0	< 1.0
Toluene	U	1760	2:1	µg/l	1.0	< 1.0	< 1.0
Ethylbenzene	U	1760	2:1	µg/l	1.0	< 1.0	< 1.0
m & p-Xylene	U	1760	2:1	µg/l	1.0	< 1.0	< 1.0
o-Xylene	U	1760	2:1	µg/l	1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether	N	1760	2:1	µg/l	1.0	< 1.0	< 1.0
Naphthalene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010

Results - Leachate

Project: Trubs Farm 17-524

Client: E3P	Chemtest Job No.:					24-12170	24-12170	24-12170
Quotation No.: Q23-31421	Chemtest Sample ID.:					1795834	1795839	1795843
Order No.: 007990	Client Sample Ref.:					TP109	TP119	TP127
	Client Sample ID.:					TP109	TP119	TP127
	Sample Type:					SOIL	SOIL	SOIL
	Top Depth (m):					0.3	0.4	0.6
	Date Sampled:					15-Apr-2024	16-Apr-2024	16-Apr-2024
	Time Sampled:					12:00	12:00	12:00
Determinand	Accred.	SOP	Type	Units	LOD			
Acenaphthylene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010
Acenaphthene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010
Fluorene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010
Phenanthrene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010
Anthracene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010
Fluoranthene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010
Pyrene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010
Benzo[a]anthracene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010
Chrysene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010
Benzo[b]fluoranthene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010
Benzo[k]fluoranthene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010
Benzo[a]pyrene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010
Indeno(1,2,3-c,d)Pyrene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010
Dibenz(a,h)Anthracene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010
Benzo[g,h,i]perylene	N	1800	2:1	µg/l	0.010	< 0.010	< 0.010	< 0.010
Total Of 16 PAH's	N	1800	2:1	µg/l	0.20	< 0.20	< 0.20	< 0.20
Total Phenols	U	1920	2:1	mg/l	0.030	< 0.030	< 0.030	< 0.030

Results - Soil

Project: Trubs Farm 17-524

Client: E3P		Chemtest Job No.:		24-12170	24-12170	24-12170	24-12170	24-12170	24-12170	24-12170	24-12170	24-12170
Quotation No.: Q23-31421		Chemtest Sample ID.:		1795830	1795831	1795832	1795833	1795834	1795835	1795836		
Order No.: 007990		Client Sample Ref.:		TP101	TP101	TP107	TP108	TP109	TP113	TP114		
		Client Sample ID.:		TP101	TP101	TP107	TP108	TP109	TP113	TP114		
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):		0.1	1.5	0.4	0.1	0.3	1	2		
		Date Sampled:		15-Apr-2024	15-Apr-2024	15-Apr-2024	15-Apr-2024	15-Apr-2024	15-Apr-2024	15-Apr-2024		
		Time Sampled:		12:00	12:00	12:00	12:00	12:00	12:00	12:00		
		Asbestos Lab:		NEW-ASB			NEW-ASB	NEW-ASB				
Determinand	HWOL Code	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		
Moisture		N	2030	%	0.020	13	19	23	30	8.5	6.8	6.8
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	None	None	Roots	Roots	Stones	None	None
Soil Texture		N	2040		N/A	Loam	Sand	Clay	Clay	Sand	Clay	Clay
pH at 20C		M	2010		4.0	8.0	7.5	7.7	7.3	7.7	7.9	8.0
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40							
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	< 0.010	< 0.010	0.018	0.021	0.015	< 0.010	0.017
Total Sulphur		U	2175	%	0.010	0.057	0.036	0.070	0.090	0.017	0.038	0.081
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	9.7	3.0	3.2	2.9	2.6	3.9	3.9
Sulphate (Total)		U	2430	%	0.010	0.096	0.12	0.12	0.13	0.039	0.11	0.069
Arsenic		M	2455	mg/kg	0.5	17	1.6	8.6	13	3.9	9.5	11
Barium		M	2455	mg/kg	0.5							
Beryllium		U	2455	mg/kg	0.5							
Cadmium		M	2455	mg/kg	0.10	< 0.10	< 0.10	0.11	0.23	< 0.10	< 0.10	< 0.10
Chromium		M	2455	mg/kg	0.5	21	4.4	15	42	8.0	27	32
Copper		M	2455	mg/kg	0.50	42	3.8	29	38	13	30	36
Mercury		M	2455	mg/kg	0.05	0.67	< 0.05	0.33	0.58	0.05	0.24	0.20
Nickel		M	2455	mg/kg	0.50	10	5.1	9.0	7.7	7.5	33	41
Lead		M	2455	mg/kg	0.50	74	3.2	51	83	11	26	30
Selenium		M	2455	mg/kg	0.25	0.58	< 0.25	0.46	0.60	< 0.25	0.90	0.89
Vanadium		U	2455	mg/kg	0.5							
Zinc		M	2455	mg/kg	0.50	45	10	51	69	25	85	93
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05							
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05							
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05							
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05							
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25							
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00							
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00							
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00							
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00							
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00							

Results - Soil

Project: Trubs Farm 17-524

Client: E3P		Chemtest Job No.:				24-12170	24-12170	24-12170	24-12170	24-12170	24-12170	24-12170
Quotation No.: Q23-31421		Chemtest Sample ID.:				1795830	1795831	1795832	1795833	1795834	1795835	1795836
Order No.: 007990		Client Sample Ref.:				TP101	TP101	TP107	TP108	TP109	TP113	TP114
		Client Sample ID.:				TP101	TP101	TP107	TP108	TP109	TP113	TP114
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.1	1.5	0.4	0.1	0.3	1	2
		Date Sampled:				15-Apr-2024	15-Apr-2024	15-Apr-2024	15-Apr-2024	15-Apr-2024	15-Apr-2024	15-Apr-2024
		Time Sampled:				12:00	12:00	12:00	12:00	12:00	12:00	12:00
		Asbestos Lab:				NEW-ASB			NEW-ASB	NEW-ASB		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00							
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00							
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05							
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05							
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05							
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25							
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00							
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00							
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00							
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00							
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00							
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00							
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00							
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50							
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00							
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00							
Total Organic Carbon		M	2625	%	0.20	3.0	0.37	7.4	6.5	0.52	0.60	0.53
TPH >C6-C8	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	12	< 1.0	8.1	11	< 1.0	< 1.0	< 1.0
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	34	< 1.0	27	15	< 1.0	< 1.0	< 1.0
TPH >C21-C25	EH_1D_Total	N	2670	mg/kg	1.0	21	< 1.0	18	8.9	< 1.0	< 1.0	< 1.0
TPH >C25-C35	EH_1D_Total	N	2670	mg/kg	1.0	50	< 1.0	54	22	< 1.0	< 1.0	< 1.0
TPH >C35-C40	EH_1D_Total	N	2670	mg/kg	1.0	12	< 1.0	8.0	< 1.0	< 1.0	< 1.0	< 1.0
Total TPH >C6-C40	EH_1D_Total	M	2670	mg/kg	10	130	< 10	120	56	< 10	< 10	< 10
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							
Dichloromethane		N	2760	µg/kg	50							
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							

Results - Soil

Project: Trubs Farm 17-524

Client: E3P		Chemtest Job No.:		24-12170	24-12170	24-12170	24-12170	24-12170	24-12170	24-12170
Quotation No.: Q23-31421		Chemtest Sample ID.:		1795830	1795831	1795832	1795833	1795834	1795835	1795836
Order No.: 007990		Client Sample Ref.:		TP101	TP101	TP107	TP108	TP109	TP113	TP114
		Client Sample ID.:		TP101	TP101	TP107	TP108	TP109	TP113	TP114
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.1	1.5	0.4	0.1	0.3	1	2
		Date Sampled:		15-Apr-2024	15-Apr-2024	15-Apr-2024	15-Apr-2024	15-Apr-2024	15-Apr-2024	15-Apr-2024
		Time Sampled:		12:00	12:00	12:00	12:00	12:00	12:00	12:00
		Asbestos Lab:		NEW-ASB			NEW-ASB	NEW-ASB		
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
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					
Ethylbenzene		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					

Results - Soil

Project: Trubs Farm 17-524

Client: E3P		Chemtest Job No.:		24-12170	24-12170	24-12170	24-12170	24-12170	24-12170	24-12170
Quotation No.: Q23-31421		Chemtest Sample ID.:		1795830	1795831	1795832	1795833	1795834	1795835	1795836
Order No.: 007990		Client Sample Ref.:		TP101	TP101	TP107	TP108	TP109	TP113	TP114
		Client Sample ID.:		TP101	TP101	TP107	TP108	TP109	TP113	TP114
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.1	1.5	0.4	0.1	0.3	1	2
		Date Sampled:		15-Apr-2024	15-Apr-2024	15-Apr-2024	15-Apr-2024	15-Apr-2024	15-Apr-2024	15-Apr-2024
		Time Sampled:		12:00	12:00	12:00	12:00	12:00	12:00	12:00
		Asbestos Lab:		NEW-ASB			NEW-ASB	NEW-ASB		
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
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		N	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					
Phenol		M	2790	mg/kg	0.50					
2-Chlorophenol		N	2790	mg/kg	0.50					
Bis-(2-Chloroethyl)Ether		M	2790	mg/kg	0.50					
1,3-Dichlorobenzene		M	2790	mg/kg	0.50					
1,4-Dichlorobenzene		N	2790	mg/kg	0.50					
1,2-Dichlorobenzene		M	2790	mg/kg	0.50					
2-Methylphenol		M	2790	mg/kg	0.50					
Bis(2-Chloroisopropyl)Ether		M	2790	mg/kg	0.50					
Hexachloroethane		N	2790	mg/kg	0.50					
N-Nitrosodi-n-propylamine		M	2790	mg/kg	0.50					
4-Methylphenol		M	2790	mg/kg	0.50					
Nitrobenzene		N	2790	mg/kg	0.50					
Isophorone		M	2790	mg/kg	0.50					
2-Nitrophenol		N	2790	mg/kg	0.50					
2,4-Dimethylphenol		N	2790	mg/kg	0.50					
Bis(2-Chloroethoxy)Methane		M	2790	mg/kg	0.50					
2,4-Dichlorophenol		N	2790	mg/kg	0.50					
1,2,4-Trichlorobenzene		M	2790	mg/kg	0.50					
Naphthalene		M	2790	mg/kg	0.50					
4-Chloroaniline		N	2790	mg/kg	0.50					
Hexachlorobutadiene		M	2790	mg/kg	0.50					
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50					
2-Methylnaphthalene		M	2790	mg/kg	0.50					
4-Nitrophenol		N	2790	mg/kg	0.50					
Hexachlorocyclopentadiene		N	2790	mg/kg	0.50					
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50					
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50					

Results - Soil

Project: Trubs Farm 17-524

Client: E3P		Chemtest Job No.:		24-12170	24-12170	24-12170	24-12170	24-12170	24-12170	24-12170
Quotation No.: Q23-31421		Chemtest Sample ID.:		1795830	1795831	1795832	1795833	1795834	1795835	1795836
Order No.: 007990		Client Sample Ref.:		TP101	TP101	TP107	TP108	TP109	TP113	TP114
		Client Sample ID.:		TP101	TP101	TP107	TP108	TP109	TP113	TP114
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.1	1.5	0.4	0.1	0.3	1	2
		Date Sampled:		15-Apr-2024	15-Apr-2024	15-Apr-2024	15-Apr-2024	15-Apr-2024	15-Apr-2024	15-Apr-2024
		Time Sampled:		12:00	12:00	12:00	12:00	12:00	12:00	12:00
		Asbestos Lab:		NEW-ASB			NEW-ASB	NEW-ASB		
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
2-Chloronaphthalene		M	2790	mg/kg	0.50					
2-Nitroaniline		N	2790	mg/kg	0.50					
Acenaphthylene		M	2790	mg/kg	0.50					
Dimethylphthalate		M	2790	mg/kg	0.50					
2,6-Dinitrotoluene		N	2790	mg/kg	0.50					
Acenaphthene		M	2790	mg/kg	0.50					
3-Nitroaniline		N	2790	mg/kg	0.50					
Dibenzofuran		M	2790	mg/kg	0.50					
4-Chlorophenylphenylether		M	2790	mg/kg	0.50					
2,4-Dinitrotoluene		N	2790	mg/kg	0.50					
Fluorene		M	2790	mg/kg	0.50					
Diethyl Phthalate		M	2790	mg/kg	0.50					
4-Nitroaniline		N	2790	mg/kg	0.50					
Azobenzene		M	2790	mg/kg	0.50					
4-Bromophenylphenyl Ether		M	2790	mg/kg	0.50					
Hexachlorobenzene		M	2790	mg/kg	0.50					
Phenanthrene		M	2790	mg/kg	0.50					
Anthracene		M	2790	mg/kg	0.50					
Carbazole		M	2790	mg/kg	0.50					
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50					
Fluoranthene		M	2790	mg/kg	0.50					
Pyrene		M	2790	mg/kg	0.50					
Butylbenzyl Phthalate		N	2790	mg/kg	0.50					
Benzo[a]anthracene		M	2790	mg/kg	0.50					
Chrysene		M	2790	mg/kg	0.50					
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50					
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50					
Benzo[b]fluoranthene		M	2790	mg/kg	0.50					
Benzo[k]fluoranthene		M	2790	mg/kg	0.50					
Benzo[a]pyrene		M	2790	mg/kg	0.50					
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50					
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50					
Benzo[g,h,i]perylene		M	2790	mg/kg	0.50					
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.24	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: Trubs Farm 17-524

Client: E3P		Chemtest Job No.: 24-12170						24-12170	24-12170	24-12170	24-12170	24-12170	24-12170
Quotation No.: Q23-31421		Chemtest Sample ID.: 1795830						1795831	1795832	1795833	1795834	1795835	1795836
Order No.: 007990		Client Sample Ref.:						TP101	TP101	TP107	TP108	TP109	TP113
		Client Sample ID.:						TP101	TP101	TP107	TP108	TP109	TP113
		Sample Type:						SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):						0.1	1.5	0.4	0.1	0.3	1
		Date Sampled:						15-Apr-2024	15-Apr-2024	15-Apr-2024	15-Apr-2024	15-Apr-2024	15-Apr-2024
		Time Sampled:						12:00	12:00	12:00	12:00	12:00	12:00
		Asbestos Lab:						NEW-ASB			NEW-ASB	NEW-ASB	
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Phenanthrene		M	2800	mg/kg	0.10	1.9	< 0.10	3.0	0.96	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	0.50	< 0.10	1.2	0.29	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	3.1	< 0.10	11	1.9	0.21	< 0.10	< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	3.1	< 0.10	9.1	1.8	0.21	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.6	< 0.10	3.2	0.94	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	1.7	< 0.10	3.9	1.2	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.9	< 0.10	3.6	1.4	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.63	< 0.10	1.5	0.57	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.8	< 0.10	3.0	1.1	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.85	< 0.10	1.9	0.71	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.22	< 0.10	0.74	0.26	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.99	< 0.10	2.0	0.78	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	18	< 2.0	44	12	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: Trubs Farm 17-524

Client: E3P		Chemtest Job No.:		24-12170	24-12170	24-12170	24-12170	24-12170	24-12170	24-12170	24-12170	24-12170
Quotation No.: Q23-31421		Chemtest Sample ID.:		1795837	1795838	1795839	1795840	1795841	1795842	1795843		
Order No.: 007990		Client Sample Ref.:		TP110	TP118	TP119	TP119	TP120	TP125	TP127		
		Client Sample ID.:		TP110	TP118	TP119	TP119	TP120	TP125	TP127		
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):		0.1	1	0.4	0.1	0.1	0.1	0.6		
		Date Sampled:		15-Apr-2024	16-Apr-2024	16-Apr-2024	16-Apr-2024	16-Apr-2024	16-Apr-2024	16-Apr-2024		
		Time Sampled:		12:00	12:00	12:00	12:00	12:00	12:00	12:00		
		Asbestos Lab:		NEW-ASB		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB		
Determinand	HWOL Code	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
Moisture		N	2030	%	0.020	23	17	30	32	15	37	6.4
Soil Colour		N	2040		N/A	Brown	Brown		Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Roots	None		Roots	Roots	Roots	Roots
Soil Texture		N	2040		N/A	Clay	Clay		Clay	Clay	Clay	Sand
pH at 20C		M	2010		4.0	7.0	7.5		8.0	9.0	8.3	8.2
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40			0.50				
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	0.021	0.022		0.017	< 0.010	< 0.010	< 0.010
Total Sulphur		U	2175	%	0.010	0.081	0.16		0.23	0.070	0.15	< 0.010
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50	0.60	0.60	< 0.50	0.50	< 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	2.9	4.0		2.4	3.8	5.1	6.4
Sulphate (Total)		U	2430	%	0.010	0.24	0.23		0.31	0.13	0.24	0.13
Arsenic		M	2455	mg/kg	0.5	13	5.2	24	33	21	28	5.4
Barium		M	2455	mg/kg	0.5			150				
Beryllium		U	2455	mg/kg	0.5			< 0.5				
Cadmium		M	2455	mg/kg	0.10	0.22	< 0.10	0.19	0.11	0.26	0.50	< 0.10
Chromium		M	2455	mg/kg	0.5	28	17	20	18	35	38	12
Copper		M	2455	mg/kg	0.50	57	16	41	37	58	80	11
Mercury		M	2455	mg/kg	0.05	0.61	< 0.05	0.27	0.22	0.59	0.82	0.05
Nickel		M	2455	mg/kg	0.50	11	21	8.0	7.6	13	15	13
Lead		M	2455	mg/kg	0.50	99	8.6	67	49	110	140	8.8
Selenium		M	2455	mg/kg	0.25	0.71	0.58	0.59	0.51	0.76	0.87	0.35
Vanadium		U	2455	mg/kg	0.5			11				
Zinc		M	2455	mg/kg	0.50	91	45	49	39	88	150	33
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05			< 0.05				
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05			< 0.05				
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05			< 0.05				
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05			< 0.05				
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25			< 0.25				
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00			3.7				
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00			1.7				
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00			7.5				
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00			54				
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00			35				

Results - Soil

Project: Trubs Farm 17-524

Client: E3P		Chemtest Job No.:				24-12170	24-12170	24-12170	24-12170	24-12170	24-12170	24-12170
Quotation No.: Q23-31421		Chemtest Sample ID.:				1795837	1795838	1795839	1795840	1795841	1795842	1795843
Order No.: 007990		Client Sample Ref.:				TP110	TP118	TP119	TP119	TP120	TP125	TP127
		Client Sample ID.:				TP110	TP118	TP119	TP119	TP120	TP125	TP127
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.1	1	0.4	0.1	0.1	0.1	0.6
		Date Sampled:				15-Apr-2024	16-Apr-2024	16-Apr-2024	16-Apr-2024	16-Apr-2024	16-Apr-2024	16-Apr-2024
		Time Sampled:				12:00	12:00	12:00	12:00	12:00	12:00	12:00
		Asbestos Lab:				NEW-ASB		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00			66				
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00			100				
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05			< 0.05				
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05			< 0.05				
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05			< 0.05				
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25			< 0.25				
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00			< 1.0				
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00			< 1.0				
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00			13				
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00			190				
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00			39				
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00			200				
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00			240				
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50			< 0.50				
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00			270				
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00			340				
Total Organic Carbon		M	2625	%	0.20	6.5	1.4		7.8	4.6	10	0.58
TPH >C6-C8	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	5.2	< 1.0		< 1.0	8.4	9.7	< 1.0
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	8.0	< 1.0		< 1.0	17	12	< 1.0
TPH >C21-C25	EH_1D_Total	N	2670	mg/kg	1.0	4.9	< 1.0		< 1.0	11	11	< 1.0
TPH >C25-C35	EH_1D_Total	N	2670	mg/kg	1.0	20	< 1.0		< 1.0	23	22	< 1.0
TPH >C35-C40	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0		< 1.0	3.0	< 1.0	< 1.0
Total TPH >C6-C40	EH_1D_Total	M	2670	mg/kg	10	38	< 10		< 10	62	54	< 10
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				
Dichloromethane		N	2760	µg/kg	50			< 50				
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				

Results - Soil

Project: Trubs Farm 17-524

Client: E3P		Chemtest Job No.:		24-12170	24-12170	24-12170	24-12170	24-12170	24-12170	24-12170
Quotation No.: Q23-31421		Chemtest Sample ID.:		1795837	1795838	1795839	1795840	1795841	1795842	1795843
Order No.: 007990		Client Sample Ref.:		TP110	TP118	TP119	TP119	TP120	TP125	TP127
		Client Sample ID.:		TP110	TP118	TP119	TP119	TP120	TP125	TP127
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.1	1	0.4	0.1	0.1	0.1	0.6
		Date Sampled:		15-Apr-2024	16-Apr-2024	16-Apr-2024	16-Apr-2024	16-Apr-2024	16-Apr-2024	16-Apr-2024
		Time Sampled:		12:00	12:00	12:00	12:00	12:00	12:00	12:00
		Asbestos Lab:		NEW-ASB		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
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		
Ethylbenzene		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			< 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		

Results - Soil

Project: Trubs Farm 17-524

Client: E3P		Chemtest Job No.:	24-12170	24-12170	24-12170	24-12170	24-12170	24-12170	24-12170
Quotation No.: Q23-31421		Chemtest Sample ID.:	1795837	1795838	1795839	1795840	1795841	1795842	1795843
Order No.: 007990		Client Sample Ref.:	TP110	TP118	TP119	TP119	TP120	TP125	TP127
		Client Sample ID.:	TP110	TP118	TP119	TP119	TP120	TP125	TP127
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.1	1	0.4	0.1	0.1	0.1	0.6
		Date Sampled:	15-Apr-2024	16-Apr-2024	16-Apr-2024	16-Apr-2024	16-Apr-2024	16-Apr-2024	16-Apr-2024
		Time Sampled:	12:00	12:00	12:00	12:00	12:00	12:00	12:00
		Asbestos Lab:	NEW-ASB		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
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		N	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		N	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		N	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	
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		N	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		N	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		N	2790	mg/kg	0.50			< 0.50	
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50			< 0.50	

Results - Soil

Project: Trubs Farm 17-524

Client: E3P		Chemtest Job No.:		24-12170	24-12170	24-12170	24-12170	24-12170	24-12170	24-12170
Quotation No.: Q23-31421		Chemtest Sample ID.:		1795837	1795838	1795839	1795840	1795841	1795842	1795843
Order No.: 007990		Client Sample Ref.:		TP110	TP118	TP119	TP119	TP120	TP125	TP127
		Client Sample ID.:		TP110	TP118	TP119	TP119	TP120	TP125	TP127
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.1	1	0.4	0.1	0.1	0.1	0.6
		Date Sampled:		15-Apr-2024	16-Apr-2024	16-Apr-2024	16-Apr-2024	16-Apr-2024	16-Apr-2024	16-Apr-2024
		Time Sampled:		12:00	12:00	12:00	12:00	12:00	12:00	12:00
		Asbestos Lab:		NEW-ASB		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
2-Chloronaphthalene		M	2790	mg/kg	0.50			< 0.50		
2-Nitroaniline		N	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		N	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		N	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		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		
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		N	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		
Butylbenzyl Phthalate		N	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		N	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		N	2790	mg/kg	0.50			< 0.50		
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50			< 0.50		
Benzo[g,h,i]perylene		M	2790	mg/kg	0.50			< 0.50		
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: Trubs Farm 17-524

Client: E3P		Chemtest Job No.:						24-12170	24-12170	24-12170	24-12170	24-12170	24-12170	24-12170
Quotation No.: Q23-31421		Chemtest Sample ID.:						1795837	1795838	1795839	1795840	1795841	1795842	1795843
Order No.: 007990		Client Sample Ref.:						TP110	TP118	TP119	TP119	TP120	TP125	TP127
		Client Sample ID.:						TP110	TP118	TP119	TP119	TP120	TP125	TP127
		Sample Type:						SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):						0.1	1	0.4	0.1	0.1	0.1	0.6
		Date Sampled:						15-Apr-2024	16-Apr-2024	16-Apr-2024	16-Apr-2024	16-Apr-2024	16-Apr-2024	16-Apr-2024
		Time Sampled:						12:00	12:00	12:00	12:00	12:00	12:00	12:00
		Asbestos Lab:						NEW-ASB		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD									
Phenanthrene		M	2800	mg/kg	0.10	0.38	< 0.10			0.67	1.4	2.4	< 0.10	
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10			< 0.10	0.34	0.43	< 0.10	
Fluoranthene		M	2800	mg/kg	0.10	0.68	< 0.10			1.1	2.5	3.6	< 0.10	
Pyrene		M	2800	mg/kg	0.10	0.60	< 0.10			0.93	2.4	3.1	< 0.10	
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10			0.51	1.0	1.5	< 0.10	
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10			0.61	1.3	1.8	< 0.10	
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10			0.69	1.3	2.1	< 0.10	
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10			0.24	0.43	0.78	< 0.10	
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10			0.48	1.1	1.7	< 0.10	
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10			0.36	0.68	1.1	< 0.10	
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10			< 0.10	0.20	0.29	< 0.10	
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10			0.35	0.69	0.96	< 0.10	
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0			5.9	13	20	< 2.0	
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10			< 0.10	< 0.10	< 0.10	< 0.10	

Results - Soil

Project: Trubs Farm 17-524

Client: E3P		Chemtest Job No.:				24-12170
Quotation No.: Q23-31421		Chemtest Sample ID.:				1795844
Order No.: 007990		Client Sample Ref.:				WS103
		Client Sample ID.:				WS103
		Sample Type:				SOIL
		Top Depth (m):				0.8
		Date Sampled:				17-Apr-2024
		Time Sampled:				12:00
		Asbestos Lab:				NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
ACM Type		U	2192		N/A	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected
Moisture		N	2030	%	0.020	14
Soil Colour		N	2040		N/A	
Other Material		N	2040		N/A	
Soil Texture		N	2040		N/A	
pH at 20C		M	2010		4.0	
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.41
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	
Total Sulphur		U	2175	%	0.010	
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	
Sulphate (Total)		U	2430	%	0.010	
Arsenic		M	2455	mg/kg	0.5	5.6
Barium		M	2455	mg/kg	0.5	48
Beryllium		U	2455	mg/kg	0.5	< 0.5
Cadmium		M	2455	mg/kg	0.10	< 0.10
Chromium		M	2455	mg/kg	0.5	10
Copper		M	2455	mg/kg	0.50	17
Mercury		M	2455	mg/kg	0.05	0.13
Nickel		M	2455	mg/kg	0.50	6.9
Lead		M	2455	mg/kg	0.50	22
Selenium		M	2455	mg/kg	0.25	0.29
Vanadium		U	2455	mg/kg	0.5	14
Zinc		M	2455	mg/kg	0.50	46
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	4.4
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	5.1
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	3.1
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	37
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	25

Results - Soil

Project: Trubs Farm 17-524

Client: E3P		Chemtest Job No.:				24-12170
Quotation No.: Q23-31421		Chemtest Sample ID.:				1795844
Order No.: 007990		Client Sample Ref.:				WS103
		Client Sample ID.:				WS103
		Sample Type:				SOIL
		Top Depth (m):				0.8
		Date Sampled:				17-Apr-2024
		Time Sampled:				12:00
		Asbestos Lab:				NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	49
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	74
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	3.4
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	54
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	30
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	57
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	87
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	110
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	160
Total Organic Carbon		M	2625	%	0.20	
TPH >C6-C8	EH_1D_Total	N	2670	mg/kg	1.0	
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	
TPH >C21-C25	EH_1D_Total	N	2670	mg/kg	1.0	
TPH >C25-C35	EH_1D_Total	N	2670	mg/kg	1.0	
TPH >C35-C40	EH_1D_Total	N	2670	mg/kg	1.0	
Total TPH >C6-C40	EH_1D_Total	M	2670	mg/kg	10	
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
Dichloromethane		N	2760	µg/kg	50	< 50
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

Results - Soil

Project: Trubs Farm 17-524

Client: E3P		Chemtest Job No.:	24-12170			
Quotation No.: Q23-31421		Chemtest Sample ID.:	1795844			
Order No.: 007990		Client Sample Ref.:	WS103			
		Client Sample ID.:	WS103			
		Sample Type:	SOIL			
		Top Depth (m):	0.8			
		Date Sampled:	17-Apr-2024			
		Time Sampled:	12:00			
		Asbestos Lab:	NEW-ASB			
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
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
Ethylbenzene		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	< 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

Results - Soil

Project: Trubs Farm 17-524

Client: E3P		Chemtest Job No.:	24-12170			
Quotation No.: Q23-31421		Chemtest Sample ID.:	1795844			
Order No.: 007990		Client Sample Ref.:	WS103			
		Client Sample ID.:	WS103			
		Sample Type:	SOIL			
		Top Depth (m):	0.8			
		Date Sampled:	17-Apr-2024			
		Time Sampled:	12:00			
		Asbestos Lab:	NEW-ASB			
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
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		N	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		N	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		N	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
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		N	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		N	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		N	2790	mg/kg	0.50	< 0.50
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50	< 0.50

Results - Soil

Project: Trubs Farm 17-524

Client: E3P		Chemtest Job No.:	24-12170			
Quotation No.: Q23-31421		Chemtest Sample ID.:	1795844			
Order No.: 007990		Client Sample Ref.:	WS103			
		Client Sample ID.:	WS103			
		Sample Type:	SOIL			
		Top Depth (m):	0.8			
		Date Sampled:	17-Apr-2024			
		Time Sampled:	12:00			
		Asbestos Lab:	NEW-ASB			
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
2-Chloronaphthalene		M	2790	mg/kg	0.50	< 0.50
2-Nitroaniline		N	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		N	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		N	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		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
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		N	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
Butylbenzyl Phthalate		N	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		N	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		N	2790	mg/kg	0.50	< 0.50
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50	< 0.50
Benzo[g,h,i]perylene		M	2790	mg/kg	0.50	< 0.50
Naphthalene		M	2800	mg/kg	0.10	
Acenaphthylene		N	2800	mg/kg	0.10	
Acenaphthene		M	2800	mg/kg	0.10	
Fluorene		M	2800	mg/kg	0.10	

Results - Soil

Project: Trubs Farm 17-524

Client: E3P		Chemtest Job No.:	24-12170			
Quotation No.: Q23-31421		Chemtest Sample ID.:	1795844			
Order No.: 007990		Client Sample Ref.:	WS103			
		Client Sample ID.:	WS103			
		Sample Type:	SOIL			
		Top Depth (m):	0.8			
		Date Sampled:	17-Apr-2024			
		Time Sampled:	12:00			
		Asbestos Lab:	NEW-ASB			
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Phenanthrene		M	2800	mg/kg	0.10	
Anthracene		M	2800	mg/kg	0.10	
Fluoranthene		M	2800	mg/kg	0.10	
Pyrene		M	2800	mg/kg	0.10	
Benzo[a]anthracene		M	2800	mg/kg	0.10	
Chrysene		M	2800	mg/kg	0.10	
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	
Benzo[a]pyrene		M	2800	mg/kg	0.10	
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	
Total Of 16 PAH's		N	2800	mg/kg	2.0	
Total Phenols		M	2920	mg/kg	0.10	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.	
1455	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).	
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	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	Pentane extraction / GCxGC FID detection	
1760	Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)	Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds.	
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	
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
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	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	
2455	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-diphenylcarbazine.	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
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	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane 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.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8-C10 Aromatics: >C5–C7,>C7-C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
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	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	
650	Characterisation of Waste (Leaching WAC)	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"
SOP	Standard operating procedure
LOD	Limit of detection

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

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

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

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

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

All results are expressed on a dry weight basis.

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

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

All Asbestos testing is performed at the indicated laboratory .

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

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 30 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.

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

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

HWOL Acronym System

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

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



Final Report

Report No.: 24-12569-1

Initial Date of Issue: 29-Apr-2024

Re-Issue Details:

Client E3P

Client Address: Taylor Road
Trafford Park
Urmston
Manchester
M41 7JQ

Contact(s): mdee@e3p.co.uk; jbeer@e3p.co.uk

Project Trubs Farm 17-524

Quotation No.: Q23-31421

Date Received: 23-Apr-2024

Order No.: 007990

Date Instructed: 23-Apr-2024

No. of Samples: 1

Turnaround (Wkdays): 5

Results Due: 29-Apr-2024

Date Approved: 29-Apr-2024

Approved By:

Details: David Smith, Technical Director

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

Results - Soil

Project: Trubs Farm 17-524

Client: E3P		Chemtest Job No.:		24-12569		
Quotation No.: Q23-31421		Chemtest Sample ID.:		1797570		
Order No.: 007990		Client Sample Ref.:		WS106		
		Client Sample ID.:		WS106		
		Sample Type:		SOIL		
		Top Depth (m):		3.7		
		Date Sampled:		17-Apr-2024		
		Time Sampled:		12:00		
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Moisture		N	2030	%	0.020	14
Soil Colour		N	2040		N/A	Brown
Other Material		N	2040		N/A	Roots and Stones
Soil Texture		N	2040		N/A	Sand
pH at 20C		M	2010		4.0	8.5
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	0.058
Total Sulphur		U	2175	%	0.010	0.083
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	18
Sulphate (Total)		U	2430	%	0.010	0.31
Arsenic		M	2455	mg/kg	0.5	7.4
Cadmium		M	2455	mg/kg	0.10	< 0.10
Chromium		M	2455	mg/kg	0.5	11
Copper		M	2455	mg/kg	0.50	12
Mercury		M	2455	mg/kg	0.05	< 0.05
Nickel		M	2455	mg/kg	0.50	18
Lead		M	2455	mg/kg	0.50	8.2
Selenium		M	2455	mg/kg	0.25	< 0.25
Zinc		M	2455	mg/kg	0.50	32
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50
Total Organic Carbon		M	2625	%	0.20	0.70
TPH >C6-C8	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0
TPH >C21-C25	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0
TPH >C25-C35	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0
TPH >C35-C40	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0
Total TPH >C6-C40	EH_1D_Total	M	2670	mg/kg	10	< 10
Naphthalene		M	2800	mg/kg	0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10

Results - Soil

Project: Trubs Farm 17-524

Client: E3P		Chemtest Job No.:	24-12569			
Quotation No.: Q23-31421		Chemtest Sample ID.:	1797570			
Order No.: 007990		Client Sample Ref.:	WS106			
		Client Sample ID.:	WS106			
		Sample Type:	SOIL			
		Top Depth (m):	3.7			
		Date Sampled:	17-Apr-2024			
		Time Sampled:	12:00			
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Pyrene		M	2800	mg/kg	0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
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.	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	
2455	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-diphenylcarbazine.	
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	
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	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	

Report Information

Key

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

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

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

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

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

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

All results are expressed on a dry weight basis.

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

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

All Asbestos testing is performed at the indicated laboratory .

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

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 30 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.

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

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

HWOL Acronym System

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

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



Amended Report

Report No.: 24-14928-2

Initial Date of Issue: 17-May-2024 **Date of Re-Issue:** 03-Jun-2024

Re-Issue Details: This report has been revised and directly supersedes 24-14928-1 in its entirety

Client: E3P

Client Address: Taylor Road
Trafford Park
Urmston
Manchester
M41 7JQ

Contact(s): jbeer@e3p.co.uk; mdee@e3p.co.uk

Project: Trub Farm 17-524

Quotation No.: Q23-31421 **Date Received:** 13-May-2024

Order No.: 8197 **Date Instructed:** 13-May-2024

No. of Samples: 5

Turnaround (Wkdays): 5 **Results Due:** 17-May-2024

Date Approved: 17-May-2024

Approved By:

Details: David Smith, Technical Director

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

Results - Water

Project: Trub Farm 17-524

Client: E3P		Chemtest Job No.:				24-14928	24-14928	24-14928	24-14928	24-14928
Quotation No.: Q23-31421		Chemtest Sample ID.:				1806240	1806241	1806242	1806243	1806244
		Client Sample ID.:				WS103	WS105	WS1112	Brook East	Brook West
		Sample Type:				WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:								
		Date Sampled:				09-May-2024	09-May-2024	09-May-2024	09-May-2024	09-May-2024
		Time Sampled:				0:00	0:00	0:00	0:00	0:00
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
pH at 20C		U	1010		4.0	6.6	6.3	6.5	7.7	7.3
Cyanide (Total) Low-Level		N	1300	mg/l	0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Calcium (Dissolved)		U	1455	mg/l	2.00				8.2	7.8
Arsenic (Dissolved)		U	1455	µg/l	0.20	0.49	10	6.0	0.60	0.77
Cadmium (Dissolved)		U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Chromium (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Copper (Dissolved)		U	1455	µg/l	0.50	1.6	< 0.50	< 0.50	4.3	3.9
Manganese (Dissolved)		U	1455	µg/l	0.50	6200	590	1200	5.2	2.1
Nickel (Dissolved)		U	1455	µg/l	0.50	2.8	5.8	1.3	1.5	0.96
Lead (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.82
Selenium (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)		U	1455	µg/l	2.5	15	11	11	11	15
Mercury Low Level		U	1460	µg/l	0.010	0.020	< 0.010	< 0.010	< 0.010	< 0.010
Chromium (Hexavalent)		U	1490	µg/l	20	[B] < 20	[B] < 20	[B] < 20	[B] < 20	[B] < 20
Dissolved Organic Carbon		U	1610	mg/l	2.0				5.1	5.1
Aliphatic TPH >C5-C6	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C21-C35	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	EH_2D_AL_#1	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C16-C21	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C21-C35	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C35-C44	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	EH_2D_AR_#1	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	EH_2D_Total_#1	N	1675	µg/l	10	< 10	< 10	< 10	< 10	< 10
Dichlorodifluoromethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane		U	1760	µg/l	5	< 5	< 5	< 5	< 5	< 5
Chloroethane		U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Results - Water

Project: Trub Farm 17-524

Client: E3P		Chemtest Job No.:				24-14928	24-14928	24-14928	24-14928	24-14928
Quotation No.: Q23-31421		Chemtest Sample ID.:				1806240	1806241	1806242	1806243	1806244
		Client Sample ID.:				WS103	WS105	WS1112	Brook East	Brook West
		Sample Type:				WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:								
		Date Sampled:				09-May-2024	09-May-2024	09-May-2024	09-May-2024	09-May-2024
		Time Sampled:				0:00	0:00	0:00	0:00	0:00
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Trichlorofluoromethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans 1,2-Dichloroethene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane		U	1760	µg/l	5	< 5	< 5	< 5	< 5	< 5
Trichloromethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane		U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichloroethene		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane		U	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10
Bromodichloromethane		U	1760	µg/l	5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene		N	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10
Toluene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene		N	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10
1,1,2-Trichloroethane		U	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane		U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromochloromethane		U	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane		U	1760	µg/l	5	< 5	< 5	< 5	< 5	< 5
Chlorobenzene		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane		U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane		N	1760	µg/l	50	< 50	< 50	< 50	< 50	< 50
N-Propylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tert-Butylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Water

Project: Trub Farm 17-524

Client: E3P		Chemtest Job No.:				24-14928	24-14928	24-14928	24-14928	24-14928
Quotation No.: Q23-31421		Chemtest Sample ID.:				1806240	1806241	1806242	1806243	1806244
		Client Sample ID.:				WS103	WS105	WS1112	Brook East	Brook West
		Sample Type:				WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:								
		Date Sampled:				09-May-2024	09-May-2024	09-May-2024	09-May-2024	09-May-2024
		Time Sampled:				0:00	0:00	0:00	0:00	0:00
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
1,2,4-Trimethylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Sec-Butylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Isopropyltoluene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Butylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane		U	1760	µg/l	50	< 50	< 50	< 50	< 50	< 50
1,2,4-Trichlorobenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene		U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Tert-Butyl Ether		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Nitrosodimethylamine		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylphenol (o-Cresol)		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachloroethane		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Nitrosodi-n-propylamine		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methylphenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Nitrobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isophorone		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitrophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dimethylphenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dichlorophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloroaniline		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloro-3-Methylphenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylnaphthalene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorocyclopentadiene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,6-Trichlorophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,5-Trichlorophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results - Water

Project: Trub Farm 17-524

Client: E3P		Chemtest Job No.:				24-14928	24-14928	24-14928	24-14928	24-14928
Quotation No.: Q23-31421		Chemtest Sample ID.:				1806240	1806241	1806242	1806243	1806244
		Client Sample ID.:				WS103	WS105	WS1112	Brook East	Brook West
		Sample Type:				WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:								
		Date Sampled:				09-May-2024	09-May-2024	09-May-2024	09-May-2024	09-May-2024
		Time Sampled:				0:00	0:00	0:00	0:00	0:00
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
2-Chloronaphthalene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitroaniline		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthylene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dimethylphthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,6-Dinitrotoluene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
3-Nitroaniline		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenzofuran		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorophenylphenylether		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dinitrotoluene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluorene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitroaniline		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methyl-4,6-Dinitrophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Azobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Bromophenylphenyl Ether		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenanthrene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Anthracene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Carbazole		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Butyl Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluoranthene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Pyrene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Butylbenzyl Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]anthracene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chrysene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Ethylhexyl)Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Octyl Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[b]fluoranthene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[k]fluoranthene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]pyrene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenz(a,h)Anthracene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[g,h,i]perylene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitrophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Phenols		U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030

Deviations

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

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1806240		WS103		09-May-2024	B	Coloured Winchester 1000ml
1806240		WS103		09-May-2024	B	EPA Vial 40ml
1806240		WS103		09-May-2024	B	Plastic Bottle 1000ml
1806241		WS105		09-May-2024	B	Coloured Winchester 1000ml
1806241		WS105		09-May-2024	B	EPA Vial 40ml
1806241		WS105		09-May-2024	B	Plastic Bottle 1000ml
1806242		WS1112		09-May-2024	B	Coloured Winchester 1000ml
1806242		WS1112		09-May-2024	B	EPA Vial 40ml
1806242		WS1112		09-May-2024	B	Plastic Bottle 1000ml
1806243		Brook East		09-May-2024	B	Coloured Winchester 1000ml
1806243		Brook East		09-May-2024	B	EPA Vial 40ml
1806243		Brook East		09-May-2024	B	Plastic Bottle 1000ml
1806244		Brook West		09-May-2024	B	Coloured Winchester 1000ml
1806244		Brook West		09-May-2024	B	EPA Vial 40ml
1806244		Brook West		09-May-2024	B	Plastic Bottle 1000ml

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	RE PW TE TS PL DW GW
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.	
1455	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).	RE PW PL SW DW GW
1460	Mercury low-level in Waters by AFS	Mercury	Atomic Fluorescence Spectrometry, with collimated UV source, wavelength 253.7 nm.	PL GW
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.	PL GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	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	Pentane extraction / GCxGC FID detection	
1760	Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)	Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds.	PL GW
1790	Semi-Volatile Organic Compounds (SVOCs) in Waters by GC-MS	Semi-volatile organic compounds	Solvent extraction / GCMS detection	
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	PL GW

Report Information

Key

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

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

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

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

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

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

All results are expressed on a dry weight basis.

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

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

All Asbestos testing is performed at the indicated laboratory .

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

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 30 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.

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

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

HWOL Acronym System

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

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

APPENDIX IX

GEOTECHNICAL TESTING

RESULTS



TEST REPORT

Client e3p

Address Taylor Road
Trafford Park
Urmston
Manchester
M41 7JQ

Contract Trubs Farm, 17-524

Job Number MRN 24005/86
Date of Issue 23 May 2024
Page 1 of 15

Approved Signatories

S J Hutchings, O P Davies

Notes

- 1 All remaining samples and remnants from this contract will be disposed 28 days from the date of this report unless you notify us to the contrary.
- 2 Result certificates, in this report, not bearing a UKAS mark, are not included in our UKAS accreditation schedule.
- 3 Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation.
- 4 Certified that the samples have been examined and tested in accordance with the terms of the contract/order and unless otherwise stated conform to the standards/specifications quoted.
- 5 The results included within the report are representative of the samples submitted for analysis.
- 6 This certificate should not be reproduced, except in full, without the express permission of the laboratory.



Andrew House, Hadfield Street, Dukinfield, Cheshire SK16 4QX Tel: 0161 475 0870
Email: enquiries@murrayrix.com Website: www.murrayrix.com

Also at: London: 020 8523 1999

Murray Rix is the trading name of Murray Rix (Northern) Limited. Registered in England 2878361

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



TEST CERTIFICATE

LIQUID LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.3 (30° FALL CONE) 1 POINT METHOD

PLASTIC LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.5

WATER CONTENT METHOD BS EN ISO 17892-1:2014+A1:2022

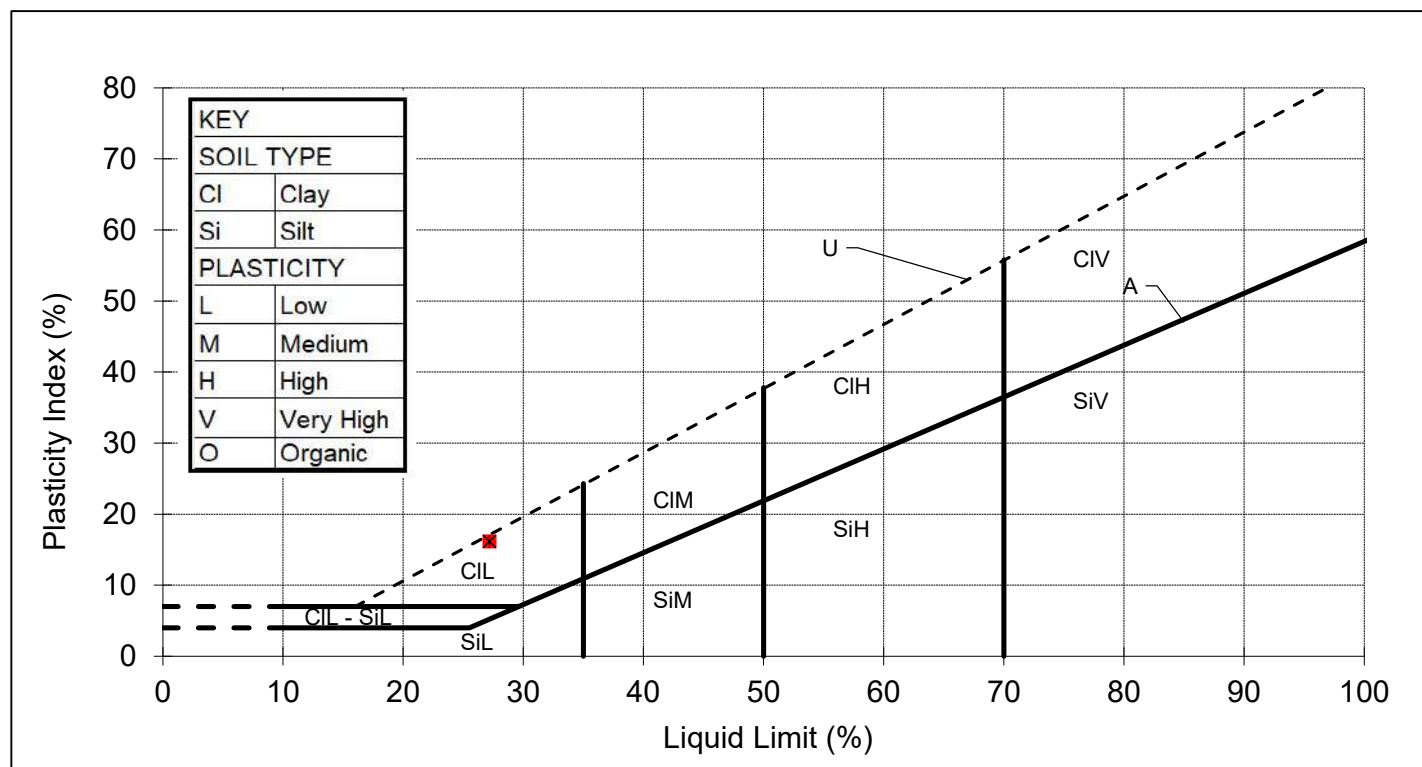
CLIENT	e3p
SITE	Trubs Farm, 17-524
JOB NUMBER	MRN 24005/86

SAMPLE LABEL	WS105 2 D	DATE SAMPLED	Not advised
SAMPLE No.	467504	DATE RECEIVED	02-May-24
DATE TESTED	07-May-24	SAMPLED BY	Client

MATERIAL	Brown silty slightly sandy CLAY		
ADVISED SOURCE	Site Investigation Sample	WATER CONTENT	Increasing
SAMPLE HISTORY	Natural State	% RET. 425um BY	Hand Picked

Test Readings mm (average)		Moisture Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	17.0	26.1	1.044	
Determination 2 (avg)	16.7	26.0		

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
14.9	27	11	16	100



REMARKS

SIGNED

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

23-May-24

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



TEST CERTIFICATE

LIQUID LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.3 (30° FALL CONE) 1 POINT METHOD

PLASTIC LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.5

WATER CONTENT METHOD BS EN ISO 17892-1:2014+A1:2022

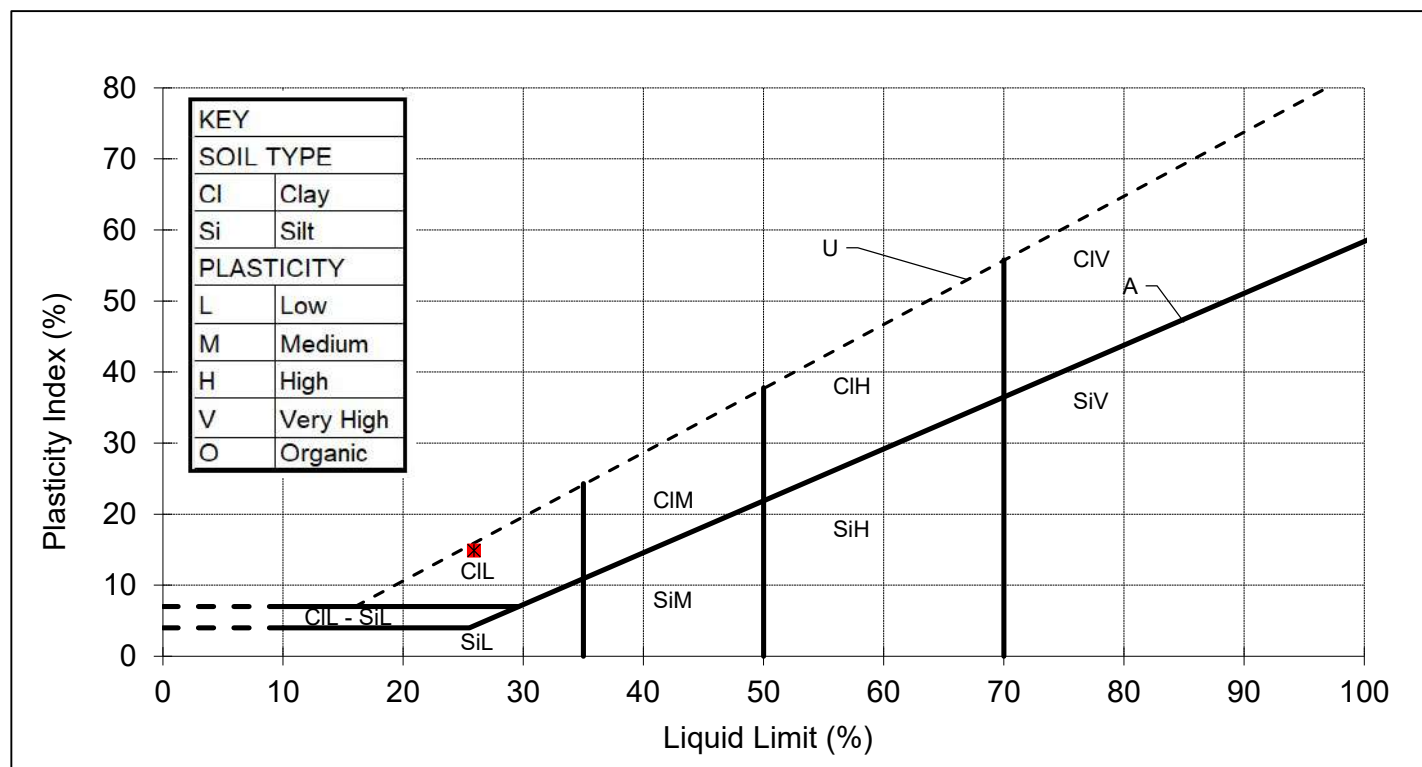
CLIENT	e3p
SITE	Trubs Farm, 17-524
JOB NUMBER	MRN 24005/86

SAMPLE LABEL	WS107 2 D	DATE SAMPLED	Not advised
SAMPLE No.	467506	DATE RECEIVED	02-May-24
DATE TESTED	07-May-24	SAMPLED BY	Client

MATERIAL	Brown silty slightly sandy CLAY		
ADVISED SOURCE	Site Investigation Sample	WATER CONTENT	Increasing
SAMPLE HISTORY	Natural State	% RET. 425um BY	Hand Picked

Test Readings mm (average)		Moisture Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	18.6	25.5	1.022	
Determination 2 (avg)	18.5	25.2		

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
14.9	26	11	15	100



REMARKS

SIGNED

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

23-May-24

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



TEST CERTIFICATE

LIQUID LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.3 (30° FALL CONE) 1 POINT METHOD

PLASTIC LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.5

WATER CONTENT METHOD BS EN ISO 17892-1:2014+A1:2022

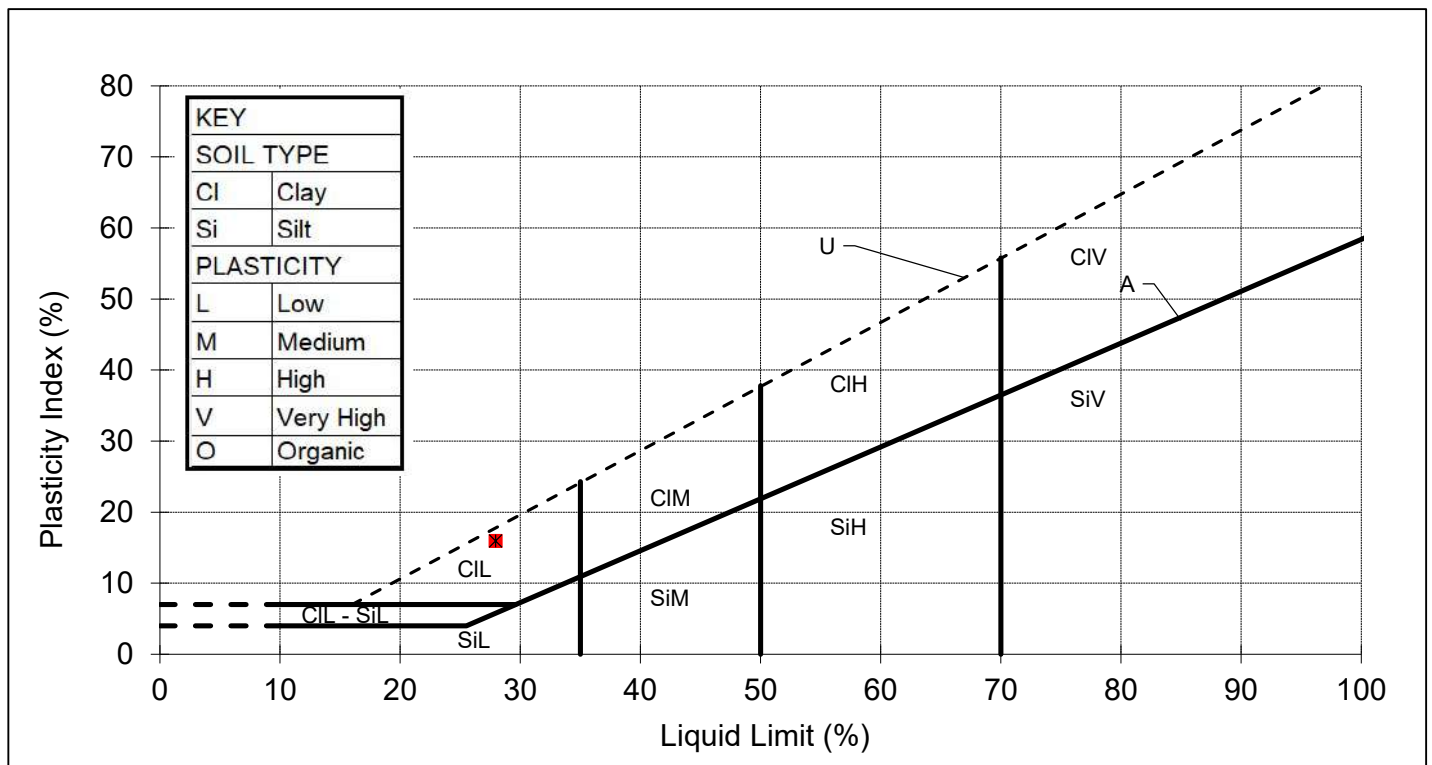
CLIENT	e3p
SITE	Trubs Farm, 17-524
JOB NUMBER	MRN 24005/86

SAMPLE LABEL	WS109 2 D	DATE SAMPLED	Not advised
SAMPLE No.	467508	DATE RECEIVED	02-May-24
DATE TESTED	07-May-24	SAMPLED BY	Client

MATERIAL	Brown silty slightly sandy CLAY		
ADVISED SOURCE	Site Investigation Sample	WATER CONTENT	Increasing
SAMPLE HISTORY	Natural State	% RET. 425um BY	Hand Picked

Test Readings mm (average)		Moisture Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	20.0	28.2	1.000	
Determination 2 (avg)	20.0	27.7		

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
14.9	28	12	16	100



REMARKS

SIGNED

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

23-May-24

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



TEST CERTIFICATE

LIQUID LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.3 (30° FALL CONE) 1 POINT METHOD

PLASTIC LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.5

WATER CONTENT METHOD BS EN ISO 17892-1:2014+A1:2022

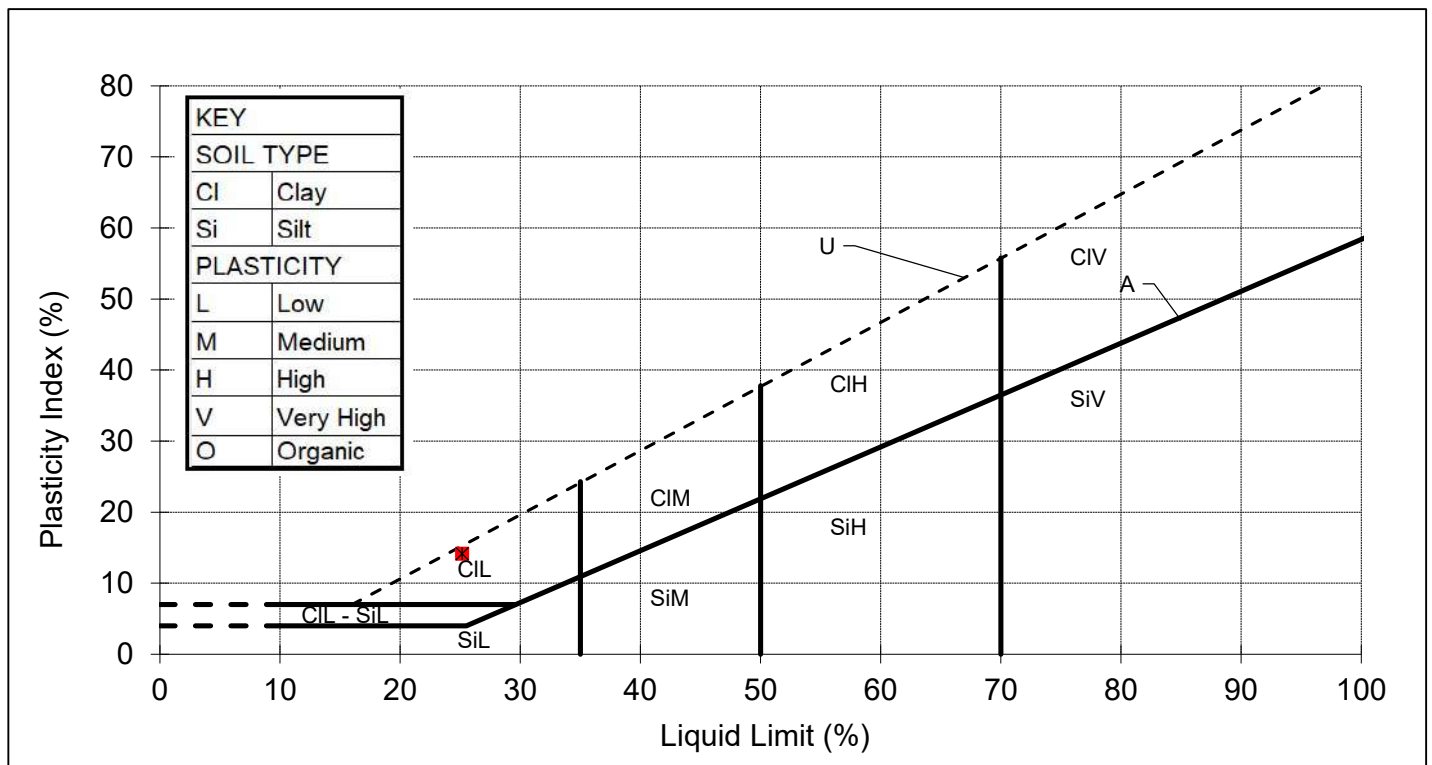
CLIENT	e3p
SITE	Trubs Farm, 17-524
JOB NUMBER	MRN 24005/86

SAMPLE LABEL	CP102 1.2-1.65 D	DATE SAMPLED	Not advised
SAMPLE No.	467509	DATE RECEIVED	02-May-24
DATE TESTED	07-May-24	SAMPLED BY	Client

MATERIAL	Brown silty slightly sandy CLAY		
ADVISED SOURCE	Site Investigation Sample	WATER CONTENT	Increasing
SAMPLE HISTORY	Natural State	% RET. 425um BY	Hand Picked

Test Readings mm (average)		Moisture Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	23.2	26.2	0.963	
Determination 2 (avg)	22.5	26.1		

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
15.0	25	11	14	100



REMARKS

SIGNED

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

23-May-24

TEST CERTIFICATE
PARTICLE SIZE DISTRIBUTION
BS EN ISO 17892-4:2016

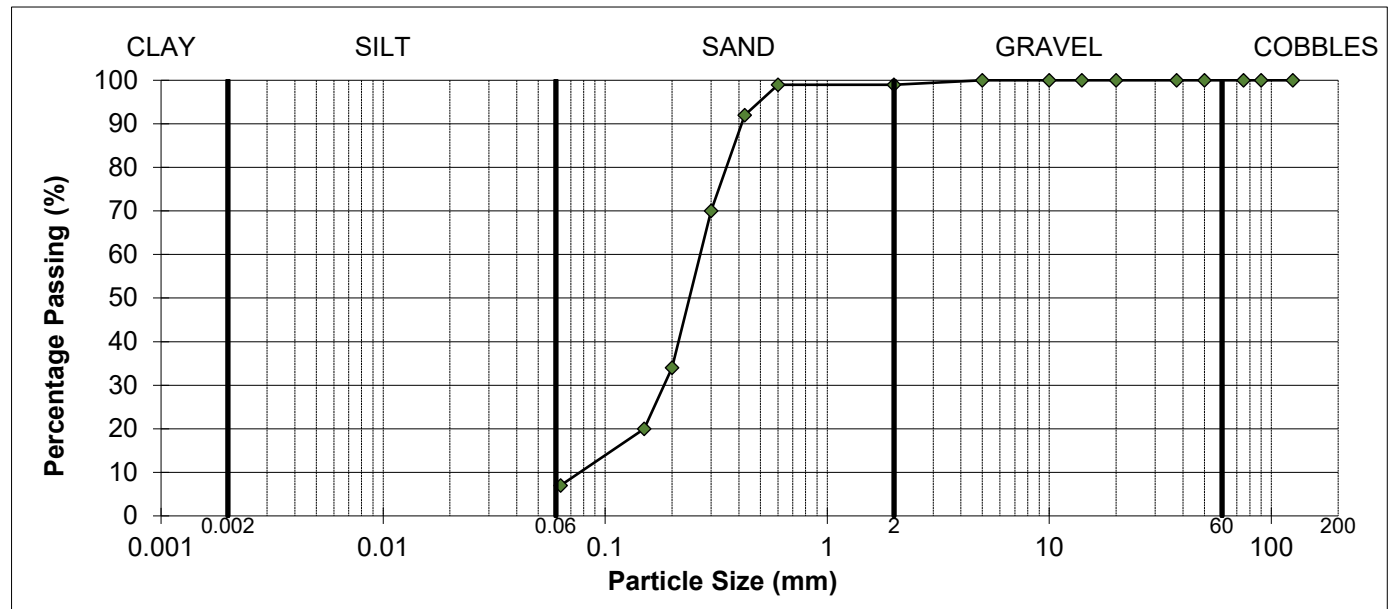
Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

CLIENT	e3p
SITE	Trubs Farm, 17-524
JOB NUMBER	MRN 24005/86

SAMPLE LABEL	TP124 0.7 B	DATE SAMPLED	Not advised
LAB SAMPLE No	467501	DATE RECEIVED	02-May-24
DATE TESTED	08-May-24	SAMPLED BY	Client

MATERIAL	Brown silty slightly gravelly SAND
ADVISED SOURCE	Site Investigation Sample

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	5	100	
90	100		2	99	
75	100		0.6	99	
50	100		0.425	92	
37.5	100		0.3	70	
20	100		0.2	34	
14	100		0.15	20	
10	100		0.063	7	<15



SOIL FRACTIONS			
COBBLES	0%	SAND	92%
GRAVEL	1%	SILT / CLAY	7%
As received water content		22.6%	

REMARKS

Sample complies with the advised grading specification for a 1B material (SHW 2016), Uniformity coefficient = <10

SIGNED
NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 23-May-24

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



TEST CERTIFICATE

DRY DENSITY/WATER CONTENT RELATIONSHIP 4.5kg RAMMER

BS 1377-2:2022 Cl.11

PARTICLE DENSITY METHOD BS 1377-2:2022 Cl.9.2

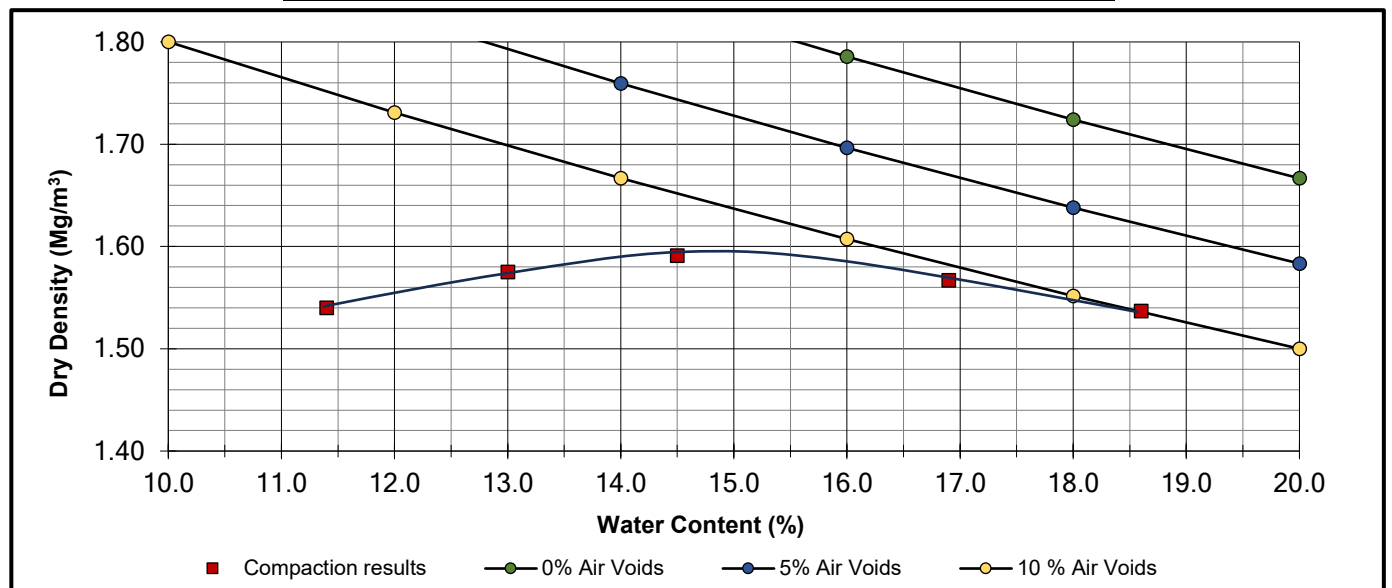
CLIENT	e3p
SITE	Trubs Farm, 17-524
JOB NUMBER	MRN 24005/86

SAMPLE LABEL	TP124 0.7 B	DATE SAMPLED	Not advised
SAMPLE NUMBER	467501	DATE RECEIVED	02-May-24
DATE TESTED	15-May-24	SAMPLED BY	Client

MATERIAL	Brown silty slightly gravelly SAND
ADVISED SOURCE	Site Investigation Sample
PRE TREATMENT	Air Dried / Separate Batches

RETAINED 37.5mm	0 %	GRADING ZONE	Zone 1
RETAINED 20mm	0 %	PARTICLE DENSITY	2.50 Mg/m ³ (Assumed)

POINT NUMBER	WATER CONTENT (%)	DRY DENSITY (Mg/m ³)
1	11.4	1.540
2	13.0	1.575
3	14.5	1.591
4	16.9	1.567
5	18.6	1.537



OPTIMUM WATER CONTENT	15 (%)
MAXIMUM DRY DENSITY	1.59 (Mg/m ³)

REMARKS

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

SIGNED

DATE 23-May-24

TEST CERTIFICATE
PARTICLE SIZE DISTRIBUTION
BS EN ISO 17892-4:2016

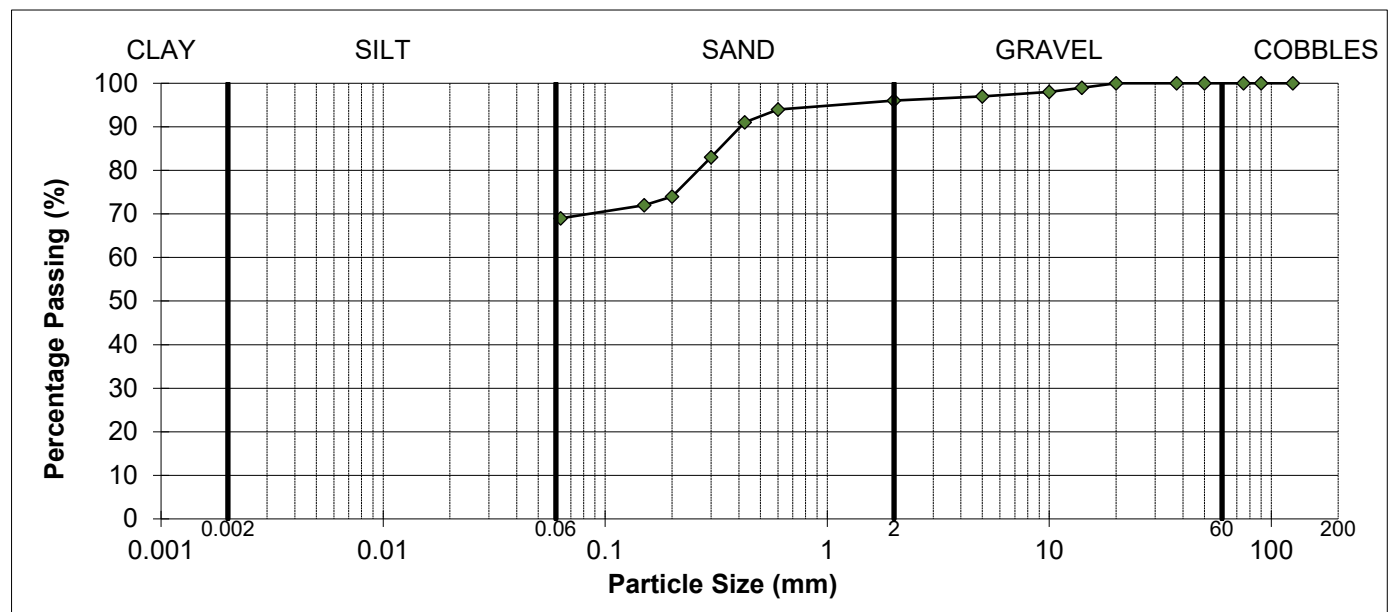
Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

CLIENT	e3p
SITE	Trubs Farm, 17-524
JOB NUMBER	MRN 24005/86

SAMPLE LABEL	WS107 1.5-2 B	DATE SAMPLED	Not advised
LAB SAMPLE No	467502	DATE RECEIVED	02-May-24
DATE TESTED	08-May-24	SAMPLED BY	Client

MATERIAL	Brown silty slightly sandy slightly gravelly CLAY
ADVISED SOURCE	Site Investigation Sample

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	5	97	
90	100		2	96	80-100
75	100		0.6	94	
50	100		0.425	91	
37.5	100		0.3	83	
20	100		0.2	74	
14	99		0.15	72	
10	98		0.063	69	15-100



SOIL FRACTIONS			
COBBLES	0%	SAND	27%
GRAVEL	4%	SILT / CLAY	69%
As received water content		13.5%	

REMARKS

Sample complies with the advised grading specification for a 2A/2B material (SHW 2016)

SIGNED

NAME O.P. Davies BA (Hons) DATE 23-May-24
(Laboratory Manager)

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



TEST CERTIFICATE

DRY DENSITY/WATER CONTENT RELATIONSHIP 4.5kg RAMMER

BS 1377-2:2022 Cl.11

PARTICLE DENSITY METHOD BS 1377-2:2022 Cl.9.2

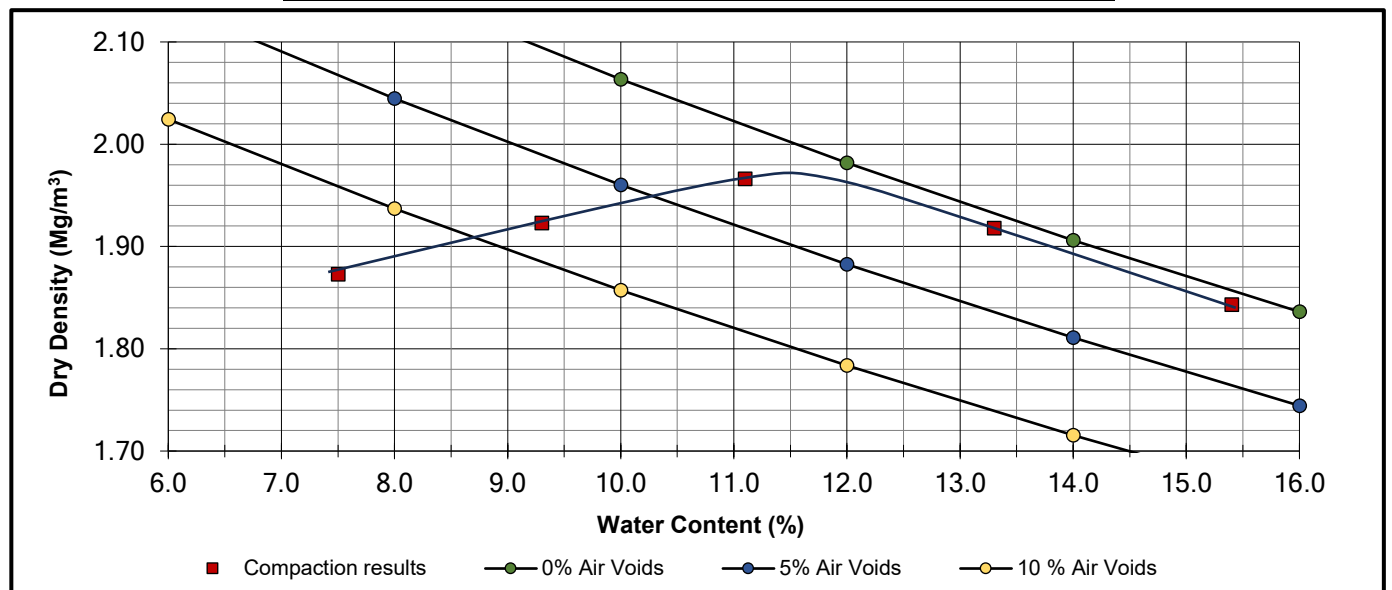
CLIENT	e3p
SITE	Trubs Farm, 17-524
JOB NUMBER	MRN 24005/86

SAMPLE LABEL	WS107 1.5-2 B	DATE SAMPLED	Not advised
SAMPLE NUMBER	467502	DATE RECEIVED	02-May-24
DATE TESTED	15-May-24	SAMPLED BY	Client

MATERIAL	Brown silty slightly sandy slightly gravelly CLAY
ADVISED SOURCE	Site Investigation Sample
PRE TREATMENT	Air Dried / Separate Batches

RETAINED 37.5mm	0 %	GRADING ZONE	Zone 1
RETAINED 20mm	0 %	PARTICLE DENSITY	2.60 Mg/m ³ (Assumed)

POINT NUMBER	WATER CONTENT (%)	DRY DENSITY (Mg/m ³)
1	7.5	1.873
2	9.3	1.923
3	11.1	1.966
4	13.3	1.918
5	15.4	1.843



OPTIMUM WATER CONTENT	12 (%)
MAXIMUM DRY DENSITY	1.97 (Mg/m ³)

REMARKS

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

SIGNED

DATE 23-May-24

TEST CERTIFICATE
PARTICLE SIZE DISTRIBUTION
BS EN ISO 17892-4:2016

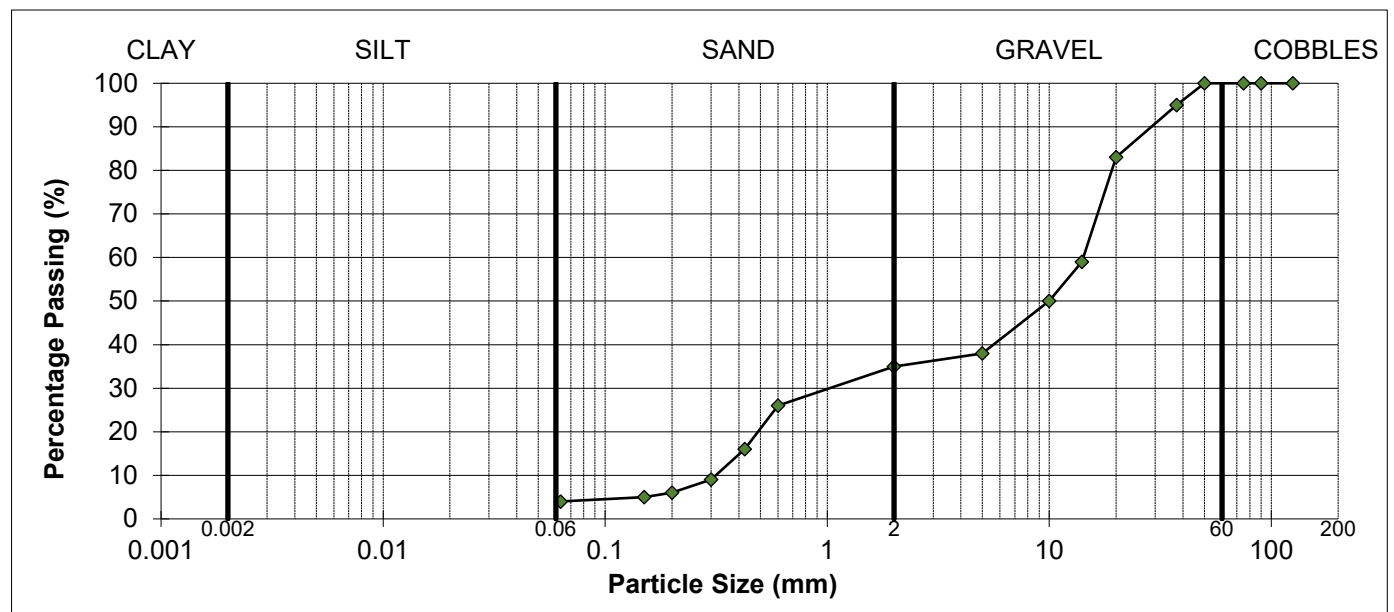
Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

CLIENT	e3p
SITE	Trubs Farm, 17-524
JOB NUMBER	MRN 24005/86

SAMPLE LABEL	TP114 1.2 B	DATE SAMPLED	Not advised
LAB SAMPLE No	467503	DATE RECEIVED	02-May-24
DATE TESTED	08-May-24	SAMPLED BY	Client

MATERIAL	Brown silty sandy GRAVEL
ADVISED SOURCE	Site Investigation Sample

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	95-100	5	38	
90	100		2	35	
75	100		0.6	26	
50	100		0.425	16	
37.5	95		0.3	9	
20	83		0.2	6	
14	59		0.15	5	
10	50		0.063	4	<15



SOIL FRACTIONS			
COBBLES	0%	SAND	31%
GRAVEL	65%	SILT / CLAY	4%
As received water content		7.8%	

REMARKS

Sample complies with the advised grading specification for a 1A material (SHW 2016), Uniformity coefficient = >10

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 23-May-24

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



TEST CERTIFICATE

DRY DENSITY/WATER CONTENT RELATIONSHIP 4.5kg RAMMER

BS 1377-2:2022 Cl.11

PARTICLE DENSITY METHOD BS 1377-2:2022 Cl.9.2

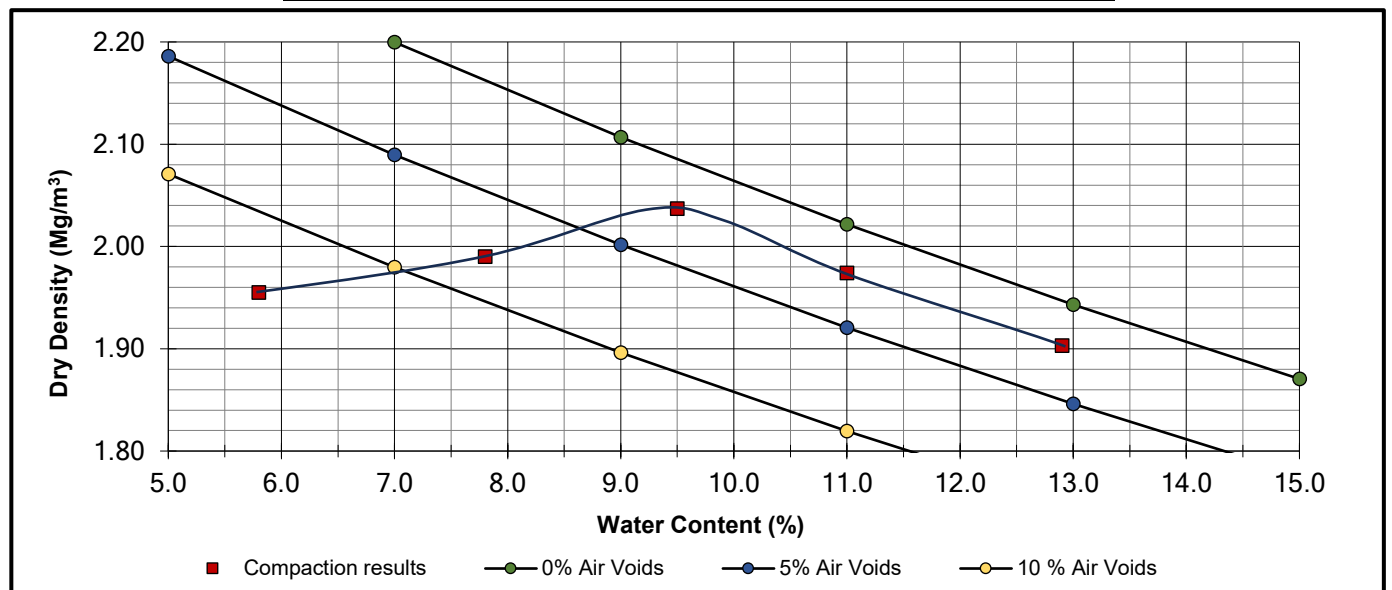
CLIENT	e3p
SITE	Trubs Farm, 17-524
JOB NUMBER	MRN 24005/86

SAMPLE LABEL	TP114 1.2 B	DATE SAMPLED	Not advised
SAMPLE NUMBER	467503	DATE RECEIVED	02-May-24
DATE TESTED	15-May-24	SAMPLED BY	Client

MATERIAL	Brown silty sandy GRAVEL
ADVISED SOURCE	Site Investigation Sample
PRE TREATMENT	Air Dried / Separate Batches

RETAINED 37.5mm	5 %	GRADING ZONE	Zone 4
RETAINED 20mm	17 %	PARTICLE DENSITY	2.60 Mg/m ³ (Assumed)

POINT NUMBER	WATER CONTENT (%)	DRY DENSITY (Mg/m ³)
1	5.8	1.955
2	7.8	1.990
3	9.5	2.037
4	11.0	1.974
5	12.9	1.903



OPTIMUM WATER CONTENT	9.4	(%)
MAXIMUM DRY DENSITY	2.03	(Mg/m ³)

REMARKS

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

SIGNED

DATE 23-May-24

TEST CERTIFICATE
PARTICLE SIZE DISTRIBUTION
BS EN ISO 17892-4:2016

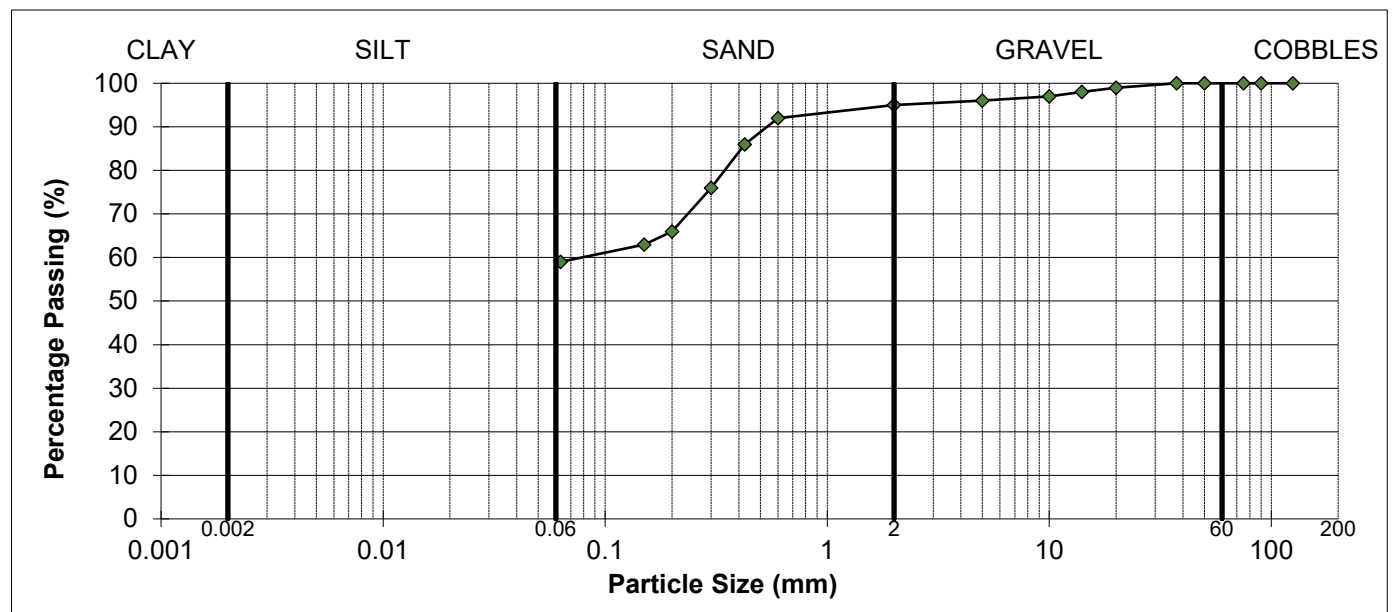
Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

CLIENT	e3p
SITE	Trubs Farm, 17-524
JOB NUMBER	MRN 24005/86

SAMPLE LABEL	TP128 0.8 B	DATE SAMPLED	Not advised
LAB SAMPLE No	467507	DATE RECEIVED	02-May-24
DATE TESTED	08-May-24	SAMPLED BY	Client

MATERIAL	Brown silty slightly sandy slightly gravelly CLAY
ADVISED SOURCE	Site Investigation Sample

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	5	96	
90	100		2	95	80-100
75	100		0.6	92	
50	100		0.425	86	
37.5	100		0.3	76	
20	99		0.2	66	
14	98		0.15	63	
10	97		0.063	59	15-100



SOIL FRACTIONS			
COBBLES	0%	SAND	36%
GRAVEL	5%	SILT / CLAY	59%
As received water content		14.9%	

REMARKS

Sample complies with the advised grading specification for a 2A/2B material (SHW 2016)

SIGNED

NAME O.P. Davies BA (Hons) DATE 23-May-24
(Laboratory Manager)

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



TEST CERTIFICATE

DRY DENSITY/WATER CONTENT RELATIONSHIP 4.5kg RAMMER

BS 1377-2:2022 Cl.11

PARTICLE DENSITY METHOD BS 1377-2:2022 Cl.9.2

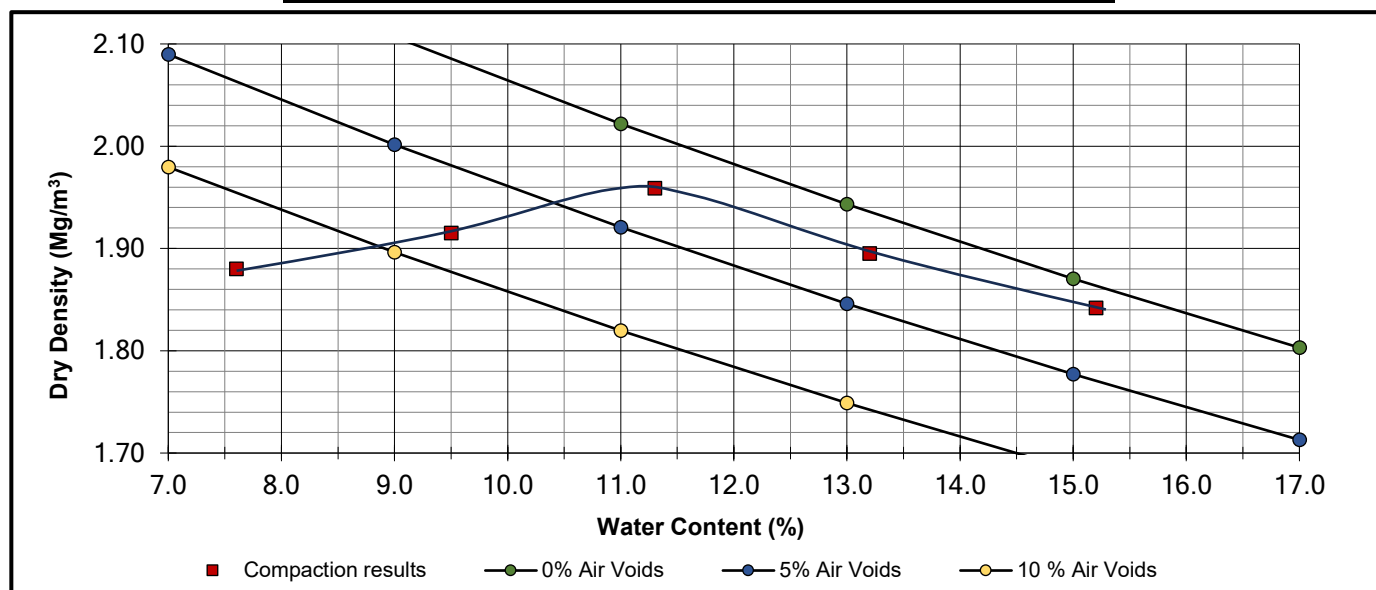
CLIENT	e3p
SITE	Trubs Farm, 17-524
JOB NUMBER	MRN 24005/86

SAMPLE LABEL	TP128 0.8 B	DATE SAMPLED	Not advised
SAMPLE NUMBER	467507	DATE RECEIVED	02-May-24
DATE TESTED	15-May-24	SAMPLED BY	Client

MATERIAL	Brown silty slightly sandy slightly gravelly CLAY
ADVISED SOURCE	Site Investigation Sample
PRE TREATMENT	Air Dried / Separate Batches

RETAINED 37.5mm	0 %	GRADING ZONE	Zone 2
RETAINED 20mm	1 %	PARTICLE DENSITY	2.60 Mg/m ³ (Assumed)

POINT NUMBER	WATER CONTENT (%)	DRY DENSITY (Mg/m ³)
1	7.6	1.880
2	9.5	1.915
3	11.3	1.959
4	13.2	1.895
5	15.2	1.842



OPTIMUM WATER CONTENT	11 (%)
MAXIMUM DRY DENSITY	1.96 (Mg/m ³)

REMARKS

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

SIGNED

DATE 23-May-24

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



TEST CERTIFICATE

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION
BS EN ISO 17892-8:2018

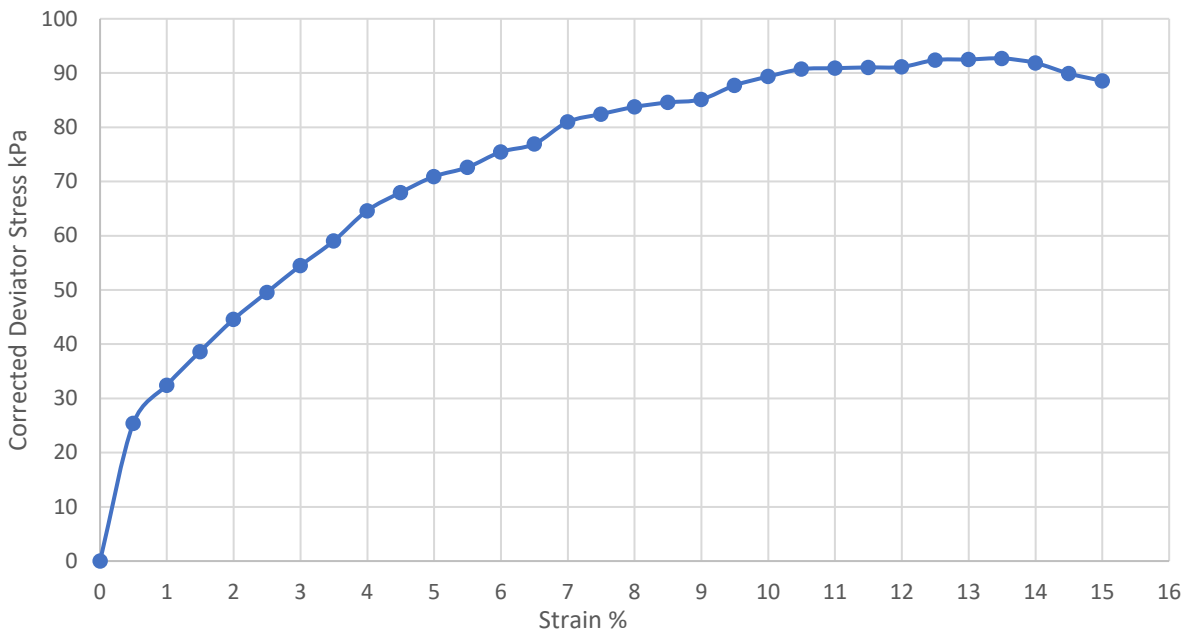
CLIENT	e3p
SITE	Trubs Farm, 17-524
JOB NUMBER	MRN 24005/86

SAMPLE LABEL	WS108 1.5-2 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	467505	DATE RECEIVED	02-May-24
DATE TESTED	07-May-24	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

INITIAL CONDITIONS

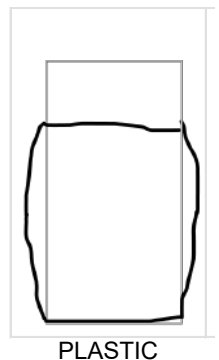
Specimen Location		Sample Length (mm)	450	Specimen depth from top of Sample (mm)	50
		Sample Orientation	Vertical	Specimen Condition	Undisturbed
		Specimen Length (mm)	152	Specimen Water Content (%)	25.8
		Specimen Diameter (mm)	76	Specimen Bulk Density (Mg/m3)	2.49
		Membrane Thickness (mm)	0.4	Specimen Dry Density (Mg/m3)	1.98
		Membrane Correction	3.39		

CORRECTED DEVIATOR STRESS vs AXIAL STRAIN



TEST TYPE
SINGLE STAGE

SKETCH OF
SPECIMEN AT
FAILURE



Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength Cu (kPa)
35	14.0	2.0	92	46

Remarks/Abnormalities

Name O.P Davies BA (Hons)
(Laboratory Manager)

Signed

Date 23 May 2024

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



TEST CERTIFICATE

INCREMENTAL LOADING OEDOMETER TEST
BS EN ISO 17892-5:2017

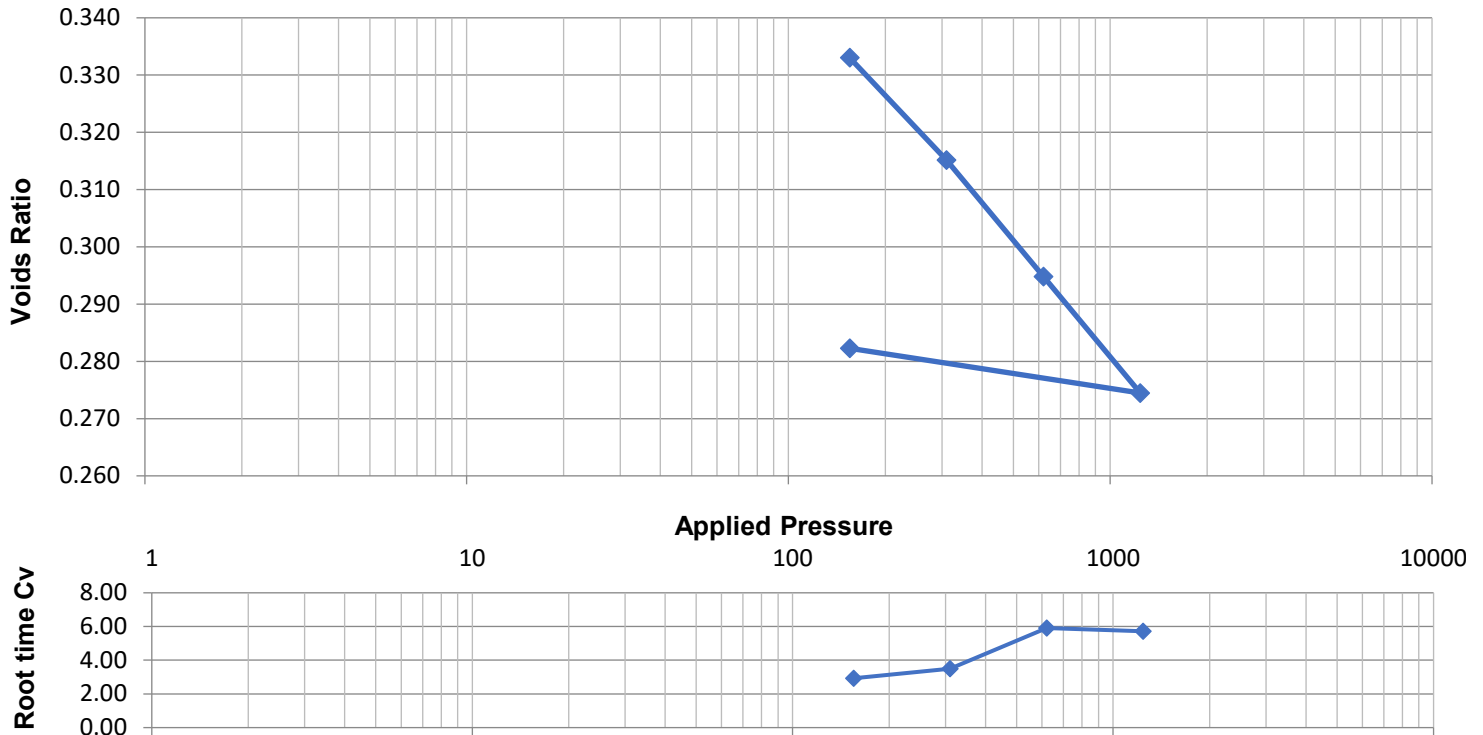
CLIENT	e3p
SITE	Trubs Farm, 17-524
JOB NUMBER	MRN 24005/86

SAMPLE LABEL	CP103 7.5-7.95 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	467510	DATE RECEIVED	02-May-24
DATE TESTED	07-May-24	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

Specimen Location	Sample Length (mm)	450	Specimen depth from top of Sample (mm)	50
	Sample Orientation	Vertical	Specimen Condition	Undisturbed

INITIAL CONDITIONS					Load No.	Applied Pressure kPa	Sample Height mm	Void Ratio	Mv m ² /MN	Temp °C	Cv t90 root m ² /yr	Cv t50 log m ² /yr
Height	20.0 mm	Particle density	2.65	Ass	1	155	18.72	0.333	0.40	20	2.93	3.63
Diameter	70.0 mm	Initial void ratio	0.42		2	310	18.47	0.315	0.09	20	3.50	3.43
Weight wet	164.9 g	Deg. of sat.	96 %		3	620	18.18	0.295	0.05	20	5.91	5.17
Water cont.*	15.2 %	Swell. press.	0 kN/m ²		4	1240	17.89	0.274	0.03	20	5.73	5.01
Bulk Density	2.15 Mg/m ³	Dry density	1.87 Mg/m ³		5	155	18.00	0.282	0.01	20		
					6							
					7							

*determined from specimen trimmings



Remarks/Abnormalities

Name O.P Davies BA (Hons)
(Laboratory Manager)

Signed

Date 23 May 2024

APPENDIX X

ORIGIN OF CHEMICAL ASSESSMENT CRITERIA





CONSTITUENT	ORIGIN OF RISK ASSESSMENT VALUE
Arsenic	2014 LQM/CIEH S4ULs
Cadmium	2014 LQM/CIEH S4ULs
Chromium	2014 LQM/CIEH S4ULs
Lead	2014 LQM/CIEH S4ULs
Mercury	2014 LQM/CIEH S4ULs – methylmercury
Nickel	2014 LQM/CIEH S4ULs
Selenium	2014 LQM/CIEH S4ULs
Copper	2014 LQM/CIEH S4ULs
Zinc	2014 LQM/CIEH S4ULs
Cyanide – Total	2014 LQM/CIEH S4ULs
Phenols – Total	2014 LQM/CIEH S4ULs
Naphthalene	General assessment criteria (GAC) developed by CIEH/LQM Suitable 4 Use Levels with supporting data from SR3, SR7 and existing Tox report where applicable. 1% SOM.
Acenaphthylene	
Acenaphthene	
Fluorene	
Phenanthrene	
Anthracene	
Fluoranthene	
Pyrene	
Benzo(a)Anthracene	
Chrysene	
Benzo(b/k)Fluoranthene (iii)	
Benzo(a)Pyrene	
Indeno(123-cd)Pyrene	
Dibenzo(a,h)Anthracene	
Benzo(ghi)Perylene	
TPH C ₅ -C ₆ (aliphatic)	
TPH C ₆ -C ₈ (aliphatic)	
TPH C ₈ -C ₁₀ (aliphatic)	
TPH C ₁₀ -C ₁₂ (aliphatic)	
TPH C ₁₂ -C ₁₆ (aromatic)	
TPH C ₁₆ -C ₂₁ (aromatic)	
TPH C ₂₁ -C ₃₅ (aromatic)	

APPENDIX XII

FALLING HEAD

PERMEABILITY TESTS



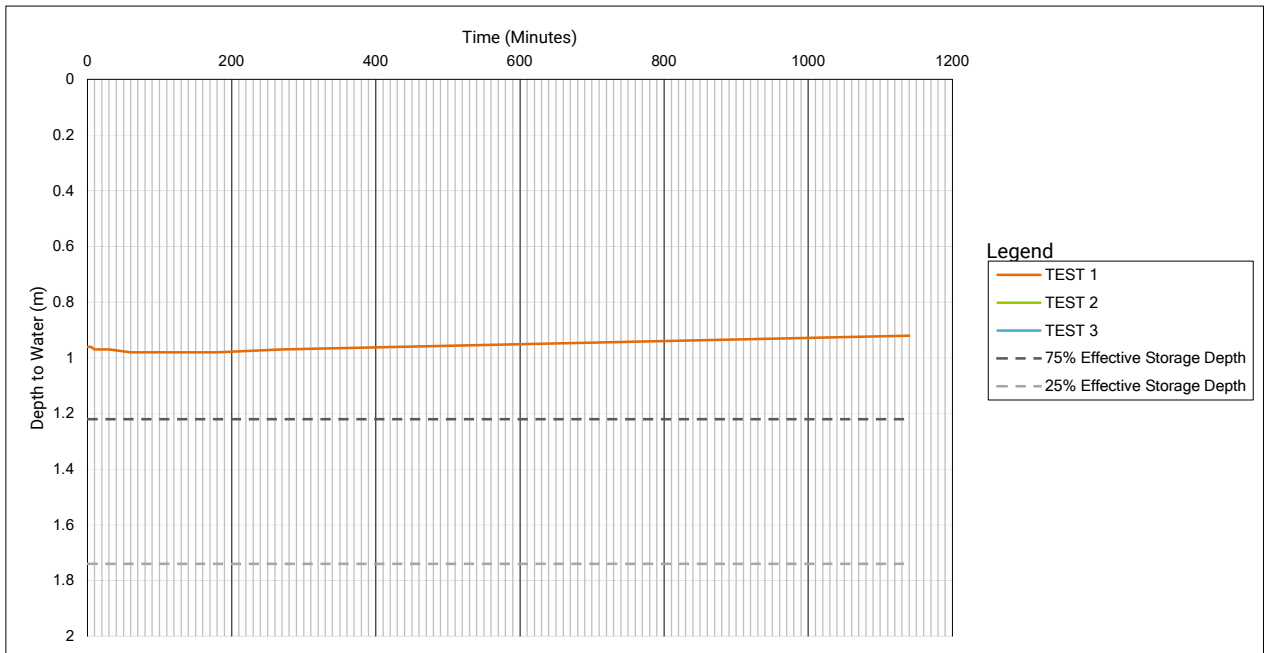
APPENDIX XIII COAL AUTHORITY REPORT AND MINING INFORMATION



		Site: Trub Farm		Trial Pit Number: SA101		
		Job Number: 17524		Length: 2.50 m		
		Date of Test: 15/04/2024		Width: 0.60 m		
				Depth: 2.00 m		
		Drafted	Rev	Auth	Groundwater Level: N/A m	
		03/06/2024	1	MSD	Proportion of Pit Volume Occupied by Gravel Solids (Pg) 0.00	
Remarks		TEST 1		TEST 2		
Effective Depth - For a standard test in which the pit is filled with water, the effective depth will be equal to the actual depth. If the pit is not completely filled, it will be equal to the depth at the start of each test. Gravel Filled Pits - Typically, the proportion of volume occupied by gravel is 0.70 (i.e. 70%), leaving 30% free storage volume. If the pit is left open (gravel is not used) then Pg = 0	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)
	0	0.96				
	1	0.96				
	2	0.96				
	3	0.96				
	4	0.96				
	5	0.96				
	10	0.97				
	20	0.97				
	30	0.97				
	60	0.98				
	120	0.98				
	180	0.98				
	270	0.97				
	1140	0.92				
Effective Storage Depth	m	1.04				
75% Effective Storage Depth	m	0.78				
(i.e. depth below GL)	m	1.22				
25% Effective Storage Depth	m	0.26				
(i.e. depth below GL)	m	1.74				
Effective Storage Depth 75%-25%	m	0.52				
Time to fall to 75% effective depth	mins	N/A				
Time to fall to 25% effective depth	mins	N/A				
Effective Volume of Pit - V(75%-25%) x (1-Pg)	m3	0.78				
Area of Pit - ap50 (50%)	m2	4.72				
t (75%-25%)	mins	N/A				
SOIL INFILTRATION RATE	m/s	N/A				

DESIGN SOIL INFILTRATION RATE, f :

NA - Failed to reach 25% effective depth within 24 hours and therefore test terminated.



		Site: Trub Farm		Trial Pit Number:	SA102		
		Job Number: 17524		Length:	2.40 m		
		Date of Test: 15/04/2024		Width:	0.60 m		
				Depth:	2.00 m		
		Drafted	Rev	Auth	Groundwater Level: 1.80 m		
		03/06/2024	1	MSD	Proportion of Pit Volume Occupied by Gravel Solids (Pg)		
						0.00	
Remarks		TEST 1		TEST 2		TEST 3	
Effective Depth - For a standard test in which the pit is filled with water, the effective depth will be equal to the actual depth. If the pit is not completely filled, it will be equal to the depth at the start of each test. Gravel Filled Pits - Typically, the proportion of volume occupied by gravel is 0.70 (i.e. 70%), leaving 30% free storage volume. If the pit is left open (gravel is not used) then Pg = 0		Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)
		0	0.53				
		1	0.53				
		2	0.53				
		3	0.53				
		4	0.53				
		5	0.53				
		10	0.53				
		20	0.53				
		30	0.53				
		60	0.51				
		120	0.51				
		180	0.50				
		270	0.50				
		1140	0.51				
Effective Storage Depth		m	1.47				
75% Effective Storage Depth		m	1.10				
(i.e. depth below GL)		m	0.90				
25% Effective Storage Depth		m	0.37				
(i.e. depth below GL)		m	1.63				
Effective Storage Depth 75%-25%		m	0.74				
Time to fall to 75% effective depth		mins	N/A				
Time to fall to 25% effective depth		mins	N/A				
Effective Volume of Pit - V(75%-25%) x (1-Pg)		m3	1.06				
Area of Pit - ap50 (50%)		m2	5.85				
t (75%-25%)		mins	N/A				
SOIL INFILTRATION RATE		m/s	N/A				

DESIGN SOIL INFILTRATION RATE, f :

NA - Failed to reach 25% effective depth within 24 hours and therefore test terminated.

