

APPENDIX B - EXPLORATORY HOLE LOGS



Borehole Log

Borehole No.

CP101

Sheet 1 of 2

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338769.57 - 350895.23

Hole Type
CP

Location: Wrexham

Level: 32.44

Scale
1:50

Client: Net World Sports

Dates: 12/06/2023 -

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description						
		Depth (m)	Type	Results										
		0.10 - 0.40	B		0.40	32.04		Crops over, dark brown, slightly gravelly, sandy to very sandy CLAY. Gravel s fine to coarse, angular to subrounded of mudstone. Sand is fine to medium. Frequent rootlets throughout. TOPSOIL	1					
		0.50 - 0.80	B											
		1.20 1.20 - 1.65	SPTL S	N=23 (3,4/5,5,6,7)			Stiff, dark brown, mottled grey, slightly gravelly CLAY. Gravel is fine to medium, angular to subrounded of mudstone, coal and rare igneous lithologies. TILL							
		2.20 - 2.65	U	Ublow=49										
		2.70	D											
		3.10 3.10 - 3.55	SPTL S	N=34 (3,4/5,9,10,10)										
		4.30 - 4.75	U	Ublow=47										
		4.80	D											
		5.20 5.20 - 5.65	SPTL S	N=26 (4,5/5,6,7,8)										
		5.70 - 6.00	B											
		6.50 - 6.80	U	Ublow=50										
		7.00	D											
		8.10 8.10 - 8.55	SPTL S	N=26 (4,6/6,6,7,7)										
		8.70 - 9.00	B											
		9.70 - 10.15	U	Ublow=48										
		Continued on next sheet								10				

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl for service clearance 2) Terminated at 15.05m bgl 3) Groundwater ingress at 11.20m bgl rising to 10.90m bgl after 20 minutes.





Borehole Log

Borehole No.

CP101

Sheet 2 of 2

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338769.57 - 350895.23

Hole Type
CP

Location: Wrexham

Level: 32.44

Scale
1:50

Client: Net World Sports

Dates: 12/06/2023 -

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.20	D						
		11.20		N=42 (5,8/10,11,10,11)	11.20	21.24			11
		11.20 - 11.65	SPTL					Very stiff, becoming stiff, slightly sandy, slightly gravelly, dark brown, mottled grey CLAY. Gravel is fine to medium, angular to subangular of mudstone and coal. Sand is fine to medium. TILL	
		11.70 - 12.00	S B						12
		12.90 - 13.35	U	Ublow=55					13
		14.60		N=30 (5,5/7,7,8,8)					14
		14.60 - 15.05	SPTL S		15.05	17.39			15
End of borehole at 15.05 m								16	
								17	
								18	
								19	
								20	

Remarks

1) Hand dug pit to 1.20m bgl for service clearance 2) Terminated at 15.05m bgl 3) Groundwater ingress at 11.20m bgl rising to 10.90m bgl after 20 minutes.





Borehole Log

Borehole No.

CP102

Sheet 1 of 2

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338862.35 - 350957.55

Hole Type
CP

Location: Wrexham

Level: 31.81

Scale
1:50

Client: Net World Sports

Dates: 13/06/2023 -

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.40	B		0.40	31.41		Crops over, soft, dark brown, slightly gravelly, sandy CLAY. Gravel is fine to medium, angular to subrounded of mudstone, limestone and clods of clay. Sand is fine to coarse. Frequent rootlets throughout. TOPSOIL	
		0.50 - 0.80	B						
		1.20 - 1.65	U	Ublow=42				Stiff, dark brown, mottled bluish grey, slightly gravelly CLAY. Gravel is fine to coarse, angular to rounded of mudstone, coal and occasional quartz and igneous lithologies. TILL	1
		1.70	D						
		2.20	SPTL S	N=23 (4,4/5,5,6,7)					2
		2.20 - 2.65							
		3.30 - 3.75	U	Ublow=51					3
		3.80	D						
		4.20	SPTL S	N=22 (3,4/5,5,6,6)					4
		4.20 - 4.65							
		5.30 - 5.75	U	Ublow=40					5
		5.80	D						
		6.60	SPTL S B	N=20 (3,4/5,5,5,5)					6
		6.60 - 7.05							
		7.00 - 7.73							7
		8.30 - 8.75	U	Ublow=48					8
		8.80	D						
		10.00		N=27 (4,5/6,6,7,8)					9
									10

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl for service clearance. 2) Terminated at 10.45m bgl 3) No groundwater ingress encountered.





Borehole Log

Borehole No.

CP102

Sheet 2 of 2

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338862.35 - 350957.55

Hole Type
CP

Location: Wrexham

Level: 31.81

Scale
1:50

Client: Net World Sports

Dates: 13/06/2023 -

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.00 - 10.45	SPTL S		10.45	21.36		End of borehole at 10.45 m	
									11
									12
									13
									14
									15
									16
									17
									18
									19
									20

Remarks

1) Hand dug pit to 1.20m bgl for service clearance. 2) Terminated at 10.45m bgl 3) No groundwater ingress encountered.





Borehole Log

Borehole No.

CP103

Sheet 1 of 2

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338775.25 - 350978.58

Hole Type
CP

Location: Wrexham

Level: 32.28

Scale
1:50

Client: Net World Sports

Dates: 13/06/2023 - 14/06/2023

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.40	B		0.42	31.86		Crops over, soft, dark brown, slightly gravelly, sandy CLAY. Gravel is fine to medium, angular to subrounded of mudstone, limestone and clods of clay. Sand is fine to coarse. Frequent rootlets throughout. TOPSOIL. Stiff, dark brown, mottled bluish grey, slightly gravelly CLAY. Gravel is fine to coarse, angular to rounded of mudstone, coal and occasional quartz and igneous lithologies. TILL.	
		0.60 - 0.90	B						
		1.20							1
		1.20 - 1.65	SPTL S	N=23 (4,4/5,5,6,7)					
		2.30 - 2.75	U	Ublow=45					2
		2.80	D						
		3.30							3
		3.30 - 3.75	SPTL S	N=26 (4,4/5,7,7,7)					
		4.20 - 4.65	U	Ublow=50					4
		4.70	D						
		5.20							5
		5.20 - 5.65	SPTL S	N=27 (4,5/6,6,7,8)					
		6.70 - 7.15	U						
		6.80 - 7.10	B	Ublow=0					7
		8.30							8
		8.30 - 8.75	SPTL S	N=29 (4,6/7,7,7,8)					
		10.00 - 10.45	U	Ublow=51					10

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl for service clearance. 2) Terminated at 15.15m bgl 3) Groundwater ingress at 13.50m bgl rising to 13.30m bgl after 20mins.





Borehole Log

Borehole No.

CP103

Sheet 2 of 2

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338775.25 - 350978.58

Hole Type
CP

Location: Wrexham

Level: 32.28

Scale
1:50

Client: Net World Sports

Dates: 13/06/2023 - 14/06/2023

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.50	D						11
		11.60		N=26 (5,5/5,6,7,8)					12
		11.60 - 12.05	SPTL S						13
		12.00 - 12.30	B						14
		13.10 - 13.53	U	Ublow=53	13.40	18.88			15
		13.60	D					Stiff, dark brown, mottled grey, slightly gravelly CLAY. Gravel is fine to coarse, angular to subrounded of mudstone. Occasional lenses of fine to medium sand.	16
		14.70		N=30 (4,5/7,7,7,9)					17
		14.70 - 15.15	SPTL S		15.15	17.13			18
								End of borehole at 15.15 m	19
									20

Remarks

1) Hand dug pit to 1.20m bgl for service clearance. 2) Terminated at 15.15m bgl 3) Groundwater ingress at 13.50m bgl rising to 13.30m bgl after 20mins.





Borehole Log

Borehole No.

CP104

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338826.14 - 351101.11

Hole Type
CP

Location: Wrexham

Level: 31.07

Scale
1:50

Client: Net World Sports

Dates: 15/06/2023 -

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.40	B		0.40	30.67		Crops, over soft, dark brown, slightly sandy, slightly gravelly CLAY. Gravel is fine to coarse, angular to subangular of mudstone, sandstone and coal. Sand is fine to medium. Frequent rootlets throughout.	
		0.60 - 0.90	B					TOPSOIL	
		1.20						Stiff, dark brown, mottled bluish grey, slightly gravelly CLAY. Gravel is fine to coarse, angular to subrounded of mudstone, coal, sandstone and mixed igneous lithologies.	1
		1.20 - 1.65	SPTL S	N=22 (3,4/5,5,6,6)					
		2.20 - 2.65	U	Ublow=49					2
		2.70	D						
		3.30							3
		3.30 - 3.75	SPTL S	N=23 (3,4/5,5,6,7)					
		4.40 - 4.85	U	Ublow=52					4
		4.90	D						
		5.50							5
		5.50 - 5.95	SPTL S	N=27 (3,4/5,6,7,9)					
		6.00 - 6.30	B						6
		7.10 - 7.55	U	Ublow=48					7
		7.60	D						
		8.40							8
		8.40 - 8.85	SPTL S	N=27 (5,5/6,6,7,8)					
		9.50 - 9.95	U	Ublow=49					9
		10.00	D		10.00	21.07		End of borehole at 10.00 m	10

Remarks

1) Hand dug pit to 1.20m bgl for service clearance 2) Terminated at 10.00m bgl 3) No groundwater ingress encountered





Borehole Log

Borehole No.

CP105

Sheet 1 of 2

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338698.39 - 351078.41

Hole Type
CP

Location: Wrexham

Level: 32.42

Scale
1:50

Client: Net World Sports

Dates: 15/06/2023 - 16/06/2023

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.40	B		0.43	31.99		Crops, over soft, dark brown, slightly sandy, slightly gravelly CLAY. Gravel is fine to coarse, angular to subangular of mudstone, sandstone and coal. Sand is fine to medium. Frequent rootlets throughout. TOPSOIL	
		0.50 - 0.80	B						
		1.20	SPTL S	N=23 (3,3/4,5,7,7)					1
		1.20 - 1.65							
		2.10 - 2.55	U	Ublow=47	2				
		2.60	D						
		3.20	SPTL S	N=27 (4,5/5,6,7,9)					3
		3.20 - 3.65							
		4.30 - 4.75	U	Ublow=45	4				
		4.80	D						
		5.20	SPTL S	N=26 (3,4/5,7,7,7)					5
		5.20 - 5.65							
		6.60 - 7.05	U	Ublow=48	6				
		7.10	D		7				
		8.00	SPTL S B	N=24 (3,4/5,5,7,7)					8
		8.00 - 8.45							
		8.10 - 8.40							9
		9.60 - 10.05	U	Ublow=55	10				
								Continued on next sheet	10

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl for service clearance 2) Terminated at 10.10m bgl 3) No groundwater ingress encountered





Borehole Log

Borehole No.

CP105

Sheet 2 of 2

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338698.39 - 351078.41

Hole Type
CP

Location: Wrexham

Level: 32.42

Scale
1:50

Client: Net World Sports

Dates: 15/06/2023 - 16/06/2023

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.10	D		10.10	22.32		End of borehole at 10.10 m	
									11
									12
									13
									14
									15
									16
									17
									18
									19
									20

Remarks

1) Hand dug pit to 1.20m bgl for service clearance 2) Terminated at 10.10m bgl 3) No groundwater ingress encountered





Borehole Log

Borehole No.

CP106

Sheet 1 of 2

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338392.74 - 351211.33

Hole Type
CP

Location: Wrexham

Level: 33.01

Scale
1:50

Client: Net World Sports

Dates: 16/06/2023 -

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description					
		Depth (m)	Type	Results									
		0.00 - 0.30	B		0.30	32.71		Crops, over soft, dark brown, slightly sandy, slightly gravelly CLAY. Gravel is fine to coarse, angular to subangular of mudstone, sandstone and coal. Sand is fine to medium. Frequent rootlets throughout. TOPSOIL					
		0.50 - 0.80	B										
		1.20 - 1.65	U	Ublow=42				Stiff, dark brown, mottled grey, slightly gravelly CLAY. Gravel is fine to coarse, angular to subrounded of mudstone, coal, quartz, sandstone and mixed igneous lithologies. TILL	1 -				
		1.70	D										
		2.20	SPTL S	N=19 (3,3/4,4,5,6)					2 -				
		2.20 - 2.65											
		3.30 - 3.75	U	Ublow=45					3 -				
		3.80	D										
		4.20	SPTL S	N=25 (4,4/5,5,7,8)					4 -				
		4.20 - 4.65											
		5.30 - 5.75	U	Ublow=47					5 -				
		5.80	D										
		6.80	SPTL S	N=29 (5,5/7,7,7,8)					7 -				
		6.80 - 7.25											
		7.30 - 7.60	B						8 -				
		8.10 - 8.55	U					Ublow=47					
		8.60	D						9 -				
		9.70	SPTL S					N=28 (4,5/7,7,7,7)					
		9.70 - 10.15											
		Continued on next sheet								10 -			

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl for service clearance 2) Terminated at 10.15m bgl 3) No groundwater ingress encountered





Borehole Log

Borehole No.

CP106

Sheet 2 of 2

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338392.74 - 351211.33

Hole Type
CP

Location: Wrexham

Level: 33.01

Scale
1:50

Client: Net World Sports

Dates: 16/06/2023 -

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					10.15	22.86		End of borehole at 10.15 m	
									11
									12
									13
									14
									15
									16
									17
									18
									19
									20

Remarks
1) Hand dug pit to 1.20m bgl for service clearance 2) Terminated at 10.15m bgl 3) No groundwater ingress encountered





Borehole Log

Borehole No.

CP107

Sheet 1 of 2

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338475.73 - 351081.21

Hole Type
CP

Location: Wrexham

Level: 33.76

Scale
1:50

Client: Net World Sports

Dates: 19/06/2023 -

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description						
		Depth (m)	Type	Results										
		0.00 - 0.30	B		0.35	33.41		Crops over, soft, dark brown, slightly gravelly to gravelly, slightly sandy, slightly silty CLAY. Gravel is fine to coarse, angular to rounded of mudstone, limestone and sandstone. Sand is fine to medium. Frequent rootlets throughout TOPSOIL	1					
		0.40 - 0.70	B											
		1.20	SPTL S	N=19 (2,3/4,4,5,6)				Stiff, dark brown, mottled grey and bluish grey, slightly gravelly CLAY. Gravel is fine to coarse, angular to subrounded of mudstone, coal, quartz and mixed igneous lithologies. TILL	2					
		1.20 - 1.65												
		2.20 - 2.65	U	Ublow=43										
		2.70	D											
		3.30	SPTL S	N=24 (4,5/5,6,6,7)										
		3.30 - 3.75												
		4.20 - 4.65	U	Ublow=44										
		4.70	D											
		5.10	SPTL S B	N=26 (4,4/5,7,7,7)										
		5.10 - 5.55												
		5.50 - 5.80												
		6.50 - 6.95	U	Ublow=50										
		7.00	D											
		8.20	SPTL S	N=24 (3,3/5,6,6,7)										
		8.20 - 8.65												
		9.70 - 10.15	U	Ublow=51										
Continued on next sheet									10					

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m for service clearance 2) Terminated at 15.15m bgl 3) Groundwater ingress at 14.70m bgl rising to 9.00m bgl after 20mins.





Borehole Log

Borehole No.

CP107

Sheet 2 of 2

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338475.73 - 351081.21

Hole Type
CP

Location: Wrexham

Level: 33.76

Scale
1:50

Client: Net World Sports

Dates: 19/06/2023 -

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description							
		Depth (m)	Type	Results											
		10.20 10.30 - 10.60	D B	N=26 (4,5/6,6,7,7)					11 12 13 14 15 16 17 18 19 20						
		11.40 11.40 - 11.85	SPTL S												
		13.00 - 13.45	U							Ublow=56					
		13.50	D												
		14.70 14.70 - 15.15	SPTL S							N=21 (4,4/6,5,5,5)					
					</										

Remarks

1) Hand dug pit to 1.20m for service clearance 2) Terminated at 15.15m bgl 3) Groundwater ingress at 14.70m bgl rising to 9.00m bgl after 20mins.





Borehole Log

Borehole No.

CP108

Sheet 1 of 2

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338383.86 - 351094.25

Hole Type
CP

Location: Wrexham

Level: 34.36

Scale
1:50

Client: Net World Sports

Dates: 19/06/2023 - 20/06/2023

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.40 0.20	B ES		0.35	34.01		Grass over dark orangish brown, slightly gravelly, clayey, fine to medium SAND. Gravel is fine to medium, angular to subrounded of mudstone, limestone and clods of clay. Frequent rootlets throughout TOPSOIL Stiff, dark brown, mottled bluish grey, slightly gravelly CLAY. Gravel is fine to coarse, angular to rounded of mudstone, sandstone, coal, quartz and mixed igneous lithologies. TILL	
		0.50 - 0.80	B						
		1.20 1.20 - 1.65	SPTL S	N=21 (3,4/4,5,6,6)					
		2.20 - 2.65	U	Ublow=41					
		2.70	D						
		3.40 3.40 - 3.85	SPTL S	N=25 (3,5/5,6,7,7)					
		4.50 - 4.95 4.70	U ES	Ublow=44					
		5.00	D						
		5.50 5.50 - 5.95	SPTL S	N=26 (5,5/6,6,7,7)					
		6.00 - 6.30	B						
		6.90 - 7.35	U	Ublow=51					
		7.40 7.50 - 7.80	D B						
		8.30 8.30 - 8.75	SPTL S	N=27 (4,5/6,6,7,8)					
		9.50 - 9.95	U	Ublow=56					
		10.00		N=27 (3,5/6,7,7,7)					

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl for service clearance 2) Terminated at 10.10m bgl 3) No groundwater ingress encountered





Borehole Log

Borehole No.

CP108

Sheet 2 of 2

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338383.86 - 351094.25

Hole Type
CP

Location: Wrexham

Level: 34.36

Scale
1:50

Client: Net World Sports

Dates: 19/06/2023 - 20/06/2023

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.00 - 10.45	SPTL S		10.45	23.91		End of borehole at 10.45 m	11
									12
									13
									14
									15
									16
									17
									18
									19
									20

Remarks

1) Hand dug pit to 1.20m bgl for service clearance 2) Terminated at 10.10m bgl 3) No groundwater ingress encountered





Borehole Log

Borehole No.

CP109

Sheet 1 of 2

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338352.50 - 351018.42

Hole Type
CP

Location: Wrexham

Level: 34.51

Scale
1:50

Client: Net World Sports

Dates: 20/06/2023 - 21/06/2023

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description						
		Depth (m)	Type	Results										
		0.10 - 0.40	B		0.40	34.11		Grass over dark orangish brown, slightly gravelly, clayey, fine to medium SAND. Gravel is fine to medium, angular to subrounded of mudstone, limestone and clods of clay. Frequent rootlets throughout	1					
		0.50 - 0.80	B					TOPSOIL						
		1.20	SPTL S	N=23 (3,4/5,5,6,7)				Stiff, dark brown, locally dark orangish brown, mottled grey, slightly sandy, slightly gravelly CLAY. Sand is fine to medium, gravel is fine to medium, angular to rounded of mudstone, coal, sandstone and quartz.						
		1.20 - 1.65												
		2.20 - 2.65	U	Ublow=41										
		2.70	D											
		3.00	ES											
		3.30	SPTL S	N=24 (3,3/4,6,7,7)										
		3.30 - 3.70												
		4.20 - 4.65	U	Ublow=43										
		4.70	D											
		5.30	SPTL S	N=26 (4,5/5,6,7,8)										
		5.30 - 5.75												
		6.50 - 6.95	U	Ublow=52										
		7.00	D											
		7.00 - 7.30	B											
		8.30	SPTL S	N=25 (3,4/5,5,7,8)										
		8.30 - 8.75												
		8.50	ES											
9.60 - 10.05	U	Ublow=42												

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl for service clearance 2) Terminated at 10.45m bgl 3) No groundwater ingress encountered





Borehole Log

Borehole No.

CP109

Sheet 2 of 2

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338352.50 - 351018.42

Hole Type
CP

Location: Wrexham

Level: 34.51

Scale
1:50

Client: Net World Sports

Dates: 20/06/2023 - 21/06/2023

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.10	D		10.10	24.41		End of borehole at 10.10 m	
									11
									12
									13
									14
									15
									16
									17
									18
									19
									20

Remarks

1) Hand dug pit to 1.20m bgl for service clearance 2) Terminated at 10.45m bgl 3) No groundwater ingress encountered





Borehole Log

Borehole No.

CP110

Sheet 1 of 2

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338240.56 - 351128.32

Hole Type
CP

Location: Wrexham

Level: 35.42

Scale
1:50

Client: Net World Sports

Dates: 21/06/2023 - 22/06/2023

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description				
		Depth (m)	Type	Results								
		0.10 - 0.40	B		0.41	35.01		Grass over, soft, dark brown, slightly gravelly, sandy to very sandy CLAY. Sand is fine to coarse, gravel is fine to coarse, angular to subangular of mudstone, sandstone and limestone. Frequent rootlets throughout. TOPSOIL				
		0.60 - 0.90	B									
		1.20 - 1.65	U	Ublow=38	Stiff, dark brown, occasionally mottled grey, slightly gravelly, slightly sandy CLAY. Gravel is fine to medium, angular to rounded of mudstone, sandstone, coal, quartz and mixed igneous lithologies. Sand is fine to medium							
		1.70	D									
		2.30	SPTL S	N=22 (1,2/5,5,6,6)								
		2.30 - 2.75										
		3.40 - 3.85	U	Ublow=42								
		3.90	D									
		4.50	SPTL S	N=22 (3,4/5,5,6,6)								
		4.50 - 4.95										
		5.60 - 6.05	U	Ublow=43								
		6.10	D									
		6.50 - 6.80	B									
		7.00	SPTL S	N=24 (5,5/5,6,6,7)								
		7.00 - 7.45										
		8.60 - 9.05	U	Ublow=48								
		9.10	D									
		10.00		N=27 (4,5/6,6,7,8)								
Continued on next sheet									10			

Remarks

1) Hand dug pit to 1.20m bgl for service clearance 2) Terminated at 15.00m bgl 3) Groundwater ingress at 13.20m bgl rising to 12.00m bgl after 20mins.





Borehole Log

Borehole No.

CP110

Sheet 2 of 2

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338240.56 - 351128.32

Hole Type
CP

Location: Wrexham

Level: 35.42

Scale
1:50

Client: Net World Sports

Dates: 21/06/2023 - 22/06/2023

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.00 - 10.45	SPTL S						
		10.50 - 10.80	B						
		11.60 - 12.05	U	Ublow=52					11
		12.10	D		12.00	23.42			12
		12.50 - 12.80	B					Stiff, dark brown, mottled grey, slightly gravelly CLAY with occasional lenses of fine to medium sand. Gravel is fine to coarse, angular to subrounded of mudstone, sandstone, quartz and coal TILL	13
		13.20		N=25 (3,4/5,5,7,8)					14
		13.20 - 13.65	SPTL S						15
		14.50 - 14.95	U	Ublow=56					16
		15.00	D		15.00	20.42		End of borehole at 15.00 m	17
									18
									19
									20

Remarks

1) Hand dug pit to 1.20m bgl for service clearance 2) Terminated at 15.00m bgl 3) Groundwater ingress at 13.20m bgl rising to 12.00m bgl after 20mins.





Borehole Log

Borehole No.

CP111

Sheet 1 of 2

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338278.66 - 351168.85

Hole Type
CP

Location: Wrexham

Level: 34.30

Scale
1:50

Client: Net World Sports

Dates: 22/06/2023 - 23/06/2023

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description				
		Depth (m)	Type	Results								
		0.00 - 0.30	B		0.30	34.00		Grass over, dark brown, slightly gravelly, clayey, fine to coarse SAND. Gravel is fine to medium, angular to subrounded of mudstone, limestone and clods of clay. Frequent rootlets throughout TOPSOIL				
		0.40 - 0.70	B									
		1.20 - 1.65	U	Ublow=39			Stiff, drak brown, mottled grey, slightly sandy, slightly gravelly CLAY. Sand is fine to medium, gravel is fine to coarse, angular to subrounded of mudstone, sandstone, coal and quartz. TILL	1				
		1.70	D									
		2.20	SPTL S	N=23 (1,3/4,5,6,8)					2			
		2.20 - 2.65										
		3.40 - 3.85	U	Ublow=42				3				
		3.90	D									
		4.40	SPTL S	N=27 (4,5/5,5,8,9)					4			
		4.40 - 4.85										
		5.40 - 5.85	U	Ublow=41				5				
		5.90	D									
		7.00		N=27 (4,5/6,6,7,8)				6				
		7.50 - 7.80	B									
		7.70	SPTL S					7				
		8.50 - 8.95	U	Ublow=38								
		9.00	D					8				
		9.00	SD									
		10.00		N=27 (4,5/6,7,7,7)				9				
			10									

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl for service clearance 2) Terminated at 10.45m bgl 3) No groundwater ingress encountered





Borehole Log

Borehole No.

CP111

Sheet 2 of 2

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338278.66 - 351168.85

Hole Type
CP

Location: Wrexham

Level: 34.30

Scale
1:50

Client: Net World Sports

Dates: 22/06/2023 - 23/06/2023

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.00 - 10.45	SPTL S		10.45	23.85		End of borehole at 10.45 m	11
									12
									13
									14
									15
									16
									17
									18
									19
									20

Remarks

1) Hand dug pit to 1.20m bgl for service clearance 2) Terminated at 10.45m bgl 3) No groundwater ingress encountered





Trial Pit Log

Trialpit No

HDP101

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords:	338660.63 - 350932.40
----------	-----------------------

Level: 33.19

Date _____

20/06/2023

Location: Wrexham

Dimensions
(m):

0.2

Depth
1.00

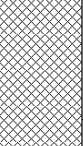
0.2

Scale

1:25

Logged
ER

Client: Net World Sports

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.30	ES		0.50	32.69		MADE GROUND: Light brown, sandy, fine to course, angular GRAVEL of concrete, brick, limestone, asphalt and sandstone. Sand is fine to medium MADE GROUND
							<u>Becoming very sandy from 0.40m</u>
							Stiff, dark brown CLAY TILL
				1.00	32.19		End of pit at 1.00 m

Remarks: 1) Hand dug pit for geoenvironmental purposes 2) No groundwater ingress encountered 3) Terminated at 1.00m bgl

Stability: Stable





Trial Pit Log

Trialpit No
HDP102
Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338640.69 - 351017.64
Level: 33.14

Date

Location: Wrexham

Dimensions (m):

0.2

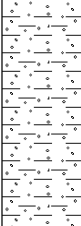
Depth
1.00

0.2

Scale
1:25

Logged
ER

Client: Net World Sports

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.10	ES		0.20	32.94		MADE GROUND: Soft, dark brown, slightly sandy, gravelly CLAY. Gravel is fine to coarse, angular gravel of concrete, brick, limestone and mudstone. Sand is fine to medium. MADE GROUND Stiff, dark brown, slightly gravelly CLAY. Gravel is fine to coarse, angular to subrounded of mudstone and coal. TILL
				1.00	32.14		
							End of pit at 1.00 m
							1
							2
							3
							4
							5

Remarks: 1) Hand dug pit for geoenvironmental purposes 2) No groundwater ingress encountered 3) Terminated at 1.00m bgl

Stability: Stable





Trial Pit Log

Trialpit No
HDP103
Sheet 1 of 1

Project Name:	Bryn Lane, Detailed Planning	Project No.	TE1750	Co-ords:	338760.95 - 351082.28	Date
Location:	Wrexham	Level:	31.69	Dimensions (m):	0.2	Scale
Client:	Net World Sports	Depth	1.20			1:25
						Logged ER

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
▼	0.30	ES					MADE GROUND: Soft, dark orangish brown, sandy, gravelly CLAY. Gravel is fine to coarse, angular to subangular of mudstone, limestone, concrete and brick. Sand is fine to coarse. MADE GROUND	
				0.70	30.99		MADE GROUND: Very soft, dark grey, very silty, peaty CLAY. MADE GROUND <i>Organic odour from 0.70m</i>	1
	1.20	ES		1.20	30.49		----- End of pit at 1.20 m	2
								3
								4
								5

Remarks:	1) Hand dug pit for geoenvironmental purposes 2) Groundwater ingress at 0.70m bgl 3) Terminated at 1.20m bgl	
Stability:	Stable	



Trial Pit Log

Trialpit No
HDP104
Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338886.53 - 351128.55
Level: 30.43

Date
20/06/2023

Location: Wrexham

Dimensions (m):

0.2

Depth
1.10

0.2

Scale
1:25

Logged
ER

Client: Net World Sports

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.60	ES		0.23	30.20		Crops over, soft, dark brown, slightly sandy, slightly gravelly, silty CLAY. Sand is fine to medium, gravel is fine to coarse, angular to subangular of mudstone, coal and limestone. Frequent rootlets throughout. TOPSOIL
				1.10	29.33		Firm to stiff, dark brown, slightly sandy, slightly gravelly CLAY. Garvel is fine to coarse, angular to subrounded of mudstone, coal and sandstone. Sand is fine to medium. TILL
							End of pit at 1.10 m

1

2

3

4

5

Remarks: 1) Hand dug pit for geoenvironmental purposes 2) No groundwater ingress encountered 3) Terminated at 1.10m bgl

Stability: Stable





Trial Pit Log

Trialpit No

HDP105

Sheet 1 of 1

Project Name:	Bryn Lane, Detailed Planning
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Project No.
TE1750

Co-ords:	338877.27 - 351204.31
----------	-----------------------

Level: 30.28

Date

20/06/2023

Location: Wrexham

Dimensions
(m):

0.2

Scale

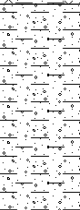
1:25

Client: Net World Sports

Depth
1.00

0.2

Logged
ER

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.20	ES		0.30	29.98		Crops over, soft, dark to yellowish brown, slightly gravelly, slightly silty, sandy CLAY. Gravel is fine to medium, angular to subrounded of mudstone, limestone and quartz. Sand is fine to coarse. Frequent rootlets throughout. TOPSOIL
				1.00	29.28		Firm to stiff, dark brown, slightly sandy, slightly gravelly CLAY. Gravel is fine to coarse, angular to subrounded of mudstone, coal and sandstone. Sand is fine to medium.
	End of pit at 1.00 m						1
							2
							3
							4
							5

Remarks:	1) Hand dug pit for geoenvironmental purposes 2) No groundwater ingress encountered 3) Terminated at 1.00m bgl
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Stability: Stable





Trial Pit Log

Trialpit No
HDP106
Sheet 1 of 1

Project Name:	Bryn Lane, Detailed Planning	Project No.	TE1750	Co-ords:	338608.39 - 351097.31	Date	20/06/2023
Location:	Wrexham	Dimensions (m):	0.2	Scale	1:25	Logged	ER
Client:	Net World Sports	Depth	1.00				

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.15	ES		0.25	32.29		MADE GROUND: Soft to firm, dark brown, slightly sandy to sandy, gravelly CLAY. Sand is fine to coarse, gravel is fine to coarse, angular to subangular of mudstone, coal, brick, concrete and rare ceramic.
				1.00	31.54		MADE GROUND Firm to stiff, dark brown, mottled grey, slightly gravelly CLAY. Gravel is fine to coarse, angular to subangular of mudstone, coal, quartz and sandstone TILL
							End of pit at 1.00 m

Remarks:	1) Hand dug pit for geoenvironmental purposes 2) No groundwater ingress encountered 3) Terminated at 1.00m bgl
Stability:	Stable





Trial Pit Log

Trialpit No
HDP107
Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

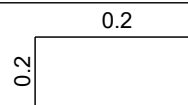
Project No.
TE1750

Co-ords: 338486.39 - 351017.94
Level: 33.88

Date
20/06/2023

Location: Wrexham

Dimensions (m):
Depth 1.00



Scale
1:25
Logged
ER

Client: Net World Sports

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES					Soft, dark brown to yellowish brown, slightly sandy, slightly gravelly CLAY. Sand is fine to coarse, gravel is fine to medium, angular to subangular of mudstone, sandstone and coal. TOPSOIL	
				0.40	33.48		Stiff, dark brown, slightly gravelly CLAY. Gravel is fine to coarse, angular to subrounded of mudstone, sandstone, quartz and coal. TILL	
				1.00	32.88		End of pit at 1.00 m	1
								2
								3
								4
								5

Remarks: 1) Hand dug pit for geoenvironmental purposes 2) No groundwater ingress encountered 3) Terminated at 1.00m bgl

Stability: Stable





Trial Pit Log

Trialpit No

TP101

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338679.83 - 350888.06

Level: 33.08

Date

05/06/2023

Location: Wrexham

Dimensions
(m):

3

Depth
3.10

1.2

Scale

1:25

Logged
ER

Client: Net World Sports

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES	HVR=93	0.30	32.78		Crops over, firm to stiff, orangish brown, sandy, gravelly CLAY. Sand is fine to medium, gravel is fine to medium, angular to subrounded of mudstone and sandstone. Frequent rootlets throughout. TOPSOIL	1
	0.20 - 0.30	B	HVR=120				Stiff to very stiff, dark brown, mottled grey, slightly gravelly CLAY. Gravel is fine to coarse, angular to rounded of coal, mudstone and sandstone. TILL	
	1.00	ES	HVR=130				Friable from 1.30m	2
			HVR=130					
	1.90 - 2.20	B	HVR=128					
	2.50	ES	HVR=130					3
			HVR=130					
				3.10	29.98		End of pit at 3.10 m	4
								5

Remarks: 1) Trial pit for geoenvironmental purposes 2) Terminated on hard digging 3) No groundwater ingress encountered.

Stability: Stable





Trial Pit Log

Trialpit No

TP102

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338666.11 - 350982.06

Level: 32.98

Date

05/06/2023

Location: Wrexham

Dimensions
(m):

2

Depth
3.55

0.6

Scale

1:25

Logged
ER

Client: Net World Sports

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
▼	0.20	ES	HVR=118	0.27	32.71		Crops over, firm to stiff, orangish brown, sandy, gravelly CLAY. Sand is fine to medium, gravel is fine to medium, angular to subrounded of mudstone and limestone. Frequent rootlets throughout. TOPSOIL. Stiff to very stiff, dark brown, mottled grey, slightly gravelly CLAY. Gravel is fine to coarse, angular to rounded of coal, mudstone and sandstone. TILL	
	0.80	ES	HVR=124					1
	1.30 - 1.60	B	HVR=130					
	1.85	ES	HVR=130					2
			HVR=120					
	3.10	ES	HVR=130					3
			HVR=130					
				3.55	29.43		End of pit at 3.55 m	4
								5

Remarks: 1) Trial pit for geoenvironmental purposes 2) Terminated due to hard digging 3) Groundwater seepage in western pit wall at 2.30m bgl.

Stability: Stable





Trial Pit Log

Trialpit No

TP103

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338642.85 - 351082.10

Level: 32.69

Date

05/06/2023

Location: Wrexham

Dimensions
(m):

2

Depth
3.85

0.6

Scale

1:25

Logged
ER

Client: Net World Sports

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.40 - 0.60 0.45	B ES	HVR=73	0.20	32.49		Crops over, firm to stiff, orangish brown, sandy, gravelly CLAY. Sand is fine to medium, gravel is fine to medium, angular to subrounded of mudstone and limestone. Frequent rootlets throughout. TOPSOIL	
			HVR=71	0.65	32.04		Firm, light orangish brown, slightly gravelly, sandy, silty CLAY. Gravel is fine to medium, angular to rounded of mudstone and quartz. Sand is fine to medium. TILL	
			HVR=119				Stiff to very stiff, dark brown, slightly gravelly CLAY. Gravel is fine to coarse, angular to rounded of coal, mudstone and sandstone. TILL	1
	1.30	ES	HVR=126					
			HVR=130					2
	2.70	ES	HVR=130					
	3.00 - 3.30	B	HVR=130					3
			HVR=130					
			HVR=130	3.85	28.84			
							End of pit at 3.85 m	4
								5

Remarks: 1) Trial pit for geoenvironmental purposes 2) Terminated on hard digging 3) No groundwater ingress encountered. 4) Terracotta land drain at 0.40m (dry/broken) running east to west.

Stability: Stable





Trial Pit Log

Trialpit No

TP104

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338492.24 - 351056.27

Level: 33.81

Date

06/06/2023

Location: Wrexham

Dimensions
(m):

2.2

Client: Net World Sports

Depth
3.00

0.6

Scale

1:25

Logged
ER

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES		0.20	33.61		Crops over, soft, dark brown, slightly gravelly, sandy, silty CLAY. Gravel is fine to medium, angular to subrounded of mudstone and siltstone. Sand is fine to medium. Frequent rootlets throughout	
			HVR=92				TOPSOIL	
	0.70	ES		0.80	33.01		Firm to stiff, orangish brown to dark brown, slightly gravelly, sandy CLAY. Gravel is fine to coarse, angular to rounded of coal, mudstone, siltstone and sandstone. Sand is fine to medium.	
			HVR=126				TILL	
			HVR=130				Stiff becoming very stiff, dark brown, mottled bluish grey, slightly gravelly CLAY. Gravel is fine to medium, angular to rounded of mudstone, siltstone and coal.	1
							TILL	
	1.60	ES						
	1.90	B						2
			HVR=130					
	2.50	ES						
			HVR=130					
			HVR=130	3.00	30.81			3
							End of pit at 3.00 m	
								4
								5

Remarks: 1) Trial pit for geoenvironmental purposes 2) Terminated at 3.00m bgl 3) No groundwater ingress encountered.

Stability: Stable





Trial Pit Log

Trialpit No

TP105

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338450.99 - 351116.67

Level: 33.53

Date

06/06/2023

Location: Wrexham

Dimensions
(m):

2.1

Client: Net World Sports

Depth
3.30

0.6

Scale
1:25Logged
ER

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.30	ES	HVR=67	0.35	33.18		Crops over, soft, dark brown, slightly gravelly, sandy, silty CLAY. Gravel is fine to medium, angular to subrounded of mudstone and siltstone. Sand is fine to medium. Frequent rootlets throughout TOPSOIL Firm, orangish brown to dark brown, slightly gravelly, sandy CLAY. Gravel is fine to coarse, angular to rounded of coal, mudstone, siltstone and sandstone. Sand is fine to medium. TILL	1
	1.00	B	HVR=71					
	1.20	ES		1.27	32.26			
			HVR=114				Stiff becoming very stiff, dark brown, mottled bluish grey, slightly gravelly CLAY. Gravel is fine to medium, angular to rounded of mudstone, siltstone and coal. Occasionally friable. TILL	2
			HVR=123					
			HVR=130					
	3.00	ES	HVR=127					3
			HVR=130	3.30	30.23			
							End of pit at 3.30 m	4
								5

Remarks: 1) Trial pit for geoenvironmental purposes 2) Terminated at 3.30m 3) No groundwater ingress encountered.

Stability: Stable





Trial Pit Log

Trialpit No

TP106

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338405.98 - 351188.26

Level: 33.13

Date

06/06/2023

Location: Wrexham

Dimensions
(m):

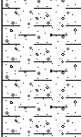
2.2

Client: Net World Sports

Depth
3.00

0.6

Scale
1:25Logged
ER

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.15	ES	HVR=63	0.28	32.85		Dark brown, slightly gravelly, clayey, silty, fine to coarse SAND. Gravel is fine to medium, angular to rounded of mixed natural lithologies. Frequent rootlets throughout	
			HVR=67				TOPSOIL Firm, orangish brown to dark brown, slightly gravelly, sandy CLAY. Gravel is fine to coarse, angular to rounded of coal, mudstone, siltstone and sandstone. Sand is fine to medium. TILL	
	0.90	ES	HVR=119	1.13	32.00		Stiff becoming very stiff, dark brown, mottled bluish grey, slightly gravelly CLAY. Gravel is fine to medium, angular to rounded of mudstone, siltstone and coal. TILL	1
	1.60	ES	HVR=130					
	2.40	ES	HVR=130					2
	2.90	B	HVR=130					
			HVR=130	3.00	30.13			
							End of pit at 3.00 m	3
								4
								5

Remarks: 1) Trial pit for geoenvironmental purposes 2) Terminated at 3.00m bgl 3) No groundwater ingress encountered.

Stability: Stable





Trial Pit Log

Trialpit No

TP107

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338368.15 - 351249.80

Level: 32.08

Date

06/06/2023

Location: Wrexham

Dimensions
(m):

2.5

Depth
3.00

0.6

Scale

1:25

Logged
ER

Client: Net World Sports

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES		0.25	31.83		Dark brown, slightly gravelly, clayey, silty, fine to coarse SAND. Gravel is fine to medium, angular to rounded of mixed natural lithologies. Frequent rootlets throughout TOPSOIL	
	0.90 - 1.10 1.00	B ES	HVR=62 HVR=75	1.18	30.90		Firm, orangish brown to dark brown, sandy CLAY. Gravel is fine to coarse, angular to rounded of coal, mudstone, siltstone and sandstone. Sand is fine to medium. TILL	1
	2.00	ES	HVR=123 HVR=130 HVR=130	3.00	29.08		Stiff becoming very stiff, dark brown, mottled bluish grey, slightly gravelly CLAY. Gravel is fine to medium, angular to rounded of mudstone, siltstone and coal. TILL	2
			HVR=130				End of pit at 3.00 m	3
								4
								5

Remarks: 1) Trial pit for geoenvironmental purposes 2) Terminated at 3.00m bgl 3) No groundwater ingress encountered.

Stability: Stable





Trial Pit Log

Trialpit No

TP108

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338458.91 - 351032.31

Level: 34.20

Date

06/06/2023

Location: Wrexham

Dimensions
(m):

2

Depth
3.00

0.6

Scale

1:25

Logged
ER

Client: Net World Sports

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.30	ES		0.45	33.75		Grass over, dark brown, slightly gravelly, slightly sandy to sandy, clayey SILT. Sand is fine, gravel is fine to medium, angular to subrounded of mudstone and sandstone. Frequent rootlets throughout TOPSOIL	
			HVR=83				Firm becoming very stiff, dark brown, mottled grey, slightly gravelly, slightly silty CLAY. Gravel is fine to coarse, angular to rounded of coal, mudstone, siltstone and quartz. TILL	1
	1.20	ES						
			HVR=130					
			HVR=130					
	2.20	B						2
			HVR=130					
			HVR=128					
			HVR=130	3.00	31.20			3
							End of pit at 3.00 m	
								4
								5

Remarks: 1) Trial pit for geoenvironmental purposes 2) Terminated at 3.00m bgl 3) No groundwater ingress encountered.

Stability: Stable





Trial Pit Log

Trialpit No

TP109

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338336.76 - 350965.69

Level: 34.13

Date

07/06/2023

Location: Wrexham

Dimensions
(m):

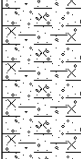
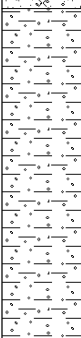
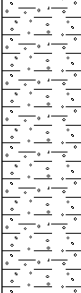
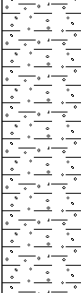
2.5

Client: Net World Sports

Depth
4.00

0.6

Scale
1:25Logged
ER

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.15	ES	HVR=87	0.23	33.90		Grass over, dark brown, slightly clayey to clayey, silty gravelly, fine to medium SAND. Gravel is fine to coarse, angular to rounded of mixed natural lithologies. Frequent rootlets throughout. TOPSOIL Firm to stiff, orangish brown to brown, slightly silty, slightly gravelly, sandy CLAY. Gravel is fine to medium, angular to rounded of mudstone, coal and quartz. Sand is fine to medium. TILL	
	0.80	ES	HVR=123	0.85	33.28		Stiff becoming very stiff, dark brown, mottled bluish grey, slightly gravelly CLAY. Gravel is fine to medium, angular to rounded of mudstone, siltstone and coal. TILL	1
	1.55	ES	HVR=130					2
	2.10	B	HVR=130					3
			HVR=128					4
			HVR=130					5
			HVR=130	4.00	30.13		End of pit at 4.00 m	

Remarks: 1) Trial pit for geoenvironmental purposes 2) Terminated at 4.00m bgl 3) No groundwater ingress encountered.

Stability: Stable





Trial Pit Log

Trialpit No

TP110

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338284.49 - 351114.47

Level: 35.34

Date

08/06/2023

Location: Wrexham

Dimensions
(m):

2.8

Client: Net World Sports

Depth
4.00

0.6

Scale

1:25

Logged
ER

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.15	ES		0.22	35.12		Grass over, firm, dark brown, slightly gravelly, sandy to very sandy CLAY. Gravel is fine to coarse, angular to subangular of mudstone, coal and sandstone. Sand is fine to coarse. Frequent rootlets throughout. TOPSOIL
	0.50	ES	HVR=110	0.55	34.79		Stiff, brown, slightly gravelly, sandy CLAY. Gravel is fine to coarse, angular to subangular of mudstone, coal, sandstone and quartz. Sand is fine to coarse. TILL
			HVR=109				Stiff, becoming very stiff, dark brown, mottled grey, slightly gravelly, slightly silty to silty CLAY. Gravel is fine to coarse, angular to rounded of mudstone, siltstone, coal and rare quartz. TILL
	1.30	ES	HVR=114				
			HVR=128				
			HVR=130				
	2.50	B	HVR=130				
			HVR=130				
	3.20	ES	HVR=130				
			HVR=130				
			HVR=130	4.00	31.34		End of pit at 4.00 m

Remarks: 1) Trial pit for geoenvironmental purposes 2) Terminated at 4.00m bgl 3) No groundwater ingress encountered.

Stability: Stable





Trial Pit Log

Trialpit No

TP111

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338327.53 - 351169.29

Level: 33.91

Date

08/06/2023

Location: Wrexham

Dimensions
(m):

2.3

Client: Net World Sports

Depth
3.30

0.6

Scale

1:25

Logged
ER

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES					Grass over, firm, dark brown, slightly gravelly, sandy to very sandy CLAY. Gravel is fine to coarse, angular to subangular of mudstone, coal and sandstone. Sand is fine to coarse. Frequent rootlets throughout	
	0.30	B	HVR=95	0.20	33.71		TOPSOIL	
	0.40	ES	HVR=126	0.50	33.41		Stiff, brown, slightly gravelly, sandy CLAY. Gravel is fine to coarse, angular to subangular of mudstone, coal, sandstone and quartz. Sand is fine to coarse.	
							TILL	
							Stiff, becoming very stiff, dark brown, mottled grey, slightly gravelly, slightly silty to silty CLAY. Gravel is fine to coarse, angular to rounded of mudstone, siltstone, coal and rare quartz.	
							TILL	
	1.10	ES	HVR=130					1
			HVR=130					
			HVR=130					2
			HVR=130					
			HVR=130					3
			HVR=130					
				3.30	30.61		End of pit at 3.30 m	4
								5

Remarks: 1) Trial pit for geoenvironmental purposes 2) Terminated at 3.30m bgl 3) No groundwater ingress encountered.

Stability: Stable





Trial Pit Log

Trialpit No

TP112

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338246.92 - 351212.50

Level: 34.10

Date

08/06/2023

Location: Wrexham

Dimensions
(m):

2

Depth
3.00

0.6

Scale

1:25

Logged
ER

Client: Net World Sports

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.20	ES		0.27	33.83		Grass over, firm, dark brown, slightly gravelly, sandy to very sandy CLAY. Gravel is fine to coarse, angular to subangular of mudstone, coal and sandstone. Sand is fine to coarse. Frequent rootlets throughout
	0.50	B					TOPSOIL
	0.60	ES	HVR=120	0.63	33.47		Light yellowish brown, clayey, silty, gravelly, fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of mudstone, sandstone, coal and occasional igneous lithologies.
							TILL
			HVR=130				Stiff, becoming very stiff, dark brown, mottled grey, slightly gravelly, slightly silty to silty CLAY. Gravel is fine to coarse, angular to rounded of mudstone, siltstone, coal and rare quartz.
							TILL
	1.50	ES	HVR=130				
			HVR=128				
			HVR=130				
	3.00	B	HVR=130	3.00	31.10		End of pit at 3.00 m

Remarks: 1) Trial pit for geoenvironmental purposes 2) Terminated at 3.00m bgl 3) No groundwater ingress encountered.

Stability: Stable





Trial Pit Log

Trialpit No

TP113

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338796.49 - 350880.88

Level: 32.26

Date

08/06/2023

Location: Wrexham

Dimensions
(m):

2

Depth
3.10

0.6

Scale

1:25

Logged
ER

Client: Net World Sports

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES	HVR=61	0.18	32.08		Grass over dark brown, slightly clayey, slightly silty, gravelly, fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of mudstone, coal and clods of clay. Frequent rootlets throughout TOPSOIL	
	0.45	B	HVR=60				Firm, yellowish brown, slightly sandy, slightly gravelly, silty CLAY. Sand is fine to medium, gravel is fine to coarse, angular to subrounded of mudstone, coal and sandstone.	
	0.65	ES	HVR=110	0.70	31.56		TILL Stiff to very stiff, dark reddish brown, mottled bluish grey, slightly gravelly, slightly silty CLAY. Gravel is fine to coarse, angular to rounded of mudstone and coal.	1
	1.15	ES	HVR=130					
			HVR=130					2
			HVR=130					
			HVR=130					
			HVR=130	3.10	29.16			3
							End of pit at 3.10 m	
								4
								5

Remarks: 1) Trial pit for geoenvironmental purposes 2) Terminated at 3.10m bgl 3) No groundwater ingress encountered.

Stability: Stable





Trial Pit Log

Trialpit No

TP114

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338788.88 - 350958.99

Level: 32.49

Date

08/06/2023

Location: Wrexham

Dimensions
(m):

2

Client: Net World Sports

Depth
3.20

0.6

Scale

1:25

Logged
ER

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.05	ES		0.21	32.28		Grass over dark brown, slightly clayey, slightly silty, gravelly, fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of mudstone, coal and clods of clay. Frequent rootlets throughout TOPSOIL
	0.50	ES	HVR=63 HVR=71	0.55	31.94		Firm, yellowish brown, slightly sandy, slightly gravelly, silty CLAY. Sand is fine to medium, gravel is fine to coarse, angular to subrounded of mudstone, coal and sandstone. TILL
			HVR=88				Firm, becoming very stiff, dark reddish brown, mottled grey, slightly gravelly, slightly sandy, slightly silty CLAY. Sand is fine to medium, gravel is fine to coarse, angular to rounded of mudstone, sandstone and coal. TILL
	1.50	B	HVR=109				
	2.10	ES	HVR=130 HVR=130				
			HVR=130	3.20	29.29		End of pit at 3.20 m

Remarks: 1) Trial pit for geoenvironmental purposes 2) Terminated at 3.20m bgl 3) No groundwater ingress encountered.

Stability: Stable





Trial Pit Log

Trialpit No

TP115

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338845.77 - 351025.52

Level: 31.67

Date

08/06/2023

Location: Wrexham

Dimensions
(m):

2

Depth
3.00

0.6

Scale

1:25

Logged
ER

Client: Net World Sports

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.15	ES	HVR=78	0.20	31.47		Grass over dark brown, slightly clayey, slightly silty, gravelly, fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of mudstone, coal and clods of clay. Frequent rootlets throughout TOPSOIL	
	0.60	ES	HVR=69				Firm, locally stiff, yellowish brown, slightly sandy, slightly gravelly, silty CLAY. Sand is fine to medium, gravel is fine to coarse, angular to subrounded of mudstone, coal and sandstone.	
	0.70	B	HVR=112	0.75	30.92		TILL Stiff to very stiff, dark reddish brown, mottled bluish grey, slightly gravelly, slightly silty CLAY. Gravel is fine to coarse, angular to rounded of mudstone and coal.	1
			HVR=118					
	1.75	ES	HVR=130					
			HVR=130					2
			HVR=130					
			HVR=130					
			HVR=130	3.00	28.67			3
							End of pit at 3.00 m	
								4
								5

Remarks: 1) Trial pit for geoenvironmental purposes 2) Terminated at 3.00m bgl 3) No groundwater ingress encountered.

Stability: Stable





Trial Pit Log

Trialpit No

TP116

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338912.29 - 350879.70

Level: 31.16

Date

08/06/2023

Location: Wrexham

Dimensions
(m):

2.2

Depth
3.10

0.6

Scale

1:25

Logged

ER

Client: Net World Sports

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES					Crops over soft, dark brown, slightly gravelly, silty, sandy CLAY. Gravel is fine to coarse, angular to subrounded of mudstone, siltstone and coal. Sand is fine to medium. Frequent rootlets throughout	
			HVR=61	0.26	30.90		TOPSOIL	
	0.40	ES					Grass over dark brown, slightly clayey, slightly silty, gravelly, fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of mudstone, coal and clods of clay.	
			HVR=101	0.50	30.66		TILL	
							Stiff to very stiff, dark reddish brown, mottled bluish grey, slightly gravelly, slightly silty CLAY. Gravel is fine to coarse, angular to rounded of mudstone and coal.	1
							TILL	
	1.20	ES						
			HVR=123					
	1.60	B						2
			HVR=126					
			HVR=130					
	2.70	ES						3
			HVR=130					
			HVR=130	3.10	28.06		End of pit at 3.10 m	
								4
								5

Remarks: 1) Trial pit for geoenvironmental purposes 2) Terminated at 3.10m bgl 3) No groundwater ingress encountered.

Stability: Stable





Trial Pit Log

Trialpit No

TP117

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338743.00 - 351076.89

Level: 31.94

Date

08/06/2023

Location: Wrexham

Dimensions
(m):

2.5

Client: Net World Sports

Depth
4.20

0.6

Scale

1:25

Logged
ER

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	ES		0.22	31.72		Crops over soft, dark brown, slightly gravelly, silty, sandy CLAY. Gravel is fine to coarse, angular to subrounded of mudstone, siltstone and coal. Sand is fine to medium. Frequent rootlets throughout TOPSOIL	
	0.40	ES					MADE GROUND: Black clayey, gravelly, spongy, pseudofibrous to fibrous PEAT. Gravel is fine to coarse, angular to subangular of brick, concrete and mixed natural lithologies. Frequent tree roots and whole brick. MADE GROUND	
	0.70	B	HVR=21	0.60	31.34		<i>Strong organic odour 0.30m bgl to 1.35m bgl</i> <i>Knife at 0.43m bgl</i>	
	0.90	ES	HVR=19				MADE GROUND: Very soft, grey, very silty CLAY. MADE GROUND	1
				1.35	30.59		Stiff to very stiff, dark reddish brown, mottled bluish grey, slightly gravelly, slightly silty CLAY. Gravel is fine to coarse, angular to rounded of mudstone and coal. TILL	
	1.60	ES	HVR=79					2
			HVR=110					
			HVR=130					3
			HVR=130					
			HVR=130					4
				4.20	27.74		End of pit at 4.20 m	5

Remarks: 1) Trial pit for geoenvironmental purposes 2) Terminated at 4.20m bgl 3) Groundwater ingress at 0.30m bgl moderate influx.

Stability: Stable





Trial Pit Log

Trialpit No

TP118

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338766.61 - 351079.04

Level: 31.79

Date

08/06/2023

Location: Wrexham

Dimensions
(m):

2

Depth
3.20

0.6

Scale

1:25

Logged
ER

Client: Net World Sports

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.33			0.33	31.46		Crops over soft, dark brown, slightly gravelly, silty, sandy CLAY. Gravel is fine to coarse, angular to subrounded of mudstone, siltstone and coal. Sand is fine to medium. Frequent rootlets throughout TOPSOIL	
	0.50	D					MADE GROUND: Black clayey, gravelly, spongy, pseudofibrous to fibrous PEAT. Gravel is fine to coarse, angular to subangular of brick, concrete and mixed natural lithologies. Frequent tree roots and whole brick. MADE GROUND <i>Strong organic odour 0.33m to 1.80m</i>	
	1.00	ES						1
	1.25		HVR=17	1.25	30.54		MADE GROUND: Very soft, grey, very silty CLAY. MADE GROUND	
	1.40	D						
	1.70	ES						
			HVR=23	1.80	29.99		Firm, becoming very stiff, dark reddish brown, mottled grey, slightly gravelly, slightly sandy, slightly silty CLAY. Sand is fine to medium, gravel is fine to coarse, angular to rounded of mudstone, sandstone and coal. TILL	2
			HVR=59					
			HVR=123					
			HVR=130					3
	3.20			3.20	28.59		End of pit at 3.20 m	
								4
								5

Remarks: 1) Trial pit for geoenvironmental purposes 2) Terminated at 3.20m bgl 3) Groundwater ingress at 0.40m bgl moderate influx.

Stability: Stable





Trial Pit Log

Trialpit No

TP119

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338742.03 - 351094.92

Level: 31.97

Date

08/06/2023

Location: Wrexham

Dimensions
(m):

2

Depth
3.00

0.6

Scale

1:25

Logged
ER

Client: Net World Sports

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.20	ES	HVR=78	0.30	31.67		Crops over soft, dark brown, slightly gravelly, silty, sandy CLAY. Gravel is fine to coarse, angular to subrounded of mudstone, siltstone and coal. Sand is fine to medium. Frequent rootlets throughout TOPSOIL
			HVR=106				Firm becoming very stiff, dark reddish brown, mottled bluish grey, slightly sandy, slightly gravelly, slightly silty to silty CLAY. Sand is fine to coarse, gravel is fine to coarse, angular to subangular of mudstone, coal and quartz. TILL
			HVR=130				
	2.00	B	HVR=130				
			HVR=130				
			HVR=130	3.00	28.97		
							End of pit at 3.00 m

Remarks: 1) Trial pit for geoenvironmental purposes 2) Terminated at 3.00m bgl 3) No groundwater ingress encountered.

Stability: Stable





Trial Pit Log

Trialpit No

TP120

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338280.57 - 351015.79

Level: 34.87

Date

09/06/2023

Location: Wrexham

Dimensions
(m):

2

Depth
3.20

0.6

Scale

1:25

Logged
ER

Client: Net World Sports

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.30	ES	HVR=106	0.43	34.44		Grass over dark brown, slightly gravelly, clayey to very clayey, fine to medium SAND. Gravel is fine to medium, angular to rounded of mudstone and sandstone. Frequent rootlets throughout TOPSOIL	
	0.70	ES	HVR=130				Stiff, becoming very stiff, dark brown, mottled grey, slightly gravelly, slightly silty CLAY. Gravel is fine to medium, angular to rounded of mudstone, siltstone, coal, sandstone and occasional quartz. TILL	1
	1.30	B	HVR=130					2
			HVR=130					3
			HVR=130	3.20	31.67		End of pit at 3.20 m	4
								5

Remarks: 1) Trial pit for geoenvironmental purposes 2) Terminated at 3.20m bgl 3) No groundwater ingress encountered.

Stability: Stable





Trial Pit Log

Trialpit No

TP121

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338346.09 - 351117.47

Level: 34.50

Date

09/06/2023

Location: Wrexham

Dimensions
(m):

2.1

Depth
3.15

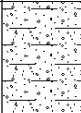
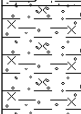
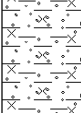
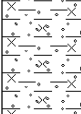
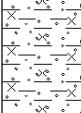
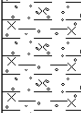
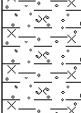
0.6

Scale

1:25

Logged
ER

Client: Net World Sports

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.40	ES	HVR=124	0.46	34.04		Grass over dark brown, slightly gravelly to gravelly, very clayey, fine to coarse SAND. Gravel is fine to coarse, angular to subangular of mudstone and sandstone with clods of clay. Frequent rootlets throughout. TOPSOIL	
	1.00	ES	HVR=130				Stiff to very stiff, dark reddish brown, mottled bluish grey, slightly gravelly, slightly silty CLAY. Gravel is fine to coarse, angular to rounded of mudstone and coal. TILL	1
			HVR=130					
	1.80	B	HVR=130					2
			HVR=130					
			HVR=130					
			HVR=130	3.15	31.35			3
							End of pit at 3.15 m	
								4
								5

Remarks: 1) Trial pit for geoenvironmental purposes 2) Terminated at 3.15m bgl 3) No groundwater ingress encountered.

Stability: Stable





Borehole Log

Borehole No.

WS101

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338891.85 - 350883.76

Hole Type
WS

Location: Wrexham

Level: 31.41

Scale
1:50

Client: Net World Sports

Dates: 12/06/2023 -

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.32			0.32	31.09		Crops over, dark brown, slightly gravelly, clayey, fine to coarse SAND. Gravel is fine to medium, angular to subrounded of mudstone, sandstone and limestone. Frequent rootlets throughout. TOPSOIL	
		1.20	SPTL					Stiff, brown, mottled grey, slightly gravelly CLAY. Gravel is fine to coarse, angular to subrounded of mudstone, coal and quartz.	1
		1.20	S	N=18 (2,3/4,4,5,5)					
		2.00	SPTL						2
		2.00	S	N=19 (2,4/4,4,5,6)					
		3.00	SPTL						3
		3.00	S	N=21 (3,3/3,6,6,6)					
		4.00	SPTL						4
		4.00	S	N=22 (4,4/4,5,6,7)					
		5.00	SPTL						5
		5.00	S	N=23 (4,4/4,6,6,7)					
		5.45			5.45	25.96		End of borehole at 5.45 m	6
									7
									8
									9
									10

Remarks

1) Hand dug pit to 1.20m bgl for service clearance. 2) Terminated at 5.45m bgl 3) No groundwater ingress encountered





Borehole Log

Borehole No.

WS102

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338739.30 - 350956.77

Hole Type
WS

Location: Wrexham

Level: 32.45

Scale
1:50

Client: Net World Sports

Dates: 12/06/2023 -

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.28 0.28	SPTL S	N=18 (2,3/4,4,5,5)	0.28	32.17		Crops over, dark brown, slightly gravelly, clayey, fine to coarse SAND. Gravel is fine to medium, angular to subrounded of mudstone and limestone. Frequent rootlets throughout. TOPSOIL Stiff, brown, mottled grey, slightly gravelly CLAY. Gravel is fine to coarse, angular to subrounded of mudstone, coal and quartz. TILL	1
		1.20 1.20							
		2.00 2.00							
		3.00 3.00	SPTL S	N=50 (7,8/50 for 295mm)	3.38	29.07		End of borehole at 3.38 m	3
									4
									5
									6
									7
									8
									9
									10

Remarks

1) Hand dug pit to 1.20m bgl for service clearance. 2) Terminated at refusal 3) No groundwater ingress encountered





Borehole Log

Borehole No.

WS103

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338663.52 - 351051.31

Hole Type
WS

Location: Wrexham

Level: 32.69

Scale
1:50

Client: Net World Sports

Dates: 12/06/2023 -

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30 0.30			0.30	32.39		Crops over, dark brown, slightly gravelly, clayey to very clayey, fine to medium SAND. Gravel is fine to medium, angular to subangular of mudstone, sandstone and limestone. Frequent rootlets throughout TOPSOIL	
		1.20 1.20	SPTL S	N=19 (2,3/3,5,5,6)				Firm becoming stiff, brown, mottled grey, slightly gravelly CLAY. Gravel is fine to coarse, angular to subrounded of mudstone, coal and quartz with rare pockets of fine to medium sand. TILL	1
		2.00 2.00	SPTL S	N=16 (2,3/3,4,4,5)					2
		3.00 3.00	SPTL S	N=18 (3,3/3,4,5,6)				<u>Slightly sandy from 3.10m</u>	3
		4.00 4.00	SPTL S	N=25 (5,5/5,6,6,8)					4
		5.00 5.00	SPTL S	N=21 (4,4/4,5,6,6)					5
					5.45	27.24		End of borehole at 5.45 m	6
									7
									8
									9
									10

Remarks

1) Hand dug pit to 1.20m bgl for service clearance 2) Terminated at 5.45m bgl 3) No groundwater ingress encountered





Borehole Log

Borehole No.

WS104

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338878.59 - 351101.99

Hole Type
WS

Location: Wrexham

Level: 30.79

Scale
1:50

Client: Net World Sports

Dates: 12/06/2023 -

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.25 0.25	SPTL S	N=20 (2,3/4,5,5,6)	0.25	30.54		Crops over, dark brown, slightly gravelly, clayey to very clayey, fine to medium SAND. Gravel is fine to medium, angular to subangular of mudstone and sandstone. Frequent rootlets throughout. TOPSOIL	
		1.20 1.20						Stiff, dark brown, occasionally mottled grey, slightly gravelly, slightly sandy CLAY. Gravel is fine to medium, angular to subangular of mudstone. Sand is fine. TILL	
		2.00 2.00							
		3.00 3.00							
		4.00 4.00							
		5.00 5.00							
					5.45	25.34		End of borehole at 5.45 m	

Remarks

1) Hand dug pit to 1.20m for service clearance 2) Terminated at 5.45m 3) No groundwater ingress encountered





Borehole Log

Borehole No.

WS105

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338762.72 - 351078.54

Hole Type
WS

Location: Wrexham

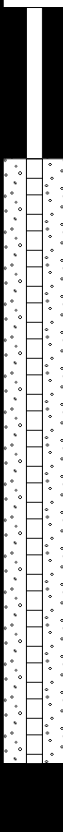
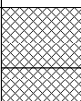
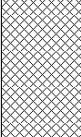
Level: 31.67

Scale
1:50

Client: Net World Sports

Dates: 12/06/2023 -

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
					0.40	31.27		MADE GROUND: Dark brown, clayey, sandy, fine to coarse, angular to subangular GRAVEL of mudstone, brick, limestone, terracotta, coal and frequent clods of clay.	1	
		1.20 1.20	SPTL S	N=3 (1,0/0,1,1,1)						MADE GROUND: Soft, brown, slightly sandy, gravelly CLAY. Sand is fine to medium. Gravel is fine to coarse, angular to subangular of brick, tile, mudstone, limestone and coal.
		2.00 2.00	SPTL S	N=0 (1,0/0,0,0,0)	1.90	29.77			MADE GROUND: Black, spongy, fibrous PEAT	2
					2.20	29.47			MADE GROUND: Very soft, grey, very silty CLAY	
									MADE GROUND	3
		3.00 3.00	SPTL S	N=26 (4,4/4,7,7,8)	2.80	28.87			Stiff, dark brown, silty CLAY TILL	
										4
		4.00 4.00	SPTL S	N=17 (3,3/3,4,4,6)						
										5
		5.00 5.00	SPTL S	N=25 (4,4/4,6,7,8)	5.45	26.22				
End of borehole at 5.45 m									6	
									7	
									8	
									9	
									10	

Remarks

1) Hand dug pit to 1.20m for service clearance 2) Terminated at 5.45m bgl 3) Groundwater strike at 1.90m bgl





Borehole Log

Borehole No.

WS106

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338427.28 - 351157.41

Hole Type
WS

Location: Wrexham

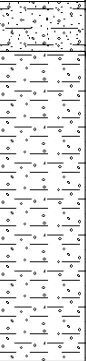
Level: 33.08

Scale
1:50

Client: Net World Sports

Dates: 13/06/2023 -

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.33			0.33	32.75		Crops over dark brown, slightly gravelly, very clayey, fine to medium SAND. Gravel is fine to medium, angular to subangular of mudstone and limestone. Frequent rootlets throughout. TOPSOIL Firm to very stiff, dark brown. mottled grey, slightly gravelly CLAY. Gravel is fine to medium, angular to rounded of mudstone and coal. TILL	1
		1.20 1.20	SPTL S	N=15 (3,3/3,4,4,4)					
		2.00 2.00	SPTL S	N=50 (9,9/50 for 295mm)	2.38	30.70			2
								End of borehole at 2.38 m	3
									4
									5
									6
									7
									8
									9
									10

Remarks

1) Hand dug pit to 1.20m bgl for service clearance. 2) Terminated at refusal 3) No groundwater ingress encountered





Borehole Log

Borehole No.

WS107

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338402.72 - 351058.74

Hole Type
WS

Location: Wrexham

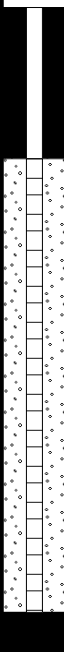
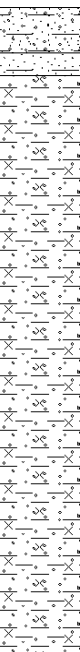
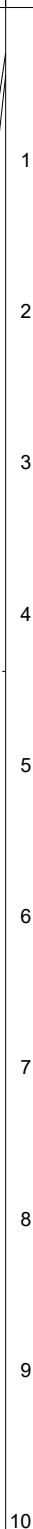
Level: 34.34

Scale
1:50

Client: Net World Sports

Dates: 13/06/2023 -

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.30 0.45	34.04 33.89		Grass over dark brown, slightly gravelly, clayey, fine to coarse SAND. Gravel is fine to coarse, angular to rounded of mudstone, limestone and clods of clay. Frequent rootlets throughout	
								TOPSOIL	
								Yellowish brown, clayey, fine to medium SAND	
								TILL	
		1.20 1.20	SPTL S	N=14 (3,3/3,3,3,5)				Firm to very stiff, dark brown, mottled bluish grey, slightly gravelly, slightly silty CLAY. Gravel is fine to medium, angular to subrounded of mudstone.	
								TILL	
		2.00 2.00	SPTL S	N=22 (3,4/4,6,6,6)					
		3.00 3.00	SPTL S	N=25 (5,5/5,6,7,7)					
		4.00 4.00	SPTL S	N=50 (7,10/50 for 285mm)	4.39	29.95			
		End of borehole at 4.39 m							

Remarks

1) Hand dug pit to 1.20m bgl for service clearance. 2) Terminated on refusal 3) No groundwater ingress encountered





Borehole Log

Borehole No.

WS108

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338345.05 - 351158.96

Hole Type
WS

Location: Wrexham

Level: 34.05

Scale
1:50

Client: Net World Sports

Dates: 15/06/2023 -

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.35			0.35	33.70		Grass over dark brown, slightly gravelly, clayey, silty, fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of mudstone and limestone. Frequent rootlets throughout. TOPSOIL	
		1.20 1.20	SPTL S	N=14 (3,3/3,3,4,4)				Firm, becoming stiff, dark brown, slightly gravelly, slightly silty CLAY. Gravel is fine to coarse, angular to rounded of mudstone, coal and occasional igneous lithologies and sandstone. TILL <i>Rare pockets of orange medium to coarse SAND.</i>	1
		2.00 2.00	SPTL S	N=23 (3,3/4,6,6,7)					2
		3.00 3.00	SPTL S	N=22 (3,4/4,6,6,6)					3
		4.00 4.00	SPTL S	N=22 (4,4/4,6,6,6)					4
		5.00 5.00	SPTL S	N=21 (4,4/4,5,6,6)					5
		5.45			5.45	28.60		End of borehole at 5.45 m	6
									7
									8
									9
									10

Remarks

1) Hand dug pit to 1.20m bgl for service clearance. 2) Terminated at 5.45m bgl 3) No groundwater ingress encountered





Borehole Log

Borehole No.

WS109

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338345.01 - 351158.97

Hole Type
WS

Location: Wrexham

Level: 34.09

Scale
1:50

Client: Net World Sports

Dates: 15/06/2023 -

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.40 0.40	SPTL S	N=22 (2,3/4,5,6,7)	0.40	33.69		Grass over dark brown, slightly gravelly, clayey, silty, fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of mudstone and limestone. Frequent rootlets throughout. TOPSOIL	1
		1.20 1.20						Stiff, dark brown, occasionally mottled grey, slightly gravelly CLAY. Gravel is fine to coarse, angular to subrounded of mudstone, coal and mixed igneous and metamorphic lithologies. TILL	
		2.00 2.00							
		3.00 3.00							
		4.00 4.00							
		5.00 5.00	SPTL S	N=24 (4,4/4,6,7,7)	5.45	28.64			5
								End of borehole at 5.45 m	6
									7
									8
									9
									10

Remarks

1) Hand dug pit to 1.20m bgl for service clearance. 2) Terminated at 5.45m bgl 3) No groundwater ingress encountered





Borehole Log

Borehole No.

WS110

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338304.40 - 351137.91

Hole Type
WS

Location: Wrexham

Level: 34.69

Scale
1:50

Client: Net World Sports

Dates: 16/06/2023 -

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.38 0.38	SPTL S	N=19 (2,3/3,5,5,6)	0.38	34.31		Grass over dark brown, slightly gravelly, clayey, silty, fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of mudstone and limestone. Frequent rootlets throughout. TOPSOIL	
		1.20 1.20						Stiff, dark brown, mottled grey, slightly gravelly, slightly sandy CLAY. Gravel is fine to coarse, angular to subrounded of mudstone, coal, sandstone and mixed igneous lithologies. Sand is fine to medium. TILL	
		2.00 2.00							
		3.00 3.00							
		4.00 4.00							
		5.00 5.00							
					5.45	29.24		End of borehole at 5.45 m	

Remarks

1) Hand dug pit to 1.20m bgl for service clearance 2) Terminated at 5.45m bgl 3) No groundwater ingress encountered





Borehole Log

Borehole No.

WS111

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338458.07 - 350892.47

Hole Type
WS

Location: Wrexham

Level: 33.19

Scale
1:50

Client: Net World Sports

Dates: 16/06/2023 -

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.26			0.26	32.93		Grass over dark brown, sandy, gravelly, fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of mudstone, sandstone, coal and clods of clay. POSSIBLE MADE GROUND: Firm, dark orangish brown, slightly sandy, slightly gravelly CLAY. Gravel is fine to coarse, angular to subangular of mudstone. Sand is fine to medium POSSIBLE MADE GROUND Firm, becoming stiff, dark brown, mottled grey, slightly gravelly CLAY. Gravel is fine to medium, angular to subrounded of mudstone and coal TILL	1
		0.55	ES		0.60	32.59			
		1.20	SPTL						
		1.20	S	N=12 (2,2/2,3,3,4)					
		2.00	SPTL						
		2.00	S	N=15 (3,3/3,4,4,4)					
		3.00	SPTL						
		3.00	S	N=17 (4,4/4,3,5,5)					
		4.00	SPTL						
		4.00	S	N=24 (4,4/5,6,6,7)					
		5.00	SPTL						
		5.00	S	N=22 (4,4/4,6,6,6)					
					5.45	27.74		End of borehole at 5.45 m	6
									7
									8
									9
									10

Remarks

1) Hand dug pit to 1.20m bgl for service clearance 2) Terminated at 5.45m bgl 3) No groundwater ingress encountered





Borehole Log

Borehole No.

WS112

Sheet 1 of 1

Project Name: Bryn Lane, Detailed Planning

Project No.
TE1750

Co-ords: 338389.35 - 350914.41

Hole Type
WS

Location: Wrexham

Level: 33.40

Scale
1:50

Client: Net World Sports

Dates: 16/06/2023 -

Logged By
ER

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.33	33.07		Grass over dark brown, sandy, gravelly, fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of mudstone, sandstone, coal and clods of clay.	
		1.20 1.20	SPTL S	N=13 (2,2/2,3,4,4)				Firm to stiff, dark orangish brown, slightly sandy, slightly gravelly CLAY. Gravel is fine to coarse, angular to subangular of mudstone. Sand is fine to medium TILL	1
		2.00 2.00	SPTL S	N=21 (3,3/4,5,6,6)					2
		3.00 3.00	SPTL S	N=24 (3,4/6,6,6,6)					3
		4.00 4.00	SPTL S	N=19 (4,4/4,4,5,6)					4
		5.00 5.00	SPTL S	N=24 (4,5/5,6,6,7)				Rare lenses of grey, silty, fine sand from 4.20m bgl (in mottled areas)	5
					5.45	27.95		End of borehole at 5.45 m	6
									7
									8
									9
									10

Remarks

1) Hand dug pit to 1.20m bgl for service clearance 2) Terminated at 5.45m bgl 3) No groundwater ingress encountered



APPENDIX C - GEOENVIRONMENTAL SOIL LABORATORY RESULTS

Tier Environmental
Suite 414, Chadwick House
Warrington Rd
Birchwood
Warrington
United Kingdom
WA3 6AE



4225



Attention : Adrian Read

Date : 26th June, 2023

Your reference : TE1750

Our reference : Test Report 23/9034 Batch 1

Location : Bryn Lane Detail

Date samples received : 5th June, 2023

Status : Final Report

Issue : 1

Ten samples were received for analysis on 5th June, 2023 of which three were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:



Bruce Leslie
Project Manager

Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane Detail
Contact: Adrian Read
EMT Job No: 23/9034

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-4	13-16	37-40										
Sample ID	TP101	TP102	TP103										
Depth	0.10	0.20	2.70										
COC No / misc													
Containers	V J T	V J T	V J T										
Sample Date	05/06/2023	05/06/2023	05/06/2023										
Sample Type	Soil	Soil	Soil										
Batch Number	1	1	1										
Date of Receipt	05/06/2023	05/06/2023	05/06/2023										
											Please see attached notes for all abbreviations and acronyms		
											LOD/LOR	Units	Method No.
Arsenic #	11.5	10.7	11.6								<0.5	mg/kg	TM30/PM15
Cadmium #	<0.1	<0.1	<0.1								<0.1	mg/kg	TM30/PM15
Chromium #	59.4	51.2	56.6								<0.5	mg/kg	TM30/PM15
Copper #	21	19	25								<1	mg/kg	TM30/PM15
Lead #	17	44	16								<5	mg/kg	TM30/PM15
Mercury #	0.2	0.2	0.1								<0.1	mg/kg	TM30/PM15
Nickel #	56.0	27.6	41.3								<0.7	mg/kg	TM30/PM15
Selenium #	1	1	<1								<1	mg/kg	TM30/PM15
Total Sulphate as SO4 #	523	550	531								<50	mg/kg	TM50/PM29
Zinc #	69	94	80								<5	mg/kg	TM30/PM15
PAH MS													
Naphthalene #	<0.04	<0.04	<0.04								<0.04	mg/kg	TM4/PM8
Acenaphthylene	<0.03	<0.03	<0.03								<0.03	mg/kg	TM4/PM8
Acenaphthene #	<0.05	<0.05	<0.05								<0.05	mg/kg	TM4/PM8
Fluorene #	<0.04	<0.04	<0.04								<0.04	mg/kg	TM4/PM8
Phenanthrene #	<0.03	<0.03	<0.03								<0.03	mg/kg	TM4/PM8
Anthracene #	<0.04	<0.04	<0.04								<0.04	mg/kg	TM4/PM8
Fluoranthene #	<0.03	<0.03	<0.03								<0.03	mg/kg	TM4/PM8
Pyrene #	<0.03	<0.03	<0.03								<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	<0.06	<0.06	<0.06								<0.06	mg/kg	TM4/PM8
Chrysene #	<0.02	<0.02	<0.02								<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene #	<0.07	<0.07	<0.07								<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	<0.04	<0.04	<0.04								<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #	<0.04	<0.04	<0.04								<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	<0.04	<0.04	<0.04								<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	<0.04	<0.04	<0.04								<0.04	mg/kg	TM4/PM8
PAH 16 Total	<0.6	<0.6	<0.6								<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	<0.05	<0.05	<0.05								<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	<0.02	<0.02	<0.02								<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	93	89	87								<0	%	TM4/PM8

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane Detail
Contact: Adrian Read
EMT Job No: 23/9034

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-4	13-16	37-40								Please see attached notes for all abbreviations and acronyms		
Sample ID	TP101	TP102	TP103										
Depth	0.10	0.20	2.70										
COC No / misc													
Containers	V J T	V J T	V J T										
Sample Date	05/06/2023	05/06/2023	05/06/2023										
Sample Type	Soil	Soil	Soil										
Batch Number	1	1	1										
Date of Receipt	05/06/2023	05/06/2023	05/06/2023								LOD/LOR	Units	Method No.
Pesticides													
Organophosphorus Pesticides													
Azinphos ethyl	<10	-	-								<10	ug/kg	TM42/PM8
Azinphos methyl	<10	-	-								<10	ug/kg	TM42/PM8
Carbophenothion	<10	-	-								<10	ug/kg	TM42/PM8
Chlorfenvinphos	<10	-	-								<10	ug/kg	TM42/PM8
Chlorpyrifos	<10	-	-								<10	ug/kg	TM42/PM8
Chlorpyrifos-methyl	<10	-	-								<10	ug/kg	TM42/PM8
Diazinon	<10	-	-								<10	ug/kg	TM42/PM8
Dichlorvos	<10	-	-								<10	ug/kg	TM42/PM8
Disulfoton	<10	-	-								<10	ug/kg	TM42/PM8
Dimethoate	<10	-	-								<10	ug/kg	TM42/PM8
Ethion	<10	-	-								<10	ug/kg	TM42/PM8
Ethyl Parathion (Parathion)	<10	-	-								<10	ug/kg	TM42/PM8
Etrimphos	<10	-	-								<10	ug/kg	TM42/PM8
Fenitrothion	<10	-	-								<10	ug/kg	TM42/PM8
Fenthion	<10	-	-								<10	ug/kg	TM42/PM8
Malathion	<10	-	-								<10	ug/kg	TM42/PM8
Methyl Parathion	<10	-	-								<10	ug/kg	TM42/PM8
Mevinphos	<10	-	-								<10	ug/kg	TM42/PM8
Phosalone	<10	-	-								<10	ug/kg	TM42/PM8
Pirimiphos Methyl	<10	-	-								<10	ug/kg	TM42/PM8
Propetamphos	<10	-	-								<10	ug/kg	TM42/PM8
Triazophos	<10	-	-								<10	ug/kg	TM42/PM8
TPH CWG													
Aliphatics													
>C5-C6 (HS_1D_AL) #	<0.1	<0.1	-								<0.1	mg/kg	TM36/PM12
>C6-C8 (HS_1D_AL) #	<0.1	<0.1	-								<0.1	mg/kg	TM36/PM12
>C8-C10 (HS_1D_AL)	<0.1	<0.1	-								<0.1	mg/kg	TM36/PM12
>C10-C12 (EH_CU_1D_AL) #	<0.2	<0.2 ^{SV}	-								<0.2	mg/kg	TM5/PM8/PM16
>C12-C16 (EH_CU_1D_AL) #	<4	<4 ^{SV}	-								<4	mg/kg	TM5/PM8/PM16
>C16-C21 (EH_CU_1D_AL) #	<7	<7 ^{SV}	-								<7	mg/kg	TM5/PM8/PM16
>C21-C35 (EH_CU_1D_AL) #	<7	<7 ^{SV}	-								<7	mg/kg	TM5/PM8/PM16
>C35-C40 (EH_CU_1D_AL)	<7	<7 ^{SV}	-								<7	mg/kg	TM5/PM8/PM16
Total aliphatics C5-40 (EH+HS_CU_1D_AL)	<26	<26	-								<26	mg/kg	TM5/PM8/PM16/PM12/PM15

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane Detail
Contact: Adrian Read
EMT Job No: 23/9034

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-4	13-16	37-40								Please see attached notes for all abbreviations and acronyms		
Sample ID	TP101	TP102	TP103										
Depth	0.10	0.20	2.70										
COC No / misc													
Containers	V J T	V J T	V J T										
Sample Date	05/06/2023	05/06/2023	05/06/2023										
Sample Type	Soil	Soil	Soil										
Batch Number	1	1	1										
Date of Receipt	05/06/2023	05/06/2023	05/06/2023								LOD/LOR	Units	Method No.
TPH CWG													
Aromatics													
>C5-EC7 (HS_1D_AR) #	<0.1	<0.1	-								<0.1	mg/kg	TM36/PM12
>EC7-EC8 (HS_1D_AR) #	<0.1	<0.1	-								<0.1	mg/kg	TM36/PM12
>EC8-EC10 (HS_1D_AR) #	<0.1	<0.1	-								<0.1	mg/kg	TM36/PM12
>EC10-EC12 (EH_CU_1D_AR) #	<0.2	<0.2	-								<0.2	mg/kg	TM5/PM8/PM16
>EC12-EC16 (EH_CU_1D_AR) #	<4	<4	-								<4	mg/kg	TM5/PM8/PM16
>EC16-EC21 (EH_CU_1D_AR) #	<7	<7	-								<7	mg/kg	TM5/PM8/PM16
>EC21-EC35 (EH_CU_1D_AR) #	<7	<7	-								<7	mg/kg	TM5/PM8/PM16
>EC35-EC40 (EH_CU_1D_AR)	<7	<7	-								<7	mg/kg	TM5/PM8/PM16
Total aromatics C5-40 (EH+HS_CU_1D_AR)	<26	<26	-								<26	mg/kg	TM5/PM8/PM16/PM12/PM10
Total aliphatics and aromatics(C5-40) (EH+HS_CU_1D_Total)	<52	<52	-								<52	mg/kg	TM5/PM8/PM16/PM12/PM10
MTBE #	<5	<5	-								<5	ug/kg	TM36/PM12
Benzene #	<5	<5	-								<5	ug/kg	TM36/PM12
Toluene #	<5	<5	-								<5	ug/kg	TM36/PM12
Ethylbenzene #	<5	<5	-								<5	ug/kg	TM36/PM12
m/p-Xylene #	<5	<5	-								<5	ug/kg	TM36/PM12
o-Xylene #	<5	<5	-								<5	ug/kg	TM36/PM12
Total Phenols HPLC	<0.15	0.15	<0.15								<0.15	mg/kg	TM26/PM21B
Natural Moisture Content	16.2	6.9	18.8								<0.1	%	PM4/PM0
Hexavalent Chromium #	<0.3	<0.3	<0.3								<0.3	mg/kg	TM38/PM20
Ortho Phosphate as PO4	<0.3	-	<0.3								<0.3	mg/kg	TM38/PM20
Sulphate as SO4 (2:1 Ext) #	0.0629	0.0296	0.1313								<0.0015	g/l	TM38/PM20
Total Organic Carbon #	0.37	2.05	0.43								<0.02	%	TM21/PM24
pH #	8.00	6.71	8.56								<0.01	pH units	TM73/PM11
Asbestos Type*	NAD	NAD	-									None	Subcontracted

Client Name: Tier Environmental

Reference: TE1750

Location: Bryn Lane Detail

Contact: Adrian Read

[illegible]

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

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 23/9034

SOILS and ASH

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

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

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

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

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

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

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

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

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

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

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

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

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

WATERS

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

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

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

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

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

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

DEVIATING SAMPLES

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

SURROGATES

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

DILUTIONS

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

BLANKS

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

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

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

Measurement Uncertainty

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

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

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

HWOL ACRONYMS AND OPERATORS USED

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	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 23/9034

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes		AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details			AR	Yes
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO2 generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil, March 2012 v4.	PM24	Preparation of Soil and Marine Sediment Samples for Total Organic Carbon.	Yes		AD	Yes
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM21B	As Received samples are extracted in Methanol: Water (60:40) by reciprocal shaker.			AR	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.	Yes		AD	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes

EMT Job No: 23/9034

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AR	Yes
TM42	Modified US EPA method 8270D v5:2014. Pesticides and herbicides by GC-MS	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM50	Acid soluble sulphate (Total Sulphate) analysed by ICP-OES	PM29	A hot hydrochloric acid digest is performed on a dried and ground sample, and the resulting liquor is analysed.	Yes		AD	Yes
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes		AR	No
Subcontracted	See attached subcontractor report for accreditation status and provider.					AR	

Tier Environmental
Suite 414, Chadwick House
Warrington Rd
Birchwood
Warrington
United Kingdom
WA3 6AE



4225



Attention : Adrian Read

Date : 22nd June, 2023

Your reference : TE1750

Our reference : Test Report 23/9034 Batch 2

Location : Bryn Lane Detail

Date samples received : 8th June, 2023

Status : Final Report

Issue : 1

Fifty one samples were received for analysis on 8th June, 2023 of which nineteen were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:



Bruce Leslie
Project Manager

Please include all sections of this report if it is reproduced

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane Detail
Contact: Adrian Read
EMT Job No: 23/9034

Solids: V=60g VOC jar. J=250g glass jar. T=plastic tub

Please see attached notes for all abbreviations and acronyms

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane Detail
Contact: Adrian Read
EMT Job No: 23/9034

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	41-44	57-60	69-72	85-88	97-100	101-103	104-107	116-119	120-123	132-135	Please see attached notes for all abbreviations and acronyms		
Sample ID	TP104	TP105	TP106	TP107	TP108	TP108	TP109	TP110	TP110	TP111			
Depth	0.10	0.30	0.15	0.10	0.30	1.20	0.15	0.15	0.50	0.10			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J	V J T	V J T	V J T	V J T			
Sample Date	06/06/2023	06/06/2023	06/06/2023	06/06/2023	06/06/2023	06/06/2023	07/06/2023	08/06/2023	08/06/2023	08/06/2023			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	2	2	2	2	2	2	2	2	2	2			
Date of Receipt	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	LOD/LOR	Units	Method No.
Pesticides													
Organophosphorus Pesticides													
Azinphos ethyl	<10	<10	-	<10	<10	-	-	-	<10	-	<10	ug/kg	TM42/PM8
Azinphos methyl	<10	<10	-	<10	<10	-	-	-	<10	-	<10	ug/kg	TM42/PM8
Carbophenothion	<10	<10	-	<10	<10	-	-	-	<10	-	<10	ug/kg	TM42/PM8
Chlorfenvinphos	<10	<10	-	<10	<10	-	-	-	<10	-	<10	ug/kg	TM42/PM8
Chlorpyrifos	<10	<10	-	<10	<10	-	-	-	<10	-	<10	ug/kg	TM42/PM8
Chlorpyrifos-methyl	<10	<10	-	<10	<10	-	-	-	<10	-	<10	ug/kg	TM42/PM8
Diazinon	<10	<10	-	<10	<10	-	-	-	<10	-	<10	ug/kg	TM42/PM8
Dichlorvos	<10	<10	-	<10	<10	-	-	-	<10	-	<10	ug/kg	TM42/PM8
Disulfoton	<10	<10	-	<10	<10	-	-	-	<10	-	<10	ug/kg	TM42/PM8
Dimethoate	<10	<10	-	<10	<10	-	-	-	<10	-	<10	ug/kg	TM42/PM8
Ethion	<10	<10	-	<10	<10	-	-	-	<10	-	<10	ug/kg	TM42/PM8
Ethyl Parathion (Parathion)	<10	<10	-	<10	<10	-	-	-	<10	-	<10	ug/kg	TM42/PM8
Etrimpfos	<10	<10	-	<10	<10	-	-	-	<10	-	<10	ug/kg	TM42/PM8
Fenitrothion	<10	<10	-	<10	<10	-	-	-	<10	-	<10	ug/kg	TM42/PM8
Fenthion	<10	<10	-	<10	<10	-	-	-	<10	-	<10	ug/kg	TM42/PM8
Malathion	<10	<10	-	<10	<10	-	-	-	<10	-	<10	ug/kg	TM42/PM8
Methyl Parathion	<10	<10	-	<10	<10	-	-	-	<10	-	<10	ug/kg	TM42/PM8
Mevinphos	<10	<10	-	<10	<10	-	-	-	<10	-	<10	ug/kg	TM42/PM8
Phosalone	<10	<10	-	<10	<10	-	-	-	<10	-	<10	ug/kg	TM42/PM8
Pirimiphos Methyl	<10	<10	-	<10	<10	-	-	-	<10	-	<10	ug/kg	TM42/PM8
Propetamphos	<10	<10	-	<10	<10	-	-	-	<10	-	<10	ug/kg	TM42/PM8
Triazophos	<10	<10	-	<10	<10	-	-	-	<10	-	<10	ug/kg	TM42/PM8
TPH CWG													
Aliphatics													
>C5-C6 (HS_1D_AL) #	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C6-C8 (HS_1D_AL) #	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C8-C10 (HS_1D_AL)	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C10-C12 (EH_CU_1D_AL) #	<0.2	<0.2	11.1	<0.2	7.6	-	<0.2	-	<0.2	<0.2	<0.2	mg/kg	TM5/PM8/PM16
>C12-C16 (EH_CU_1D_AL) #	<4	<4	31	<4	18	-	<4	-	<4	<4	<4	mg/kg	TM5/PM8/PM16
>C16-C21 (EH_CU_1D_AL) #	<7	<7	69	<7	29	-	<7	-	<7	<7	<7	mg/kg	TM5/PM8/PM16
>C21-C35 (EH_CU_1D_AL) #	<7	<7	154	<7	110	-	<7	-	<7	<7	<7	mg/kg	TM5/PM8/PM16
>C35-C40 (EH_CU_1D_AL)	<7	<7	12	<7	<7	-	<7	-	<7	<7	<7	mg/kg	TM5/PM8/PM16
Total aliphatics C5-40 (EH+HS_CU_1D_AL)	<26	<26	277	<26	165	-	<26	-	<26	<26	<26	mg/kg	TM5/PM8/PM16/PM12/PM15

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane Detail
Contact: Adrian Read
EMT Job No: 23/9034

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	41-44	57-60	69-72	85-88	97-100	101-103	104-107	116-119	120-123	132-135	Please see attached notes for all abbreviations and acronyms		
Sample ID	TP104	TP105	TP106	TP107	TP108	TP108	TP109	TP110	TP110	TP111			
Depth	0.10	0.30	0.15	0.10	0.30	1.20	0.15	0.15	0.50	0.10			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J	V J T	V J T	V J T	V J T			
Sample Date	06/06/2023	06/06/2023	06/06/2023	06/06/2023	06/06/2023	06/06/2023	07/06/2023	08/06/2023	08/06/2023	08/06/2023			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	2	2	2	2	2	2	2	2	2	2			
Date of Receipt	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	LOD/LOR	Units	Method No.
TPH CWG													
Aromatics													
>C5-EC7 (HS_1D_AR) #	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC7-EC8 (HS_1D_AR) #	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC8-EC10 (HS_1D_AR) #	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC10-EC12 (EH_CU_1D_AR) #	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	-	<0.2	<0.2	<0.2	mg/kg	TM5/PM8/PM16
>EC12-EC16 (EH_CU_1D_AR) #	<4	<4	<4	<4	<4	-	<4	-	<4	<4	<4	mg/kg	TM5/PM8/PM16
>EC16-EC21 (EH_CU_1D_AR) #	<7	<7	<7	<7	<7	-	<7	-	<7	<7	<7	mg/kg	TM5/PM8/PM16
>EC21-EC35 (EH_CU_1D_AR) #	<7	<7	21	71	69	-	<7	-	<7	<7	<7	mg/kg	TM5/PM8/PM16
>EC35-EC40 (EH_CU_1D_AR)	<7	<7	<7	<7	8	-	<7	-	<7	<7	<7	mg/kg	TM5/PM8/PM16
Total aromatics C5-40 (EH+HS_CU_1D_AR)	<26	<26	<26	71	77	-	<26	-	<26	<26	<26	mg/kg	TM5/PM8/PM16/PM12/PM10
Total aliphatics and aromatics(C5-40) (EH+HS_CU_1D_Total)	<52	<52	277	71	242	-	<52	-	<52	<52	<52	mg/kg	TM5/PM8/PM16/PM12/PM10
MTBE #	<5	<5	<5	<5	<5	-	<5	-	<5	<5	<5	ug/kg	TM36/PM12
Benzene #	<5	<5	<5	<5	<5	-	<5	-	<5	<5	<5	ug/kg	TM36/PM12
Toluene #	<5	<5	<5	<5	<5	-	<5	-	<5	<5	<5	ug/kg	TM36/PM12
Ethylbenzene #	<5	<5	<5	<5	<5	-	<5	-	<5	<5	<5	ug/kg	TM36/PM12
m/p-Xylene #	<5	<5	<5	<5	<5	-	<5	-	<5	<5	<5	ug/kg	TM36/PM12
o-Xylene #	<5	<5	<5	<5	<5	-	<5	-	<5	<5	<5	ug/kg	TM36/PM12
Total Phenols HPLC	0.18	0.15	<0.15	<0.15	<0.15	-	<0.15	-	<0.15	<0.15	<0.15	mg/kg	TM26/PM21B
Natural Moisture Content	27.0	19.1	18.5	21.8	15.3	-	12.2	-	15.1	11.8	<0.1	%	PM4/PM0
Hexavalent Chromium #	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	-	<0.3	<0.3	<0.3	mg/kg	TM38/PM20
Ortho Phosphate as PO4	-	0.8	-	<0.3	-	<0.3	-	-	<0.3	-	<0.3	mg/kg	TM38/PM20
Sulphate as SO4 (2:1 Ext) #	0.0184	0.0228	0.0153	0.0156	0.0347	-	0.0031	-	0.3598	0.0021	<0.0015	g/l	TM38/PM20
Total Organic Carbon #	2.12	3.13	3.17	2.76	2.38	-	2.27	-	0.26	2.06	<0.02	%	TM21/PM24
pH #	6.86	6.67	6.55	6.71	7.56	-	7.38	-	8.39	6.82	<0.01	pH units	TM73/PM11
Asbestos Type*	NAD	NAD	NAD	NAD	NAD	-	NAD	NAD	-	NAD		None	Subcontracted

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane Detail
Contact: Adrian Read
EMT Job No: 23/9034

Solids: V=60g VOC jar. J=250g glass jar. T=plastic tub

Please see attached notes for all abbreviations and acronyms

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane Detail
Contact: Adrian Read
EMT Job No: 23/9034

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	144-147	168-171	172-175	191-194	203-206	207-209	210-213	222-225	226-229		Please see attached notes for all abbreviations and acronyms		
Sample ID	TP112	TP114	TP114	TP116	TP116	TP117	TP117	TP118	TP118				
Depth	0.20	0.05	0.50	0.10	2.70	0.20	0.40	1.00	1.70				
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	J T	V J T	V J T	V J T				
Sample Date	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023				
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil				
Batch Number	2	2	2	2	2	2	2	2	2				
Date of Receipt	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023		LOD/LOR	Units	Method No.
Pesticides													
Organophosphorus Pesticides													
Azinphos ethyl	<10	<10	-	<10	-	-	<10	<10	-		<10	ug/kg	TM42/PM8
Azinphos methyl	<10	<10	-	<10	-	-	<10	<10	-		<10	ug/kg	TM42/PM8
Carbophenothion	<10	<10	-	<10	-	-	<10	<10	-		<10	ug/kg	TM42/PM8
Chlorfenvinphos	<10	<10	-	<10	-	-	<10	<10	-		<10	ug/kg	TM42/PM8
Chlorpyrifos	<10	<10	-	<10	-	-	<10	<10	-		<10	ug/kg	TM42/PM8
Chlorpyrifos-methyl	<10	<10	-	<10	-	-	<10	<10	-		<10	ug/kg	TM42/PM8
Diazinon	<10	<10	-	<10	-	-	<10	<10	-		<10	ug/kg	TM42/PM8
Dichlorvos	<10	<10	-	<10	-	-	<10	<10	-		<10	ug/kg	TM42/PM8
Disulfoton	<10	<10	-	<10	-	-	<10	<10	-		<10	ug/kg	TM42/PM8
Dimethoate	<10	<10	-	<10	-	-	<10	<10	-		<10	ug/kg	TM42/PM8
Ethion	<10	<10	-	<10	-	-	<10	<10	-		<10	ug/kg	TM42/PM8
Ethyl Parathion (Parathion)	<10	<10	-	<10	-	-	<10	<10	-		<10	ug/kg	TM42/PM8
Etrimphos	<10	<10	-	<10	-	-	<10	<10	-		<10	ug/kg	TM42/PM8
Fenitrothion	<10	<10	-	<10	-	-	<10	<10	-		<10	ug/kg	TM42/PM8
Fenthion	<10	<10	-	<10	-	-	<10	<10	-		<10	ug/kg	TM42/PM8
Malathion	<10	<10	-	<10	-	-	<10	<10	-		<10	ug/kg	TM42/PM8
Methyl Parathion	<10	<10	-	<10	-	-	<10	<10	-		<10	ug/kg	TM42/PM8
Mevinphos	<10	<10	-	<10	-	-	<10	<10	-		<10	ug/kg	TM42/PM8
Phosalone	<10	<10	-	<10	-	-	<10	<10	-		<10	ug/kg	TM42/PM8
Pirimiphos Methyl	<10	<10	-	<10	-	-	<10	<10	-		<10	ug/kg	TM42/PM8
Propetamphos	<10	<10	-	<10	-	-	<10	<10	-		<10	ug/kg	TM42/PM8
Triazophos	<10	<10	-	<10	-	-	<10	<10	-		<10	ug/kg	TM42/PM8
TPH CWG													
Aliphatics													
>C5-C6 (HS_1D_AL) #	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1 ^{SV}		<0.1	mg/kg	TM36/PM12
>C6-C8 (HS_1D_AL) #	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1 ^{SV}		<0.1	mg/kg	TM36/PM12
>C8-C10 (HS_1D_AL)	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1 ^{SV}		<0.1	mg/kg	TM36/PM12
>C10-C12 (EH_CU_1D_AL) #	<0.2	<0.2	-	<0.2	-	<0.2	<0.2	<0.2	<0.2		<0.2	mg/kg	TM5/PM8/PM16
>C12-C16 (EH_CU_1D_AL) #	<4	<4	-	<4	-	<4	<4	<4	<4		<4	mg/kg	TM5/PM8/PM16
>C16-C21 (EH_CU_1D_AL) #	27	<7	-	<7	-	14	<7	50	<7		<7	mg/kg	TM5/PM8/PM16
>C21-C35 (EH_CU_1D_AL) #	181	<7	-	<7	-	50	113	118	166		<7	mg/kg	TM5/PM8/PM16
>C35-C40 (EH_CU_1D_AL)	15	<7	-	<7	-	<7	<7	<7	<7		<7	mg/kg	TM5/PM8/PM16
Total aliphatics C5-40 (EH+HS_CU_1D_AL)	223	<26	-	<26	-	64	113	168	166		<26	mg/kg	TM5/PM8/PM16/PM12/PM15

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane Detail
Contact: Adrian Read
EMT Job No: 23/9034

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	144-147	168-171	172-175	191-194	203-206	207-209	210-213	222-225	226-229		Please see attached notes for all abbreviations and acronyms		
Sample ID	TP112	TP114	TP114	TP116	TP116	TP117	TP117	TP118	TP118				
Depth	0.20	0.05	0.50	0.10	2.70	0.20	0.40	1.00	1.70				
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	J T	V J T	V J T	V J T				
Sample Date	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023				
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil				
Batch Number	2	2	2	2	2	2	2	2	2				
Date of Receipt	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023	08/06/2023		LOD/LOR	Units	Method No.
TPH CWG													
Aromatics													
>C5-EC7 (HS_1D_AR) #	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1 ^{SV}		<0.1	mg/kg	TM36/PM12
>EC7-EC8 (HS_1D_AR) #	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1 ^{SV}		<0.1	mg/kg	TM36/PM12
>EC8-EC10 (HS_1D_AR) #	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1 ^{SV}		<0.1	mg/kg	TM36/PM12
>EC10-EC12 (EH_CU_1D_AR) #	<0.2	<0.2	-	<0.2	-	<0.2	<0.2	<0.2	<0.2		<0.2	mg/kg	TM5/PM8/PM16
>EC12-EC16 (EH_CU_1D_AR) #	<4	<4	-	<4	-	<4	<4	<4	<4		<4	mg/kg	TM5/PM8/PM16
>EC16-EC21 (EH_CU_1D_AR) #	<7	<7	-	<7	-	53	<7	<7	<7		<7	mg/kg	TM5/PM8/PM16
>EC21-EC35 (EH_CU_1D_AR) #	44	<7	-	139	-	241	361	255	402		<7	mg/kg	TM5/PM8/PM16
>EC35-EC40 (EH_CU_1D_AR)	10	<7	-	<7	-	34	17	25	21		<7	mg/kg	TM5/PM8/PM16
Total aromatics C5-40 (EH+HS_CU_1D_AR)	54	<26	-	139	-	328	378	280	423		<26	mg/kg	TM5/PM8/PM16
Total aliphatics and aromatics(C5-40) (EH+HS_CU_1D_Total)	277	<52	-	139	-	392	491	448	589		<52	mg/kg	TM5/PM8/PM16
MTBE #	<5	<5	-	<5	-	<5	-	<5	<5 ^{SV}		<5	ug/kg	TM36/PM12
Benzene #	<5	<5	-	<5	-	<5	-	<5	<5 ^{SV}		<5	ug/kg	TM36/PM12
Toluene #	<5	<5	-	<5	-	<5	-	<5	<5 ^{SV}		<5	ug/kg	TM36/PM12
Ethylbenzene #	<5	<5	-	<5	-	<5	-	<5	<5 ^{SV}		<5	ug/kg	TM36/PM12
m/p-Xylene #	<5	<5	-	<5	-	<5	-	<5	<5 ^{SV}		<5	ug/kg	TM36/PM12
o-Xylene #	<5	<5	-	<5	-	<5	-	<5	<5 ^{SV}		<5	ug/kg	TM36/PM12
Total Phenols HPLC	<0.15	<0.15	-	0.21	-	<0.15	<0.15	-	<0.15		<0.15	mg/kg	TM26/PM21B
Natural Moisture Content	12.7	15.4	-	58.1	-	9.7	109.6	150.0	159.3		<0.1	%	PM4/PM0
Hexavalent Chromium #	<0.3	<0.3	-	NDP	-	<0.3	<0.3	-	<0.3		<0.3	mg/kg	TM38/PM20
Ortho Phosphate as PO4	0.5	-	<0.3	-	<0.3	-	<0.3	<0.3	-		<0.3	mg/kg	TM38/PM20
Sulphate as SO4 (2:1 Ext) #	<0.0015	0.0233	-	0.0356	-	0.0290	0.3705	-	0.6053		<0.0015	g/l	TM38/PM20
Total Organic Carbon #	2.32	1.91	-	5.13	-	1.44	10.42	-	12.15		<0.02	%	TM21/PM24
pH #	6.86	6.55	-	5.96	-	8.08	6.34	-	7.19		<0.01	pH units	TM73/PM11
Asbestos Type*	NAD	NAD	-	NAD	-	NAD	NAD	NAD	NAD		None	Subcontracted	

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane Detail
Contact: Adrian Read
EMT Job No: 23/9034

SVOC Report : Solid

EMT Sample No.	210-213	226-229									Please see attached notes for all abbreviations and acronyms		
Sample ID	TP117	TP118											
Depth	0.40	1.70											
COC No / misc													
Containers	V J T	V J T											
Sample Date	08/06/2023	08/06/2023											
Sample Type	Soil	Soil											
Batch Number	2	2											
Date of Receipt	08/06/2023	08/06/2023									LOD/LOR	Units	Method No.
SVOC MS													
Phenols													
2-Chlorophenol #	<10	<10									<10	ug/kg	TM16/PM8
2-Methylphenol	<10	<10									<10	ug/kg	TM16/PM8
2-Nitrophenol	<10	<10									<10	ug/kg	TM16/PM8
2,4-Dichlorophenol #	<10	<10									<10	ug/kg	TM16/PM8
2,4-Dimethylphenol	<10	<10									<10	ug/kg	TM16/PM8
2,4,5-Trichlorophenol	<10	<10									<10	ug/kg	TM16/PM8
2,4,6-Trichlorophenol	<10	<10									<10	ug/kg	TM16/PM8
4-Chloro-3-methylphenol	<10	<10									<10	ug/kg	TM16/PM8
4-Methylphenol	<10	<10									<10	ug/kg	TM16/PM8
4-Nitrophenol	<10	<10									<10	ug/kg	TM16/PM8
Pentachlorophenol	<10	<10									<10	ug/kg	TM16/PM8
Phenol #	<10	<10									<10	ug/kg	TM16/PM8
PAHs													
2-Chloronaphthalene #	<10	<10									<10	ug/kg	TM16/PM8
2-Methylnaphthalene #	<10	<10									<10	ug/kg	TM16/PM8
Phthalates													
Bis(2-ethylhexyl) phthalate	<100	<100									<100	ug/kg	TM16/PM8
Butylbenzyl phthalate	<100	<100									<100	ug/kg	TM16/PM8
Di-n-butyl phthalate	<100	<100									<100	ug/kg	TM16/PM8
Di-n-Octyl phthalate	<100	<100									<100	ug/kg	TM16/PM8
Diethyl phthalate	<100	<100									<100	ug/kg	TM16/PM8
Dimethyl phthalate #	<100	<100									<100	ug/kg	TM16/PM8
Other SVOCs													
1,2-Dichlorobenzene	<10	<10									<10	ug/kg	TM16/PM8
1,2,4-Trichlorobenzene #	<10	<10									<10	ug/kg	TM16/PM8
1,3-Dichlorobenzene	<10	<10									<10	ug/kg	TM16/PM8
1,4-Dichlorobenzene	<10	<10									<10	ug/kg	TM16/PM8
2-Nitroaniline	<10	<10									<10	ug/kg	TM16/PM8
2,4-Dinitrotoluene	<10	<10									<10	ug/kg	TM16/PM8
2,6-Dinitrotoluene	<10	<10									<10	ug/kg	TM16/PM8
3-Nitroaniline	<10	<10									<10	ug/kg	TM16/PM8
4-Bromophenylphenylether #	<10	<10									<10	ug/kg	TM16/PM8
4-Chloroaniline	<10	<10									<10	ug/kg	TM16/PM8
4-Chlorophenylphenylether	<10	<10									<10	ug/kg	TM16/PM8
4-Nitroaniline	<10	<10									<10	ug/kg	TM16/PM8
Azobenzene	<10	<10									<10	ug/kg	TM16/PM8
Bis(2-chloroethoxy)methane	<10	<10									<10	ug/kg	TM16/PM8
Bis(2-chloroethyl)ether	<10	<10									<10	ug/kg	TM16/PM8
Carbazole	<10	<10									<10	ug/kg	TM16/PM8
Dibenzofuran #	<10	<10									<10	ug/kg	TM16/PM8
Hexachlorobenzene	<10	<10									<10	ug/kg	TM16/PM8
Hexachlorobutadiene #	<10	<10									<10	ug/kg	TM16/PM8
Hexachlorocyclopentadiene	<10	<10									<10	ug/kg	TM16/PM8
Hexachloroethane	<10	<10									<10	ug/kg	TM16/PM8
Isophorone #	<10	<10									<10	ug/kg	TM16/PM8
N-nitrosodi-n-propylamine #	<10	<10									<10	ug/kg	TM16/PM8
Nitrobenzene #	<10	<10									<10	ug/kg	TM16/PM8
Surrogate Recovery 2-Fluorobiphenyl	81	109									<0	%	TM16/PM8
Surrogate Recovery p-Terphenyl-d14	109	116									<0	%	TM16/PM8

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane Detail
Contact: Adrian Read
EMT Job No: 23/9034

VOC Report : Solid

EMT Sample No.	210-213	226-229										
Sample ID	TP117	TP118										
Depth	0.40	1.70										
COC No / misc												
Containers	V J T	V J T										
Sample Date	08/06/2023	08/06/2023										
Sample Type	Soil	Soil										
Batch Number	2	2										
Date of Receipt	08/06/2023	08/06/2023										
	LOD/LOR	Units	Method No.									
VOC MS												
Dichlorodifluoromethane	<2	<2								<2	ug/kg	TM15/PM10
Methyl Tertiary Butyl Ether #	<2	<2								<2	ug/kg	TM15/PM10
Chloromethane #	17	13								<3	ug/kg	TM15/PM10
Vinyl Chloride	<2	<2								<2	ug/kg	TM15_A/PM10
Bromomethane	<1	<1								<1	ug/kg	TM15/PM10
Chloroethane #	<2	<2								<2	ug/kg	TM15/PM10
Trichlorofluoromethane #	<2	<2								<2	ug/kg	TM15/PM10
1,1-Dichloroethene (1,1 DCE) #	<6	<6								<6	ug/kg	TM15/PM10
Dichloromethane (DCM) #	<7	<7								<7	ug/kg	TM15/PM10
trans-1-2-Dichloroethene #	<3	<3								<3	ug/kg	TM15/PM10
1,1-Dichloroethane #	<3	<3								<3	ug/kg	TM15/PM10
cis-1-2-Dichloroethene #	<3	<3								<3	ug/kg	TM15/PM10
2,2-Dichloropropane	<4	<4								<4	ug/kg	TM15/PM10
Bromochloromethane #	<3	<3								<3	ug/kg	TM15/PM10
Chloroform #	<3	<3								<3	ug/kg	TM15/PM10
1,1,1-Trichloroethane #	<3	<3								<3	ug/kg	TM15/PM10
1,1-Dichloropropene #	<3	<3								<3	ug/kg	TM15/PM10
Carbon tetrachloride #	<4	<4								<4	ug/kg	TM15/PM10
1,2-Dichloroethane #	<4	<4								<4	ug/kg	TM15/PM10
Benzene #	<3	<3								<3	ug/kg	TM15/PM10
Trichloroethene (TCE) #	<3	<3								<3	ug/kg	TM15/PM10
1,2-Dichloropropane #	<6	<6								<6	ug/kg	TM15/PM10
Dibromomethane #	<3	<3								<3	ug/kg	TM15/PM10
Bromodichloromethane #	<3	<3								<3	ug/kg	TM15/PM10
cis-1-3-Dichloropropene	<4	<4								<4	ug/kg	TM15/PM10
Toluene #	<3	10								<3	ug/kg	TM15/PM10
trans-1-3-Dichloropropene	<3	<3								<3	ug/kg	TM15/PM10
1,1,2-Trichloroethane #	<3	<3								<3	ug/kg	TM15/PM10
Tetrachloroethene (PCE) #	<3	<3								<3	ug/kg	TM15/PM10
1,3-Dichloropropane #	<3	<3								<3	ug/kg	TM15/PM10
Dibromochloromethane #	<3	<3								<3	ug/kg	TM15/PM10
1,2-Dibromoethane #	<3	<3								<3	ug/kg	TM15/PM10
Chlorobenzene #	<3	<3								<3	ug/kg	TM15/PM10
1,1,1,2-Tetrachloroethane #	<3	<3								<3	ug/kg	TM15/PM10
Ethylbenzene #	<3	<3								<3	ug/kg	TM15/PM10
m/p-Xylene #	<5	<5								<5	ug/kg	TM15/PM10
o-Xylene #	<3	<3								<3	ug/kg	TM15/PM10
Styrene	<3	<3								<3	ug/kg	TM15_A/PM10
Bromoform	<3	<3								<3	ug/kg	TM15/PM10
Isopropylbenzene #	<3	<3								<3	ug/kg	TM15/PM10
1,1,2,2-Tetrachloroethane #	<3	<3								<3	ug/kg	TM15/PM10
Bromobenzene	<2	<2								<2	ug/kg	TM15/PM10
1,2,3-Trichloropropane #	<4	<4								<4	ug/kg	TM15/PM10
Propylbenzene #	<4	<4								<4	ug/kg	TM15/PM10
2-Chlorotoluene	<3	<3								<3	ug/kg	TM15/PM10
1,3,5-Trimethylbenzene #	<3	<3								<3	ug/kg	TM15/PM10
4-Chlorotoluene	<3	<3								<3	ug/kg	TM15/PM10
tert-Butylbenzene #	<5	<5								<5	ug/kg	TM15/PM10
1,2,4-Trimethylbenzene #	<6	<6								<6	ug/kg	TM15/PM10
sec-Butylbenzene #	<4	<4								<4	ug/kg	TM15/PM10
4-Isopropyltoluene	<4	<4								<4	ug/kg	TM15/PM10
1,3-Dichlorobenzene #	<4	<4								<4	ug/kg	TM15/PM10
1,4-Dichlorobenzene #	<4	<4								<4	ug/kg	TM15/PM10
n-Butylbenzene	<4	<4								<4	ug/kg	TM15/PM10
1,2-Dichlorobenzene #	<4	<4								<4	ug/kg	TM15/PM10
1,2-Dibromo-3-chloropropane	<4	<4								<4	ug/kg	TM15/PM10
1,2,4-Trichlorobenzene	<7	<7								<7	ug/kg	TM15/PM10
Hexachlorobutadiene	<4	<4								<4	ug/kg	TM15/PM10
Naphthalene	<27	<27								<27	ug/kg	TM15/PM10
1,2,3-Trichlorobenzene	<7	<7								<7	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	72	84								<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	66	77								<0	%	TM15/PM10

Please see attached notes for all abbreviations and acronyms

Matrix : Solid

[illegible]

Client Name: Tier Environmental

Reference: TE1750

Location: Bryn Lane Detail

Contact: Adrian Read

[illegible]

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

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 23/9034

SOILS and ASH

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

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

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

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

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

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

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

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

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

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

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

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

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

WATERS

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

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

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

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

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

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

DEVIATING SAMPLES

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

SURROGATES

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

DILUTIONS

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

BLANKS

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

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

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

Measurement Uncertainty

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

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

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

HWOL ACRONYMS AND OPERATORS USED

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	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 23/9034

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes		AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details			AR	Yes
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes

EMT Job No: 23/9034

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO ₂ generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil, March 2012 v4.	PM24	Preparation of Soil and Marine Sediment Samples for Total Organic Carbon.	Yes		AD	Yes
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM21B	As Received samples are extracted in Methanol: Water (60:40) by reciprocal shaker.			AR	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.	Yes		AD	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH ₄ ⁺ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH ₄ ⁺ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH ₄ ⁺ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AR	Yes
TM42	Modified US EPA method 8270D v5:2014. Pesticides and herbicides by GC-MS	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM50	Acid soluble sulphate (Total Sulphate) analysed by ICP-OES	PM29	A hot hydrochloric acid digest is performed on a dried and ground sample, and the resulting liquor is analysed.	Yes		AD	Yes

EMT Job No: 23/9034

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes		AR	No
Subcontracted	See attached subcontractor report for accreditation status and provider.					AR	
TM15_A	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds, Vinyl Chloride & Styrene by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes

Tier Environmental
Suite 414, Chadwick House
Warrington Rd
Birchwood
Warrington
United Kingdom
WA3 6AE



4225



Attention : Adrian Read

Date : 20th June, 2023

Your reference : TE1750

Our reference : Test Report 23/9034 Batch 3

Location : Detailed Planning, Bryn Lane

Date samples received : 9th June, 2023

Status : Final Report

Issue : 1

Four samples were received for analysis on 9th June, 2023 of which three were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:



Phil Sommerton BSc

Senior Project Manager

Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1750
Location: Detailed Planning, Bryn Lane
Contact: Adrian Read
EMT Job No: 23/9034

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	236-239	244-247	248-251										
Sample ID	TP120	TP121	TP121										
Depth	0.30	0.40	1.00										
COC No / misc													
Containers	V J T	V J T	V J T										
Sample Date	09/06/2023	09/06/2023	09/06/2023										
Sample Type	Soil	Soil	Soil										
Batch Number	3	3	3										
Date of Receipt	09/06/2023	09/06/2023	09/06/2023										
											LOD/LOR	Units	Method No.
Arsenic #	10.8	-	11.4								<0.5	mg/kg	TM30/PM15
Cadmium #	<0.1	-	<0.1								<0.1	mg/kg	TM30/PM15
Chromium #	48.9	-	49.2								<0.5	mg/kg	TM30/PM15
Copper #	20	-	25								<1	mg/kg	TM30/PM15
Lead #	49	-	14								<5	mg/kg	TM30/PM15
Mercury #	0.1	-	<0.1								<0.1	mg/kg	TM30/PM15
Nickel #	31.2	-	44.4								<0.7	mg/kg	TM30/PM15
Selenium #	2	-	<1								<1	mg/kg	TM30/PM15
Total Sulphate as SO4 #	535	-	798								<50	mg/kg	TM50/PM29
Zinc #	98	-	76								<5	mg/kg	TM30/PM15
PAH MS													
Naphthalene #	<0.04	-	<0.04								<0.04	mg/kg	TM4/PM8
Acenaphthylene	<0.03	-	<0.03								<0.03	mg/kg	TM4/PM8
Acenaphthene #	<0.05	-	<0.05								<0.05	mg/kg	TM4/PM8
Fluorene #	<0.04	-	<0.04								<0.04	mg/kg	TM4/PM8
Phenanthrene #	<0.03	-	<0.03								<0.03	mg/kg	TM4/PM8
Anthracene #	<0.04	-	<0.04								<0.04	mg/kg	TM4/PM8
Fluoranthene #	<0.03	-	<0.03								<0.03	mg/kg	TM4/PM8
Pyrene #	<0.03	-	<0.03								<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	<0.06	-	<0.06								<0.06	mg/kg	TM4/PM8
Chrysene #	<0.02	-	<0.02								<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene #	<0.07	-	<0.07								<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	<0.04	-	<0.04								<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #	<0.04	-	<0.04								<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	<0.04	-	<0.04								<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	<0.04	-	<0.04								<0.04	mg/kg	TM4/PM8
PAH 16 Total	<0.6	-	<0.6								<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	<0.05	-	<0.05								<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	<0.02	-	<0.02								<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	81	-	87								<0	%	TM4/PM8

Please see attached notes for all abbreviations and acronyms

Element Materials Technology

Client Name: Tier Environmental
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EMT Job No: 23/9034

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Sample ID	TP120	TP121	TP121										
Depth	0.30	0.40	1.00										
COC No / misc													
Containers	V J T	V J T	V J T										
Sample Date	09/06/2023	09/06/2023	09/06/2023										
Sample Type	Soil	Soil	Soil										
Batch Number	3	3	3										
Date of Receipt	09/06/2023	09/06/2023	09/06/2023								LOD/LOR	Units	Method No.
Pesticides													
Organophosphorus Pesticides													
Azinphos ethyl	-	<10	-								<10	ug/kg	TM42/PM8
Azinphos methyl	-	<10	-								<10	ug/kg	TM42/PM8
Carbophenothion	-	<10	-								<10	ug/kg	TM42/PM8
Chlorfenvinphos	-	<10	-								<10	ug/kg	TM42/PM8
Chlorpyrifos	-	<10	-								<10	ug/kg	TM42/PM8
Chlorpyrifos-methyl	-	<10	-								<10	ug/kg	TM42/PM8
Diazinon	-	<10	-								<10	ug/kg	TM42/PM8
Dichlorvos	-	<10	-								<10	ug/kg	TM42/PM8
Disulfoton	-	<10	-								<10	ug/kg	TM42/PM8
Dimethoate	-	<10	-								<10	ug/kg	TM42/PM8
Ethion	-	<10	-								<10	ug/kg	TM42/PM8
Ethyl Parathion (Parathion)	-	<10	-								<10	ug/kg	TM42/PM8
Etrimphos	-	<10	-								<10	ug/kg	TM42/PM8
Fenitrothion	-	<10	-								<10	ug/kg	TM42/PM8
Fenthion	-	<10	-								<10	ug/kg	TM42/PM8
Malathion	-	<10	-								<10	ug/kg	TM42/PM8
Methyl Parathion	-	<10	-								<10	ug/kg	TM42/PM8
Mevinphos	-	<10	-								<10	ug/kg	TM42/PM8
Phosalone	-	<10	-								<10	ug/kg	TM42/PM8
Pirimiphos Methyl	-	<10	-								<10	ug/kg	TM42/PM8
Propetamphos	-	<10	-								<10	ug/kg	TM42/PM8
Triazophos	-	<10	-								<10	ug/kg	TM42/PM8
TPH CWG													
Aliphatics													
>C5-C6 (HS_1D_AL) #	<0.1	-	-								<0.1	mg/kg	TM36/PM12
>C6-C8 (HS_1D_AL) #	<0.1	-	-								<0.1	mg/kg	TM36/PM12
>C8-C10 (HS_1D_AL)	<0.1	-	-								<0.1	mg/kg	TM36/PM12
>C10-C12 (EH_CU_1D_AL) #	<0.2	-	-								<0.2	mg/kg	TM5/PM8/PM16
>C12-C16 (EH_CU_1D_AL) #	<4	-	-								<4	mg/kg	TM5/PM8/PM16
>C16-C21 (EH_CU_1D_AL) #	<7	-	-								<7	mg/kg	TM5/PM8/PM16
>C21-C35 (EH_CU_1D_AL) #	31	-	-								<7	mg/kg	TM5/PM8/PM16
>C35-C40 (EH_CU_1D_AL)	<7	-	-								<7	mg/kg	TM5/PM8/PM16
Total aliphatics C5-40 (EH+HS_CU_1D_AL)	31	-	-								<26	mg/kg	TM5/PM8/PM8/PM12/PM16

Element Materials Technology

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EMT Job No: 23/9034

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COC No / misc													
Containers	V J T	V J T	V J T										
Sample Date	09/06/2023	09/06/2023	09/06/2023										
Sample Type	Soil	Soil	Soil										
Batch Number	3	3	3										
Date of Receipt	09/06/2023	09/06/2023	09/06/2023										
TPH CWG													
Aromatics													
>C5-EC7 (HS_1D_AR) #	<0.1	-	-								<0.1	mg/kg	TM36/PM12
>EC7-EC8 (HS_1D_AR) #	<0.1	-	-								<0.1	mg/kg	TM36/PM12
>EC8-EC10 (HS_1D_AR) #	<0.1	-	-								<0.1	mg/kg	TM36/PM12
>EC10-EC12 (EH_CU_1D_AR) #	<0.2	-	-								<0.2	mg/kg	TM5/PM8/PM16
>EC12-EC16 (EH_CU_1D_AR) #	<4	-	-								<4	mg/kg	TM5/PM8/PM16
>EC16-EC21 (EH_CU_1D_AR) #	<7	-	-								<7	mg/kg	TM5/PM8/PM16
>EC21-EC35 (EH_CU_1D_AR) #	<7	-	-								<7	mg/kg	TM5/PM8/PM16
>EC35-EC40 (EH_CU_1D_AR)	<7	-	-								<7	mg/kg	TM5/PM8/PM16
Total aromatics C5-40 (EH+HS_CU_1D_AR)	<26	-	-								<26	mg/kg	TM5/TM36/PM8/PM12/PM16
Total aliphatics and aromatics(C5-40) (EH+HS_CU_1D_Total)	<52	-	-								<52	mg/kg	TM5/TM36/PM8/PM12/PM16
MTBE #													
	<5	-	-								<5	ug/kg	TM36/PM12
Benzene #													
	<5	-	-								<5	ug/kg	TM36/PM12
Toluene #													
	<5	-	-								<5	ug/kg	TM36/PM12
Ethylbenzene #													
	<5	-	-								<5	ug/kg	TM36/PM12
m/p-Xylene #													
	<5	-	-								<5	ug/kg	TM36/PM12
o-Xylene #													
	<5	-	-								<5	ug/kg	TM36/PM12
Total Phenols HPLC													
	<0.15	-	<0.15								<0.15	mg/kg	TM26/PM21B
Natural Moisture Content													
	13.5	13.8	13.8								<0.1	%	PM4/PM0
Hexavalent Chromium #													
	<0.3	-	<0.3								<0.3	mg/kg	TM38/PM20
Ortho Phosphate as PO4													
	-	<0.3	-								<0.3	mg/kg	TM38/PM20
Sulphate as SO4 (2:1 Ext) #													
	0.0122	-	0.2802								<0.0015	g/l	TM38/PM20
Total Organic Carbon #													
	1.96	-	0.28								<0.02	%	TM21/PM24
pH #													
	8.02	-	8.54								<0.01	pH units	TM73/PM11
Asbestos Type*													
	NAD	-	-									None	Subcontracted

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[illegible]

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

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 23/9034

SOILS and ASH

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

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

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

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

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

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

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

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

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

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

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

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

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

WATERS

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

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

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

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

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

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

DEVIATING SAMPLES

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

SURROGATES

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

DILUTIONS

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

BLANKS

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

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

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

Measurement Uncertainty

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

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

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

HWOL ACRONYMS AND OPERATORS USED

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	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 23/9034

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes		AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details			AR	Yes
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO2 generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil, March 2012 v4.	PM24	Preparation of Soil and Marine Sediment Samples for Total Organic Carbon.	Yes		AD	Yes
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM21B	As Received samples are extracted in Methanol: Water (60:40) by reciprocal shaker.			AR	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.	Yes		AD	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes

EMT Job No: 23/9034

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AR	Yes
TM42	Modified US EPA method 8270D v5:2014. Pesticides and herbicides by GC-MS	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM50	Acid soluble sulphate (Total Sulphate) analysed by ICP-OES	PM29	A hot hydrochloric acid digest is performed on a dried and ground sample, and the resulting liquor is analysed.	Yes		AD	Yes
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes		AR	No
Subcontracted	See attached subcontractor report for accreditation status and provider.					AR	

Tier Environmental
Suite 414, Chadwick House
Warrington Rd
Birchwood
Warrington
United Kingdom
WA3 6AE



4225



Attention : Adrian Read

Date : 3rd July, 2023

Your reference : TE1750

Our reference : Test Report 23/9034 Batch 4 Schedule A 23/9034 Batch 4 Schedule C

Location : Bryn Lane Detail

Date samples received : 19th June, 2023

Status : Final Report

Issue : 1

Eighteen samples were received for analysis on 19th June, 2023 of which seventeen were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:



Bruce Leslie
Project Manager

Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane Detail
Contact: Adrian Read
EMT Job No: 23/9034

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

[illegible]

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane Detail
Contact: Adrian Read
EMT Job No: 23/9034

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	262	263	264	266	267	268	269				Please see attached notes for all abbreviations and acronyms		
Sample ID	WS106	WS107	WS108	WS109	WS110	WS111	WS112						
Depth	2.00	4.00	5.00 SPT	2.00 SPT	2.00 SPT	2.00 SPT	3.00 SPT						
COC No / misc													
Containers	T	T	T	T	T	T	T						
Sample Date	13/06/2023	13/06/2023	15/06/2023	15/06/2023	16/06/2023	16/06/2023	16/06/2023						
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil						
Batch Number	4	4	4	4	4	4	4						
Date of Receipt	19/06/2023	19/06/2023	19/06/2023	19/06/2023	19/06/2023	19/06/2023	19/06/2023				LOD/LOR	Units	Method No.
Sulphur as S	0.04	0.04	0.03	0.02	0.07	0.04	0.05				<0.01	%	TM30/PM15
Total Sulphate as SO4 BRE	0.08	0.09	0.06	0.05	0.16	0.10	0.11				<0.01	%	TM50/PM25
Magnesium	0.0420	0.0499	0.0270	0.0229	0.1119 ^{AA}	0.0544	0.0611				<0.0001	g/l	TM30/PM25
Natural Moisture Content	19.5	15.7	18.5	18.7	18.9	19.4	18.4				<0.1	%	PM4/PM0
Ammoniacal Nitrogen as NH4	<0.6	<0.6	<0.6	0.8	<0.6	0.8	<0.6				<0.6	mg/kg	TM38/PM25
Chloride (2:1 Ext BRE) [#]	0.019	0.029	0.024	0.010	0.037	0.022	0.022				<0.002	g/l	TM38/PM25
Nitrate as NO3 (2:1 Ext BRE)	0.0085	<0.0025	<0.0025	<0.0025	<0.0025	NDP	<0.0025				<0.0025	g/l	TM38/PM25
Sulphate as SO4 (2:1 Ext) [#]	0.2983	0.3809	0.2359	0.1462	0.6904	0.3800	0.4469				<0.0015	g/l	TM38/PM25
pH [#]	8.60	8.52	8.61	8.68	8.41	8.45	8.27				<0.01	pH units	TM73/PM1

Matrix : Solid

[illegible]

Client Name: Tier Environmental

Reference: TE1750

Location: Bryn Lane Detail

Contact: Adrian Read

[illegible]

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

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 23/9034

SOILS and ASH

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

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

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

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

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

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

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

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

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

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

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

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

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

WATERS

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

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

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

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

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

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

DEVIATING SAMPLES

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

SURROGATES

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

DILUTIONS

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

BLANKS

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

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

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

Measurement Uncertainty

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

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range
AA	x5 Dilution

HWOL ACRONYMS AND OPERATORS USED

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	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 23/9034

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.			AD	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AR	Yes
TM50	Acid soluble sulphate (Total Sulphate) analysed by ICP-OES	PM29	A hot hydrochloric acid digest is performed on a dried and ground sample, and the resulting liquor is analysed.			AD	Yes
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes		AR	No

Tier Environmental
Suite 414, Chadwick House
Warrington Rd
Birchwood
Warrington
United Kingdom
WA3 6AE



4225



Attention : Adrian Read

Date : 30th June, 2023

Your reference : TE1750

Our reference : Test Report 23/9034 Batch 5

Location : Bryn Lane Detail

Date samples received : 20th June, 2023

Status : Final Report

Issue : 1

Eight samples were received for analysis on 20th June, 2023 of which seven were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:



Bruce Leslie
Project Manager

Please include all sections of this report if it is reproduced

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane Detail
Contact: Adrian Read
EMT Job No: 23/9034

Solids: V=60g VOC jar. J=250g glass jar. T=plastic tub

Please see attached notes for all abbreviations and acronyms

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane Detail
Contact: Adrian Read
EMT Job No: 23/9034

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	270-272	273-275	276-278	279-281	282-284	288-290	291-293				Please see attached notes for all abbreviations and acronyms		
Sample ID	HDP101	HDP102	HDP103	HDP103	HDP104	HDP106	HDP107						
Depth	0.30	0.10	0.30	1.20	0.60	0.15	0.30						
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T						
Sample Date	20/06/2023	20/06/2023	20/06/2023	20/06/2023	20/06/2023	20/06/2023	20/06/2023						
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil						
Batch Number	5	5	5	5	5	5	5						
Date of Receipt	20/06/2023	20/06/2023	20/06/2023	20/06/2023	20/06/2023	20/06/2023	20/06/2023				LOD/LOR	Units	Method No.
Pesticides													
Organophosphorus Pesticides													
Azinphos ethyl	<10	-	<10	-	<10	<10	<10				<10	ug/kg	TM42/PM8
Azinphos methyl	<10	-	<10	-	<10	<10	<10				<10	ug/kg	TM42/PM8
Carbophenothion	<10	-	<10	-	<10	<10	<10				<10	ug/kg	TM42/PM8
Chlorfenvinphos	<10	-	<10	-	<10	<10	<10				<10	ug/kg	TM42/PM8
Chlorpyrifos	<10	-	<10	-	<10	<10	<10				<10	ug/kg	TM42/PM8
Chlorpyrifos-methyl	<10	-	<10	-	<10	<10	<10				<10	ug/kg	TM42/PM8
Diazinon	<10	-	<10	-	<10	<10	<10				<10	ug/kg	TM42/PM8
Dichlorvos	<10	-	<10	-	<10	<10	<10				<10	ug/kg	TM42/PM8
Disulfoton	<10	-	<10	-	<10	<10	<10				<10	ug/kg	TM42/PM8
Dimethoate	<10	-	<10	-	<10	<10	<10				<10	ug/kg	TM42/PM8
Ethion	<10	-	<10	-	<10	<10	<10				<10	ug/kg	TM42/PM8
Ethyl Parathion (Parathion)	<10	-	<10	-	<10	<10	<10				<10	ug/kg	TM42/PM8
Etrimphos	<10	-	<10	-	<10	<10	<10				<10	ug/kg	TM42/PM8
Fenitrothion	<10	-	<10	-	<10	<10	<10				<10	ug/kg	TM42/PM8
Fenthion	<10	-	<10	-	<10	<10	<10				<10	ug/kg	TM42/PM8
Malathion	<10	-	<10	-	<10	<10	<10				<10	ug/kg	TM42/PM8
Methyl Parathion	<10	-	<10	-	<10	<10	<10				<10	ug/kg	TM42/PM8
Mevinphos	<10	-	<10	-	<10	<10	<10				<10	ug/kg	TM42/PM8
Phosalone	<10	-	<10	-	<10	<10	<10				<10	ug/kg	TM42/PM8
Pirimiphos Methyl	<10	-	<10	-	<10	<10	<10				<10	ug/kg	TM42/PM8
Propetamphos	<10	-	<10	-	<10	<10	<10				<10	ug/kg	TM42/PM8
Triazophos	<10	-	<10	-	<10	<10	<10				<10	ug/kg	TM42/PM8
TPH CWG													
Aliphatics													
>C5-C6 (HS_1D_AL) #	-	<0.1	<0.1	<0.1	-	<0.1	-				<0.1	mg/kg	TM36/PM12
>C6-C8 (HS_1D_AL) #	-	<0.1	<0.1	<0.1	-	<0.1	-				<0.1	mg/kg	TM36/PM12
>C8-C10 (HS_1D_AL)	-	<0.1	<0.1	<0.1	-	<0.1	-				<0.1	mg/kg	TM36/PM12
>C10-C12 (EH_CU_1D_AL) #	-	<0.2	<0.2	<0.2	-	<0.2	-				<0.2	mg/kg	TM5/PM8/PM16
>C12-C16 (EH_CU_1D_AL) #	-	<4	<4	<4	-	<4	-				<4	mg/kg	TM5/PM8/PM16
>C16-C21 (EH_CU_1D_AL) #	-	<7	<7	<7	-	<7	-				<7	mg/kg	TM5/PM8/PM16
>C21-C35 (EH_CU_1D_AL) #	-	<7	<7	<7	-	53	-				<7	mg/kg	TM5/PM8/PM16
>C35-C40 (EH_CU_1D_AL)	-	<7	<7	<7	-	31	-				<7	mg/kg	TM5/PM8/PM16
Total aliphatics C5-40 (EH+HS_CU_1D_AL)	-	<26	<26	<26	-	84	-				<26	mg/kg	TM5/PM8/PM16/PM12/PM15

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane Detail
Contact: Adrian Read
EMT Job No: 23/9034

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	270-272	273-275	276-278	279-281	282-284	288-290	291-293				Please see attached notes for all abbreviations and acronyms		
Sample ID	HDP101	HDP102	HDP103	HDP103	HDP104	HDP106	HDP107						
Depth	0.30	0.10	0.30	1.20	0.60	0.15	0.30						
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T						
Sample Date	20/06/2023	20/06/2023	20/06/2023	20/06/2023	20/06/2023	20/06/2023	20/06/2023						
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil						
Batch Number	5	5	5	5	5	5	5						
Date of Receipt	20/06/2023	20/06/2023	20/06/2023	20/06/2023	20/06/2023	20/06/2023	20/06/2023				LOD/LOR	Units	Method No.
TPH CWG													
Aromatics													
>C5-EC7 (HS_1D_AR) #	-	<0.1	<0.1	<0.1	-	<0.1	-				<0.1	mg/kg	TM36/PM12
>EC7-EC8 (HS_1D_AR) #	-	<0.1	<0.1	<0.1	-	<0.1	-				<0.1	mg/kg	TM36/PM12
>EC8-EC10 (HS_1D_AR) #	-	<0.1	<0.1	<0.1	-	<0.1	-				<0.1	mg/kg	TM36/PM12
>EC10-EC12 (EH_CU_1D_AR) #	-	<0.2	<0.2	<0.2	-	<0.2	-				<0.2	mg/kg	TM5/PM8/PM16
>EC12-EC16 (EH_CU_1D_AR) #	-	<4	<4	<4	-	<4	-				<4	mg/kg	TM5/PM8/PM16
>EC16-EC21 (EH_CU_1D_AR) #	-	30	<7	<7	-	<7	-				<7	mg/kg	TM5/PM8/PM16
>EC21-EC35 (EH_CU_1D_AR) #	-	79	<7	82	-	<7	-				<7	mg/kg	TM5/PM8/PM16
>EC35-EC40 (EH_CU_1D_AR)	-	<7	<7	<7	-	<7	-				<7	mg/kg	TM5/PM8/PM16
Total aromatics C5-40 (EH+HS_CU_1D_AR)	-	109	<26	82	-	<26	-				<26	mg/kg	TM5/PM8/PM16/PM12/PM10
Total aliphatics and aromatics(C5-40) (EH+HS_CU_1D_Total)	-	109	<52	82	-	84	-				<52	mg/kg	TM5/PM8/PM16/PM12/PM10
MTBE #	-	<5	<5	<5	-	<5	-				<5	ug/kg	TM36/PM12
Benzene #	-	<5	<5	<5	-	<5	-				<5	ug/kg	TM36/PM12
Toluene #	-	<5	<5	<5	-	<5	-				<5	ug/kg	TM36/PM12
Ethylbenzene #	-	<5	<5	<5	-	<5	-				<5	ug/kg	TM36/PM12
m/p-Xylene #	-	<5	<5	<5	-	<5	-				<5	ug/kg	TM36/PM12
o-Xylene #	-	<5	<5	<5	-	<5	-				<5	ug/kg	TM36/PM12
Total Phenols HPLC	<0.15	<0.15	<0.15	<0.15	-	<0.15	-				<0.15	mg/kg	TM26/PM21B
Natural Moisture Content	5.4	19.3	21.8	85.6	16.4	22.2	18.4				<0.1	%	PM4/PM0
Hexavalent Chromium #	<0.3	<0.3	<0.3	<0.3	-	<0.3	-				<0.3	mg/kg	TM38/PM20
Ortho Phosphate as PO4	0.7	-	<0.3	-	<0.3	1.9	<0.3				<0.3	mg/kg	TM38/PM20
Sulphate as SO4 (2:1 Ext) #	0.0070	0.0499	0.0321	0.2170	-	0.0319	-				<0.0015	g/l	TM38/PM20
Total Organic Carbon #	1.02	2.37	0.57	8.27	-	3.40	-				<0.02	%	TM21/PM24
Nitrocellulose Colour*	-	-	-	-ve	-	-	-				None		Subcontracted
Nitrocellulose Colourimetric*	-	-	-	<5000	-	-	-				mg/kg		Subcontracted
Cyclotetramethylene Tetranitramine (HMX)*	-	-	-	<2	-	-	-				mg/kg		Subcontracted
Cyclo-1,3,5-Trimethylene-2,4,6-Trinitramine (RDX)*	-	-	-	<2	-	-	-				mg/kg		Subcontracted
Ethylene Glycol Dinitrate (EGDN)*	-	-	-	<1	-	-	-				mg/kg		Subcontracted
2,4,6-Trinitro-Phenylmethyl Nitramine (Tetryl)*	-	-	-	<1	-	-	-				mg/kg		Subcontracted
Glycerol Trinitrate (NG)*	-	-	-	<1	-	-	-				mg/kg		Subcontracted
2,4,6-Trinitrotoluene (TNT)*	-	-	-	<0.1	-	-	-				mg/kg		Subcontracted
2,6-Dinitrotoluene*	-	-	-	<1	-	-	-				mg/kg		Subcontracted
2,4-Dinitrotoluene*	-	-	-	<1	-	-	-				mg/kg		Subcontracted
Hexanitro-Stilbene (HNS)*	-	-	-	<0.5	-	-	-				mg/kg		Subcontracted
Pentaerythritol Tetranitrate (PETN)*	-	-	-	<5	-	-	-				mg/kg		Subcontracted
Nitroguanidine (Picrite)*	-	-	-	<0.25	-	-	-				mg/kg		Subcontracted
2,4,6-Trinitro Phenol (Picric Acid)*	-	-	-	<0.1	-	-	-				mg/kg		Subcontracted

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane Detail
Contact: Adrian Read
EMT Job No: 23/9034

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

[illegible]

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane Detail
Contact: Adrian Read

Note:

Asbestos Screen analysis is carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Detailed Gravimetric Quantification and PCOM Fibre Analysis is carried out in accordance with our documented in-house methods PM042 and TM131 and HSG 248 using Stereo and Polarised Light Microscopy and Phase Contrast Optical Microscopy (PCOM). Asbestos sub-samples are retained for not less than 6 months from the date of analysis unless specifically requested.

The LOQ of the Asbestos Quantification is 0.001% dry fibre of dry mass of sample.

Where the sample is not taken by a Element Materials Technology consultant, Element Materials Technology cannot be responsible for inaccurate or unrepresentative sampling.

Where trace asbestos is reported the amount of asbestos will be <0.1%.

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analyst Name	Date Of Analysis	Analysis	Result
23/9034	5	HDP101	0.30	272	Simon Postlewhite	30/06/2023	General Description (Bulk Analysis)	Brown soil/stones
					Simon Postlewhite	30/06/2023	Asbestos Fibres	NAD
					Simon Postlewhite	30/06/2023	Asbestos ACM	NAD
					Simon Postlewhite	30/06/2023	Asbestos Type	NAD
23/9034	5	HDP102	0.10	275	Simon Postlewhite	30/06/2023	General Description (Bulk Analysis)	Brown soil/stones
					Simon Postlewhite	30/06/2023	Asbestos Fibres	NAD
					Simon Postlewhite	30/06/2023	Asbestos ACM	NAD
					Simon Postlewhite	30/06/2023	Asbestos Type	NAD
23/9034	5	HDP103	0.30	278	Simon Postlewhite	30/06/2023	General Description (Bulk Analysis)	Brown soil/stones
					Simon Postlewhite	30/06/2023	Asbestos Fibres	NAD
					Simon Postlewhite	30/06/2023	Asbestos ACM	NAD
					Simon Postlewhite	30/06/2023	Asbestos Type	NAD
23/9034	5	HDP103	1.20	281	Anthony Carman	30/06/2023	General Description (Bulk Analysis)	Brown Soil/Stones
					Anthony Carman	30/06/2023	Asbestos Fibres	NAD
					Anthony Carman	30/06/2023	Asbestos ACM	NAD
					Anthony Carman	30/06/2023	Asbestos Type	NAD
23/9034	5	HDP106	0.15	290	Anthony Carman	30/06/2023	General Description (Bulk Analysis)	Brown Soil/Stones
					Anthony Carman	30/06/2023	Asbestos Fibres	NAD
					Anthony Carman	30/06/2023	Asbestos ACM	NAD
					Anthony Carman	30/06/2023	Asbestos Type	NAD

Client Name: Tier Environmental

Reference: TE1750

Location: Bryn Lane Detail

Contact: Adrian Read

[illegible]

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

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 23/9034

SOILS and ASH

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

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

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

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

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

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

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

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

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

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

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

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

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

WATERS

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

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

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

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STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

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

DEVIATING SAMPLES

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

SURROGATES

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

DILUTIONS

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

BLANKS

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

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

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

Measurement Uncertainty

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

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

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

HWOL ACRONYMS AND OPERATORS USED

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	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 23/9034

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes		AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details			AR	Yes
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO2 generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil, March 2012 v4.	PM24	Preparation of Soil and Marine Sediment Samples for Total Organic Carbon.	Yes		AD	Yes
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM21B	As Received samples are extracted in Methanol: Water (60:40) by reciprocal shaker.			AR	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.	Yes		AD	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes

EMT Job No: 23/9034

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AR	Yes
TM42	Modified US EPA method 8270D v5:2014. Pesticides and herbicides by GC-MS	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM50	Acid soluble sulphate (Total Sulphate) analysed by ICP-OES	PM29	A hot hydrochloric acid digest is performed on a dried and ground sample, and the resulting liquor is analysed.	Yes		AD	Yes
TM65	Asbestos Bulk Identification method based on HSG 248 Second edition (2021)	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes		AR	No
Subcontracted	See attached subcontractor report for accreditation status and provider.					AD	Yes

Tier Environmental
Suite 414, Chadwick House
Warrington Rd
Birchwood
Warrington
United Kingdom
WA3 6AE



4225



Attention : Adrian Read
Date : 3rd July, 2023
Your reference : TE1750
Our reference : Test Report 23/9034 Batch 6
Location : Bryn Lane Detail
Date samples received : 21st June, 2023
Status : Final Report
Issue : 1

Seven samples were received for analysis on 21st June, 2023 of which four were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:



Bruce Leslie
Project Manager

Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane Detail
Contact: Adrian Read
EMT Job No: 23/9034

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	294-295	296-297	302-303	304-305							Please see attached notes for all abbreviations and acronyms		
Sample ID	CP103	CP107	CP108	CP108									
Depth	8.00	8.00	0.20	4.70									
COC No / misc													
Containers	J T	V T	V J	V J									
Sample Date	19/06/2023	19/06/2023	20/06/2023	20/06/2023									
Sample Type	Soil	Soil	Soil	Soil									
Batch Number	6	6	6	6									
Date of Receipt	21/06/2023	21/06/2023	21/06/2023	21/06/2023							LOD/LOR	Units	Method No.
Sulphur as S	0.04	0.06	-	0.06							<0.01	%	TM30/PM15
Total Sulphate as SO4 BRE	0.07	0.07	-	0.11							<0.01	%	TM50/PM29
Magnesium	0.0398	0.0291	-	0.0634							<0.0001	g/l	TM30/PM20
Pesticides													
Organophosphorus Pesticides													
Azinphos ethyl	-	-	<10	-							<10	ug/kg	TM42/PM8
Azinphos methyl	-	-	<10	-							<10	ug/kg	TM42/PM8
Carbophenothion	-	-	<10	-							<10	ug/kg	TM42/PM8
Chlorfenvinphos	-	-	<10	-							<10	ug/kg	TM42/PM8
Chlorpyrifos	-	-	<10	-							<10	ug/kg	TM42/PM8
Chlorpyrifos-methyl	-	-	<10	-							<10	ug/kg	TM42/PM8
Diazinon	-	-	<10	-							<10	ug/kg	TM42/PM8
Dichlorvos	-	-	<10	-							<10	ug/kg	TM42/PM8
Disulfoton	-	-	<10	-							<10	ug/kg	TM42/PM8
Dimethoate	-	-	<10	-							<10	ug/kg	TM42/PM8
Ethion	-	-	<10	-							<10	ug/kg	TM42/PM8
Ethyl Parathion (Parathion)	-	-	<10	-							<10	ug/kg	TM42/PM8
Etrimphos	-	-	<10	-							<10	ug/kg	TM42/PM8
Fenitrothion	-	-	<10	-							<10	ug/kg	TM42/PM8
Fenthion	-	-	<10	-							<10	ug/kg	TM42/PM8
Malathion	-	-	<10	-							<10	ug/kg	TM42/PM8
Methyl Parathion	-	-	<10	-							<10	ug/kg	TM42/PM8
Mevinphos	-	-	<10	-							<10	ug/kg	TM42/PM8
Phosalone	-	-	<10	-							<10	ug/kg	TM42/PM8
Pirimiphos Methyl	-	-	<10	-							<10	ug/kg	TM42/PM8
Propetamphos	-	-	<10	-							<10	ug/kg	TM42/PM8
Triazophos	-	-	<10	-							<10	ug/kg	TM42/PM8
Natural Moisture Content	29.9	37.4	23.3	21.7							<0.1	%	PM4/PM0
Ammoniacal Nitrogen as NH4	<0.6	<0.6	-	<0.6							<0.6	mg/kg	TM38/PM20
Chloride (2:1 Ext BRE) #	0.017	0.019	-	0.016							<0.002	g/l	TM38/PM20
Nitrate as NO3 (2:1 Ext BRE)	<0.0025	<0.0025	-	0.0036							<0.0025	g/l	TM38/PM20
Ortho Phosphate as PO4	-	-	<0.3	-							<0.3	mg/kg	TM38/PM20
Sulphate as SO4 (2:1 Ext) #	0.2936	0.2278	-	0.4345							<0.0015	g/l	TM38/PM20
pH #	8.41	8.59	-	8.32							<0.01	pH units	TM73/PM11

Client Name: Tier Environmental

Reference: TE1750

Location: Bryn Lane Detail

Contact: Adrian Read

[illegible]

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NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 23/9034

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

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

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

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

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

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

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STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

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

DEVIATING SAMPLES

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

SURROGATES

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

DILUTIONS

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

BLANKS

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

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

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

Measurement Uncertainty

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

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

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

HWOL ACRONYMS AND OPERATORS USED

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	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 23/9034

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.			AD	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AR	Yes
TM42	Modified US EPA method 8270D v5:2014. Pesticides and herbicides by GC-MS	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM50	Acid soluble sulphate (Total Sulphate) analysed by ICP-OES	PM29	A hot hydrochloric acid digest is performed on a dried and ground sample, and the resulting liquor is analysed.			AD	Yes
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes		AR	No



2183

Final Report

Report No.: 23-20355-1

Initial Date of Issue: 26-Jun-2023

Re-Issue Details:

Client Element

Client Address: 3rd Floor
Davidson Building
Southampton Street
London
NC2E 71A

Contact(s): Project Managers

Project 9034 Batch 1

Quotation No.: Q23-30357

Date Received: 15-Jun-2023

Order No.: GB05100795PO

Date Instructed: 15-Jun-2023

No. of Samples: 2

Turnaround (Wkdays): 7

Results Due: 23-Jun-2023

Date Approved: 26-Jun-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: 9034 Batch 1

Client: Element	Chemtest Job No.:					23-20355	23-20355
Quotation No.: Q23-30357	Chemtest Sample ID.:					1657217	1657218
	Client Sample ID.:					9034 Batch 1-4	9034 Batch 1-16
	Sample Type:					SOIL	SOIL
	Date Sampled:					05-Jun-2023	05-Jun-2023
	Asbestos Lab:					COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD			
ACM Type	U	2192		N/A	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected

Test Methods

SOP	Title	Parameters included	Method summary
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry

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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

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

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

All Asbestos testing is performed at the indicated laboratory

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

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 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

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

customerservices@chemtest.com



2183

Final Report

Report No.: 23-20357-1

Initial Date of Issue: 19-Jun-2023

Re-Issue Details:

Client Element

Client Address: 3rd Floor
Davidson Building
Southampton Street
London
NC2E 71A

Contact(s): Project Managers

Project 9034 Batch 2

Quotation No.: Q23-30357

Date Received: 15-Jun-2023

Order No.: GB05100795PO

Date Instructed: 15-Jun-2023

No. of Samples: 15

Turnaround (Wkdays): 7

Results Due: 23-Jun-2023

Date Approved: 19-Jun-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: 9034 Batch 2

Client: Element	Chemtest Job No.:				23-20357	23-20357	23-20357	23-20357	23-20357	23-20357	23-20357	23-20357	23-20357
Quotation No.: Q23-30357	Chemtest Sample ID.:				1657222	1657223	1657224	1657225	1657226	1657227	1657228	1657229	1657230
	Client Sample ID.:				9034 Batch 2-44	9034 Batch 2-60	9034 Batch 2-72	9034 Batch 2-88	9034 Batch 2-100	9034 Batch 2-107	9034 Batch 2-119	9034 Batch 2-135	9034 Batch 2-147
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A	-	-	-	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected

Results - Soil

Project: 9034 Batch 2

Client: Element	Chemtest Job No.:					23-20357	23-20357	23-20357	23-20357	23-20357	23-20357
Quotation No.: Q23-30357	Chemtest Sample ID.:					1657231	1657232	1657233	1657234	1657235	1657236
	Client Sample ID.:					9034 Batch 2-171	9034 Batch 2-194	9034 Batch 2-209	9034 Batch 2-213	9034 Batch 2-225	9034 Batch 2-229
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:					08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023
	Asbestos Lab:					DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD							
ACM Type	U	2192		N/A	-	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected

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SOP	Title	Parameters included	Method summary
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customerservices@chemtest.com

BAE Systems
Properties Ltd
10-11 Adlington South
Business Park
Adlington
Lancashire
PR7 4JR, England
Telephone: 03300 488680

TEST CERTIFICATE

Certificate No: BC0032/23

Site : Element

Ref : 43X10485

Client : Element Materials Technology

Date Received : 26/06/2023

Address : Unit 3
Deeside Point
Deeside Industrial Park
Deeside

Date Completed : 29/06/2023

Date Of Report : 29/06/2023

CH5 2UA

Attention : Project Manager

Accreditation Key:

U = UKAS

M = UKAS & MCERTS

S = Subcontracted Tests

Test Methods

Standard Explosives Suite using ESAL/QC/4 parts a, j, k, HPLCsoils, NC by l or m

Approved :



Mr D.C. Poole

Laboratory manager

Mr P.D. Hart

Senior Analyst



1764

BAE SYSTEMS

TABLE OF RESULTS

Lab Code	20230475		
Client Ref A	23/9034-280		
Client Ref B			
Client Ref C	20/06/23		
Sample Type	Soil		
Soil Type	Top Soil (Standard)		
NC Colour	-ve		U
NC Colourimetric	<5000	mg/kg	U
HMX	<2	mg/kg	M
RDX	<2	mg/kg	M
EGDN	<1	mg/kg	M
Tetryl	<1	mg/kg	M
NG	<1	mg/kg	M
TNT	<0.1	mg/kg	M
2,6-DNT	<1	mg/kg	M
2,4-DNT	<1	mg/kg	M
PETN	<5	mg/kg	M
HNS	<0.5	mg/kg	M
Picrite	<0.25	mg/kg	M
Picric Acid	<0.1	mg/kg	M

COMMENTS AND DEPARTURES FROM STANDARD PROCEDURES

Lab ID	Client Descriptions	Notes
--------	---------------------	-------

There were no comments or departures from standard procedures

NOTES

1. This test report shall not be reproduced except in full, without written approval of the laboratory.
2. All results for soil samples are reported based on dry weight of soil which has been air-dried in open, shallow trays at temperatures below 30°C and subsequently ground and sieved to pass through a nominal 710µm aperture sieve. Prior to grinding, any material which is retained on a sieve of mesh size 4.5mm is discarded. Analysis is carried out directly on these prepared soils with the exception of petrol range organic compounds. These analyses are carried out on the soil "As Received" and corrected for the dry weight (at 105 °C) prior to reporting.
3. BAE Systems does not correct results for analytical recoveries.
4. All samples were received in good condition unless otherwise stated. Results provided by the Laboratory are based on samples submitted by clients. The Laboratory cannot be held responsible for the storage, condition or preservation of samples prior to arrival.
5. Validation studies indicate that the concentration of nitrocellulose in high organic content soils may be overestimated.
6. Results stated in this test report relate only to the samples tested.
7. Soil descriptions are given in order to provide a log of sample matrices submitted and are not intended as full geological descriptions.
8. The initials or common names used for reporting explosives relate to the following compounds: Nitrocellulose(NC); Cyclotetramethylene Tetranitramine (HMX); Cyclo-1,3,5-Trimethylene-2,4,6-Trinitramine (RDX); Ethylene Glycol Dinitrate (EGDN); 2,4,6-Trinitro-Phenylmethyl Nitramine (Tetryl); Glycerol Trinitrate (NG); 2,4,6-Trinitrotoluene (TNT); Pentaerythritol Tetranitrate (PETN); Hexanitro-Stilbene (HNS); Nitroguanidine (Picrite); 2,4,6-Trinitro Phenol (Picric Acid); 2,4-Dinitrotoluene (2,4-DNT); 2,6-Dinitrotoluene (2,6-DNT), 2-Amino-4,6-Dinitrotoluene (2-Amino-4,6-DNT), 4-Amino-4,6-Dinitrotoluene (4-Amino-2,6-DNT).
9. Some reporting limits may be raised due to poor recovery of internal standard or dilution of highly contaminated samples.
10. In unacidified waters Tetryl, 1,3,5-TNB, 1,3-DNB and TNT are unstable decaying rapidly over a few days or less depending on the sample matrix. 2-Amino-4,6-DNT, 2,6-DNT and 2,4-DNT are generally more stable depending on the sample matrix, but are likely to show significant loss after three weeks. HMX, RDX, EGDN, PETN, NB, MNT isomers, 4-Amino-2,6-DNT, Picrite and Picric acid are relatively stable after three weeks in unpreserved water samples. These comments are based on laboratory in house trials in surface and ground waters and results from literature searches.
11. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

End of Report BC0032/23



Waste Classification Report

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

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



S6ASP-NTBB6-SIY05

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

Job name

EMT-23-9034-Batch-1-202306261453

Description/Comments

Project

TE1750

Site

Bryn Lane, Wrexham Detailed Planning

Classified by

Name: **Adrian Read**
Date: **03 Jul 2023 07:01 GMT**
Telephone: **01925 818388**

Company: **Tier Environmental**
Suite 414
Chadwick House
Warrington
WA3 6AE

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

HazWasteOnline™ Certification:**CERTIFIED****Course**

Hazardous Waste Classification

Date

03 Dec 2020

Next 3 year Refresher due by Dec 2023

Purpose of classification

2 - Material Characterisation

Address of the waste

Bryn Lane Wrexham

Post Code **LL13 9XW**

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

Proposed redevelopment of land

Description of the specific process, sub-process and/or activity that created the waste

Waste created during excavation of soils during development

Description of the waste

Made ground and/or natural soils



Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	TP101-05/06/2023-0.10m		Non Hazardous		3
2	TP102-05/06/2023-0.20m		Non Hazardous		6
3	TP103-05/06/2023-2.70m		Non Hazardous		8

Related documents

#	Name	Description
1	EMT-23-9034-Batch-1-202306261453.HWOL	Element .hwol file used to populate the Job
2	Example waste stream template for contaminated soils	waste stream template used to create this Job

Report

Created by: Adrian Read

Created date: 03 Jul 2023 07:01 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	10
Appendix B: Rationale for selection of metal species	11
Appendix C: Version	11

Classification of sample: TP101-05/06/2023-0.10m

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

Sample details

Sample name:	LoW Code:
TP101-05/06/2023-0.10m	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
16.2% (dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 16.2% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				11.5	mg/kg	1.32	13.067	mg/kg	0.00131 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium oxide }				<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
3	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				59.4	mg/kg	2.27	116.04	mg/kg	0.0116 %	✓	
	024-017-00-8											
4	copper { dicopper oxide; copper (I) oxide }				21	mg/kg	1.126	20.347	mg/kg	0.00203 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
5	lead { lead chromate }			1	17	mg/kg	1.56	22.82	mg/kg	0.00146 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
6	mercury { mercury dichloride }				0.2	mg/kg	1.353	0.233	mg/kg	0.0000233 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
7	nickel { nickel chromate }				56	mg/kg	2.976	143.434	mg/kg	0.0143 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
8	selenium { nickel selenate }				1	mg/kg	2.554	2.198	mg/kg	0.00022 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
9	zinc { zinc chromate }				69	mg/kg	2.774	164.73	mg/kg	0.0165 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
10	TPH (C6 to C40) petroleum group				<52	mg/kg		<52	mg/kg	<0.0052 %		<LOD
			TPH									
11	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
12	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
13	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
14	ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
15	xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	pH		PH		8 pH		8 pH	8pH		
17	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
18	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8							
19	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
20	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7							
21	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8							
22	anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7							
23	fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-912-4	206-44-0							
24	pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		204-927-3	129-00-0							
25	benzo[a]anthracene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
26	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
27	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
28	benzo[k]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
29	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
30	indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-893-2	193-39-5							
31	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
32	benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-883-8	191-24-2							
33	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-019-00-X	200-547-7	62-73-7							
34	azinphos-ethyl (ISO); O,O-diethyl 4-oxobenzotriazin-3-ylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-056-00-1	220-147-6	2642-71-9							
35	azinphos-methyl (ISO); O,O-dimethyl-4-oxobenzotriazin-3-ylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-039-00-9	201-676-1	86-50-0							
36	carbophenothion (ISO); 4-chlorophenylthiomethyl O,O-diethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-044-00-6	212-324-1	786-19-6							
37	chlorfenvinphos (ISO); 2-chloro-1-(2,4 dichlorophenyl) vinyl diethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-071-00-3	207-432-0	470-90-6							
38	chlorpyrifos (ISO); O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-084-00-4	220-864-4	2921-88-2							
39	chlorpyrifos-methyl (ISO);, O, O-dimethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-186-00-9	227-011-5	5598-13-0							
40	diazinon (ISO); O,O-diethyl O-2-isopropyl-6-methylpyrimidin-4-yl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-040-00-4	206-373-8	333-41-5							
41	dimethoate (ISO); O,O-dimethyl methylcarbamoylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-051-00-4	200-480-3	60-51-5							



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
42	ethion (ISO); O,O,O',O'-tetraethyl S,S'-methylenedi (phosphorodithioate); diethion				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-047-00-2	209-242-3	563-12-2							
43	parathion (ISO); O,O-diethyl O-4-nitrophenyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-034-00-1	200-271-7	56-38-2							
44	etrimfos (ISO); O-6-ethoxy-2-ethylpyrimidin-4-yl O,O-dimethylphosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-122-00-X	253-855-9	38260-54-7							
45	fenitrothion (ISO); O,O-dimethyl O-4-nitro-m-tolyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-054-00-0	204-524-2	122-14-5							
46	fenthion (ISO); O,O-dimethyl-O-(4-methylthion-m-tolyl) phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-048-00-8	200-231-9	55-38-9							
47	malathion (ISO); 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate; [containing £ 0.03 % isomalathion]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-041-00-X	204-497-7	121-75-5							
48	parathion - methyl (ISO); O,O-dimethyl O-4-nitrophenyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-035-00-7	206-050-1	298-00-0							
49	mevinphos (ISO); 2-methoxycarbonyl-1-methylvinyl dimethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-020-00-5	232-095-1	7786-34-7							
50	phosalone (ISO); S-(6-chloro-2-oxobenzoxazolin-3-ylmethyl) O,O-diethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-067-00-1	218-996-2	2310-17-0							
51	pirimiphos-methyl (ISO); O-[2-(diethylamino)-6-methylpyrimidin-4-yl] O,O-dimethyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-134-00-5	249-528-5	29232-93-7							
52	trans-isopropyl-3-[[[(ethylamino)methoxyfosfinothioyl]oxy]crotonate; isopropyl 3-[[[(ethylamino)methoxyphosphinothioyl]oxy]isocrotonate; propetamphos (ISO)				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-136-00-6	250-517-2	31218-83-4							
53	triazophos (ISO); O,O-diethyl-O-1-phenyl-1H-1,2,4-triazol-3-yl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-140-00-8	245-986-5	24017-47-8							
54	disulfoton (ISO); O,O-diethyl 2-ethylthioethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-060-00-3	206-054-3	298-04-4							
Total:								0.0528 %		

Key

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



Classification of sample: TP102-05/06/2023-0.20m

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

Sample details

Sample name:	LoW Code:
TP102-05/06/2023-0.20m	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
6.9% (dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 6.9% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				10.7 mg/kg	1.32	13.216 mg/kg	0.00132 %	✓		
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				51.2 mg/kg	2.27	108.722 mg/kg	0.0109 %	✓		
	024-017-00-8										
4	copper { dicopper oxide; copper (I) oxide }				19 mg/kg	1.126	20.011 mg/kg	0.002 %	✓		
	029-002-00-X	215-270-7	1317-39-1								
5	lead { lead chromate }			1	44 mg/kg	1.56	64.202 mg/kg	0.00412 %	✓		
	082-004-00-2	231-846-0	7758-97-6								
6	mercury { mercury dichloride }				0.2 mg/kg	1.353	0.253 mg/kg	0.0000253 %	✓		
	080-010-00-X	231-299-8	7487-94-7								
7	nickel { nickel chromate }				27.6 mg/kg	2.976	76.843 mg/kg	0.00768 %	✓		
	028-035-00-7	238-766-5	14721-18-7								
8	selenium { nickel selenate }				1 mg/kg	2.554	2.389 mg/kg	0.000239 %	✓		
	028-031-00-5	239-125-2	15060-62-5								
9	zinc { zinc chromate }				94 mg/kg	2.774	243.938 mg/kg	0.0244 %	✓		
	024-007-00-3	236-878-9	13530-65-9								
10	TPH (C6 to C40) petroleum group				<52 mg/kg		<52 mg/kg	<0.0052 %			<LOD
			TPH								
11	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
12	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
13	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
14	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
15	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	• pH				6.71 pH		6.71 pH	6.71 pH		
17	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
18	• acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8							
19	• acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
20	• fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7							
21	• phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8							
22	• anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7							
23	• fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-912-4	206-44-0							
24	• pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		204-927-3	129-00-0							
25	benzo[a]anthracene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
26	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
27	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
28	benzo[k]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
29	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
30	• indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-893-2	193-39-5							
31	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
32	• benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-883-8	191-24-2							
Total:								0.0559 %		

Key

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

Classification of sample: TP103-05/06/2023-2.70m

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

Sample details

Sample name:	LoW Code:
TP103-05/06/2023-2.70m	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
18.8% (dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 18.8% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				11.6	mg/kg	1.32	12.892	mg/kg	0.00129 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium oxide }				<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
3	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				56.6	mg/kg	2.27	108.15	mg/kg	0.0108 %	✓	
	024-017-00-8											
4	copper { dicopper oxide; copper (I) oxide }				25	mg/kg	1.126	23.693	mg/kg	0.00237 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
5	lead { lead chromate }			1	16	mg/kg	1.56	21.008	mg/kg	0.00135 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
6	mercury { mercury dichloride }				0.1	mg/kg	1.353	0.114	mg/kg	0.0000114 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
7	nickel { nickel chromate }				41.3	mg/kg	2.976	103.468	mg/kg	0.0103 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
8	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
9	zinc { zinc chromate }				80	mg/kg	2.774	186.811	mg/kg	0.0187 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
10	pH				8.56	pH		8.56	pH	8.56 pH		
			PH									
11	naphthalene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
12	acenaphthylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8									
13	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
14	fluorene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7									
15	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
16	anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7									
17	fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-912-4	206-44-0									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
18	pyrene	204-927-3	129-00-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
19	benzo[a]anthracene	601-033-00-9	200-280-6		<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
20	chrysene	601-048-00-0	205-923-4		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
21	benzo[b]fluoranthene	601-034-00-4	205-911-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
23	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
24	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
25	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
26	benzo[ghi]perylene	205-883-8	191-24-2		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
Total:								0.0452 %		

Key

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



Appendix A: Classifier defined and non GB MCL determinands

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

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

ethylbenzene (EC Number: 202-849-4, CAS Number: 100-41-4)

GB MCL index number: 601-023-00-4

Description/Comments:

Additional Hazard Statement(s): Carc. 2; H351

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

pH (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

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

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H330 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

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

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Aquatic Chronic 2; H411

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

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

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

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21 Aug 2015

Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21 Aug 2015

Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Carc. 2; H351

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

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 23 Jul 2015

Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

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

cadmium {cadmium oxide}

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

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

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

copper {dicopper oxide; copper (I) oxide}

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

lead {lead chromate}

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

mercury {mercury dichloride}

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

nickel {nickel chromate}

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

selenium {nickel selenate}

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

zinc {zinc chromate}

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

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.2.GB - Oct 2021

HazWasteOnline Classification Engine Version: 2023.178.5649.10417 (27 Jun 2023)

HazWasteOnline Database: 2023.178.5649.10417 (27 Jun 2023)



This classification utilises the following guidance and legislation:

WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021

CLP Regulation - Regulation 1272/2008/EC of 16 December 2008

1st ATP - Regulation 790/2009/EC of 10 August 2009

2nd ATP - Regulation 286/2011/EC of 10 March 2011

3rd ATP - Regulation 618/2012/EU of 10 July 2012

4th ATP - Regulation 487/2013/EU of 8 May 2013

Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013

5th ATP - Regulation 944/2013/EU of 2 October 2013

6th ATP - Regulation 605/2014/EU of 5 June 2014

WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014

Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014

7th ATP - Regulation 2015/1221/EU of 24 July 2015

8th ATP - Regulation (EU) 2016/918 of 19 May 2016

9th ATP - Regulation (EU) 2016/1179 of 19 July 2016

10th ATP - Regulation (EU) 2017/776 of 4 May 2017

HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017

13th ATP - Regulation (EU) 2018/1480 of 4 October 2018

14th ATP - Regulation (EU) 2020/217 of 4 October 2019

15th ATP - Regulation (EU) 2020/1182 of 19 May 2020

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit)

Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020

The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK:

2020 No. 1540 of 16th December 2020

GB MCL List - version 1.1 of 09 June 2021



Waste Classification Report

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

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



G3TQL-CW250-DCJID

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

Job name

EMT-23-9034-Batch-2-202306221553

Description/Comments

Project

TE1750

Site

Bryn Lane, Wrexham Detailed Planning

Classified by

Name:

Adrian Read

Date:

03 Jul 2023 07:02 GMT

Telephone:

01925 818388

Company:

Tier Environmental

Suite 414

Chadwick House

Warrington

WA3 6AE

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

HazWasteOnline™ Certification:

CERTIFIED

Course

Hazardous Waste Classification

Date

03 Dec 2020

Next 3 year Refresher due by Dec 2023

Purpose of classification

2 - Material Characterisation

Address of the waste

Bryn Lane Wrexham

Post Code LL13 9XW

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

Proposed redevelopment of land

Description of the specific process, sub-process and/or activity that created the waste

Waste created during excavation of soils during development

Description of the waste

Made ground and/or natural soils



Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	TP104-06/06/2023-0.10m		Non Hazardous		3
2	TP105-06/06/2023-0.30m		Non Hazardous		6
3	TP106-06/06/2023-0.15m		Potentially Hazardous	HP 3(i)	9
4	TP107-06/06/2023-0.10m		Potentially Hazardous	HP 3(i)	11
5	TP108-06/06/2023-0.30m		Potentially Hazardous	HP 3(i)	15
6	TP109-07/06/2023-0.15m		Non Hazardous		19
7	TP110-08/06/2023-0.50m		Non Hazardous		21
8	TP111-08/06/2023-0.10m		Non Hazardous		24
9	TP112-08/06/2023-0.20m		Potentially Hazardous	HP 3(i)	26
10	TP114-08/06/2023-0.05m		Non Hazardous		30
11	TP116-08/06/2023-0.10m		Potentially Hazardous	HP 3(i)	33
12	TP117-08/06/2023-0.20m		Potentially Hazardous	HP 3(i)	37
13	TP117-08/06/2023-0.40m		Potentially Hazardous	HP 3(i), HP 3(iv)	39
14	TP118-08/06/2023-1.00m		Potentially Hazardous	HP 3(i)	46
15	TP118-08/06/2023-1.70m		Potentially Hazardous	HP 3(i), HP 3(iv)	49

Related documents

#	Name	Description
1	EMT-23-9034-Batch-2-202306221553.HWOL	Element .hwol file used to populate the Job
2	Example waste stream template for contaminated soils	waste stream template used to create this Job

Report

Created by: Adrian Read

Created date: 03 Jul 2023 07:02 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	55
Appendix B: Rationale for selection of metal species	59
Appendix C: Version	59

Classification of sample: TP104-06/06/2023-0.10m

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

Sample details

Sample name:	LoW Code:
TP104-06/06/2023-0.10m	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
27%	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 27% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				10.5	mg/kg	1.32	10.916	mg/kg	0.00109 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium oxide }				<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
3	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				53.6	mg/kg	2.27	95.805	mg/kg	0.00958 %	✓	
	024-017-00-8											
4	copper { dicopper oxide; copper (I) oxide }				21	mg/kg	1.126	18.617	mg/kg	0.00186 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
5	lead { lead chromate }			1	36	mg/kg	1.56	44.215	mg/kg	0.00283 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
6	mercury { mercury dichloride }				0.1	mg/kg	1.353	0.107	mg/kg	0.0000107 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
7	nickel { nickel chromate }				29.6	mg/kg	2.976	69.368	mg/kg	0.00694 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
8	selenium { nickel selenate }				1	mg/kg	2.554	2.011	mg/kg	0.000201 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
9	zinc { zinc chromate }				102	mg/kg	2.774	222.805	mg/kg	0.0223 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
10	TPH (C6 to C40) petroleum group				<52	mg/kg		<52	mg/kg	<0.0052 %		<LOD
			TPH									
11	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
12	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
13	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
14	ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
15	xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	pH		PH		6.86 pH		6.86 pH	6.86 pH		
17	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
18	acenaphthylene		205-917-1	208-96-8	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
19	acenaphthene		201-469-6	83-32-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
20	fluorene		201-695-5	86-73-7	<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
21	phenanthrene		201-581-5	85-01-8	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
22	anthracene		204-371-1	120-12-7	<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
23	fluoranthene		205-912-4	206-44-0	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
24	pyrene		204-927-3	129-00-0	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
25	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
26	chrysene	601-048-00-0	205-923-4	218-01-9	<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
27	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
29	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
30	indeno[123-cd]pyrene		205-893-2	193-39-5	<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
31	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
32	benzo[ghi]perylene		205-883-8	191-24-2	<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
33	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate	015-019-00-X	200-547-7	62-73-7	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
34	azinphos-ethyl (ISO); O,O-diethyl 4-oxobenzotriazin-3-ylmethyl phosphorodithioate	015-056-00-1	220-147-6	2642-71-9	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
35	azinphos-methyl (ISO); O,O-dimethyl-4-oxobenzotriazin-3-ylmethyl phosphorodithioate	015-039-00-9	201-676-1	86-50-0	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
36	carbophenothion (ISO); 4-chlorophenylthiomethyl O,O-diethyl phosphorodithioate	015-044-00-6	212-324-1	786-19-6	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
37	chlorfenvinphos (ISO); 2-chloro-1-(2,4 dichlorophenyl) vinyl diethyl phosphate	015-071-00-3	207-432-0	470-90-6	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
38	chlorpyrifos (ISO); O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate	015-084-00-4	220-864-4	2921-88-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
39	chlorpyrifos-methyl (ISO);, O, O-dimethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate	015-186-00-9	227-011-5	5598-13-0	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
40	diazinon (ISO); O,O-diethyl O-2-isopropyl-6-methylpyrimidin-4-yl phosphorothioate	015-040-00-4	206-373-8	333-41-5	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
41	dimethoate (ISO); O,O-dimethyl methylcarbamoylmethyl phosphorodithioate	015-051-00-4	200-480-3	60-51-5	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD



#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value		MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number										
42	ethion (ISO); O,O,O',O'-tetraethyl S,S'-methylenedi (phosphorodithioate); diethion				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-047-00-2	209-242-3	563-12-2										
43	parathion (ISO); O,O-diethyl O-4-nitrophenyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-034-00-1	200-271-7	56-38-2										
44	etrimfos (ISO); O-6-ethoxy-2-ethylpyrimidin-4-yl O,O-dimethylphosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-122-00-X	253-855-9	38260-54-7										
45	fenitrothion (ISO); O,O-dimethyl O-4-nitro-m-tolyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-054-00-0	204-524-2	122-14-5										
46	fenthion (ISO); O,O-dimethyl-O-(4-methylthion-m-tolyl) phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-048-00-8	200-231-9	55-38-9										
47	malathion (ISO); 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate; [containing £ 0.03 % isomalathion]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-041-00-X	204-497-7	121-75-5										
48	parathion - methyl (ISO); O,O-dimethyl O-4-nitrophenyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-035-00-7	206-050-1	298-00-0										
49	mevinphos (ISO); 2-methoxycarbonyl-1-methylvinyl dimethyl phosphate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-020-00-5	232-095-1	7786-34-7										
50	phosalone (ISO); S-(6-chloro-2-oxobenzoxazolin-3-ylmethyl) O,O-diethyl phosphorodithioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-067-00-1	218-996-2	2310-17-0										
51	pirimiphos-methyl (ISO); O-[2-(diethylamino)-6-methylpyrimidin-4-yl] O,O-dimethyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-134-00-5	249-528-5	29232-93-7										
52	trans-isopropyl-3-[[[(ethylamino)methoxyfosfinothioyl]oxy]crotonate; isopropyl 3-[[[(ethylamino)methoxyphosphinothioyl]oxy]isocrotonate; propetamphos (ISO)				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-136-00-6	250-517-2	31218-83-4										
53	triazophos (ISO); O,O-diethyl-O-1-phenyl-1H-1,2,4-triazol-3-yl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-140-00-8	245-986-5	24017-47-8										
54	disulfoton (ISO); O,O-diethyl 2-ethylthioethyl phosphorodithioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-060-00-3	206-054-3	298-04-4										
Total:											0.0501 %		

Key

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

Classification of sample: TP105-06/06/2023-0.30m

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

Sample details

Sample name:	LoW Code:
TP105-06/06/2023-0.30m	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
19.1% (dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 19.1% Dry Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number								
1		arsenic { arsenic trioxide }				10.3 mg/kg	1.32	11.418 mg/kg	0.00114 %	✓		
		033-003-00-0	215-481-4	1327-53-3								
2		cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD	
		048-002-00-0	215-146-2	1306-19-0								
3		chromium in chromium(VI) compounds { chromium (VI) compounds , with the exception of barium chromate and of compounds specified elsewhere in this Annex }				50.7 mg/kg	2.27	96.632 mg/kg	0.00966 %	✓		
		024-017-00-8										
4		copper { dicopper oxide ; copper (I) oxide }				24 mg/kg	1.126	22.688 mg/kg	0.00227 %	✓		
		029-002-00-X	215-270-7	1317-39-1								
5		lead { lead chromate }			1	40 mg/kg	1.56	52.387 mg/kg	0.00336 %	✓		
		082-004-00-2	231-846-0	7758-97-6								
6		mercury { mercury dichloride }				0.3 mg/kg	1.353	0.341 mg/kg	0.0000341 %	✓		
		080-010-00-X	231-299-8	7487-94-7								
7		nickel { nickel chromate }				30.1 mg/kg	2.976	75.219 mg/kg	0.00752 %	✓		
		028-035-00-7	238-766-5	14721-18-7								
8		selenium { nickel selenate }				2 mg/kg	2.554	4.289 mg/kg	0.000429 %	✓		
		028-031-00-5	239-125-2	15060-62-5								
9		zinc { zinc chromate }				110 mg/kg	2.774	256.218 mg/kg	0.0256 %	✓		
		024-007-00-3	236-878-9	13530-65-9								
10		TPH (C6 to C40) petroleum group				<52 mg/kg		<52 mg/kg	<0.0052 %		<LOD	
				TPH								
11		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD	
		603-181-00-X	216-653-1	1634-04-4								
12		benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD	
		601-020-00-8	200-753-7	71-43-2								
13		toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD	
		601-021-00-3	203-625-9	108-88-3								
14		ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD	
		601-023-00-4	202-849-4	100-41-4								
15		xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								



#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
16	pH		PH		6.67	pH		6.67	pH	6.67 pH		
17	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
18	acenaphthylene		205-917-1	208-96-8	<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19	acenaphthene		201-469-6	83-32-9	<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
20	fluorene		201-695-5	86-73-7	<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
21	phenanthrene		201-581-5	85-01-8	<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22	anthracene		204-371-1	120-12-7	<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
23	fluoranthene		205-912-4	206-44-0	<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
24	pyrene		204-927-3	129-00-0	<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
25	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
26	chrysene	601-048-00-0	205-923-4	218-01-9	<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
27	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
28	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
29	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
30	indeno[123-cd]pyrene		205-893-2	193-39-5	<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
31	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
32	benzo[ghi]perylene		205-883-8	191-24-2	<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
33	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate	015-019-00-X	200-547-7	62-73-7	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34	azinphos-ethyl (ISO); O,O-diethyl 4-oxobenzotriazin-3-ylmethyl phosphorodithioate	015-056-00-1	220-147-6	2642-71-9	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
35	azinphos-methyl (ISO); O,O-dimethyl-4-oxobenzotriazin-3-ylmethyl phosphorodithioate	015-039-00-9	201-676-1	86-50-0	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
36	carbophenothion (ISO); 4-chlorophenylthiomethyl O,O-diethyl phosphorodithioate	015-044-00-6	212-324-1	786-19-6	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
37	chlorfenvinphos (ISO); 2-chloro-1-(2,4 dichlorophenyl) vinyl diethyl phosphate	015-071-00-3	207-432-0	470-90-6	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
38	chlorpyrifos (ISO); O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate	015-084-00-4	220-864-4	2921-88-2	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
39	chlorpyrifos-methyl (ISO); O, O-dimethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate	015-186-00-9	227-011-5	5598-13-0	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
40	diazinon (ISO); O,O-diethyl O-2-isopropyl-6-methylpyrimidin-4-yl phosphorothioate	015-040-00-4	206-373-8	333-41-5	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
41	dimethoate (ISO); O,O-dimethyl methylcarbamoylmethyl phosphorodithioate	015-051-00-4	200-480-3	60-51-5	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
42	ethion (ISO); O,O,O',O'-tetraethyl S,S'-methylenedi (phosphorodithioate); diethion				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-047-00-2	209-242-3	563-12-2							
43	parathion (ISO); O,O-diethyl O-4-nitrophenyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-034-00-1	200-271-7	56-38-2							
44	etrimfos (ISO); O-6-ethoxy-2-ethylpyrimidin-4-yl O,O-dimethylphosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-122-00-X	253-855-9	38260-54-7							
45	fenitrothion (ISO); O,O-dimethyl O-4-nitro-m-tolyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-054-00-0	204-524-2	122-14-5							
46	fenthion (ISO); O,O-dimethyl-O-(4-methylthion-m-tolyl) phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-048-00-8	200-231-9	55-38-9							
47	malathion (ISO); 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate; [containing £ 0.03 % isomalathion]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-041-00-X	204-497-7	121-75-5							
48	parathion - methyl (ISO); O,O-dimethyl O-4-nitrophenyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-035-00-7	206-050-1	298-00-0							
49	mevinphos (ISO); 2-methoxycarbonyl-1-methylvinyl dimethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-020-00-5	232-095-1	7786-34-7							
50	phosalone (ISO); S-(6-chloro-2-oxobenzoxazolin-3-ylmethyl) O,O-diethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-067-00-1	218-996-2	2310-17-0							
51	pirimiphos-methyl (ISO); O-[2-(diethylamino)-6-methylpyrimidin-4-yl] O,O-dimethyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-134-00-5	249-528-5	29232-93-7							
52	trans-isopropyl-3-[[[(ethylamino)methoxyfosfinothioyl]oxy]crotonate; isopropyl 3-[[[(ethylamino)methoxyphosphinothioyl]oxy]isocrotonate; propetamphos (ISO)				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-136-00-6	250-517-2	31218-83-4							
53	triazophos (ISO); O,O-diethyl-O-1-phenyl-1H-1,2,4-triazol-3-yl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-140-00-8	245-986-5	24017-47-8							
54	disulfoton (ISO); O,O-diethyl 2-ethylthioethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-060-00-3	206-054-3	298-04-4							
Total:								0.0553 %		

Key

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

Classification of sample: TP106-06/06/2023-0.15m

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
TP106-06/06/2023-0.15m	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
18.5%	Entry:
(dry weight correction)	17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)

Hazard properties (substances considered hazardous until shown otherwise)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0234%)

Determinands

Moisture content: 18.5% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				10.1	mg/kg	1.32	11.253	mg/kg	0.00113 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium oxide }				<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
3	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				45.4	mg/kg	2.27	86.969	mg/kg	0.0087 %	✓	
	024-017-00-8											
4	copper { dicopper oxide; copper (I) oxide }				24	mg/kg	1.126	22.803	mg/kg	0.00228 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
5	lead { lead chromate }			1	50	mg/kg	1.56	65.815	mg/kg	0.00422 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
6	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
7	nickel { nickel chromate }				28.5	mg/kg	2.976	71.581	mg/kg	0.00716 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
8	selenium { nickel selenate }				1	mg/kg	2.554	2.155	mg/kg	0.000216 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
9	zinc { zinc chromate }				109	mg/kg	2.774	255.175	mg/kg	0.0255 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
10	TPH (C6 to C40) petroleum group		TPH		277	mg/kg		233.755	mg/kg	0.0234 %	✓	
11	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
12	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
13	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
14	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
15	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
16	pH		PH		6.55 pH		6.55 pH	6.55 pH		
17	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
18	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8							
19	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
20	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7							
21	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8							
22	anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7							
23	fluoranthene				0.04 mg/kg		0.0338 mg/kg	0.00000338 %	✓	
		205-912-4	206-44-0							
24	pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		204-927-3	129-00-0							
25	benzo[a]anthracene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
26	chrysene				0.04 mg/kg		0.0338 mg/kg	0.00000338 %	✓	
	601-048-00-0	205-923-4	218-01-9							
27	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
28	benzo[k]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
29	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
30	indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-893-2	193-39-5							
31	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
32	benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-883-8	191-24-2							
Total:								0.0727 %		

Key

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

Classification of sample: TP107-06/06/2023-0.10m

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
TP107-06/06/2023-0.10m	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
21.8%	Entry:
(dry weight correction)	17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)

Hazard properties (substances considered hazardous until shown otherwise)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00583%)

Determinands

Moisture content: 21.8% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				10.6	mg/kg	1.32	11.491	mg/kg	0.00115 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium oxide }				<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
3	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				49.1	mg/kg	2.27	91.508	mg/kg	0.00915 %	✓	
	024-017-00-8											
4	copper { dicopper oxide; copper (I) oxide }				24	mg/kg	1.126	22.185	mg/kg	0.00222 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
5	lead { lead chromate }			1	69	mg/kg	1.56	88.364	mg/kg	0.00567 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
6	mercury { mercury dichloride }				0.2	mg/kg	1.353	0.222	mg/kg	0.0000222 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
7	nickel { nickel chromate }				26.9	mg/kg	2.976	65.732	mg/kg	0.00657 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
8	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
9	zinc { zinc chromate }				112	mg/kg	2.774	255.094	mg/kg	0.0255 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
10	TPH (C6 to C40) petroleum group		TPH		71	mg/kg		58.292	mg/kg	0.00583 %	✓	
11	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
12	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									



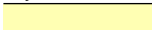
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
13	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
14	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
15	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
16	pH		PH		6.71 pH		6.71 pH	6.71 pH		
17	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
18	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8							
19	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
20	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7							
21	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8							
22	anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7							
23	fluoranthene				0.04 mg/kg		0.0328 mg/kg	0.00000328 %	✓	
		205-912-4	206-44-0							
24	pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		204-927-3	129-00-0							
25	benzo[a]anthracene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
26	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
27	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
28	benzo[k]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
29	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
30	indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-893-2	193-39-5							
31	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
32	benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-883-8	191-24-2							
33	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-019-00-X	200-547-7	62-73-7							
34	azinphos-ethyl (ISO); O,O-diethyl 4-oxobenzotriazin-3-ylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-056-00-1	220-147-6	2642-71-9							
35	azinphos-methyl (ISO); O,O-dimethyl 4-oxobenzotriazin-3-ylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-039-00-9	201-676-1	86-50-0							
36	carbophenothion (ISO); 4-chlorophenylthiomethyl O,O-diethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-044-00-6	212-324-1	786-19-6							
37	chlorfenvinphos (ISO); 2-chloro-1-(2,4 dichlorophenyl) vinyl diethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-071-00-3	207-432-0	470-90-6							
38	chlorpyrifos (ISO); O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-084-00-4	220-864-4	2921-88-2							



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
39	chlorpyrifos-methyl (ISO);, O, O-dimethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-186-00-9	227-011-5	5598-13-0							
40	diazinon (ISO); O,O-diethyl O-2-isopropyl-6-methylpyrimidin-4-yl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-040-00-4	206-373-8	333-41-5							
41	dimethoate (ISO); O,O-dimethyl methylcarbamoylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-051-00-4	200-480-3	60-51-5							
42	ethion (ISO); O,O,O',O'-tetraethyl S,S'-methylenedi (phosphorodithioate); diethion				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-047-00-2	209-242-3	563-12-2							
43	parathion (ISO); O,O-diethyl O-4-nitrophenyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-034-00-1	200-271-7	56-38-2							
44	etrimfos (ISO); O-6-ethoxy-2-ethylpyrimidin-4-yl O,O-dimethylphosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-122-00-X	253-855-9	38260-54-7							
45	fenitrothion (ISO); O,O-dimethyl O-4-nitro-m-tolyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-054-00-0	204-524-2	122-14-5							
46	fenthion (ISO); O,O-dimethyl-O-(4-methylthion-m-tolyl) phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-048-00-8	200-231-9	55-38-9							
47	malathion (ISO); 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate; [containing £ 0.03 % isomalathion]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-041-00-X	204-497-7	121-75-5							
48	parathion - methyl (ISO); O,O-dimethyl O-4-nitrophenyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-035-00-7	206-050-1	298-00-0							
49	mevinphos (ISO); 2-methoxycarbonyl-1-methylvinyl dimethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-020-00-5	232-095-1	7786-34-7							
50	phosalone (ISO); S-(6-chloro-2-oxobenzoxazolin-3-ylmethyl) O,O-diethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-067-00-1	218-996-2	2310-17-0							
51	pirimiphos-methyl (ISO); O-[2-(diethylamino)-6-methylpyrimidin-4-yl] O,O-dimethyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-134-00-5	249-528-5	29232-93-7							
52	trans-isopropyl-3-[[[(ethylamino)methoxyfosfinothioyl]oxy]crotonate; isopropyl 3-[[[(ethylamino)methoxyphosphinothioyl]oxy]isocrotonate; propetamphos (ISO)				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-136-00-6	250-517-2	31218-83-4							
53	triazophos (ISO); O,O-diethyl-O-1-phenyl-1H-1,2,4-triazol-3-yl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-140-00-8	245-986-5	24017-47-8							
54	disulfoton (ISO); O,O-diethyl 2-ethylthioethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-060-00-3	206-054-3	298-04-4							
Total:								0.0565 %		



Key

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

Classification of sample: TP108-06/06/2023-0.30m

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
TP108-06/06/2023-0.30m	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
15.3%	Entry:
(dry weight correction)	17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)

Hazard properties (substances considered hazardous until shown otherwise)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.021%)

Determinands

Moisture content: 15.3% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				12 mg/kg	1.32	13.741 mg/kg	0.00137 %	✓		
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				53.7 mg/kg	2.27	105.723 mg/kg	0.0106 %	✓		
	024-017-00-8										
4	copper { dicopper oxide; copper (I) oxide }				21 mg/kg	1.126	20.506 mg/kg	0.00205 %	✓		
	029-002-00-X	215-270-7	1317-39-1								
5	lead { lead chromate }			1	45 mg/kg	1.56	60.877 mg/kg	0.0039 %	✓		
	082-004-00-2	231-846-0	7758-97-6								
6	mercury { mercury dichloride }				0.2 mg/kg	1.353	0.235 mg/kg	0.0000235 %	✓		
	080-010-00-X	231-299-8	7487-94-7								
7	nickel { nickel chromate }				33.7 mg/kg	2.976	86.991 mg/kg	0.0087 %	✓		
	028-035-00-7	238-766-5	14721-18-7								
8	selenium { nickel selenate }				1 mg/kg	2.554	2.215 mg/kg	0.000221 %	✓		
	028-031-00-5	239-125-2	15060-62-5								
9	zinc { zinc chromate }				103 mg/kg	2.774	247.821 mg/kg	0.0248 %	✓		
	024-007-00-3	236-878-9	13530-65-9								
10	TPH (C6 to C40) petroleum group		TPH		242 mg/kg		209.887 mg/kg	0.021 %	✓		
11	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
12	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								



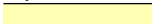
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
13	toluene 601-021-00-3	203-625-9	108-88-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
14	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
15	xylene 601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
16	pH PH				7.56 pH		7.56 pH	7.56 pH		
17	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
18	acenaphthylene 205-917-1	208-96-8			<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
19	acenaphthene 201-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
20	fluorene 201-695-5	86-73-7			<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
21	phenanthrene 201-581-5	85-01-8			<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
22	anthracene 204-371-1	120-12-7			<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
23	fluoranthene 205-912-4	206-44-0			<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
24	pyrene 204-927-3	129-00-0			<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
25	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
26	chrysene 601-048-00-0	205-923-4	218-01-9		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
27	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
29	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
30	indeno[123-cd]pyrene 205-893-2	193-39-5			<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
31	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
32	benzo[ghi]perylene 205-883-8	191-24-2			<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
33	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate 015-019-00-X	200-547-7	62-73-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
34	azinphos-ethyl (ISO); O,O-diethyl 4-oxobenzotriazin-3-ylmethyl phosphorodithioate 015-056-00-1	220-147-6	2642-71-9		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
35	azinphos-methyl (ISO); O,O-dimethyl 4-oxobenzotriazin-3-ylmethyl phosphorodithioate 015-039-00-9	201-676-1	86-50-0		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
36	carbophenothion (ISO); 4-chlorophenylthiomethyl O,O-diethyl phosphorodithioate 015-044-00-6	212-324-1	786-19-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
37	chlorfenvinphos (ISO); 2-chloro-1-(2,4 dichlorophenyl) vinyl diethyl phosphate 015-071-00-3	207-432-0	470-90-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
38	chlorpyrifos (ISO); O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate 015-084-00-4	220-864-4	2921-88-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD



#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
39		chlorpyrifos-methyl (ISO);, O, O-dimethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-186-00-9	227-011-5	5598-13-0									
40		diazinon (ISO); O,O-diethyl O-2-isopropyl-6-methylpyrimidin-4-yl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-040-00-4	206-373-8	333-41-5									
41		dimethoate (ISO); O,O-dimethyl methylcarbamoylmethyl phosphorodithioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-051-00-4	200-480-3	60-51-5									
42		ethion (ISO); O,O,O',O'-tetraethyl S,S'-methylenedi (phosphorodithioate); diethion				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-047-00-2	209-242-3	563-12-2									
43		parathion (ISO); O,O-diethyl O-4-nitrophenyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-034-00-1	200-271-7	56-38-2									
44		etrimfos (ISO); O-6-ethoxy-2-ethylpyrimidin-4-yl O,O-dimethylphosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-122-00-X	253-855-9	38260-54-7									
45		fenitrothion (ISO); O,O-dimethyl O-4-nitro-m-tolyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-054-00-0	204-524-2	122-14-5									
46		fenthion (ISO); O,O-dimethyl-O-(4-methylthion-m-tolyl) phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-048-00-8	200-231-9	55-38-9									
47		malathion (ISO); 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate; [containing £ 0.03 % isomalathion]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-041-00-X	204-497-7	121-75-5									
48		parathion - methyl (ISO); O,O-dimethyl O-4-nitrophenyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-035-00-7	206-050-1	298-00-0									
49		mevinphos (ISO); 2-methoxycarbonyl-1-methylvinyl dimethyl phosphate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-020-00-5	232-095-1	7786-34-7									
50		phosalone (ISO); S-(6-chloro-2-oxobenzoxazolin-3-ylmethyl) O,O-diethyl phosphorodithioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-067-00-1	218-996-2	2310-17-0									
51		pirimiphos-methyl (ISO); O-[2-(diethylamino)-6-methylpyrimidin-4-yl] O,O-dimethyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-134-00-5	249-528-5	29232-93-7									
52		trans-isopropyl-3-[[[(ethylamino)methoxyfosfinothioyl]oxy]crotonate; isopropyl 3-[[[(ethylamino)methoxyphosphinothioyl]oxy]isocrotonate; propetamphos (ISO)				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-136-00-6	250-517-2	31218-83-4									
53		triazophos (ISO); O,O-diethyl-O-1-phenyl-1H-1,2,4-triazol-3-yl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-140-00-8	245-986-5	24017-47-8									
54		disulfoton (ISO); O,O-diethyl 2-ethylthioethyl phosphorodithioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-060-00-3	206-054-3	298-04-4									
Total:											0.0727 %		



Key

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

Classification of sample: TP109-07/06/2023-0.15m

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

Sample details

Sample name:	LoW Code:
TP109-07/06/2023-0.15m	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
12.2% (dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 12.2% Dry Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
1		arsenic { arsenic trioxide }				11.6	mg/kg	1.32	13.65	mg/kg	0.00137 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
2		cadmium { cadmium oxide }				<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<LOD
		048-002-00-0	215-146-2	1306-19-0									
3		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				57.7	mg/kg	2.27	116.737	mg/kg	0.0117 %	✓	
		024-017-00-8											
4		copper { dicopper oxide; copper (I) oxide }				21	mg/kg	1.126	21.073	mg/kg	0.00211 %	✓	
		029-002-00-X	215-270-7	1317-39-1									
5		lead { lead chromate }			1	49	mg/kg	1.56	68.12	mg/kg	0.00437 %	✓	
		082-004-00-2	231-846-0	7758-97-6									
6		mercury { mercury dichloride }				0.2	mg/kg	1.353	0.241	mg/kg	0.0000241 %	✓	
		080-010-00-X	231-299-8	7487-94-7									
7		nickel { nickel chromate }				32.5	mg/kg	2.976	86.211	mg/kg	0.00862 %	✓	
		028-035-00-7	238-766-5	14721-18-7									
8		selenium { nickel selenate }				1	mg/kg	2.554	2.276	mg/kg	0.000228 %	✓	
		028-031-00-5	239-125-2	15060-62-5									
9		zinc { zinc chromate }				106	mg/kg	2.774	262.085	mg/kg	0.0262 %	✓	
		024-007-00-3	236-878-9	13530-65-9									
10		TPH (C6 to C40) petroleum group				<52	mg/kg		<52	mg/kg	<0.0052 %		<LOD
				TPH									
11		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
12		benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
13		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
14		ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
15		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	● pH				7.38 pH		7.38 pH	7.38 pH			
17	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
18	● acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								
19	● acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-469-6	83-32-9								
20	● fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		201-695-5	86-73-7								
21	● phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-581-5	85-01-8								
22	● anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		204-371-1	120-12-7								
23	● fluoranthene				0.08 mg/kg		0.0713 mg/kg	0.00000713 %	✓		
		205-912-4	206-44-0								
24	● pyrene				0.07 mg/kg		0.0624 mg/kg	0.00000624 %	✓		
		204-927-3	129-00-0								
25	benzo[a]anthracene				0.08 mg/kg		0.0713 mg/kg	0.00000713 %	✓		
	601-033-00-9	200-280-6	56-55-3								
26	chrysene				0.04 mg/kg		0.0357 mg/kg	0.00000357 %	✓		
	601-048-00-0	205-923-4	218-01-9								
27	benzo[b]fluoranthene				0.06 mg/kg		0.0535 mg/kg	0.00000535 %	✓		
	601-034-00-4	205-911-9	205-99-2								
28	benzo[k]fluoranthene				0.03 mg/kg		0.0267 mg/kg	0.00000267 %	✓		
	601-036-00-5	205-916-6	207-08-9								
29	benzo[a]pyrene; benzo[def]chrysene				0.06 mg/kg		0.0535 mg/kg	0.00000535 %	✓		
	601-032-00-3	200-028-5	50-32-8								
30	● indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		205-893-2	193-39-5								
31	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
32	● benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		205-883-8	191-24-2								
Total:									0.0599 %		

Key

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

Classification of sample: TP110-08/06/2023-0.50m

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

Sample details

Sample name:	LoW Code:
TP110-08/06/2023-0.50m	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15.1% (dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 15.1% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				10.6	mg/kg	1.32	12.159	mg/kg	0.00122 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium oxide }				<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
3	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				50	mg/kg	2.27	98.61	mg/kg	0.00986 %	✓	
	024-017-00-8											
4	copper { dicopper oxide; copper (I) oxide }				24	mg/kg	1.126	23.476	mg/kg	0.00235 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
5	lead { lead chromate }			1	13	mg/kg	1.56	17.617	mg/kg	0.00113 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
6	mercury { mercury dichloride }				0.1	mg/kg	1.353	0.118	mg/kg	0.0000118 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
7	nickel { nickel chromate }				44	mg/kg	2.976	113.776	mg/kg	0.0114 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
8	selenium { nickel selenate }				1	mg/kg	2.554	2.219	mg/kg	0.000222 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
9	zinc { zinc chromate }				75	mg/kg	2.774	180.765	mg/kg	0.0181 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
10	TPH (C6 to C40) petroleum group				<52	mg/kg		<52	mg/kg	<0.0052 %		<LOD
			TPH									
11	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
12	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
13	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
14	ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
15	xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	pH		PH		8.39 pH		8.39 pH	8.39 pH		
17	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
18	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8							
19	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
20	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7							
21	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8							
22	anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7							
23	fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-912-4	206-44-0							
24	pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		204-927-3	129-00-0							
25	benzo[a]anthracene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
26	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
27	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
28	benzo[k]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
29	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
30	indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-893-2	193-39-5							
31	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
32	benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-883-8	191-24-2							
33	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-019-00-X	200-547-7	62-73-7							
34	azinphos-ethyl (ISO); O,O-diethyl 4-oxobenzotriazin-3-ylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-056-00-1	220-147-6	2642-71-9							
35	azinphos-methyl (ISO); O,O-dimethyl-4-oxobenzotriazin-3-ylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-039-00-9	201-676-1	86-50-0							
36	carbophenothion (ISO); 4-chlorophenylthiomethyl O,O-diethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-044-00-6	212-324-1	786-19-6							
37	chlorfenvinphos (ISO); 2-chloro-1-(2,4 dichlorophenyl) vinyl diethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-071-00-3	207-432-0	470-90-6							
38	chlorpyrifos (ISO); O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-084-00-4	220-864-4	2921-88-2							
39	chlorpyrifos-methyl (ISO);, O, O-dimethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-186-00-9	227-011-5	5598-13-0							
40	diazinon (ISO); O,O-diethyl O-2-isopropyl-6-methylpyrimidin-4-yl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-040-00-4	206-373-8	333-41-5							
41	dimethoate (ISO); O,O-dimethyl methylcarbamoylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-051-00-4	200-480-3	60-51-5							



#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value		MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number										
42	ethion (ISO); O,O,O',O'-tetraethyl S,S'-methylenedi (phosphorodithioate); diethion				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-047-00-2	209-242-3	563-12-2										
43	parathion (ISO); O,O-diethyl O-4-nitrophenyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-034-00-1	200-271-7	56-38-2										
44	etrimfos (ISO); O-6-ethoxy-2-ethylpyrimidin-4-yl O,O-dimethylphosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-122-00-X	253-855-9	38260-54-7										
45	fenitrothion (ISO); O,O-dimethyl O-4-nitro-m-tolyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-054-00-0	204-524-2	122-14-5										
46	fenthion (ISO); O,O-dimethyl-O-(4-methylthion-m-tolyl) phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-048-00-8	200-231-9	55-38-9										
47	malathion (ISO); 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate; [containing £ 0.03 % isomalathion]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-041-00-X	204-497-7	121-75-5										
48	parathion - methyl (ISO); O,O-dimethyl O-4-nitrophenyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-035-00-7	206-050-1	298-00-0										
49	mevinphos (ISO); 2-methoxycarbonyl-1-methylvinyl dimethyl phosphate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-020-00-5	232-095-1	7786-34-7										
50	phosalone (ISO); S-(6-chloro-2-oxobenzoxazolin-3-ylmethyl) O,O-diethyl phosphorodithioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-067-00-1	218-996-2	2310-17-0										
51	pirimiphos-methyl (ISO); O-[2-(diethylamino)-6-methylpyrimidin-4-yl] O,O-dimethyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-134-00-5	249-528-5	29232-93-7										
52	trans-isopropyl-3-[[[(ethylamino)methoxyfosfinothioyl]oxy]crotonate; isopropyl 3-[[[(ethylamino)methoxyphosphinothioyl]oxy]isocrotonate; propetamphos (ISO)				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-136-00-6	250-517-2	31218-83-4										
53	triazophos (ISO); O,O-diethyl-O-1-phenyl-1H-1,2,4-triazol-3-yl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-140-00-8	245-986-5	24017-47-8										
54	disulfoton (ISO); O,O-diethyl 2-ethylthioethyl phosphorodithioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-060-00-3	206-054-3	298-04-4										
Total:											0.0495 %		

Key

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

Classification of sample: TP111-08/06/2023-0.10m

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

Sample details

Sample name:	LoW Code:
TP111-08/06/2023-0.10m	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11.8% (dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 11.8% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				10.6	mg/kg	1.32	12.518	mg/kg	0.00125 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium oxide }				<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
3	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				53	mg/kg	2.27	107.612	mg/kg	0.0108 %	✓	
	024-017-00-8											
4	copper { dicopper oxide; copper (I) oxide }				20	mg/kg	1.126	20.141	mg/kg	0.00201 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
5	lead { lead chromate }			1	59	mg/kg	1.56	82.316	mg/kg	0.00528 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
6	mercury { mercury dichloride }				0.3	mg/kg	1.353	0.363	mg/kg	0.0000363 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
7	nickel { nickel chromate }				26.2	mg/kg	2.976	69.748	mg/kg	0.00697 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
8	selenium { nickel selenate }				1	mg/kg	2.554	2.284	mg/kg	0.000228 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
9	zinc { zinc chromate }				94	mg/kg	2.774	233.247	mg/kg	0.0233 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
10	TPH (C6 to C40) petroleum group				<52	mg/kg		<52	mg/kg	<0.0052 %		<LOD
			TPH									
11	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
12	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
13	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
14	ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
15	xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	• pH				6.82 pH		6.82	pH	6.82 pH		
17	naphthalene				<0.04 mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3								
18	• acenaphthylene				<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8								
19	• acenaphthene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9								
20	• fluorene				<0.04 mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7								
21	• phenanthrene				<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8								
22	• anthracene				<0.04 mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7								
23	• fluoranthene				0.06 mg/kg		0.0537	mg/kg	0.00000537 %	✓	
		205-912-4	206-44-0								
24	• pyrene				0.04 mg/kg		0.0358	mg/kg	0.00000358 %	✓	
		204-927-3	129-00-0								
25	benzo[a]anthracene				<0.06 mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-033-00-9	200-280-6	56-55-3								
26	chrysene				0.03 mg/kg		0.0268	mg/kg	0.00000268 %	✓	
	601-048-00-0	205-923-4	218-01-9								
27	benzo[b]fluoranthene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2								
28	benzo[k]fluoranthene				<0.02 mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-036-00-5	205-916-6	207-08-9								
29	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8								
30	• indeno[123-cd]pyrene				<0.04 mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		205-893-2	193-39-5								
31	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3								
32	• benzo[ghi]perylene				<0.04 mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		205-883-8	191-24-2								
Total:									0.0551 %		

Key

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

Classification of sample: TP112-08/06/2023-0.20m

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
TP112-08/06/2023-0.20m	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
12.7%	Entry:
(dry weight correction)	17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)

Hazard properties (substances considered hazardous until shown otherwise)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0246%)

Determinands

Moisture content: 12.7% Dry Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1		arsenic { arsenic trioxide }				9.5 mg/kg	1.32	11.13 mg/kg	0.00111 %	✓	
		033-003-00-0	215-481-4	1327-53-3							
2		cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD
		048-002-00-0	215-146-2	1306-19-0							
3		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				50.9 mg/kg	2.27	102.523 mg/kg	0.0103 %	✓	
		024-017-00-8									
4		copper { dicopper oxide; copper (I) oxide }				21 mg/kg	1.126	20.979 mg/kg	0.0021 %	✓	
		029-002-00-X	215-270-7	1317-39-1							
5		lead { lead chromate }			1	54 mg/kg	1.56	74.738 mg/kg	0.00479 %	✓	
		082-004-00-2	231-846-0	7758-97-6							
6		mercury { mercury dichloride }				0.1 mg/kg	1.353	0.12 mg/kg	0.000012 %	✓	
		080-010-00-X	231-299-8	7487-94-7							
7		nickel { nickel chromate }				24.8 mg/kg	2.976	65.494 mg/kg	0.00655 %	✓	
		028-035-00-7	238-766-5	14721-18-7							
8		selenium { nickel selenate }				1 mg/kg	2.554	2.266 mg/kg	0.000227 %	✓	
		028-031-00-5	239-125-2	15060-62-5							
9		zinc { zinc chromate }				87 mg/kg	2.774	214.153 mg/kg	0.0214 %	✓	
		024-007-00-3	236-878-9	13530-65-9							
10		TPH (C6 to C40) petroleum group				277 mg/kg		245.785 mg/kg	0.0246 %	✓	
				TPH							
11		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		603-181-00-X	216-653-1	1634-04-4							
12		benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		601-020-00-8	200-753-7	71-43-2							



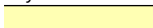
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
13	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
14	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
15	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
16	pH				6.86 pH		6.86 pH	6.86 pH		
			PH							
17	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
18	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8							
19	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
20	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7							
21	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8							
22	anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7							
23	fluoranthene				0.06 mg/kg		0.0532 mg/kg	0.00000532 %	✓	
		205-912-4	206-44-0							
24	pyrene				0.05 mg/kg		0.0444 mg/kg	0.00000444 %	✓	
		204-927-3	129-00-0							
25	benzo[a]anthracene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
26	chrysene				0.05 mg/kg		0.0444 mg/kg	0.00000444 %	✓	
	601-048-00-0	205-923-4	218-01-9							
27	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
28	benzo[k]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
29	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
30	indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-893-2	193-39-5							
31	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
32	benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-883-8	191-24-2							
33	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-019-00-X	200-547-7	62-73-7							
34	azinphos-ethyl (ISO); O,O-diethyl 4-oxobenzotriazin-3-ylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-056-00-1	220-147-6	2642-71-9							
35	azinphos-methyl (ISO); O,O-dimethyl-4-oxobenzotriazin-3-ylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-039-00-9	201-676-1	86-50-0							
36	carbophenothion (ISO); 4-chlorophenylthiomethyl O,O-diethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-044-00-6	212-324-1	786-19-6							
37	chlorfenvinphos (ISO); 2-chloro-1-(2,4 dichlorophenyl) vinyl diethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-071-00-3	207-432-0	470-90-6							
38	chlorpyrifos (ISO); O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-084-00-4	220-864-4	2921-88-2							



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
39	chlorpyrifos-methyl (ISO);, O, O-dimethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-186-00-9	227-011-5	5598-13-0							
40	diazinon (ISO); O,O-diethyl O-2-isopropyl-6-methylpyrimidin-4-yl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-040-00-4	206-373-8	333-41-5							
41	dimethoate (ISO); O,O-dimethyl methylcarbamoylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-051-00-4	200-480-3	60-51-5							
42	ethion (ISO); O,O,O',O'-tetraethyl S,S'-methylenedi (phosphorodithioate); diethion				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-047-00-2	209-242-3	563-12-2							
43	parathion (ISO); O,O-diethyl O-4-nitrophenyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-034-00-1	200-271-7	56-38-2							
44	etrimfos (ISO); O-6-ethoxy-2-ethylpyrimidin-4-yl O,O-dimethylphosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-122-00-X	253-855-9	38260-54-7							
45	fenitrothion (ISO); O,O-dimethyl O-4-nitro-m-tolyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-054-00-0	204-524-2	122-14-5							
46	fenthion (ISO); O,O-dimethyl-O-(4-methylthion-m-tolyl) phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-048-00-8	200-231-9	55-38-9							
47	malathion (ISO); 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate; [containing £ 0.03 % isomalathion]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-041-00-X	204-497-7	121-75-5							
48	parathion - methyl (ISO); O,O-dimethyl O-4-nitrophenyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-035-00-7	206-050-1	298-00-0							
49	mevinphos (ISO); 2-methoxycarbonyl-1-methylvinyl dimethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-020-00-5	232-095-1	7786-34-7							
50	phosalone (ISO); S-(6-chloro-2-oxobenzoxazolin-3-ylmethyl) O,O-diethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-067-00-1	218-996-2	2310-17-0							
51	pirimiphos-methyl (ISO); O-[2-(diethylamino)-6-methylpyrimidin-4-yl] O,O-dimethyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-134-00-5	249-528-5	29232-93-7							
52	trans-isopropyl-3-[[[(ethylamino)methoxyfosfinothioyl]oxy]crotonate; isopropyl 3-[[[(ethylamino)methoxyphosphinothioyl]oxy]isocrotonate; propetamphos (ISO)				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-136-00-6	250-517-2	31218-83-4							
53	triazophos (ISO); O,O-diethyl-O-1-phenyl-1H-1,2,4-triazol-3-yl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-140-00-8	245-986-5	24017-47-8							
54	disulfoton (ISO); O,O-diethyl 2-ethylthioethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-060-00-3	206-054-3	298-04-4							
Total:								0.0711 %		



Key

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

Classification of sample: TP114-08/06/2023-0.05m

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

Sample details

Sample name:	LoW Code:
TP114-08/06/2023-0.05m	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15.4% (dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 15.4% Dry Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number								
1		arsenic { arsenic trioxide }				10.9 mg/kg	1.32	12.471 mg/kg	0.00125 %	✓		
		033-003-00-0	215-481-4	1327-53-3								
2		cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD	
		048-002-00-0	215-146-2	1306-19-0								
3		chromium in chromium(VI) compounds { chromium (VI) compounds , with the exception of barium chromate and of compounds specified elsewhere in this Annex }				45.7 mg/kg	2.27	89.895 mg/kg	0.00899 %	✓		
		024-017-00-8										
4		copper { dicopper oxide ; copper (I) oxide }				18 mg/kg	1.126	17.562 mg/kg	0.00176 %	✓		
		029-002-00-X	215-270-7	1317-39-1								
5		lead { lead chromate }			1	47 mg/kg	1.56	63.528 mg/kg	0.00407 %	✓		
		082-004-00-2	231-846-0	7758-97-6								
6		mercury { mercury dichloride }				0.2 mg/kg	1.353	0.235 mg/kg	0.0000235 %	✓		
		080-010-00-X	231-299-8	7487-94-7								
7		nickel { nickel chromate }				24.9 mg/kg	2.976	64.219 mg/kg	0.00642 %	✓		
		028-035-00-7	238-766-5	14721-18-7								
8		selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD	
		028-031-00-5	239-125-2	15060-62-5								
9		zinc { zinc chromate }				94 mg/kg	2.774	225.97 mg/kg	0.0226 %	✓		
		024-007-00-3	236-878-9	13530-65-9								
10		TPH (C6 to C40) petroleum group				<52 mg/kg		<52 mg/kg	<0.0052 %		<LOD	
				TPH								
11		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD	
		603-181-00-X	216-653-1	1634-04-4								
12		benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD	
		601-020-00-8	200-753-7	71-43-2								
13		toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD	
		601-021-00-3	203-625-9	108-88-3								
14		ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD	
		601-023-00-4	202-849-4	100-41-4								
15		xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								



#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
16	pH		PH		6.55	pH		6.55	pH	6.55 pH		
17	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
18	acenaphthylene		205-917-1	208-96-8	<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19	acenaphthene		201-469-6	83-32-9	<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
20	fluorene		201-695-5	86-73-7	<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
21	phenanthrene		201-581-5	85-01-8	<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22	anthracene		204-371-1	120-12-7	<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
23	fluoranthene		205-912-4	206-44-0	0.06	mg/kg		0.052	mg/kg	0.0000052 %	✓	
24	pyrene		204-927-3	129-00-0	0.05	mg/kg		0.0433	mg/kg	0.00000433 %	✓	
25	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
26	chrysene	601-048-00-0	205-923-4	218-01-9	0.03	mg/kg		0.026	mg/kg	0.0000026 %	✓	
27	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
28	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
29	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
30	indeno[123-cd]pyrene		205-893-2	193-39-5	<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
31	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
32	benzo[ghi]perylene		205-883-8	191-24-2	<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
33	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate	015-019-00-X	200-547-7	62-73-7	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34	azinphos-ethyl (ISO); O,O-diethyl 4-oxobenzotriazin-3-ylmethyl phosphorodithioate	015-056-00-1	220-147-6	2642-71-9	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
35	azinphos-methyl (ISO); O,O-dimethyl-4-oxobenzotriazin-3-ylmethyl phosphorodithioate	015-039-00-9	201-676-1	86-50-0	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
36	carbophenothion (ISO); 4-chlorophenylthiomethyl O,O-diethyl phosphorodithioate	015-044-00-6	212-324-1	786-19-6	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
37	chlorfenvinphos (ISO); 2-chloro-1-(2,4 dichlorophenyl) vinyl diethyl phosphate	015-071-00-3	207-432-0	470-90-6	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
38	chlorpyrifos (ISO); O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate	015-084-00-4	220-864-4	2921-88-2	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
39	chlorpyrifos-methyl (ISO); O, O-dimethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate	015-186-00-9	227-011-5	5598-13-0	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
40	diazinon (ISO); O,O-diethyl O-2-isopropyl-6-methylpyrimidin-4-yl phosphorothioate	015-040-00-4	206-373-8	333-41-5	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
41	dimethoate (ISO); O,O-dimethyl methylcarbamoylmethyl phosphorodithioate	015-051-00-4	200-480-3	60-51-5	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
42	ethion (ISO); O,O,O',O'-tetraethyl S,S'-methylenedi (phosphorodithioate); diethion				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-047-00-2	209-242-3	563-12-2							
43	parathion (ISO); O,O-diethyl O-4-nitrophenyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-034-00-1	200-271-7	56-38-2							
44	etrimfos (ISO); O-6-ethoxy-2-ethylpyrimidin-4-yl O,O-dimethylphosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-122-00-X	253-855-9	38260-54-7							
45	fenitrothion (ISO); O,O-dimethyl O-4-nitro-m-tolyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-054-00-0	204-524-2	122-14-5							
46	fenthion (ISO); O,O-dimethyl-O-(4-methylthion-m-tolyl) phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-048-00-8	200-231-9	55-38-9							
47	malathion (ISO); 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate; [containing £ 0.03 % isomalathion]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-041-00-X	204-497-7	121-75-5							
48	parathion - methyl (ISO); O,O-dimethyl O-4-nitrophenyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-035-00-7	206-050-1	298-00-0							
49	mevinphos (ISO); 2-methoxycarbonyl-1-methylvinyl dimethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-020-00-5	232-095-1	7786-34-7							
50	phosalone (ISO); S-(6-chloro-2-oxobenzoxazolin-3-ylmethyl) O,O-diethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-067-00-1	218-996-2	2310-17-0							
51	pirimiphos-methyl (ISO); O-[2-(diethylamino)-6-methylpyrimidin-4-yl] O,O-dimethyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-134-00-5	249-528-5	29232-93-7							
52	trans-isopropyl-3-[[[(ethylamino)methoxyfosfinothioyl]oxy]crotonate; isopropyl 3-[[[(ethylamino)methoxyphosphinothioyl]oxy]isocrotonate; propetamphos (ISO)				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-136-00-6	250-517-2	31218-83-4							
53	triazophos (ISO); O,O-diethyl-O-1-phenyl-1H-1,2,4-triazol-3-yl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-140-00-8	245-986-5	24017-47-8							
54	disulfoton (ISO); O,O-diethyl 2-ethylthioethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-060-00-3	206-054-3	298-04-4							
Total:								0.0507 %		

Key

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

Classification of sample: TP116-08/06/2023-0.10m

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
TP116-08/06/2023-0.10m	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
58.1%	Entry:
(dry weight correction)	17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)

Hazard properties (substances considered hazardous until shown otherwise)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00879%)

Determinands

Moisture content: 58.1% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				9.3 mg/kg	1.32	7.767 mg/kg	0.000777 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				48.2 mg/kg	2.27	69.206 mg/kg	0.00692 %	✓	
	024-017-00-8									
4	copper { dicopper oxide; copper (I) oxide }				23 mg/kg	1.126	16.379 mg/kg	0.00164 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
5	lead { lead chromate }			1	48 mg/kg	1.56	47.357 mg/kg	0.00304 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
6	mercury { mercury dichloride }				0.1 mg/kg	1.353	0.0856 mg/kg	0.00000856 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
7	nickel { nickel chromate }				27.2 mg/kg	2.976	51.205 mg/kg	0.00512 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
8	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
9	zinc { zinc chromate }				107 mg/kg	2.774	187.751 mg/kg	0.0188 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
10	TPH (C6 to C40) petroleum group		TPH		139 mg/kg		87.919 mg/kg	0.00879 %	✓	
11	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
12	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							



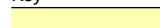
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
13	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
14	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
15	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
16	pH		PH		5.96 pH		5.96 pH	5.96 pH		
17	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
18	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8							
19	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
20	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7							
21	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8							
22	anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7							
23	fluoranthene				0.11 mg/kg		0.0696 mg/kg	0.00000696 %	✓	
		205-912-4	206-44-0							
24	pyrene				0.09 mg/kg		0.0569 mg/kg	0.00000569 %	✓	
		204-927-3	129-00-0							
25	benzo[a]anthracene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
26	chrysene				0.08 mg/kg		0.0506 mg/kg	0.00000506 %	✓	
	601-048-00-0	205-923-4	218-01-9							
27	benzo[b]fluoranthene				0.09 mg/kg		0.0569 mg/kg	0.00000569 %	✓	
	601-034-00-4	205-911-9	205-99-2							
28	benzo[k]fluoranthene				0.04 mg/kg		0.0253 mg/kg	0.00000253 %	✓	
	601-036-00-5	205-916-6	207-08-9							
29	benzo[a]pyrene; benzo[def]chrysene				0.08 mg/kg		0.0506 mg/kg	0.00000506 %	✓	
	601-032-00-3	200-028-5	50-32-8							
30	indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-893-2	193-39-5							
31	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
32	benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-883-8	191-24-2							
33	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-019-00-X	200-547-7	62-73-7							
34	azinphos-ethyl (ISO); O,O-diethyl 4-oxobenzotriazin-3-ylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-056-00-1	220-147-6	2642-71-9							
35	azinphos-methyl (ISO); O,O-dimethyl 4-oxobenzotriazin-3-ylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-039-00-9	201-676-1	86-50-0							
36	carbophenothion (ISO); 4-chlorophenylthiomethyl O,O-diethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-044-00-6	212-324-1	786-19-6							
37	chlorfenvinphos (ISO); 2-chloro-1-(2,4 dichlorophenyl) vinyl diethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-071-00-3	207-432-0	470-90-6							
38	chlorpyrifos (ISO); O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-084-00-4	220-864-4	2921-88-2							



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
39	chlorpyrifos-methyl (ISO);, O, O-dimethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-186-00-9	227-011-5	5598-13-0							
40	diazinon (ISO); O,O-diethyl O-2-isopropyl-6-methylpyrimidin-4-yl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-040-00-4	206-373-8	333-41-5							
41	dimethoate (ISO); O,O-dimethyl methylcarbamoylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-051-00-4	200-480-3	60-51-5							
42	ethion (ISO); O,O,O',O'-tetraethyl S,S'-methylenedi (phosphorodithioate); diethion				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-047-00-2	209-242-3	563-12-2							
43	parathion (ISO); O,O-diethyl O-4-nitrophenyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-034-00-1	200-271-7	56-38-2							
44	etrimfos (ISO); O-6-ethoxy-2-ethylpyrimidin-4-yl O,O-dimethylphosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-122-00-X	253-855-9	38260-54-7							
45	fenitrothion (ISO); O,O-dimethyl O-4-nitro-m-tolyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-054-00-0	204-524-2	122-14-5							
46	fenthion (ISO); O,O-dimethyl-O-(4-methylthion-m-tolyl) phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-048-00-8	200-231-9	55-38-9							
47	malathion (ISO); 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate; [containing £ 0.03 % isomalathion]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-041-00-X	204-497-7	121-75-5							
48	parathion - methyl (ISO); O,O-dimethyl O-4-nitrophenyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-035-00-7	206-050-1	298-00-0							
49	mevinphos (ISO); 2-methoxycarbonyl-1-methylvinyl dimethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-020-00-5	232-095-1	7786-34-7							
50	phosalone (ISO); S-(6-chloro-2-oxobenzoxazolin-3-ylmethyl) O,O-diethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-067-00-1	218-996-2	2310-17-0							
51	pirimiphos-methyl (ISO); O-[2-(diethylamino)-6-methylpyrimidin-4-yl] O,O-dimethyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-134-00-5	249-528-5	29232-93-7							
52	trans-isopropyl-3-[[[(ethylamino)methoxyfosfinothioyl]oxy]crotonate; isopropyl 3-[[[(ethylamino)methoxyphosphinothioyl]oxy]isocrotonate; propetamphos (ISO)				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-136-00-6	250-517-2	31218-83-4							
53	triazophos (ISO); O,O-diethyl-O-1-phenyl-1H-1,2,4-triazol-3-yl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-140-00-8	245-986-5	24017-47-8							
54	disulfoton (ISO); O,O-diethyl 2-ethylthioethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-060-00-3	206-054-3	298-04-4							
Total:								0.0454 %		



Key

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

Classification of sample: TP117-08/06/2023-0.20m

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
TP117-08/06/2023-0.20m	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
9.7%	Entry:
(dry weight correction)	17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)

Hazard properties (substances considered hazardous until shown otherwise)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0357%)

Determinands

Moisture content: 9.7% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				9.7	mg/kg	1.32	11.675	mg/kg	0.00117 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium oxide }				0.3	mg/kg	1.142	0.312	mg/kg	0.0000312 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
3	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				47.5	mg/kg	2.27	98.291	mg/kg	0.00983 %	✓	
	024-017-00-8											
4	copper { dicopper oxide; copper (I) oxide }				25	mg/kg	1.126	25.658	mg/kg	0.00257 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
5	lead { lead chromate }			1	104	mg/kg	1.56	147.877	mg/kg	0.00948 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
6	mercury { mercury dichloride }				0.2	mg/kg	1.353	0.247	mg/kg	0.0000247 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
7	nickel { nickel chromate }				26.7	mg/kg	2.976	72.44	mg/kg	0.00724 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
8	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
9	zinc { zinc chromate }				242	mg/kg	2.774	611.981	mg/kg	0.0612 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
10	TPH (C6 to C40) petroleum group		TPH		392	mg/kg		357.338	mg/kg	0.0357 %	✓	
11	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
12	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
13	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
14	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
15	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
16	pH		PH		8.08 pH		8.08 pH	8.08 pH		
17	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
18	acenaphthylene				0.11 mg/kg		0.1 mg/kg	0.00001 %	✓	
		205-917-1	208-96-8							
19	acenaphthene				0.21 mg/kg		0.191 mg/kg	0.0000191 %	✓	
		201-469-6	83-32-9							
20	fluorene				0.14 mg/kg		0.128 mg/kg	0.0000128 %	✓	
		201-695-5	86-73-7							
21	phenanthrene				2.18 mg/kg		1.987 mg/kg	0.000199 %	✓	
		201-581-5	85-01-8							
22	anthracene				0.78 mg/kg		0.711 mg/kg	0.0000711 %	✓	
		204-371-1	120-12-7							
23	fluoranthene				5.04 mg/kg		4.594 mg/kg	0.000459 %	✓	
		205-912-4	206-44-0							
24	pyrene				4.3 mg/kg		3.92 mg/kg	0.000392 %	✓	
		204-927-3	129-00-0							
25	benzo[a]anthracene				2.51 mg/kg		2.288 mg/kg	0.000229 %	✓	
	601-033-00-9	200-280-6	56-55-3							
26	chrysene				2.17 mg/kg		1.978 mg/kg	0.000198 %	✓	
	601-048-00-0	205-923-4	218-01-9							
27	benzo[b]fluoranthene				2.61 mg/kg		2.379 mg/kg	0.000238 %	✓	
	601-034-00-4	205-911-9	205-99-2							
28	benzo[k]fluoranthene				1.02 mg/kg		0.93 mg/kg	0.000093 %	✓	
	601-036-00-5	205-916-6	207-08-9							
29	benzo[a]pyrene; benzo[def]chrysene				2.28 mg/kg		2.078 mg/kg	0.000208 %	✓	
	601-032-00-3	200-028-5	50-32-8							
30	indeno[123-cd]pyrene				1.51 mg/kg		1.376 mg/kg	0.000138 %	✓	
		205-893-2	193-39-5							
31	dibenz[a,h]anthracene				0.27 mg/kg		0.246 mg/kg	0.0000246 %	✓	
	601-041-00-2	200-181-8	53-70-3							
32	benzo[ghi]perylene				1.43 mg/kg		1.304 mg/kg	0.00013 %	✓	
		205-883-8	191-24-2							
Total:								0.13 %		

Key

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

Classification of sample: TP117-08/06/2023-0.40m

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
TP117-08/06/2023-0.40m	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
109.6%	Entry:
(dry weight correction)	17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)

Hazard properties (substances considered hazardous until shown otherwise)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0234%)

HP 3(iv): Flammable "flammable gaseous waste: gaseous waste which is flammable in air at 20°C and a standard pressure of 101.3 kPa"

Hazard Statements hit:

Flam. Gas 1; H220 "Extremely flammable gas."

Because of determinand:

chloromethane; methyl chloride: (conc.: 8.11e-07%)

Determinands

Moisture content: 109.6% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				15.1	mg/kg	1.32	9.512	mg/kg	0.000951 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium oxide }				0.6	mg/kg	1.142	0.327	mg/kg	0.0000327 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
3	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				23.6	mg/kg	2.27	25.559	mg/kg	0.00256 %	✓	
	024-017-00-8											
4	copper { dicopper oxide; copper (I) oxide }				21	mg/kg	1.126	11.28	mg/kg	0.00113 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
5	lead { lead chromate }			1	53	mg/kg	1.56	39.442	mg/kg	0.00253 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
6	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
7	nickel { nickel chromate }				18.6	mg/kg	2.976	26.412	mg/kg	0.00264 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
8	selenium { nickel selenate }				2	mg/kg	2.554	2.437	mg/kg	0.000244 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
9	zinc { zinc chromate }				110	mg/kg	2.774	145.59	mg/kg	0.0146 %	✓	
	024-007-00-3	236-878-9	13530-65-9									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
10	TPH (C6 to C40) petroleum group				491 mg/kg		234.256 mg/kg		0.0234 %	✓	
			TPH								
11	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.002 mg/kg		<0.002 mg/kg		<0.0000002 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
12	benzene				<0.003 mg/kg		<0.003 mg/kg		<0.0000003 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
13	toluene				<0.003 mg/kg		<0.003 mg/kg		<0.0000003 %		<LOD
	601-021-00-3	203-625-9	108-88-3								
14	ethylbenzene				<0.003 mg/kg		<0.003 mg/kg		<0.0000003 %		<LOD
	601-023-00-4	202-849-4	100-41-4								
15	xylene				<0.011 mg/kg		<0.011 mg/kg		<0.0000011 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
16	pH				6.34 pH		6.34 pH		6.34 pH		
			PH								
17	naphthalene				<0.027 mg/kg		<0.027 mg/kg		<0.0000027 %		<LOD
	601-052-00-2	202-049-5	91-20-3								
18	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg		<0.000003 %		<LOD
		205-917-1	208-96-8								
19	acenaphthene				<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
		201-469-6	83-32-9								
20	fluorene				<0.04 mg/kg		<0.04 mg/kg		<0.000004 %		<LOD
		201-695-5	86-73-7								
21	phenanthrene				0.08 mg/kg		0.0382 mg/kg		0.00000382 %	✓	
		201-581-5	85-01-8								
22	anthracene				<0.04 mg/kg		<0.04 mg/kg		<0.000004 %		<LOD
		204-371-1	120-12-7								
23	fluoranthene				0.23 mg/kg		0.11 mg/kg		0.000011 %	✓	
		205-912-4	206-44-0								
24	pyrene				0.19 mg/kg		0.0906 mg/kg		0.00000906 %	✓	
		204-927-3	129-00-0								
25	benzo[a]anthracene				0.17 mg/kg		0.0811 mg/kg		0.00000811 %	✓	
	601-033-00-9	200-280-6	56-55-3								
26	chrysene				0.13 mg/kg		0.062 mg/kg		0.0000062 %	✓	
	601-048-00-0	205-923-4	218-01-9								
27	benzo[b]fluoranthene				0.17 mg/kg		0.0811 mg/kg		0.00000811 %	✓	
	601-034-00-4	205-911-9	205-99-2								
28	benzo[k]fluoranthene				0.06 mg/kg		0.0286 mg/kg		0.00000286 %	✓	
	601-036-00-5	205-916-6	207-08-9								
29	benzo[a]pyrene; benzo[def]chrysene				0.13 mg/kg		0.062 mg/kg		0.0000062 %	✓	
	601-032-00-3	200-028-5	50-32-8								
30	indeno[123-cd]pyrene				0.08 mg/kg		0.0382 mg/kg		0.00000382 %	✓	
		205-893-2	193-39-5								
31	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg		<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3								
32	benzo[ghi]perylene				0.08 mg/kg		0.0382 mg/kg		0.00000382 %	✓	
		205-883-8	191-24-2								
33	phenol				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	604-001-00-2	203-632-7	108-95-2								
34	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.007 mg/kg		<0.007 mg/kg		<0.0000007 %		<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3								
35	tetrachloroethylene				<0.003 mg/kg		<0.003 mg/kg		<0.0000003 %		<LOD
	602-028-00-4	204-825-9	127-18-4								
36	carbon tetrachloride; tetrachloromethane				<0.004 mg/kg		<0.004 mg/kg		<0.0000004 %		<LOD
	602-008-00-5	200-262-8	56-23-5								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
37	trichloroethylene; trichloroethene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
38	vinyl chloride; chloroethylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
39	hexachlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
40	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-019-00-X	200-547-7	62-73-7							
41	azinphos-ethyl (ISO); O,O-diethyl 4-oxobenzotriazin-3-ylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-056-00-1	220-147-6	2642-71-9							
42	azinphos-methyl (ISO); O,O-dimethyl-4-oxobenzotriazin-3-ylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-039-00-9	201-676-1	86-50-0							
43	carbophenothion (ISO); 4-chlorophenylthiomethyl O,O-diethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-044-00-6	212-324-1	786-19-6							
44	chlorfenvinphos (ISO); 2-chloro-1-(2,4 dichlorophenyl) vinyl diethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-071-00-3	207-432-0	470-90-6							
45	chlorpyrifos (ISO); O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-084-00-4	220-864-4	2921-88-2							
46	chlorpyrifos-methyl (ISO); O,O-dimethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-186-00-9	227-011-5	5598-13-0							
47	diazinon (ISO); O,O-diethyl O-2-isopropyl-6-methylpyrimidin-4-yl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-040-00-4	206-373-8	333-41-5							
48	dimethoate (ISO); O,O-dimethyl methylcarbamoylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-051-00-4	200-480-3	60-51-5							
49	ethion (ISO); O,O,O',O'-tetraethyl S,S'-methylenedi (phosphorodithioate); diethion				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-047-00-2	209-242-3	563-12-2							
50	parathion (ISO); O,O-diethyl O-4-nitrophenyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-034-00-1	200-271-7	56-38-2							
51	etrimfos (ISO); O-6-ethoxy-2-ethylpyrimidin-4-yl O,O-dimethylphosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-122-00-X	253-855-9	38260-54-7							
52	fenitrothion (ISO); O,O-dimethyl O-4-nitro-m-tolyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-054-00-0	204-524-2	122-14-5							
53	fenthion (ISO); O,O-dimethyl-O-(4-methylthion-m-tolyl) phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-048-00-8	200-231-9	55-38-9							
54	malathion (ISO); 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate; [containing £ 0.03 % isomalathion]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-041-00-X	204-497-7	121-75-5							
55	parathion - methyl (ISO); O,O-dimethyl O-4-nitrophenyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-035-00-7	206-050-1	298-00-0							
56	mevinphos (ISO); 2-methoxycarbonyl-1-methylvinyl dimethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-020-00-5	232-095-1	7786-34-7							
57	phosalone (ISO); S-(6-chloro-2-oxobenzoxazolin-3-ylmethyl) O,O-diethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-067-00-1	218-996-2	2310-17-0							



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
58	pirimiphos-methyl (ISO); O-[2-(diethylamino)-6-methylpyrimidin-4-yl] O,O-dimethyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-134-00-5	249-528-5	29232-93-7							
59	trans-isopropyl-3- [[[(ethylamino)methoxyfosfinothioyl]oxy]crotonate; isopropyl 3- [[[(ethylamino)methoxyphosphinothioyl]oxy]isocrotonate; propetamphos (ISO)				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-136-00-6	250-517-2	81218-83-4							
60	triazophos (ISO); O,O-diethyl-O-1-phenyl-1H-1,2,4-triazol-3-yl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-140-00-8	245-986-5	24017-47-8							
61	disulfoton (ISO); O,O-diethyl 2-ethylthioethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-060-00-3	206-054-3	298-04-4							
62	dichlorodifluoromethane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
		200-893-9	75-71-8							
63	chloromethane; methyl chloride				0.017 mg/kg		0.0081 mg/kg	0.000000811 %	✓	
	602-001-00-7	200-817-4	74-87-3							
64	bromomethane; methylbromide				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-002-00-2	200-813-2	74-83-9							
65	chloroethane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	602-009-00-0	200-830-5	75-00-3							
66	trichlorofluoromethane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
		200-892-3	75-69-4							
67	1,1-dichloroethylene; vinylidene chloride				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
	602-025-00-8	200-864-0	75-35-4							
68	dichloromethane; methylene chloride				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
	602-004-00-3	200-838-9	75-09-2							
69	2,2-dichloropropane				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
		209-832-0	594-20-7							
70	bromochloromethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		200-826-3	74-97-5							
71	chloroform; trichloromethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-006-00-4	200-663-8	67-66-3							
72	1,1,1-trichloroethane; methyl chloroform				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
73	1,1-dichloropropene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
74	1,2-dichloropropane; propylene dichloride				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
75	dibromomethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-003-00-8	200-824-2	74-95-3							
76	bromodichloromethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		200-856-7	75-27-4							
77	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]							
78	trans-1,3-dichloropropene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		431-460-4	10061-02-6							
79	1,1,2-trichloroethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
80	1,3-dichloropropane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		205-531-3	142-28-9							
81	dibromochloromethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		204-704-0	124-48-1							
82	1,2-dibromoethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-010-00-6	203-444-5	106-93-4							



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
83	chlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-033-00-1	203-628-5	108-90-7							
84	1,1,1,2-tetrachloroethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		211-135-1	630-20-6							
85	bromoform; tribromomethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-007-00-X	200-854-6	75-25-2							
86	1,1,2,2-tetrachloroethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
87	bromobenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	602-060-00-9	203-623-8	108-86-1							
88	1,2,3-trichloropropane				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
89	mesitylene; 1,3,5-trimethylbenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	601-025-00-5	203-604-4	108-67-8							
90	tert-butylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		202-632-4	98-06-6							
91	1,2,4-trimethylbenzene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
92	sec-butylbenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
		205-227-0	135-98-8							
93	4-isopropyltoluene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
		202-796-7	99-87-6							
94	1,3-dichlorobenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-067-00-7	208-792-1	541-73-1							
95	1,4-dichlorobenzene; p-dichlorobenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
96	n-butylbenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
		203-209-7	104-51-8							
97	1,2-dichlorobenzene; o-dichlorobenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
98	1,2-dibromo-3-chloropropane				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
99	1,2,4-trichlorobenzene				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
100	hexachlorobutadiene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
		201-765-5	87-68-3							
101	1,2,3-trichlorobenzene				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
		201-757-1	87-61-6							
102	styrene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	601-026-00-0	202-851-5	100-42-5							
103	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]							
104	2-nitrophenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-857-5	88-75-5							
105	2,4-dichlorophenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	604-011-00-7	204-429-6	120-83-2							
106	3,4-xlenol; [1] 2,5-xlenol; [2] 2,4-xlenol; [3] 2,3-xlenol; [4] 2,6-xlenol; [5] xlenol; [6] 2,4(or 2,5)-xlenol [7]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
107	2,4,5-trichlorophenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	604-017-00-X	202-467-8	95-95-4							



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
108	2,4,6-trichlorophenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	604-018-00-5	201-795-9	88-06-2							
109	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	604-014-00-3	200-431-6	59-50-7							
110	4-nitrophenol; p-nitrophenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	609-015-00-2	202-811-7	100-02-7							
111	pentachlorophenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	604-002-00-8	201-778-6	87-86-5							
112	2-chloronaphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		202-079-9	91-58-7							
113	2-methyl naphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		202-078-3	91-57-6							
114	bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	607-317-00-9	204-211-0	117-81-7							
115	BBP; benzyl butyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	607-430-00-3	201-622-7	85-68-7							
116	dibutyl phthalate; DBP				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	607-318-00-4	201-557-4	84-74-2							
117	di-n-octyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-214-7	117-84-0							
118	diethyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-550-6	84-66-2							
119	dimethyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-011-6	131-11-3							
120	2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]							
121	2,6-dinitrotoluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	609-049-00-8	210-106-0	606-20-2							
122	4-bromophenylphenylether				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		202-952-4	101-55-3							
123	4-chloroaniline				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	612-137-00-9	203-401-0	106-47-8							
124	4-chlorophenylphenylether				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		230-281-7	7005-72-3							
125	azobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	611-001-00-6	203-102-5	103-33-3							
126	bis(2-chloroethoxy)methane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		203-920-2	111-91-1							
127	bis(2-chloroethyl) ether				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-029-00-2	203-870-1	111-44-4							
128	carbazole				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-696-0	86-74-8							
129	dibenzofuran				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-071-3	132-64-9							
130	hexachlorocyclopentadiene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-078-00-7	201-029-3	77-47-4							
131	hexachloroethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		200-666-4	67-72-1							
132	3,5,5-trimethylcyclohex-2-enone; isophorone				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	606-012-00-8	201-126-0	78-59-1							
133	nitrosodipropylamine				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	612-098-00-8	210-698-0	621-64-7							
134	nitrobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	609-003-00-7	202-716-0	98-95-3							

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
135	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD	
	602-026-00-3	208-750-2 [1]	540-59-0 [1]								
		205-859-7 [2]	156-59-2 [2]								
		205-860-2 [3]	156-60-5 [3]								
136	cumene; [1] propylbenzene [2]				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD	
	601-024-00-X	202-704-5 [1]	98-82-8 [1]								
		203-132-9 [2]	103-65-1 [2]								
137	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD	
	602-040-00-X	202-424-3 [1]	95-49-8 [1]								
		203-580-5 [2]	108-41-8 [2]								
		203-397-0 [3]	106-43-4 [3]								
		246-698-2 [4]	25168-05-2 [4]								
138	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD	
	604-004-00-9	203-577-9 [1]	108-39-4 [1]								
		202-423-8 [2]	95-48-7 [2]								
		203-398-6 [3]	106-44-5 [3]								
		215-293-2 [4]	1319-77-3 [4]								
139	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
	612-012-00-9	201-855-4 [1]	88-74-4 [1]								
		202-729-1 [2]	99-09-2 [2]								
		202-810-1 [3]	100-01-6 [3]								
Total:								0.0483 %			

Key

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

Classification of sample: TP118-08/06/2023-1.00m

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
TP118-08/06/2023-1.00m	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
150%	Entry:
(dry weight correction)	17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)

Hazard properties (substances considered hazardous until shown otherwise)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0179%)

Determinands

Moisture content: 150% Dry Weight Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number					
1	TPH (C6 to C40) petroleum group							
			TPH		448 mg/kg	179.2 mg/kg	0.0179 %	✓
2	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg	<0.005 mg/kg	<0.000005 %	<LOD
	603-181-00-X	216-653-1	1634-04-4					
3	benzene				<0.005 mg/kg	<0.005 mg/kg	<0.000005 %	<LOD
	601-020-00-8	200-753-7	71-43-2					
4	toluene				<0.005 mg/kg	<0.005 mg/kg	<0.000005 %	<LOD
	601-021-00-3	203-625-9	108-88-3					
5	ethylbenzene				<0.005 mg/kg	<0.005 mg/kg	<0.000005 %	<LOD
	601-023-00-4	202-849-4	100-41-4					
6	xylene				<0.01 mg/kg	<0.01 mg/kg	<0.000001 %	<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]					
7	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.01 mg/kg	<0.01 mg/kg	<0.000001 %	<LOD
	015-019-00-X	200-547-7	62-73-7					
8	azinphos-ethyl (ISO); O,O-diethyl 4-oxobenzotriazin-3-ylmethyl phosphorodithioate				<0.01 mg/kg	<0.01 mg/kg	<0.000001 %	<LOD
	015-056-00-1	220-147-6	2642-71-9					
9	azinphos-methyl (ISO); O,O-dimethyl 4-oxobenzotriazin-3-ylmethyl phosphorodithioate				<0.01 mg/kg	<0.01 mg/kg	<0.000001 %	<LOD
	015-039-00-9	201-676-1	86-50-0					
10	carbophenothion (ISO); 4-chlorophenylthiomethyl O,O-diethyl phosphorodithioate				<0.01 mg/kg	<0.01 mg/kg	<0.000001 %	<LOD
	015-044-00-6	212-324-1	786-19-6					



#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
11	chlorfenvinphos (ISO); 2-chloro-1-(2,4 dichlorophenyl) vinyl diethyl phosphate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-071-00-3	207-432-0	470-90-6										
12	chlorpyrifos (ISO); O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-084-00-4	220-864-4	2921-88-2										
13	chlorpyrifos-methyl (ISO); O, O-dimethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-186-00-9	227-011-5	5598-13-0										
14	diazinon (ISO); O,O-diethyl O-2-isopropyl-6-methylpyrimidin-4-yl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-040-00-4	206-373-8	333-41-5										
15	dimethoate (ISO); O,O-dimethyl methylcarbamoylmethyl phosphorodithioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-051-00-4	200-480-3	60-51-5										
16	ethion (ISO); O,O,O',O'-tetraethyl S,S'-methylenedi (phosphorodithioate); diethion				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-047-00-2	209-242-3	563-12-2										
17	parathion (ISO); O,O-diethyl O-4-nitrophenyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-034-00-1	200-271-7	56-38-2										
18	etrimfos (ISO); O-6-ethoxy-2-ethylpyrimidin-4-yl O,O-dimethylphosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-122-00-X	253-855-9	38260-54-7										
19	fenitrothion (ISO); O,O-dimethyl O-4-nitro-m-tolyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-054-00-0	204-524-2	122-14-5										
20	fenthion (ISO); O,O-dimethyl-O-(4-methylthion-m-tolyl) phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-048-00-8	200-231-9	55-38-9										
21	malathion (ISO); 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate; [containing £ 0.03 % isomalathion]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-041-00-X	204-497-7	121-75-5										
22	parathion - methyl (ISO); O,O-dimethyl O-4-nitrophenyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-035-00-7	206-050-1	298-00-0										
23	mevinphos (ISO); 2-methoxycarbonyl-1-methylvinyl dimethyl phosphate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-020-00-5	232-095-1	7786-34-7										
24	phosalone (ISO); S-(6-chloro-2-oxobenzoxazolin-3-ylmethyl) O,O-diethyl phosphorodithioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-067-00-1	218-996-2	2310-17-0										
25	pirimiphos-methyl (ISO); O-[2-(diethylamino)-6-methylpyrimidin-4-yl] O,O-dimethyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-134-00-5	249-528-5	29232-93-7										
26	trans-isopropyl-3-[[[(ethylamino)methoxyfosfinothioyl]oxy]crotonate; isopropyl 3-[[[(ethylamino)methoxyphosphinothioyl]oxy]isocrotonate; propetamphos (ISO)				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-136-00-6	250-517-2	31218-83-4										
27	triazophos (ISO); O,O-diethyl-O-1-phenyl-1H-1,2,4-triazol-3-yl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-140-00-8	245-986-5	24017-47-8										
28	disulfoton (ISO); O,O-diethyl 2-ethylthioethyl phosphorodithioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-060-00-3	206-054-3	298-04-4										
Total:											0.0179 %		



Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Potentially Hazardous result
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection

Classification of sample: TP118-08/06/2023-1.70m

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
TP118-08/06/2023-1.70m	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
159.3%	Entry:
(dry weight correction)	17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)

Hazard properties (substances considered hazardous until shown otherwise)

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

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinand:

toluene: (conc.: 3.86e-07%)

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0227%)

HP 3(iv): Flammable "flammable gaseous waste: gaseous waste which is flammable in air at 20°C and a standard pressure of 101.3 kPa"

Hazard Statements hit:

Flam. Gas 1; H220 "Extremely flammable gas."

Because of determinand:

chloromethane; methyl chloride: (conc.: 5.01e-07%)

Determinands

Moisture content: 159.3% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				16.1	mg/kg	1.32	8.198	mg/kg	0.00082 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium oxide }				0.5	mg/kg	1.142	0.22	mg/kg	0.000022 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
3	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				48.8	mg/kg	2.27	42.721	mg/kg	0.00427 %	✓	
	024-017-00-8											
4	copper { dicopper oxide; copper (I) oxide }				21	mg/kg	1.126	9.118	mg/kg	0.000912 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
5	lead { lead chromate }			1	52	mg/kg	1.56	31.281	mg/kg	0.00201 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
6	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
7	nickel { nickel chromate }				35	mg/kg	2.976	40.173	mg/kg	0.00402 %	✓	
	028-035-00-7	238-766-5	14721-18-7									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
8	selenium { nickel selenate }				1 mg/kg	2.554	0.985 mg/kg	0.0000985 %	✓	
	028-031-00-5	239-125-2	15060-62-5							
9	zinc { zinc chromate }				163 mg/kg	2.774	174.387 mg/kg	0.0174 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
10	TPH (C6 to C40) petroleum group				589 mg/kg		227.15 mg/kg	0.0227 %	✓	
			TPH							
11	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
12	benzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
13	toluene				0.01 mg/kg		0.0038 mg/kg	0.000000386 %	✓	
	601-021-00-3	203-625-9	108-88-3							
14	ethylbenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
15	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
16	pH				7.19 pH		7.19 pH	7.19 pH		
			PH							
17	naphthalene				<0.027 mg/kg		<0.027 mg/kg	<0.0000027 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
18	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8							
19	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
20	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7							
21	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8							
22	anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7							
23	fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-912-4	206-44-0							
24	pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		204-927-3	129-00-0							
25	benzo[a]anthracene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
26	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
27	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
28	benzo[k]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
29	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
30	indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-893-2	193-39-5							
31	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
32	benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-883-8	191-24-2							
33	phenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
34	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3							



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
35	tetrachloroethylene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-028-00-4	204-825-9	127-18-4							
36	carbon tetrachloride; tetrachloromethane				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
37	trichloroethylene; trichloroethene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
38	vinyl chloride; chloroethylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
39	hexachlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
40	dichlorodifluoromethane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
		200-893-9	75-71-8							
41	chloromethane; methyl chloride				0.013 mg/kg		0.005 mg/kg	0.000000501 %	✓	
	602-001-00-7	200-817-4	74-87-3							
42	bromomethane; methylbromide				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-002-00-2	200-813-2	74-83-9							
43	chloroethane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	602-009-00-0	200-830-5	75-00-3							
44	trichlorofluoromethane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
		200-892-3	75-69-4							
45	1,1-dichloroethylene; vinylidene chloride				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
	602-025-00-8	200-864-0	75-35-4							
46	dichloromethane; methylene chloride				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
	602-004-00-3	200-838-9	75-09-2							
47	2,2-dichloropropane				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
		209-832-0	594-20-7							
48	bromochloromethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		200-826-3	74-97-5							
49	chloroform; trichloromethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-006-00-4	200-663-8	67-66-3							
50	1,1,1-trichloroethane; methyl chloroform				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
51	1,1-dichloropropene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
52	1,2-dichloropropane; propylene dichloride				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
53	dibromomethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-003-00-8	200-824-2	74-95-3							
54	bromodichloromethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		200-856-7	75-27-4							
55	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]							
56	trans-1,3-dichloropropene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		431-460-4	10061-02-6							
57	1,1,2-trichloroethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
58	1,3-dichloropropane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		205-531-3	142-28-9							
59	dibromochloromethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		204-704-0	124-48-1							
60	1,2-dibromoethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
61	chlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-033-00-1	203-628-5	108-90-7							
62	1,1,1,2-tetrachloroethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		211-135-1	630-20-6							
63	bromoform; tribromomethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-007-00-X	200-854-6	75-25-2							



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
64	1,1,2,2-tetrachloroethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
65	bromobenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	602-060-00-9	203-623-8	108-86-1							
66	1,2,3-trichloropropane				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
67	mesitylene; 1,3,5-trimethylbenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	601-025-00-5	203-604-4	108-67-8							
68	tert-butylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		202-632-4	98-06-6							
69	1,2,4-trimethylbenzene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
70	sec-butylbenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
		205-227-0	135-98-8							
71	4-isopropyltoluene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
		202-796-7	99-87-6							
72	1,3-dichlorobenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-067-00-7	208-792-1	541-73-1							
73	1,4-dichlorobenzene; p-dichlorobenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
74	n-butylbenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
		203-209-7	104-51-8							
75	1,2-dichlorobenzene; o-dichlorobenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
76	1,2-dibromo-3-chloropropane				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
77	1,2,4-trichlorobenzene				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
78	hexachlorobutadiene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
		201-765-5	87-68-3							
79	1,2,3-trichlorobenzene				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
		201-757-1	87-61-6							
80	styrene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	601-026-00-0	202-851-5	100-42-5							
81	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]							
82	2-nitrophenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-857-5	88-75-5							
83	2,4-dichlorophenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	604-011-00-7	204-429-6	120-83-2							
84	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [7]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
85	2,4,5-trichlorophenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	604-017-00-X	202-467-8	95-95-4							
86	2,4,6-trichlorophenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	604-018-00-5	201-795-9	88-06-2							
87	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	604-014-00-3	200-431-6	59-50-7							



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
88	4-nitrophenol; p-nitrophenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	609-015-00-2	202-811-7	100-02-7							
89	pentachlorophenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	604-002-00-8	201-778-6	87-86-5							
90	2-chloronaphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		202-079-9	91-58-7							
91	2-methyl naphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		202-078-3	91-57-6							
92	bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	607-317-00-9	204-211-0	117-81-7							
93	BBP; benzyl butyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	607-430-00-3	201-622-7	85-68-7							
94	dibutyl phthalate; DBP				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	607-318-00-4	201-557-4	84-74-2							
95	di-n-octyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-214-7	117-84-0							
96	diethyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-550-6	84-66-2							
97	dimethyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-011-6	131-11-3							
98	2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	609-007-00-9	204-450-0 [1]	121-14-2 [1]							
		246-836-1 [2]	25321-14-6 [2]							
99	2,6-dinitrotoluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	609-049-00-8	210-106-0	606-20-2							
100	4-bromophenylphenylether				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		202-952-4	101-55-3							
101	4-chloroaniline				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	612-137-00-9	203-401-0	106-47-8							
102	4-chlorophenylphenylether				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		230-281-7	7005-72-3							
103	azobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	611-001-00-6	203-102-5	103-33-3							
104	bis(2-chloroethoxy)methane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		203-920-2	111-91-1							
105	bis(2-chloroethyl) ether				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-029-00-2	203-870-1	111-44-4							
106	carbazole				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-696-0	86-74-8							
107	dibenzofuran				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-071-3	132-64-9							
108	hexachlorocyclopentadiene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-078-00-7	201-029-3	77-47-4							
109	hexachloroethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		200-666-4	67-72-1							
110	3,5,5-trimethylcyclohex-2-enone; isophorone				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	606-012-00-8	201-126-0	78-59-1							
111	nitrosodipropylamine				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	612-098-00-8	210-698-0	621-64-7							
112	nitrobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	609-003-00-7	202-716-0	98-95-3							
113	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
	602-026-00-3	208-750-2 [1]	540-59-0 [1]							
		205-859-7 [2]	156-59-2 [2]							
		205-860-2 [3]	156-60-5 [3]							
114	cumene; [1] propylbenzene [2]				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
	601-024-00-X	202-704-5 [1]	98-82-8 [1]							
		203-132-9 [2]	103-65-1 [2]							



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
115	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]							
116	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
117	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]							
Total:								0.0525 %		

Key

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

Appendix A: Classifier defined and non GB MCL determinands

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

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

ethylbenzene (EC Number: 202-849-4, CAS Number: 100-41-4)

GB MCL index number: 601-023-00-4

Description/Comments:

Additional Hazard Statement(s): Carc. 2; H351

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

pH (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

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

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H330 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

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

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Aquatic Chronic 2; H411

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

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

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

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21 Aug 2015

Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21 Aug 2015

Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

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

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

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

■ **1,1-dichloroethane and 1,2-dichloroethane (combined)** (EC Number: 203-458-1, 200-863-5, CAS Number: 107-06-2, 75-34-3)

Description/Comments: Combines the hazard statements and risk phrases for 1,1-dichloroethane and 1,2-dichloroethane
Data source: N/A
Data source date: 14 Oct 2016
Hazard Statements: Flam. Liq. 2; H225 , Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 1B; H350 , Aquatic Chronic 3; H412

■ **dichlorodifluoromethane** (EC Number: 200-893-9, CAS Number: 75-71-8)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Aquatic Chronic 3; H412 , Ozone 1; H420 , Press. Gas; H280

■ **trichlorofluoromethane** (EC Number: 200-892-3, CAS Number: 75-69-4)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H312 , Ozone 1; H420

■ **2,2-dichloropropane** (EC Number: 209-832-0, CAS Number: 594-20-7)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H332 , Flam. Liq. 2; H225 , Acute Tox. 4; H302 , Acute Tox. 4; H312 , Eye Irrit. 2; H319

■ **bromochloromethane** (EC Number: 200-826-3, CAS Number: 74-97-5)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H312 , Skin Corr. 1B; H314 , Eye Dam. 1; H318 , Acute Tox. 4; H332 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Ozone 1; H420

■ **bromodichloromethane** (EC Number: 200-856-7, CAS Number: 75-27-4)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 1A; H360

■ **trans-1,3-dichloropropene** (EC Number: 431-460-4, CAS Number: 10061-02-6)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Flam. Liq. 3; H226 , Acute Tox. 3; H301 , Asp. Tox. 1; H304 , Acute Tox. 3; H311 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , Aquatic Chronic 1; H410

■ **1,3-dichloropropane** (EC Number: 205-531-3, CAS Number: 142-28-9)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H332 , Flam. Liq. 2; H225 , Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335

▪ **dibromochloromethane** (EC Number: 204-704-0, CAS Number: 124-48-1)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 3;

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , STOT SE 3; H336 , Muta. 2; H341 , Aquatic Chronic 2; H411

▪ **1,1,1,2-tetrachloroethane** (EC Number: 211-135-1, CAS Number: 630-20-6)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , Eye Dam. 1; H318 , Acute Tox. 4; H332 , Carc. 2; H351 , Acute Tox. 4; H312 , Aquatic Chronic 3; H412 , Skin Irrit. 2; H315

▪ **tert-butylbenzene** (EC Number: 202-632-4, CAS Number: 98-06-6)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , Acute Tox. 4; H332 , STOT SE 3; H335 , Asp. Tox. 1; H304 , Aquatic Chronic 2; H411

▪ **sec-butylbenzene** (EC Number: 205-227-0, CAS Number: 135-98-8)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Aquatic Chronic 2; H411

▪ **4-isopropyltoluene** (EC Number: 202-796-7, CAS Number: 99-87-6)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Chronic 2; H411

▪ **n-butylbenzene** (EC Number: 203-209-7, CAS Number: 104-51-8)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **hexachlorobutadiene** (EC Number: 201-765-5, CAS Number: 87-68-3)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 3;

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 3; H301 , Acute Tox. 2; H310 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Irrit. 2; H319 , Acute Tox. 2; H330 , Carc. 2; H351 , Repr. 2; H361 , STOT SE 2; H371 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **1,2,3-trichlorobenzene** (EC Number: 201-757-1, CAS Number: 87-61-6)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , STOT SE 3; H336 , Aquatic Acute 1; H400 , Aquatic Chronic 3; H410

▪ **2-nitrophenol** (EC Number: 201-857-5, CAS Number: 88-75-5)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , STOT RE 2; H373 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **2-chloronaphthalene** (EC Number: 202-079-9, CAS Number: 91-58-7)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

■ **2-methyl naphthalene** (EC Number: 202-078-3, CAS Number: 91-57-6)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , STOT SE 3; H336 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **di-n-octyl phthalate** (EC Number: 204-214-7, CAS Number: 117-84-0)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Repr. 2; H361 , Skin Sens. 1; H317 , Resp. Sens. 1; H334 , Eye Irrit. 2; H319 , Aquatic Chronic 4; H413

■ **diethyl phthalate** (EC Number: 201-550-6, CAS Number: 84-66-2)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Skin Irrit. 2; H315 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , STOT SE 3; H335 , STOT RE 2; H373 , Repr. 2; H361 , Acute Tox. 4; H302 , STOT SE 3; H336 , Skin Sens. 1; H317 , Aquatic Chronic 1; H410

■ **dimethyl phthalate** (EC Number: 205-011-6, CAS Number: 131-11-3)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , STOT SE 3; H335 , STOT SE 3; H336 , Repr. 2; H361 , Aquatic Chronic 3; H412

■ **4-bromophenylphenylether** (EC Number: 202-952-4, CAS Number: 101-55-3)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **4-chlorophenylphenylether** (EC Number: 230-281-7, CAS Number: 7005-72-3)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **bis(2-chloroethoxy)methane** (EC Number: 203-920-2, CAS Number: 111-91-1)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 3; H301 , Acute Tox. 4; H312 , Acute Tox. 1; H330 , Acute Tox. 2; H330 , STOT SE 1; H370 , STOT RE 2; H373

■ **carbazole** (EC Number: 201-696-0, CAS Number: 86-74-8)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Muta. 2; H341 , Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , Acute Tox. 3; H301

■ **dibenzofuran** (EC Number: 205-071-3, CAS Number: 132-64-9)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Acute Tox. 4; H332 , Aquatic Chronic 2; H411

■ **hexachloroethane** (EC Number: 200-666-4, CAS Number: 67-72-1)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , STOT RE 2; H373

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

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

cadmium {cadmium oxide}

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

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

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

copper {dicopper oxide; copper (I) oxide}

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

lead {lead chromate}

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

mercury {mercury dichloride}

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

nickel {nickel chromate}

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

selenium {nickel selenate}

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

zinc {zinc chromate}

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

Appendix C: Version

HazWasteOnline Classification Engine: **WM3 1st Edition v1.2.GB - Oct 2021**

HazWasteOnline Classification Engine Version: 2023.178.5649.10417 (27 Jun 2023)

HazWasteOnline Database: 2023.178.5649.10417 (27 Jun 2023)

This classification utilises the following guidance and legislation:

WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021

CLP Regulation - Regulation 1272/2008/EC of 16 December 2008

1st ATP - Regulation 790/2009/EC of 10 August 2009

2nd ATP - Regulation 286/2011/EC of 10 March 2011

3rd ATP - Regulation 618/2012/EU of 10 July 2012

4th ATP - Regulation 487/2013/EU of 8 May 2013

Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013

5th ATP - Regulation 944/2013/EU of 2 October 2013

6th ATP - Regulation 605/2014/EU of 5 June 2014

WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014

Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014

7th ATP - Regulation 2015/1221/EU of 24 July 2015

8th ATP - Regulation (EU) 2016/918 of 19 May 2016

9th ATP - Regulation (EU) 2016/1179 of 19 July 2016

10th ATP - Regulation (EU) 2017/776 of 4 May 2017

HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017

13th ATP - Regulation (EU) 2018/1480 of 4 October 2018

14th ATP - Regulation (EU) 2020/217 of 4 October 2019

15th ATP - Regulation (EU) 2020/1182 of 19 May 2020

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit)

Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020

The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020

GB MCL List - version 1.1 of 09 June 2021



Waste Classification Report

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

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



A904N-GI5UR-XB66B

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

Job name

EMT-23-9034-Batch-3-202306201507

Description/Comments

Project

TE1750

Site

Bryn Lane Detailed Planning

Classified by

Name:

Adrian Read

Date:

13 Jul 2023 08:57 GMT

Telephone:

01925 818388

Company:

Tier Environmental

Suite 414

Chadwick House

Warrington

WA3 6AE

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

HazWasteOnline™ Certification:

CERTIFIED

Course

Hazardous Waste Classification

Date

03 Dec 2020

Next 3 year Refresher due by Dec 2023

Purpose of classification

2 - Material Characterisation

Address of the waste

Bryn lane Wrexham

Post Code LL13 9UT

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

Bryn lane Wrexham

Description of the specific process, sub-process and/or activity that created the waste

Bryn lane Wrexham

Description of the waste

Bryn lane Wrexham



Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	TP120-09/06/2023-0.30m		Non Hazardous		3
2	TP121-09/06/2023-0.40m		Non Hazardous		5
3	TP121-09/06/2023-1.00m		Non Hazardous		7

Related documents

#	Name	Description
1	EMT-23-9034-Batch-3-202306201507.HWOL	Element .hwol file used to populate the Job
2	Example waste stream template for contaminated soils	waste stream template used to create this Job

Report

Created by: Adrian Read

Created date: 13 Jul 2023 08:57 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	9
Appendix B: Rationale for selection of metal species	10
Appendix C: Version	10

Classification of sample: TP120-09/06/2023-0.30m

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

Sample details

Sample name:	LoW Code:
TP120-09/06/2023-0.30m	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
13.5%	Entry:
(dry weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13.5% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				10.8	mg/kg	1.32	12.563	mg/kg	0.00126 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium oxide }				<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
3	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				48.9	mg/kg	2.27	97.8	mg/kg	0.00978 %	✓	
	024-017-00-8											
4	copper { dicopper oxide; copper (I) oxide }				20	mg/kg	1.126	19.839	mg/kg	0.00198 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
5	lead { lead chromate }			1	49	mg/kg	1.56	67.34	mg/kg	0.00432 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
6	mercury { mercury dichloride }				0.1	mg/kg	1.353	0.119	mg/kg	0.0000119 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
7	nickel { nickel chromate }				31.2	mg/kg	2.976	81.815	mg/kg	0.00818 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
8	selenium { nickel selenate }				2	mg/kg	2.554	4.5	mg/kg	0.00045 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
9	zinc { zinc chromate }				98	mg/kg	2.774	239.53	mg/kg	0.024 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
10	TPH (C6 to C40) petroleum group				<52	mg/kg		<52	mg/kg	<0.0052 %		<LOD
			TPH									
11	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
12	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
13	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
14	ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
15	xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	● pH		PH		8.02 pH		8.02 pH	8.02 pH		
17	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
18	● acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8							
19	● acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
20	● fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7							
21	● phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8							
22	● anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7							
23	● fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-912-4	206-44-0							
24	● pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		204-927-3	129-00-0							
25	benzo[a]anthracene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
26	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
27	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
28	benzo[k]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
29	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
30	● indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-893-2	193-39-5							
31	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
32	● benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-883-8	191-24-2							
Total:								0.0552 %		

Key

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

Classification of sample: TP121-09/06/2023-0.40m

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

Sample details

Sample name:	LoW Code:
TP121-09/06/2023-0.40m	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
13.8%	Entry:
(dry weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13.8% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-019-00-X	200-547-7	62-73-7							
2	azinphos-ethyl (ISO); O,O-diethyl 4-oxobenzotriazin-3-ylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-056-00-1	220-147-6	2642-71-9							
3	azinphos-methyl (ISO); O,O-dimethyl-4-oxobenzotriazin-3-ylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-039-00-9	201-676-1	86-50-0							
4	carbophenothion (ISO); 4-chlorophenylthiomethyl O,O-diethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-044-00-6	212-324-1	786-19-6							
5	chlorfenvinphos (ISO); 2-chloro-1-(2,4 dichlorophenyl) vinyl diethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-071-00-3	207-432-0	470-90-6							
6	chlorpyrifos (ISO); O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-084-00-4	220-864-4	2921-88-2							
7	chlorpyrifos-methyl (ISO); O, O-dimethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-186-00-9	227-011-5	5598-13-0							
8	diazinon (ISO); O,O-diethyl O-2-isopropyl-6-methylpyrimidin-4-yl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-040-00-4	206-373-8	333-41-5							
9	dimethoate (ISO); O,O-dimethyl methylcarbamoylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-051-00-4	200-480-3	60-51-5							
10	ethion (ISO); O,O,O',O'-tetraethyl S,S'-methylenedi (phosphorodithioate); diethion				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-047-00-2	209-242-3	563-12-2							
11	parathion (ISO); O,O-diethyl O-4-nitrophenyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-034-00-1	200-271-7	56-38-2							
12	etrimfos (ISO); O-6-ethoxy-2-ethylpyrimidin-4-yl O,O-dimethylphosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-122-00-X	253-855-9	38260-54-7							



#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value		MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number										
13	fenitrothion (ISO); O,O-dimethyl O-4-nitro-m-tolyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-054-00-0	204-524-2	122-14-5										
14	fenthion (ISO); O,O-dimethyl-O-(4-methylthion-m-tolyl) phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-048-00-8	200-231-9	55-38-9										
15	malathion (ISO); 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate; [containing £ 0.03 % isomalathion]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-041-00-X	204-497-7	121-75-5										
16	parathion - methyl (ISO); O,O-dimethyl O-4-nitrophenyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-035-00-7	206-050-1	298-00-0										
17	mevinphos (ISO); 2-methoxycarbonyl-1-methylvinyl dimethyl phosphate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-020-00-5	232-095-1	7786-34-7										
18	phosalone (ISO); S-(6-chloro-2-oxobenzoxazolin-3-ylmethyl) O,O-diethyl phosphorodithioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-067-00-1	218-996-2	2310-17-0										
19	pirimiphos-methyl (ISO); O-[2-(diethylamino)-6-methylpyrimidin-4-yl] O,O-dimethyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-134-00-5	249-528-5	29232-93-7										
20	trans-isopropyl-3-[[[(ethylamino)methoxyfosfinothioyl]oxy]crotonate; isopropyl 3-[[[(ethylamino)methoxyphosphinothioyl]oxy]isocrotonate; propetamphos (ISO)				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-136-00-6	250-517-2	31218-83-4										
21	triazophos (ISO); O,O-diethyl-O-1-phenyl-1H-1,2,4-triazol-3-yl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-140-00-8	245-986-5	24017-47-8										
22	disulfoton (ISO); O,O-diethyl 2-ethylthioethyl phosphorodithioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
	015-060-00-3	206-054-3	298-04-4										
Total:										0.00002 %			

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
<LOD	Below limit of detection

Classification of sample: TP121-09/06/2023-1.00m

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

Sample details

Sample name:	LoW Code:
TP121-09/06/2023-1.00m	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
13.8%	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
(dry weight correction)	Entry:

Hazard properties

None identified

Determinands

Moisture content: 13.8% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				11.4	mg/kg	1.32	13.226	mg/kg	0.00132 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium oxide }				<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
3	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				49.2	mg/kg	2.27	98.141	mg/kg	0.00981 %	✓	
	024-017-00-8											
4	copper { dicopper oxide; copper (I) oxide }				25	mg/kg	1.126	24.734	mg/kg	0.00247 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
5	lead { lead chromate }			1	14	mg/kg	1.56	19.189	mg/kg	0.00123 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
6	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
7	nickel { nickel chromate }				44.4	mg/kg	2.976	116.121	mg/kg	0.0116 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
8	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
9	zinc { zinc chromate }				76	mg/kg	2.774	185.268	mg/kg	0.0185 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
10	pH				8.54	pH		8.54	pH	8.54 pH		
11	naphthalene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
12	acenaphthylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8									
13	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
14	fluorene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7									
15	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
16	anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7									
17	fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-912-4	206-44-0									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
18	pyrene	204-927-3	129-00-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
19	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
20	chrysene	601-048-00-0	205-923-4	218-01-9	<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
21	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
23	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
24	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
25	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
26	benzo[ghi]perylene	205-883-8	191-24-2		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
Total:								0.0453 %		

Key

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

Appendix A: Classifier defined and non GB MCL determinands

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

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: Flam. Liq. 3; H226, Asp. Tox. 1; H304, STOT RE 2; H373, Muta. 1B; H340, Carc. 1B; H350, Repr. 2; H361d, Aquatic Chronic 2; H411

• **ethylbenzene** (EC Number: 202-849-4, CAS Number: 100-41-4)

GB MCL index number: 601-023-00-4

Description/Comments:

Additional Hazard Statement(s): Carc. 2; H351

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

• **pH** (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

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

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4; H302, Acute Tox. 1; H330, Acute Tox. 1; H310, Eye Irrit. 2; H319, STOT SE 3; H335, Skin Irrit. 2; H315

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

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319, STOT SE 3; H335, Skin Irrit. 2; H315, Aquatic Acute 1; H400, Aquatic Chronic 1; H410, Aquatic Chronic 2; H411

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

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Aquatic Acute 1; H400, Aquatic Chronic 1; H410

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

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Acute Tox. 4; H302, Eye Irrit. 2; H319, STOT SE 3; H335, Carc. 2; H351, Skin Sens. 1; H317, Aquatic Acute 1; H400, Aquatic Chronic 1; H410, Skin Irrit. 2; H315

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

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319, STOT SE 3; H335, Skin Irrit. 2; H315, Skin Sens. 1; H317, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

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

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21 Aug 2015

Hazard Statements: Acute Tox. 4; H302, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

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

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21 Aug 2015

Hazard Statements: Skin Irrit. 2; H315, Eye Irrit. 2; H319, STOT SE 3; H335, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

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

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

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

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

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

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

cadmium {cadmium oxide}

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

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

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

copper {dicopper oxide; copper (I) oxide}

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

lead {lead chromate}

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

mercury {mercury dichloride}

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

nickel {nickel chromate}

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

selenium {nickel selenate}

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

zinc {zinc chromate}

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

Appendix C: Version

HazWasteOnline Classification Engine: **WM3 1st Edition v1.2.GB - Oct 2021**
HazWasteOnline Classification Engine Version: 2023.193.5680.10456 (12 Jul 2023)
HazWasteOnline Database: 2023.193.5680.10456 (12 Jul 2023)



This classification utilises the following guidance and legislation:

WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021

CLP Regulation - Regulation 1272/2008/EC of 16 December 2008

1st ATP - Regulation 790/2009/EC of 10 August 2009

2nd ATP - Regulation 286/2011/EC of 10 March 2011

3rd ATP - Regulation 618/2012/EU of 10 July 2012

4th ATP - Regulation 487/2013/EU of 8 May 2013

Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013

5th ATP - Regulation 944/2013/EU of 2 October 2013

6th ATP - Regulation 605/2014/EU of 5 June 2014

WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014

Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014

7th ATP - Regulation 2015/1221/EU of 24 July 2015

8th ATP - Regulation (EU) 2016/918 of 19 May 2016

9th ATP - Regulation (EU) 2016/1179 of 19 July 2016

10th ATP - Regulation (EU) 2017/776 of 4 May 2017

HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017

13th ATP - Regulation (EU) 2018/1480 of 4 October 2018

14th ATP - Regulation (EU) 2020/217 of 4 October 2019

15th ATP - Regulation (EU) 2020/1182 of 19 May 2020

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit)

Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020

The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK:

2020 No. 1540 of 16th December 2020

GB MCL List - version 1.1 of 09 June 2021



Waste Classification Report

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

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



SS8H3-Y9YG4-TVV8Z

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

Job name

EMT-23-9034-Batch-5-202306301304

Description/Comments

Project

TE1750

Site

Bryn Lane, Wrexham Detailed Planning

Classified by

Name: **Adrian Read**
Date: **03 Jul 2023 08:55 GMT**
Telephone: **01925 818388**

Company: **Tier Environmental**
Suite 414
Chadwick House
Warrington
WA3 6AE

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

HazWasteOnline™ Certification:**CERTIFIED****Course**

Hazardous Waste Classification

Date

03 Dec 2020

Next 3 year Refresher due by Dec 2023

Purpose of classification

2 - Material Characterisation

Address of the waste

Bryn Lane Wrexham

Post Code **LL13 9XW**

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

Proposed redevelopment of land

Description of the specific process, sub-process and/or activity that created the waste

Waste created during excavation of soils during development

Description of the waste

Made ground and/or natural soils



Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	HDP101-20/06/2023-0.30m		Non Hazardous		3
2	HDP102-20/06/2023-0.10m		Potentially Hazardous	HP 3(i)	6
3	HDP103-20/06/2023-0.30m		Non Hazardous		8
4	HDP103-20/06/2023-1.20m		Potentially Hazardous	HP 3(i)	11
5	HDP104-20/06/2023-0.60m		Non Hazardous		14
6	HDP106-20/06/2023-0.15m		Potentially Hazardous	HP 3(i)	16
7	HDP107-20/06/2023-0.30m		Non Hazardous		20

Related documents

#	Name	Description
1	EMT-23-9034-Batch-5-202306301304.HWOL	Element .hwol file used to populate the Job
2	Example waste stream template for contaminated soils	waste stream template used to create this Job

Report

Created by: Adrian Read

Created date: 03 Jul 2023 08:55 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	22
Appendix B: Rationale for selection of metal species	23
Appendix C: Version	23

Classification of sample: HDP101-20/06/2023-0.30m

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

Sample details

Sample name:	LoW Code:
HDP101-20/06/2023-0.30m	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
5.4% (dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 5.4% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				6.7	mg/kg	1.32	8.393	mg/kg	0.000839 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium oxide }				<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
3	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				52.1	mg/kg	2.27	112.208	mg/kg	0.0112 %	✓	
	024-017-00-8											
4	copper { dicopper oxide; copper (I) oxide }				20	mg/kg	1.126	21.364	mg/kg	0.00214 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
5	lead { lead chromate }			1	35	mg/kg	1.56	51.797	mg/kg	0.00332 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
6	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
7	nickel { nickel chromate }				26.1	mg/kg	2.976	73.701	mg/kg	0.00737 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
8	selenium { nickel selenate }				2	mg/kg	2.554	4.846	mg/kg	0.000485 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
9	zinc { zinc chromate }				95	mg/kg	2.774	250.042	mg/kg	0.025 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
10	pH				7.7	pH		7.7	pH	7.7 pH		
11	naphthalene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
12	acenaphthylene				0.07	mg/kg		0.0664	mg/kg	0.00000664 %	✓	
		205-917-1	208-96-8									
13	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
14	fluorene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7									
15	phenanthrene				0.33	mg/kg		0.313	mg/kg	0.0000313 %	✓	
		201-581-5	85-01-8									
16	anthracene				0.17	mg/kg		0.161	mg/kg	0.0000161 %	✓	
		204-371-1	120-12-7									
17	fluoranthene				0.95	mg/kg		0.901	mg/kg	0.0000901 %	✓	
		205-912-4	206-44-0									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
18	pyrene	204-927-3	129-00-0		0.89 mg/kg		0.844 mg/kg	0.0000844 %	✓	
19	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.53 mg/kg		0.503 mg/kg	0.0000503 %	✓	
20	chrysene	601-048-00-0	205-923-4	218-01-9	0.6 mg/kg		0.569 mg/kg	0.0000569 %	✓	
21	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	0.97 mg/kg		0.92 mg/kg	0.000092 %	✓	
22	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.38 mg/kg		0.361 mg/kg	0.0000361 %	✓	
23	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.87 mg/kg		0.825 mg/kg	0.0000825 %	✓	
24	indeno[123-cd]pyrene	205-893-2	193-39-5		0.64 mg/kg		0.607 mg/kg	0.0000607 %	✓	
25	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	0.18 mg/kg		0.171 mg/kg	0.0000171 %	✓	
26	benzo[ghi]perylene	205-883-8	191-24-2		0.65 mg/kg		0.617 mg/kg	0.0000617 %	✓	
27	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate	015-019-00-X	200-547-7	62-73-7	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
28	azinphos-ethyl (ISO); O,O-diethyl 4-oxobenzotriazin-3-ylmethyl phosphorodithioate	015-056-00-1	220-147-6	2642-71-9	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
29	azinphos-methyl (ISO); O,O-dimethyl 4-oxobenzotriazin-3-ylmethyl phosphorodithioate	015-039-00-9	201-676-1	86-50-0	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
30	carbophenothion (ISO); 4-chlorophenylthiomethyl O,O-diethyl phosphorodithioate	015-044-00-6	212-324-1	786-19-6	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
31	chlorfenvinphos (ISO); 2-chloro-1-(2,4 dichlorophenyl) vinyl diethyl phosphate	015-071-00-3	207-432-0	470-90-6	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
32	chlorpyrifos (ISO); O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate	015-084-00-4	220-864-4	2921-88-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
33	chlorpyrifos-methyl (ISO); O, O-dimethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate	015-186-00-9	227-011-5	5598-13-0	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
34	diazinon (ISO); O,O-diethyl O-2-isopropyl-6-methylpyrimidin-4-yl phosphorothioate	015-040-00-4	206-373-8	333-41-5	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
35	dimethoate (ISO); O,O-dimethyl methylcarbamoylmethyl phosphorodithioate	015-051-00-4	200-480-3	60-51-5	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
36	ethion (ISO); O,O,O',O'-tetraethyl S,S'-methylenedi (phosphorodithioate); diethion	015-047-00-2	209-242-3	563-12-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
37	parathion (ISO); O,O-diethyl O-4-nitrophenyl phosphorothioate	015-034-00-1	200-271-7	56-38-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
38	etrimfos (ISO); O-6-ethoxy-2-ethylpyrimidin-4-yl O,O-dimethylphosphorothioate	015-122-00-X	253-855-9	38260-54-7	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
39	fenitrothion (ISO); O,O-dimethyl O-4-nitro-m-tolyl phosphorothioate	015-054-00-0	204-524-2	122-14-5	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
40	fenthion (ISO); O,O-dimethyl-O-(4-methylthion-m-tolyl) phosphorothioate	015-048-00-8	200-231-9	55-38-9	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
41	malathion (ISO); 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate; [containing £ 0.03 % isomalathion]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-041-00-X	204-497-7	121-75-5							
42	parathion - methyl (ISO); O,O-dimethyl O-4-nitrophenyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-035-00-7	206-050-1	298-00-0							
43	mevinphos (ISO); 2-methoxycarbonyl-1-methylvinyl dimethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-020-00-5	232-095-1	7786-34-7							
44	phosalone (ISO); S-(6-chloro-2-oxobenzoxazolin-3-ylmethyl) O,O-diethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-067-00-1	218-996-2	2310-17-0							
45	pirimiphos-methyl (ISO); O-[2-(diethylamino)-6-methylpyrimidin-4-yl] O,O-dimethyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-134-00-5	249-528-5	29232-93-7							
46	trans-isopropyl-3-[[[(ethylamino)methoxyfosfinothioyl]oxy]crotonate; isopropyl 3-[[[(ethylamino)methoxyphosphinothioyl]oxy]isocrotonate; propetamphos (ISO)				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-136-00-6	250-517-2	31218-83-4							
47	triazophos (ISO); O,O-diethyl-O-1-phenyl-1H-1,2,4-triazol-3-yl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-140-00-8	245-986-5	24017-47-8							
48	disulfoton (ISO); O,O-diethyl 2-ethylthioethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-060-00-3	206-054-3	298-04-4							
Total:								0.0511 %		

Key

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

Classification of sample: HDP102-20/06/2023-0.10m

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
HDP102-20/06/2023-0.10m	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
19.3%	Entry:
(dry weight correction)	17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)

Hazard properties (substances considered hazardous until shown otherwise)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00914%)

Determinands

Moisture content: 19.3% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				8.3 mg/kg	1.32	9.186 mg/kg	0.000919 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				41 mg/kg	2.27	78.013 mg/kg	0.0078 %	✓	
	024-017-00-8									
4	copper { dicopper oxide; copper (I) oxide }				22 mg/kg	1.126	20.762 mg/kg	0.00208 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
5	lead { lead chromate }			1	67 mg/kg	1.56	87.601 mg/kg	0.00562 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
6	mercury { mercury dichloride }				0.1 mg/kg	1.353	0.113 mg/kg	0.0000113 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
7	nickel { nickel chromate }				19.1 mg/kg	2.976	47.65 mg/kg	0.00477 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
8	selenium { nickel selenate }				1 mg/kg	2.554	2.141 mg/kg	0.000214 %	✓	
	028-031-00-5	239-125-2	15060-62-5							
9	zinc { zinc chromate }				112 mg/kg	2.774	260.44 mg/kg	0.026 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
10	TPH (C6 to C40) petroleum group		TPH		109 mg/kg		91.366 mg/kg	0.00914 %	✓	
11	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
12	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
13	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
14	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
15	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
16	pH				8.01 pH		8.01 pH	8.01 pH		
			PH							
17	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
18	acenaphthylene				0.25 mg/kg		0.21 mg/kg	0.000021 %	✓	
		205-917-1	208-96-8							
19	acenaphthene				0.61 mg/kg		0.511 mg/kg	0.0000511 %	✓	
		201-469-6	83-32-9							
20	fluorene				0.38 mg/kg		0.319 mg/kg	0.0000319 %	✓	
		201-695-5	86-73-7							
21	phenanthrene				4.94 mg/kg		4.141 mg/kg	0.000414 %	✓	
		201-581-5	85-01-8							
22	anthracene				1.03 mg/kg		0.863 mg/kg	0.0000863 %	✓	
		204-371-1	120-12-7							
23	fluoranthene				6.12 mg/kg		5.13 mg/kg	0.000513 %	✓	
		205-912-4	206-44-0							
24	pyrene				5.13 mg/kg		4.3 mg/kg	0.00043 %	✓	
		204-927-3	129-00-0							
25	benzo[a]anthracene				2.33 mg/kg		1.953 mg/kg	0.000195 %	✓	
	601-033-00-9	200-280-6	56-55-3							
26	chrysene				2.29 mg/kg		1.92 mg/kg	0.000192 %	✓	
	601-048-00-0	205-923-4	218-01-9							
27	benzo[b]fluoranthene				2.81 mg/kg		2.355 mg/kg	0.000236 %	✓	
	601-034-00-4	205-911-9	205-99-2							
28	benzo[k]fluoranthene				1.09 mg/kg		0.914 mg/kg	0.0000914 %	✓	
	601-036-00-5	205-916-6	207-08-9							
29	benzo[a]pyrene; benzo[def]chrysene				2.31 mg/kg		1.936 mg/kg	0.000194 %	✓	
	601-032-00-3	200-028-5	50-32-8							
30	indeno[123-cd]pyrene				1.63 mg/kg		1.366 mg/kg	0.000137 %	✓	
		205-893-2	193-39-5							
31	dibenz[a,h]anthracene				0.32 mg/kg		0.268 mg/kg	0.0000268 %	✓	
	601-041-00-2	200-181-8	53-70-3							
32	benzo[ghi]perylene				1.57 mg/kg		1.316 mg/kg	0.000132 %	✓	
		205-883-8	191-24-2							
Total:								0.0594 %		

Key

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

Classification of sample: HDP103-20/06/2023-0.30m

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

Sample details

Sample name:	LoW Code:
HDP103-20/06/2023-0.30m	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
21.8% (dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 21.8% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				11.3	mg/kg	1.32	12.249	mg/kg	0.00122 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium oxide }				<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
3	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				55.6	mg/kg	2.27	103.622	mg/kg	0.0104 %	✓	
	024-017-00-8											
4	copper { dicopper oxide; copper (I) oxide }				22	mg/kg	1.126	20.336	mg/kg	0.00203 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
5	lead { lead chromate }			1	20	mg/kg	1.56	25.613	mg/kg	0.00164 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
6	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
7	nickel { nickel chromate }				45	mg/kg	2.976	109.961	mg/kg	0.011 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
8	selenium { nickel selenate }				2	mg/kg	2.554	4.193	mg/kg	0.000419 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
9	zinc { zinc chromate }				79	mg/kg	2.774	179.932	mg/kg	0.018 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
10	TPH (C6 to C40) petroleum group				<52	mg/kg		<52	mg/kg	<0.0052 %		<LOD
			TPH									
11	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
12	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
13	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
14	ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
15	xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									



#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
16	pH		PH		8.13	pH		8.13	pH	8.13 pH		
17	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
18	acenaphthylene		205-917-1	208-96-8	<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19	acenaphthene		201-469-6	83-32-9	<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
20	fluorene		201-695-5	86-73-7	<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
21	phenanthrene		201-581-5	85-01-8	<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22	anthracene		204-371-1	120-12-7	<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
23	fluoranthene		205-912-4	206-44-0	<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
24	pyrene		204-927-3	129-00-0	<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
25	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
26	chrysene	601-048-00-0	205-923-4	218-01-9	<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
27	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
28	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
29	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
30	indeno[123-cd]pyrene		205-893-2	193-39-5	<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
31	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
32	benzo[ghi]perylene		205-883-8	191-24-2	<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
33	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate	015-019-00-X	200-547-7	62-73-7	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34	azinphos-ethyl (ISO); O,O-diethyl 4-oxobenzotriazin-3-ylmethyl phosphorodithioate	015-056-00-1	220-147-6	2642-71-9	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
35	azinphos-methyl (ISO); O,O-dimethyl-4-oxobenzotriazin-3-ylmethyl phosphorodithioate	015-039-00-9	201-676-1	86-50-0	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
36	carbophenothion (ISO); 4-chlorophenylthiomethyl O,O-diethyl phosphorodithioate	015-044-00-6	212-324-1	786-19-6	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
37	chlorfenvinphos (ISO); 2-chloro-1-(2,4 dichlorophenyl) vinyl diethyl phosphate	015-071-00-3	207-432-0	470-90-6	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
38	chlorpyrifos (ISO); O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate	015-084-00-4	220-864-4	2921-88-2	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
39	chlorpyrifos-methyl (ISO); O, O-dimethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate	015-186-00-9	227-011-5	5598-13-0	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
40	diazinon (ISO); O,O-diethyl O-2-isopropyl-6-methylpyrimidin-4-yl phosphorothioate	015-040-00-4	206-373-8	333-41-5	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
41	dimethoate (ISO); O,O-dimethyl methylcarbamoylmethyl phosphorodithioate	015-051-00-4	200-480-3	60-51-5	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
42	ethion (ISO); O,O,O',O'-tetraethyl S,S'-methylenedi (phosphorodithioate); diethion				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-047-00-2	209-242-3	563-12-2							
43	parathion (ISO); O,O-diethyl O-4-nitrophenyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-034-00-1	200-271-7	56-38-2							
44	etrimfos (ISO); O-6-ethoxy-2-ethylpyrimidin-4-yl O,O-dimethylphosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-122-00-X	253-855-9	38260-54-7							
45	fenitrothion (ISO); O,O-dimethyl O-4-nitro-m-tolyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-054-00-0	204-524-2	122-14-5							
46	fenthion (ISO); O,O-dimethyl-O-(4-methylthion-m-tolyl) phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-048-00-8	200-231-9	55-38-9							
47	malathion (ISO); 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate; [containing £ 0.03 % isomalathion]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-041-00-X	204-497-7	121-75-5							
48	parathion - methyl (ISO); O,O-dimethyl O-4-nitrophenyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-035-00-7	206-050-1	298-00-0							
49	mevinphos (ISO); 2-methoxycarbonyl-1-methylvinyl dimethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-020-00-5	232-095-1	7786-34-7							
50	phosalone (ISO); S-(6-chloro-2-oxobenzoxazolin-3-ylmethyl) O,O-diethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-067-00-1	218-996-2	2310-17-0							
51	pirimiphos-methyl (ISO); O-[2-(diethylamino)-6-methylpyrimidin-4-yl] O,O-dimethyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-134-00-5	249-528-5	29232-93-7							
52	trans-isopropyl-3-[[[(ethylamino)methoxyfosfinothioyl]oxy]crotonate; isopropyl 3-[[[(ethylamino)methoxyphosphinothioyl]oxy]isocrotonate; propetamphos (ISO)				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-136-00-6	250-517-2	31218-83-4							
53	triazophos (ISO); O,O-diethyl-O-1-phenyl-1H-1,2,4-triazol-3-yl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-140-00-8	245-986-5	24017-47-8							
54	disulfoton (ISO); O,O-diethyl 2-ethylthioethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-060-00-3	206-054-3	298-04-4							
Total:								0.05 %		

Key

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

Classification of sample: HDP103-20/06/2023-1.20m

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
HDP103-20/06/2023-1.20m	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
85.6%	Entry:
(dry weight correction)	17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)

Hazard properties (substances considered hazardous until shown otherwise)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00442%)

Determinands

Moisture content: 85.6% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				12.5 mg/kg	1.32	8.892 mg/kg	0.000889 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				40.5 mg/kg	2.27	49.534 mg/kg	0.00495 %	✓	
	024-017-00-8									
4	copper { dicopper oxide; copper (I) oxide }				26 mg/kg	1.126	15.772 mg/kg	0.00158 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
5	lead { lead chromate }			1	70 mg/kg	1.56	58.829 mg/kg	0.00377 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
6	mercury { mercury dichloride }				0.1 mg/kg	1.353	0.0729 mg/kg	0.00000729 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
7	nickel { nickel chromate }				33.2 mg/kg	2.976	53.239 mg/kg	0.00532 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
8	selenium { nickel selenate }				2 mg/kg	2.554	2.752 mg/kg	0.000275 %	✓	
	028-031-00-5	239-125-2	15060-62-5							
9	zinc { zinc chromate }				115 mg/kg	2.774	171.889 mg/kg	0.0172 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
10	TPH (C6 to C40) petroleum group		TPH		82 mg/kg		44.181 mg/kg	0.00442 %	✓	
11	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
12	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
13	toluene 601-021-00-3	203-625-9	108-88-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
14	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
15	xylene 601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
16	pH PH				6.94 pH		6.94 pH	6.94 pH		
17	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
18	acenaphthylene 205-917-1	208-96-8			<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
19	acenaphthene 201-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
20	fluorene 201-695-5	86-73-7			<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
21	phenanthrene 201-581-5	85-01-8			<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
22	anthracene 204-371-1	120-12-7			<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
23	fluoranthene 205-912-4	206-44-0			<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
24	pyrene 204-927-3	129-00-0			<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
25	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
26	chrysene 601-048-00-0	205-923-4	218-01-9		0.06 mg/kg		0.0323 mg/kg	0.00000323 %	✓	
27	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.23 mg/kg		0.124 mg/kg	0.0000124 %	✓	
28	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.09 mg/kg		0.0485 mg/kg	0.00000485 %	✓	
29	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.26 mg/kg		0.14 mg/kg	0.000014 %	✓	
30	indeno[123-cd]pyrene 205-893-2	193-39-5			0.33 mg/kg		0.178 mg/kg	0.0000178 %	✓	
31	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
32	benzo[ghi]perylene 205-883-8	191-24-2			0.32 mg/kg		0.172 mg/kg	0.0000172 %	✓	
33	ethylene dinitrate; ethylene glycol dinitrate 603-032-00-9	211-063-0	628-96-6		<		<	<		ND
34	N-methyl-N-2,4,6-tetranitroaniline; tetryl 612-017-00-6	207-531-9	479-45-8		<		<	<		ND
35	glycerol trinitrate; nitroglycerine 603-034-00-X	200-240-8	55-63-0		<		<	<		ND
36	2,4,6-trinitrotoluene; TNT 609-008-00-4	204-289-6	118-96-7		<		<	<		ND
37	2,6-dinitrotoluene 609-049-00-8	210-106-0	606-20-2		<		<	<		ND
38	2,4-dinitrotoluene; [1] dinitrotoluene [2] 609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]		<		<	<		ND
39	pentaerythritol tetranitrate; pentaerythrite tetranitrate; P.E.T.N. 603-035-00-5	201-084-3	78-11-5		<		<	<		ND



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
40	2,4,6-trinitrophenol; picric acid				<		<	<		ND
	609-009-00-X	201-865-9	88-89-1							
Total:								0.0385 %		

Key

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

Classification of sample: HDP104-20/06/2023-0.60m

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

Sample details

Sample name:	LoW Code:
HDP104-20/06/2023-0.60m	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
16.4% (dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 16.4% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	015-019-00-X	200-547-7	62-73-7								
2	azinphos-ethyl (ISO); O,O-diethyl 4-oxobenzotriazin-3-ylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	015-056-00-1	220-147-6	2642-71-9								
3	azinphos-methyl (ISO); O,O-dimethyl-4-oxobenzotriazin-3-ylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	015-039-00-9	201-676-1	86-50-0								
4	carbophenothion (ISO); 4-chlorophenylthiomethyl O,O-diethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	015-044-00-6	212-324-1	786-19-6								
5	chlorfenvinphos (ISO); 2-chloro-1-(2,4 dichlorophenyl) vinyl diethyl phosphate				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	015-071-00-3	207-432-0	470-90-6								
6	chlorpyrifos (ISO); O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	015-084-00-4	220-864-4	2921-88-2								
7	chlorpyrifos-methyl (ISO); O, O-dimethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	015-186-00-9	227-011-5	5598-13-0								
8	diazinon (ISO); O,O-diethyl O-2-isopropyl-6-methylpyrimidin-4-yl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	015-040-00-4	206-373-8	333-41-5								
9	dimethoate (ISO); O,O-dimethyl methylcarbamoylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	015-051-00-4	200-480-3	60-51-5								
10	ethion (ISO); O,O,O',O'-tetraethyl S,S'-methylenedi (phosphorodithioate); diethion				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	015-047-00-2	209-242-3	563-12-2								
11	parathion (ISO); O,O-diethyl O-4-nitrophenyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	015-034-00-1	200-271-7	56-38-2								
12	etrimfos (ISO); O-6-ethoxy-2-ethylpyrimidin-4-yl O,O-dimethylphosphorothioate				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	015-122-00-X	253-855-9	38260-54-7								



#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13	fenitrothion (ISO); O,O-dimethyl O-4-nitro-m-tolyl phosphorothioate					<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	015-054-00-0	204-524-2	122-14-5										
14	fenthion (ISO); O,O-dimethyl-O-(4-methylthion-m-tolyl) phosphorothioate					<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	015-048-00-8	200-231-9	55-38-9										
15	malathion (ISO); 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate; [containing £ 0.03 % isomalathion]					<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	015-041-00-X	204-497-7	121-75-5										
16	parathion - methyl (ISO); O,O-dimethyl O-4-nitrophenyl phosphorothioate					<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	015-035-00-7	206-050-1	298-00-0										
17	mevinphos (ISO); 2-methoxycarbonyl-1-methylvinyl dimethyl phosphate					<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	015-020-00-5	232-095-1	7786-34-7										
18	phosalone (ISO); S-(6-chloro-2-oxobenzoxazolin-3-ylmethyl) O,O-diethyl phosphorodithioate					<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	015-067-00-1	218-996-2	2310-17-0										
19	pirimiphos-methyl (ISO); O-[2-(diethylamino)-6-methylpyrimidin-4-yl] O,O-dimethyl phosphorothioate					<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	015-134-00-5	249-528-5	29232-93-7										
20	trans-isopropyl-3-[[[(ethylamino)methoxyfosfinothioyl]oxy]crotonate; isopropyl 3-[[[(ethylamino)methoxyphosphinothioyl]oxy]isocrotonate; propetamphos (ISO)					<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	015-136-00-6	250-517-2	31218-83-4										
21	triazophos (ISO); O,O-diethyl-O-1-phenyl-1H-1,2,4-triazol-3-yl phosphorothioate					<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	015-140-00-8	245-986-5	24017-47-8										
22	disulfoton (ISO); O,O-diethyl 2-ethylthioethyl phosphorodithioate					<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	015-060-00-3	206-054-3	298-04-4										
Total:											0.00002 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
<LOD	Below limit of detection

Classification of sample: HDP106-20/06/2023-0.15m

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
HDP106-20/06/2023-0.15m	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
22.2%	Entry:
(dry weight correction)	17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)

Hazard properties (substances considered hazardous until shown otherwise)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00687%)

Determinands

Moisture content: 22.2% Dry Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1		arsenic { arsenic trioxide }				12.5 mg/kg	1.32	13.506 mg/kg	0.00135 %	✓	
		033-003-00-0	215-481-4	1327-53-3							
2		cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD
		048-002-00-0	215-146-2	1306-19-0							
3		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				50 mg/kg	2.27	92.881 mg/kg	0.00929 %	✓	
		024-017-00-8									
4		copper { dicopper oxide; copper (I) oxide }				23 mg/kg	1.126	21.191 mg/kg	0.00212 %	✓	
		029-002-00-X	215-270-7	1317-39-1							
5		lead { lead chromate }			1	62 mg/kg	1.56	79.14 mg/kg	0.00507 %	✓	
		082-004-00-2	231-846-0	7758-97-6							
6		mercury { mercury dichloride }				0.1 mg/kg	1.353	0.111 mg/kg	0.0000111 %	✓	
		080-010-00-X	231-299-8	7487-94-7							
7		nickel { nickel chromate }				31.2 mg/kg	2.976	75.99 mg/kg	0.0076 %	✓	
		028-035-00-7	238-766-5	14721-18-7							
8		selenium { nickel selenate }				1 mg/kg	2.554	2.09 mg/kg	0.000209 %	✓	
		028-031-00-5	239-125-2	15060-62-5							
9		zinc { zinc chromate }				112 mg/kg	2.774	254.259 mg/kg	0.0254 %	✓	
		024-007-00-3	236-878-9	13530-65-9							
10		TPH (C6 to C40) petroleum group				84 mg/kg		68.74 mg/kg	0.00687 %	✓	
				TPH							
11		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		603-181-00-X	216-653-1	1634-04-4							
12		benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		601-020-00-8	200-753-7	71-43-2							



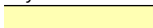
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
13	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
14	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
15	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
16	pH				7.69 pH		7.69 pH	7.69 pH		
			PH							
17	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
18	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8							
19	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
20	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7							
21	phenanthrene				0.05 mg/kg		0.0409 mg/kg	0.00000409 %	✓	
		201-581-5	85-01-8							
22	anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7							
23	fluoranthene				0.15 mg/kg		0.123 mg/kg	0.0000123 %	✓	
		205-912-4	206-44-0							
24	pyrene				0.13 mg/kg		0.106 mg/kg	0.0000106 %	✓	
		204-927-3	129-00-0							
25	benzo[a]anthracene				0.1 mg/kg		0.0818 mg/kg	0.00000818 %	✓	
	601-033-00-9	200-280-6	56-55-3							
26	chrysene				0.07 mg/kg		0.0573 mg/kg	0.00000573 %	✓	
	601-048-00-0	205-923-4	218-01-9							
27	benzo[b]fluoranthene				0.11 mg/kg		0.09 mg/kg	0.000009 %	✓	
	601-034-00-4	205-911-9	205-99-2							
28	benzo[k]fluoranthene				0.04 mg/kg		0.0327 mg/kg	0.00000327 %	✓	
	601-036-00-5	205-916-6	207-08-9							
29	benzo[a]pyrene; benzo[def]chrysene				0.09 mg/kg		0.0736 mg/kg	0.00000736 %	✓	
	601-032-00-3	200-028-5	50-32-8							
30	indeno[123-cd]pyrene				0.06 mg/kg		0.0491 mg/kg	0.00000491 %	✓	
		205-893-2	193-39-5							
31	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
32	benzo[ghi]perylene				0.06 mg/kg		0.0491 mg/kg	0.00000491 %	✓	
		205-883-8	191-24-2							
33	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-019-00-X	200-547-7	62-73-7							
34	azinphos-ethyl (ISO); O,O-diethyl 4-oxobenzotriazin-3-ylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-056-00-1	220-147-6	2642-71-9							
35	azinphos-methyl (ISO); O,O-dimethyl-4-oxobenzotriazin-3-ylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-039-00-9	201-676-1	86-50-0							
36	carbophenothion (ISO); 4-chlorophenylthiomethyl O,O-diethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-044-00-6	212-324-1	786-19-6							
37	chlorfenvinphos (ISO); 2-chloro-1-(2,4 dichlorophenyl) vinyl diethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-071-00-3	207-432-0	470-90-6							
38	chlorpyrifos (ISO); O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-084-00-4	220-864-4	2921-88-2							



#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
39		chlorpyrifos-methyl (ISO);, O, O-dimethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-186-00-9	227-011-5	5598-13-0									
40		diazinon (ISO); O,O-diethyl O-2-isopropyl-6-methylpyrimidin-4-yl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-040-00-4	206-373-8	333-41-5									
41		dimethoate (ISO); O,O-dimethyl methylcarbamoylmethyl phosphorodithioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-051-00-4	200-480-3	60-51-5									
42		ethion (ISO); O,O,O',O'-tetraethyl S,S'-methylenedi (phosphorodithioate); diethion				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-047-00-2	209-242-3	563-12-2									
43		parathion (ISO); O,O-diethyl O-4-nitrophenyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-034-00-1	200-271-7	56-38-2									
44		etrimfos (ISO); O-6-ethoxy-2-ethylpyrimidin-4-yl O,O-dimethylphosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-122-00-X	253-855-9	38260-54-7									
45		fenitrothion (ISO); O,O-dimethyl O-4-nitro-m-tolyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-054-00-0	204-524-2	122-14-5									
46		fenthion (ISO); O,O-dimethyl-O-(4-methylthion-m-tolyl) phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-048-00-8	200-231-9	55-38-9									
47		malathion (ISO); 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate; [containing £ 0.03 % isomalathion]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-041-00-X	204-497-7	121-75-5									
48		parathion - methyl (ISO); O,O-dimethyl O-4-nitrophenyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-035-00-7	206-050-1	298-00-0									
49		mevinphos (ISO); 2-methoxycarbonyl-1-methylvinyl dimethyl phosphate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-020-00-5	232-095-1	7786-34-7									
50		phosalone (ISO); S-(6-chloro-2-oxobenzoxazolin-3-ylmethyl) O,O-diethyl phosphorodithioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-067-00-1	218-996-2	2310-17-0									
51		pirimiphos-methyl (ISO); O-[2-(diethylamino)-6-methylpyrimidin-4-yl] O,O-dimethyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-134-00-5	249-528-5	29232-93-7									
52		trans-isopropyl-3-[[[(ethylamino)methoxyfosfinothioyl]oxy]crotonate; isopropyl 3-[[[(ethylamino)methoxyphosphinothioyl]oxy]isocrotonate; propetamphos (ISO)				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-136-00-6	250-517-2	31218-83-4									
53		triazophos (ISO); O,O-diethyl-O-1-phenyl-1H-1,2,4-triazol-3-yl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-140-00-8	245-986-5	24017-47-8									
54		disulfoton (ISO); O,O-diethyl 2-ethylthioethyl phosphorodithioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-060-00-3	206-054-3	298-04-4									
Total:											0.0581 %		



Key

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

Classification of sample: HDP107-20/06/2023-0.30m

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

Sample details

Sample name:	LoW Code:
HDP107-20/06/2023-0.30m	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
18.4% (dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 18.4% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	015-019-00-X	200-547-7	62-73-7								
2	azinphos-ethyl (ISO); O,O-diethyl 4-oxobenzotriazin-3-ylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	015-056-00-1	220-147-6	2642-71-9								
3	azinphos-methyl (ISO); O,O-dimethyl-4-oxobenzotriazin-3-ylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	015-039-00-9	201-676-1	86-50-0								
4	carbophenothion (ISO); 4-chlorophenylthiomethyl O,O-diethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	015-044-00-6	212-324-1	786-19-6								
5	chlorfenvinphos (ISO); 2-chloro-1-(2,4 dichlorophenyl) vinyl diethyl phosphate				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	015-071-00-3	207-432-0	470-90-6								
6	chlorpyrifos (ISO); O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	015-084-00-4	220-864-4	2921-88-2								
7	chlorpyrifos-methyl (ISO); O, O-dimethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	015-186-00-9	227-011-5	5598-13-0								
8	diazinon (ISO); O,O-diethyl O-2-isopropyl-6-methylpyrimidin-4-yl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	015-040-00-4	206-373-8	333-41-5								
9	dimethoate (ISO); O,O-dimethyl methylcarbamoylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	015-051-00-4	200-480-3	60-51-5								
10	ethion (ISO); O,O,O',O'-tetraethyl S,S'-methylenedi (phosphorodithioate); diethion				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	015-047-00-2	209-242-3	563-12-2								
11	parathion (ISO); O,O-diethyl O-4-nitrophenyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	015-034-00-1	200-271-7	56-38-2								
12	etrimfos (ISO); O-6-ethoxy-2-ethylpyrimidin-4-yl O,O-dimethylphosphorothioate				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	015-122-00-X	253-855-9	38260-54-7								



#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
13		fenitrothion (ISO); O,O-dimethyl O-4-nitro-m-tolyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-054-00-0	204-524-2	122-14-5									
14		fenthion (ISO); O,O-dimethyl-O-(4-methylthion-m-tolyl) phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-048-00-8	200-231-9	55-38-9									
15		malathion (ISO); 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate; [containing £ 0.03 % isomalathion]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-041-00-X	204-497-7	121-75-5									
16		parathion - methyl (ISO); O,O-dimethyl O-4-nitrophenyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-035-00-7	206-050-1	298-00-0									
17		mevinphos (ISO); 2-methoxycarbonyl-1-methylvinyl dimethyl phosphate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-020-00-5	232-095-1	7786-34-7									
18		phosalone (ISO); S-(6-chloro-2-oxobenzoxazolin-3-ylmethyl) O,O-diethyl phosphorodithioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-067-00-1	218-996-2	2310-17-0									
19		pirimiphos-methyl (ISO); O-[2-(diethylamino)-6-methylpyrimidin-4-yl] O,O-dimethyl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-134-00-5	249-528-5	29232-93-7									
20		trans-isopropyl-3-[[[(ethylamino)methoxyfosfinothioyl]oxy]crotonate; isopropyl 3-[[[(ethylamino)methoxyphosphinothioyl]oxy]isocrotonate; propetamphos (ISO)				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-136-00-6	250-517-2	31218-83-4									
21		triazophos (ISO); O,O-diethyl-O-1-phenyl-1H-1,2,4-triazol-3-yl phosphorothioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-140-00-8	245-986-5	24017-47-8									
22		disulfoton (ISO); O,O-diethyl 2-ethylthioethyl phosphorodithioate				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		015-060-00-3	206-054-3	298-04-4									
Total:									0.00002 %				

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
<LOD	Below limit of detection

Appendix A: Classifier defined and non GB MCL determinands

■ pH (CAS Number: PH)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

• **ethylbenzene** (EC Number: 202-849-4, CAS Number: 100-41-4)

GB MCL index number: 601-023-00-4

Description/Comments:

Additional Hazard Statement(s): Carc. 2; H351

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

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

cadmium {cadmium oxide}

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

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

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

copper {dicopper oxide; copper (I) oxide}

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

lead {lead chromate}

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

mercury {mercury dichloride}

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

nickel {nickel chromate}

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

selenium {nickel selenate}

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

zinc {zinc chromate}

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

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.2.GB - Oct 2021

HazWasteOnline Classification Engine Version: 2023.178.5649.10417 (27 Jun 2023)

HazWasteOnline Database: 2023.178.5649.10417 (27 Jun 2023)



This classification utilises the following guidance and legislation:

WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021

CLP Regulation - Regulation 1272/2008/EC of 16 December 2008

1st ATP - Regulation 790/2009/EC of 10 August 2009

2nd ATP - Regulation 286/2011/EC of 10 March 2011

3rd ATP - Regulation 618/2012/EU of 10 July 2012

4th ATP - Regulation 487/2013/EU of 8 May 2013

Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013

5th ATP - Regulation 944/2013/EU of 2 October 2013

6th ATP - Regulation 605/2014/EU of 5 June 2014

WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014

Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014

7th ATP - Regulation 2015/1221/EU of 24 July 2015

8th ATP - Regulation (EU) 2016/918 of 19 May 2016

9th ATP - Regulation (EU) 2016/1179 of 19 July 2016

10th ATP - Regulation (EU) 2017/776 of 4 May 2017

HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017

13th ATP - Regulation (EU) 2018/1480 of 4 October 2018

14th ATP - Regulation (EU) 2020/217 of 4 October 2019

15th ATP - Regulation (EU) 2020/1182 of 19 May 2020

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit)

Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020

The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK:

2020 No. 1540 of 16th December 2020

GB MCL List - version 1.1 of 09 June 2021

APPENDIX D - GEOENVIRONMENTAL GROUNDWATER LABORATORY RESULTS

Tier Environmental
Suite 414, Chadwick House
Warrington Rd
Birchwood
Warrington
United Kingdom
WA3 6AE



Attention : Adrian Read
Date : 3rd August, 2023
Your reference : TE1750
Our reference : Test Report 23/11332 Batch 1
Location : Bryn Lane
Date samples received : 11th July, 2023
Status : Final report
Issue : 1

Seven samples were received for analysis on 11th July, 2023 of which six were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:



Phil Sommerton BSc

Senior Project Manager

Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane
Contact: Adrian Read
EMT Job No: 23/11332

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
 H=H₂SO₄, Z=ZnAc, N=NaOH, HN=HN0₃

EMT Sample No.	1-6	7-12	23-29	30-35	36-41	42-46					Please see attached notes for all abbreviations and acronyms		
Sample ID	CP101	CP107	CP102	CP104	WS105	WS108							
Depth	6.00	4.00	9.00	8.50	4.00	4.00							
COC No / misc													
Containers	V H H N P G	V H H N P G	V H H N P G	V H H N P G	V H H N P G	V G P							
Sample Date	07/07/2023	07/07/2023	07/07/2023	07/07/2023	07/07/2023	07/07/2023							
Sample Type	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid							
Batch Number	1	1	1	1	1	1							
Date of Receipt	11/07/2023	11/07/2023	11/07/2023	11/07/2023	11/07/2023	11/07/2023					LOD/LOR	Units	Method No.
Dissolved Arsenic	6.4	1.6	4.1	7.3	8.1	4.8					<0.9	ug/l	TM30/PM14
Dissolved Cadmium	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03					<0.03	ug/l	TM30/PM14
Total Dissolved Chromium	1.0	<0.2	<0.2	0.8	<0.2	0.2					<0.2	ug/l	TM30/PM14
Dissolved Copper	<3	<3	<3	<3	7	<3					<3	ug/l	TM30/PM14
Dissolved Lead	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4					<0.4	ug/l	TM30/PM14
Dissolved Mercury	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					<0.5	ug/l	TM30/PM14
Dissolved Nickel	1.5	0.6	1.9	7.7	5.3	0.5					<0.2	ug/l	TM30/PM14
Dissolved Selenium	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2					<1.2	ug/l	TM30/PM14
Dissolved Zinc	5.5	5.9	11.1	11.7	14.8	6.1					<1.5	ug/l	TM30/PM14
Total Hardness Dissolved (as CaCO ₃)	3732 ^{AA}	879	2529 ^{AA}	1544 ^{AA}	1064	1461					<1	mg/l	TM30/PM14
PAH MS													
Naphthalene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					<0.1	ug/l	TM4/PM30
Acenaphthylene	<0.005	<0.005	<0.005	0.026	0.034	<0.005					<0.005	ug/l	TM4/PM30
Acenaphthene	<0.005	<0.005	<0.005	0.123	0.095	<0.005					<0.005	ug/l	TM4/PM30
Fluorene	<0.005	<0.005	<0.005	0.077	0.049	<0.005					<0.005	ug/l	TM4/PM30
Phenanthrene	<0.005	<0.005	<0.005	0.226	0.425	<0.005					<0.005	ug/l	TM4/PM30
Anthracene	<0.005	<0.005	<0.005	0.100	0.209	<0.005					<0.005	ug/l	TM4/PM30
Fluoranthene	<0.005	<0.005	<0.005	0.638	1.862	<0.005					<0.005	ug/l	TM4/PM30
Pyrene	<0.005	<0.005	<0.005	0.562	1.608	<0.005					<0.005	ug/l	TM4/PM30
Benzo(a)anthracene	<0.005	<0.005	<0.005	0.286	1.065	<0.005					<0.005	ug/l	TM4/PM30
Chrysene	<0.005	<0.005	<0.005	0.280	1.007	<0.005					<0.005	ug/l	TM4/PM30
Benzo(bk)fluoranthene	<0.008	<0.008	<0.008	0.580	2.147	<0.008					<0.008	ug/l	TM4/PM30
Benzo(a)pyrene	<0.005	<0.005	<0.005	0.341	1.198	<0.005					<0.005	ug/l	TM4/PM30
Indeno(123cd)pyrene	<0.005 ⁺	<0.005 ⁺	<0.005	0.230	0.816	<0.005					<0.005	ug/l	TM4/PM30
Dibenzo(ah)anthracene	<0.005	<0.005	<0.005	0.033	0.108	<0.005					<0.005	ug/l	TM4/PM30
Benzo(ghi)perylene	<0.005	<0.005	<0.005	0.209	0.629	<0.005					<0.005	ug/l	TM4/PM30
PAH 16 Total	<0.173	<0.173	<0.173	3.711	11.252	<0.173					<0.173	ug/l	TM4/PM30
Benzo(b)fluoranthene	<0.008	<0.008	<0.008	0.418	1.546	<0.008					<0.008	ug/l	TM4/PM30
Benzo(k)fluoranthene	<0.008	<0.008	<0.008	0.162	0.601	<0.008					<0.008	ug/l	TM4/PM30
PAH Surrogate % Recovery	91	83	84	94	100	92					<0	%	TM4/PM30

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane
Contact: Adrian Read
EMT Job No: 23/11332

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
H=H₂SO₄, Z=ZnAc, N=NaOH, HN=HN0₃

EMT Sample No.	1-6	7-12	23-29	30-35	36-41	42-46					Please see attached notes for all abbreviations and acronyms		
Sample ID	CP101	CP107	CP102	CP104	WS105	WS108							
Depth	6.00	4.00	9.00	8.50	4.00	4.00							
COC No / misc													
Containers	V H H N P G	V H H N P G	V H H N P G	V H H N P G	V H H N P G	V G P							
Sample Date	07/07/2023	07/07/2023	07/07/2023	07/07/2023	07/07/2023	07/07/2023							
Sample Type	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid							
Batch Number	1	1	1	1	1	1							
Date of Receipt	11/07/2023	11/07/2023	11/07/2023	11/07/2023	11/07/2023	11/07/2023					LOD/LOR	Units	Method No.
Pesticides													
Organophosphorus Pesticides													
Azinphos ethyl	<0.01	<0.01	<0.01	<0.20 ^{AB}	<0.20 ^{AB}	<0.01					<0.01	ug/l	TM149/PM30
Azinphos methyl	<0.05 ^{AA}	<0.05 ^{AA}	<0.05 ^{AA}	<1.00 ^{AC}	<1.00 ^{AC}	<0.05 ^{AA}					<0.01	ug/l	TM149/PM30
Carbophenothion	<0.01	<0.01	<0.01	<0.20 ^{AB}	<0.20 ^{AB}	<0.01					<0.01	ug/l	TM149/PM30
Chlorfenvinphos	<0.01	<0.01	<0.01	<0.20 ^{AB}	<0.20 ^{AB}	<0.01					<0.01	ug/l	TM149/PM30
Chlorpyrifos	<0.01	<0.01	<0.01	<0.20 ^{AB}	<0.20 ^{AB}	<0.01					<0.01	ug/l	TM149/PM30
Chlorpyrifos-methyl	<0.01	<0.01	<0.01	<0.20 ^{AB}	<0.20 ^{AB}	<0.01					<0.01	ug/l	TM149/PM30
Diazinon	<0.01	<0.01	<0.01	<0.20 ^{AB}	<0.20 ^{AB}	<0.01					<0.01	ug/l	TM149/PM30
Dichlorvos	<0.01	<0.01	<0.01	<0.20 ^{AB}	<0.20 ^{AB}	<0.01					<0.01	ug/l	TM149/PM30
Disulfoton	<0.01	<0.01	<0.01	<0.20 ^{AB}	<0.20 ^{AB}	<0.01					<0.01	ug/l	TM149/PM30
Dimethoate	<0.01	<0.01	<0.01	<0.20 ^{AB}	<0.20 ^{AB}	<0.01					<0.01	ug/l	TM149/PM30
Ethion	<0.01	<0.01	<0.01	<0.20 ^{AB}	<0.20 ^{AB}	<0.01					<0.01	ug/l	TM149/PM30
Ethyl Parathion (Parathion)	<0.01	<0.01	<0.01	<0.20 ^{AB}	<0.20 ^{AB}	<0.01					<0.01	ug/l	TM149/PM30
Etrimpfos	<0.01	<0.01	<0.01	<0.20 ^{AB}	<0.20 ^{AB}	<0.01					<0.01	ug/l	TM149/PM30
Fenitrothion	<0.01	<0.01	<0.01	<0.20 ^{AB}	<0.20 ^{AB}	<0.01					<0.01	ug/l	TM149/PM30
Fenthion	<0.01	<0.01	<0.01	<0.20 ^{AB}	<0.20 ^{AB}	<0.01					<0.01	ug/l	TM149/PM30
Malathion	<0.01	<0.01	<0.01	<0.20 ^{AB}	<0.20 ^{AB}	<0.01					<0.01	ug/l	TM149/PM30
Methyl Parathion	<0.01	<0.01	<0.01	<0.20 ^{AB}	<0.20 ^{AB}	<0.01					<0.01	ug/l	TM149/PM30
Mevinphos	<0.01	<0.01	<0.01	<0.20 ^{AB}	<0.20 ^{AB}	<0.01					<0.01	ug/l	TM149/PM30
Phosalone	<0.01	<0.01	<0.01	<0.20 ^{AB}	<0.20 ^{AB}	<0.01					<0.01	ug/l	TM149/PM30
Pirimiphos Methyl	<0.01	<0.01	<0.01	<0.20 ^{AB}	<0.20 ^{AB}	<0.01					<0.01	ug/l	TM149/PM30
Propetamphos	<0.01	<0.01	<0.01	<0.20 ^{AB}	<0.20 ^{AB}	<0.01					<0.01	ug/l	TM149/PM30
Triazophos	<0.01	<0.01	<0.01	<0.20 ^{AB}	<0.20 ^{AB}	<0.01					<0.01	ug/l	TM149/PM30
MTBE	<5	<5	<5	<5	<5	<5					<5	ug/l	TM36/PM12
Benzene	<5	<5	<5	<5	<5	<5					<5	ug/l	TM36/PM12
Toluene	<5	<5	<5	<5	<5	<5					<5	ug/l	TM36/PM12
Ethylbenzene	<5	<5	<5	<5	<5	<5					<5	ug/l	TM36/PM12
m/p-Xylene	<5	<5	<5	<5	<5	<5					<5	ug/l	TM36/PM12
o-Xylene	<5	<5	<5	<5	<5	<5					<5	ug/l	TM36/PM12
TPH CWG													
Aliphatics													
>C5-C6	<10	<10	<10	<10	<10	<10					<10	ug/l	TM36/PM12
>C6-C8	<10	<10	<10	<10	<10	<10					<10	ug/l	TM36/PM12
>C8-C10	<10	<10	<10	<10	<10	<10					<10	ug/l	TM36/PM12
>C10-C12	<5 ^{SV}	<5	<5	<5 ^{SV}	<5	<5					<5	ug/l	TM5/PM16/PM30
>C12-C16	<10 ^{SV}	<10	<10	<10 ^{SV}	<10	<10					<10	ug/l	TM5/PM16/PM30
>C16-C21	<10 ^{SV}	<10	<10	<10 ^{SV}	<10	<10					<10	ug/l	TM5/PM16/PM30
>C21-C35	<10 ^{SV}	<10	<10	<10 ^{SV}	<10	<10					<10	ug/l	TM5/PM16/PM30
>C35-C40	<10 ^{SV}	<10	<10	<10 ^{SV}	<10	<10					<10	ug/l	TM5/PM16/PM30
Total aliphatics C5-40	<10	<10	<10	<10	<10	<10					<10	ug/l	TM5/PM16/PM30

QF-PM 3.1.2 v11

Please include all sections of this report if it is reproduced

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

4 of 10

Client Name: Tier Environmental

Reference: TE1750

Location: Bryn Lane

Contact: Adrian Read

[illegible]

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

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 23/11332

SOILS and ASH

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

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

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

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

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

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

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

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

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

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

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

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

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

WATERS

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

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

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

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

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

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

DEVIATING SAMPLES

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

SURROGATES

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

DILUTIONS

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

BLANKS

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

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

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

Measurement Uncertainty

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

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range
AA	x5 Dilution
AB	x20 Dilution
AC	x100 Dilution

HWOL ACRONYMS AND OPERATORS USED

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	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 23/11332

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.				
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM16/PM30	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE/Water samples are extracted with solvent using a magnetic stirrer to create a vortex.				
TM5/TM36	please refer to TM5 and TM36 for method details	PM12/PM16/PM30	please refer to PM16/PM30 and PM12 for method details				
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM0	No preparation is required.				
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry); WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified				
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.				
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013	PM0	No preparation is required.				
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM0	No preparation is required.				
TM76	Modified US EPA method 120.1 (1982). Determination of Specific Conductance by Metrohm automated probe analyser.	PM0	No preparation is required.				
TM149	Determination of Pesticides by Large Volume Injection on GC Triple Quad MS, based upon USEPA method 8270D v5:2014	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.				

Tier Environmental
Suite 414, Chadwick House
Warrington Rd
Birchwood
Warrington
United Kingdom
WA3 6AE



Attention :	Adrian Read
Date :	28th July, 2023
Your reference :	TE1750
Our reference :	Test Report 23/11408 Batch 1
Location :	Bryn Lane Detailed
Date samples received :	12th July, 2023
Status :	Final Report
Issue :	1

One sample was received for analysis on 12th July, 2023 and was scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:



Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane Detailed
Contact: Adrian Read
EMT Job No: 23/11408

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
H=H₂SO₄, Z=ZnAc, N=NaOH, HN=HNO₃

[illegible]

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane Detailed
Contact: Adrian Read
EMT Job No: 23/11408

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
 H=H₂SO₄, Z=ZnAc, N=NaOH, HN=HNO₃

EMT Sample No.	1-6												
Sample ID	WS111												
Depth	3.00												
COC No / misc													
Containers	V H H N P G												
Sample Date	11/07/2023												
Sample Type	Liquid												
Batch Number	1												
Date of Receipt	12/07/2023												
Please see attached notes for all abbreviations and acronyms													
											LOD/LOR	Units	Method No.
Pesticides													
Organophosphorus Pesticides													
Azinphos ethyl	<0.01										<0.01	ug/l	TM149/PM30
Azinphos methyl	<0.05 ^{AA}										<0.01	ug/l	TM149/PM30
Carbophenothion	<0.01										<0.01	ug/l	TM149/PM30
Chlorfenvinphos	<0.01										<0.01	ug/l	TM149/PM30
Chlorpyrifos	<0.01										<0.01	ug/l	TM149/PM30
Chlorpyrifos-methyl	<0.01										<0.01	ug/l	TM149/PM30
Diazinon	<0.01										<0.01	ug/l	TM149/PM30
Dichlorvos	<0.01										<0.01	ug/l	TM149/PM30
Disulfoton	<0.01										<0.01	ug/l	TM149/PM30
Dimethoate	<0.01										<0.01	ug/l	TM149/PM30
Ethion	<0.01										<0.01	ug/l	TM149/PM30
Ethyl Parathion (Parathion)	<0.01										<0.01	ug/l	TM149/PM30
Etrimphos	<0.01										<0.01	ug/l	TM149/PM30
Fenitrothion	<0.01										<0.01	ug/l	TM149/PM30
Fenthion	<0.01										<0.01	ug/l	TM149/PM30
Malathion	<0.01										<0.01	ug/l	TM149/PM30
Methyl Parathion	<0.01										<0.01	ug/l	TM149/PM30
Mevinphos	<0.01										<0.01	ug/l	TM149/PM30
Phosalone	<0.01										<0.01	ug/l	TM149/PM30
Pirimiphos Methyl	<0.01										<0.01	ug/l	TM149/PM30
Propetamphos	<0.01										<0.01	ug/l	TM149/PM30
Triazophos	<0.01										<0.01	ug/l	TM149/PM30
MTBE	<5										<5	ug/l	TM36/PM12
Benzene	<5										<5	ug/l	TM36/PM12
Toluene	<5										<5	ug/l	TM36/PM12
Ethylbenzene	<5										<5	ug/l	TM36/PM12
m/p-Xylene	<5										<5	ug/l	TM36/PM12
o-Xylene	<5										<5	ug/l	TM36/PM12
TPH CWG													
Aliphatics													
>C5-C6	<10										<10	ug/l	TM36/PM12
>C6-C8	<10										<10	ug/l	TM36/PM12
>C8-C10	<10										<10	ug/l	TM36/PM12
>C10-C12	19										<5	ug/l	TM5/PM16/PM30
>C12-C16	130										<10	ug/l	TM5/PM16/PM30
>C16-C21	100										<10	ug/l	TM5/PM16/PM30
>C21-C35	<10										<10	ug/l	TM5/PM16/PM30
>C35-C40	<10										<10	ug/l	TM5/PM16/PM30
Total aliphatics C5-40	249										<10	ug/l	TM5/PM16/PM30

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane Detailed
Contact: Adrian Read
EMT Job No: 23/11408

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
H=H₂SO₄, Z=ZnAc, N=NaOH, HN=HNO₃

EMT Sample No.	1-6										Please see attached notes for all abbreviations and acronyms		
Sample ID	WS111												
Depth	3.00												
COC No / misc													
Containers	V H H N P G												
Sample Date	11/07/2023												
Sample Type	Liquid												
Batch Number	1												
Date of Receipt	12/07/2023										LOD/LOR	Units	Method No.
TPH CWG													
Aromatics													
>C5-EC7	<10										<10	ug/l	TM36/PM12
>EC7-EC8	<10										<10	ug/l	TM36/PM12
>EC8-EC10	<10										<10	ug/l	TM36/PM12
>EC10-EC12	<5										<5	ug/l	TM5/PM16/PM3
>EC12-EC16	<10										<10	ug/l	TM5/PM16/PM3
>EC16-EC21	<10										<10	ug/l	TM5/PM16/PM3
>EC21-EC35	<10										<10	ug/l	TM5/PM16/PM3
>EC35-EC40	<10										<10	ug/l	TM5/PM16/PM3
Total aromatics C5-40	<10										<10	ug/l	TM5/TM26/PM12/PM16/PM3
Total aliphatics and aromatics(C5-40)	249										<10	ug/l	TM5/TM26/PM12/PM16/PM3
Total Phenols HPLC	<0.15										<0.15	mg/l	TM26/PMO
Sulphate as SO4	1979.7										<0.5	mg/l	TM38/PMO
Ortho Phosphate as PO4	<0.06										<0.06	mg/l	TM38/PMO
Ortho Phosphate as PO4	0.06										<0.03	mg/l	TM38/PMO
Total Ammonia as N	<0.03										<0.03	mg/l	TM38/PMO
Electrical Conductivity @25C	4507										<2	uS/cm	TM76/PMO
pH	7.68										<0.01	pH units	TM73/PMO

Client Name: Tier Environmental

Reference: TE1750

Location: Bryn Lane Detailed

Contact: Adrian Read

[illegible]

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

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 23/11408

SOILS and ASH

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

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

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

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

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

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

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

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

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

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

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

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

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

WATERS

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

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

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

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

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

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

DEVIATING SAMPLES

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

SURROGATES

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

DILUTIONS

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

BLANKS

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

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

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ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
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CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
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AA	x5 Dilution

HWOL ACRONYMS AND OPERATORS USED

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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	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 23/11408

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.				
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM16/PM30	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE/Water samples are extracted with solvent using a magnetic stirrer to create a vortex.				
TM5/TM36	please refer to TM5 and TM36 for method details	PM12/PM16/PM30	please refer to PM16/PM30 and PM12 for method details				
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM0	No preparation is required.				
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry); WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified				
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.				
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM0	No preparation is required.				
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM0	No preparation is required.				
TM76	Modified US EPA method 120.1 (1982). Determination of Specific Conductance by Metrohm automated probe analyser.	PM0	No preparation is required.				
TM149	Determination of Pesticides by Large Volume Injection on GC Triple Quad MS, based upon USEPA method 8270D v5:2014	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.				

Tier Environmental
Suite 414, Chadwick House
Warrington Rd
Birchwood
Warrington
United Kingdom
WA3 6AE



Attention : Adrian Read
Date : 8th August, 2023
Your reference : TE1750
Our reference : Test Report 23/11409 Batch 1
Location : Bryn Lane
Date samples received : 12th July, 2023
Status : Final report
Issue : 1

One sample was received for analysis on 12th July, 2023 and was scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:



Phil Sommerton BSc

Senior Project Manager

Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane
Contact: Adrian Read
EMT Job No: 23/11409

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
H=H₂SO₄, Z=ZnAc, N=NaOH, HN=HNO₃

[illegible]

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane
Contact: Adrian Read
EMT Job No: 23/11409

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
 H=H₂SO₄, Z=ZnAc, N=NaOH, HN=HN0₃

EMT Sample No.	13-18										Please see attached notes for all abbreviations and acronyms		
Sample ID	WS112												
Depth	2.50												
COC No / misc													
Containers	V H H N P G												
Sample Date	12/07/2023												
Sample Type	Liquid												
Batch Number	1												
Date of Receipt	12/07/2023												
Pesticides													
Organophosphorus Pesticides													
Azinphos ethyl	<0.01										<0.01	ug/l	TM149/PM30
Azinphos methyl	<0.05 ^{AA}										<0.01	ug/l	TM149/PM30
Carbophenothion	<0.01										<0.01	ug/l	TM149/PM30
Chlorfenvinphos	<0.01										<0.01	ug/l	TM149/PM30
Chlorpyrifos	<0.01										<0.01	ug/l	TM149/PM30
Chlorpyrifos-methyl	<0.01										<0.01	ug/l	TM149/PM30
Diazinon	<0.01										<0.01	ug/l	TM149/PM30
Dichlorvos	<0.01										<0.01	ug/l	TM149/PM30
Disulfoton	<0.01										<0.01	ug/l	TM149/PM30
Dimethoate	<0.01										<0.01	ug/l	TM149/PM30
Ethion	<0.01										<0.01	ug/l	TM149/PM30
Ethyl Parathion (Parathion)	<0.01										<0.01	ug/l	TM149/PM30
Etrimphos	<0.01										<0.01	ug/l	TM149/PM30
Fenitrothion	<0.01										<0.01	ug/l	TM149/PM30
Fenthion	<0.01										<0.01	ug/l	TM149/PM30
Malathion	<0.01										<0.01	ug/l	TM149/PM30
Methyl Parathion	<0.01										<0.01	ug/l	TM149/PM30
Mevinphos	<0.01										<0.01	ug/l	TM149/PM30
Phosalone	<0.01										<0.01	ug/l	TM149/PM30
Pirimiphos Methyl	<0.01										<0.01	ug/l	TM149/PM30
Propetamphos	<0.01										<0.01	ug/l	TM149/PM30
Triazophos	<0.01										<0.01	ug/l	TM149/PM30
MTBE	<5										<5	ug/l	TM36/PM12
Benzene	<5										<5	ug/l	TM36/PM12
Toluene	<5										<5	ug/l	TM36/PM12
Ethylbenzene	<5										<5	ug/l	TM36/PM12
m/p-Xylene	<5										<5	ug/l	TM36/PM12
o-Xylene	<5										<5	ug/l	TM36/PM12
TPH CWG													
Aliphatics													
>C5-C6	<10										<10	ug/l	TM36/PM12
>C6-C8	<10										<10	ug/l	TM36/PM12
>C8-C10	<10										<10	ug/l	TM36/PM12
>C10-C12	<5										<5	ug/l	TM5/PM16/PM30
>C12-C16	<10										<10	ug/l	TM5/PM16/PM30
>C16-C21	<10										<10	ug/l	TM5/PM16/PM30
>C21-C35	<10										<10	ug/l	TM5/PM16/PM30
>C35-C40	<10										<10	ug/l	TM5/PM16/PM30
Total aliphatics C5-40	<10										<10	ug/l	TM5/PM16/PM12/PM16/PM30

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1750
Location: Bryn Lane
Contact: Adrian Read
EMT Job No: 23/11409

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
H=H₂SO₄, Z=ZnAc, N=NaOH, HN=HNO₃

EMT Sample No.	13-18										Please see attached notes for all abbreviations and acronyms		
Sample ID	WS112												
Depth	2.50												
COC No / misc													
Containers	V H H N P G												
Sample Date	12/07/2023												
Sample Type	Liquid												
Batch Number	1												
Date of Receipt	12/07/2023										LOD/LOR	Units	Method No.
TPH CWG													
Aromatics													
>C5-EC7	<10										<10	ug/l	TM36/PM12
>EC7-EC8	<10										<10	ug/l	TM36/PM12
>EC8-EC10	<10										<10	ug/l	TM36/PM12
>EC10-EC12	<5										<5	ug/l	TM5/PM16/PM3
>EC12-EC16	<10										<10	ug/l	TM5/PM16/PM3
>EC16-EC21	<10										<10	ug/l	TM5/PM16/PM3
>EC21-EC35	<10										<10	ug/l	TM5/PM16/PM3
>EC35-EC40	<10										<10	ug/l	TM5/PM16/PM3
Total aromatics C5-40	<10										<10	ug/l	TM5/PM16/PM12/PM15/PM3
Total aliphatics and aromatics(C5-40)	<10										<10	ug/l	TM5/PM16/PM12/PM15/PM3
Total Phenols HPLC	<0.15										<0.15	mg/l	TM26/PMO
Sulphate as SO4	901.2										<0.5	mg/l	TM38/PMO
Ortho Phosphate as PO4	<0.06										<0.06	mg/l	TM38/PMO
Ortho Phosphate as PO4	0.04										<0.03	mg/l	TM38/PMO
Total Ammonia as N	0.14										<0.03	mg/l	TM38/PMO
Electrical Conductivity @25C	2359										<2	uS/cm	TM76/PMO
pH	7.79										<0.01	pH units	TM73/PMO

Client Name: Tier Environmental

Reference: TE1750

Location: Bryn Lane

Contact: Adrian Read

[illegible]

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

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 23/11409

SOILS and ASH

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

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

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

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

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

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

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

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

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

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

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

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

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

WATERS

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

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

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

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

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

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

DEVIATING SAMPLES

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

SURROGATES

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

DILUTIONS

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

BLANKS

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

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

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

Measurement Uncertainty

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

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range
AA	x5 Dilution

HWOL ACRONYMS AND OPERATORS USED

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	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 23/11409

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.				
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM16/PM30	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE/Water samples are extracted with solvent using a magnetic stirrer to create a vortex.				
TM5/TM36	please refer to TM5 and TM36 for method details	PM12/PM16/PM30	please refer to PM16/PM30 and PM12 for method details				
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM0	No preparation is required.				
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry); WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified				
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.				
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013	PM0	No preparation is required.				
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM0	No preparation is required.				
TM76	Modified US EPA method 120.1 (1982). Determination of Specific Conductance by Metrohm automated probe analyser.	PM0	No preparation is required.				
TM149	Determination of Pesticides by Large Volume Injection on GC Triple Quad MS, based upon USEPA method 8270D v5:2014	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.				

APPENDIX E - GEOTECHNICAL IN SITU FIELDWORK AND LABORATORY RESULTS

TEST REPORT

Client Tier Environmental Ltd

Address Suite 513
Chadwick House
Warrington Road
Birchwood
WA3 6AE

Contract TE1750 -
Bryn Lane Detailed Planning

Job Number MRN 4625/33
Date of Issue 16 August 2023
Page 1 of 65

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

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TEST CERTIFICATE
PARTICLE SIZE DISTRIBUTION

BS EN ISO 17892-4:2016

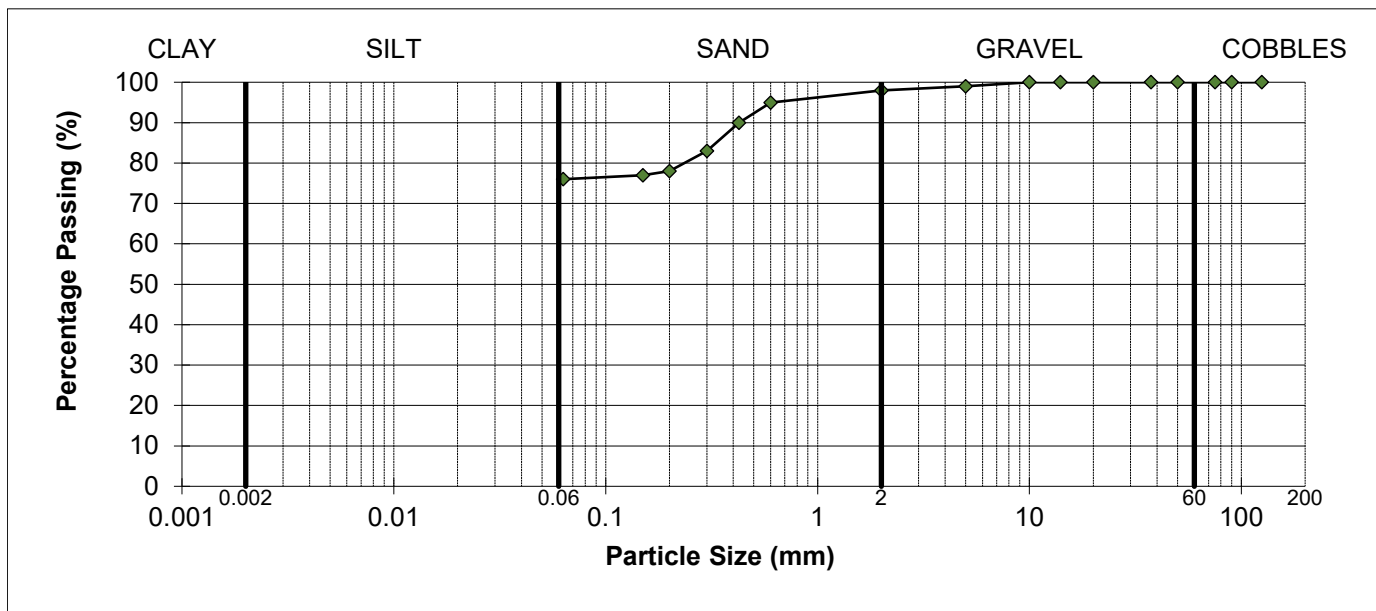
Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	TP112 0.5 B	DATE SAMPLED	Not advised
LAB SAMPLE No	126897	DATE RECEIVED	16-Jun-23
DATE TESTED	06-Jul-23	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		5	99	
90	100		2	98	
75	100		0.6	95	
50	100		0.425	90	
37.5	100		0.3	83	
20	100		0.2	78	
14	100		0.15	77	
10	100		0.063	76	



REMARKS

SIGNED



NAME

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

DATE

16-Aug-23

TEST CERTIFICATE
PARTICLE SIZE DISTRIBUTION

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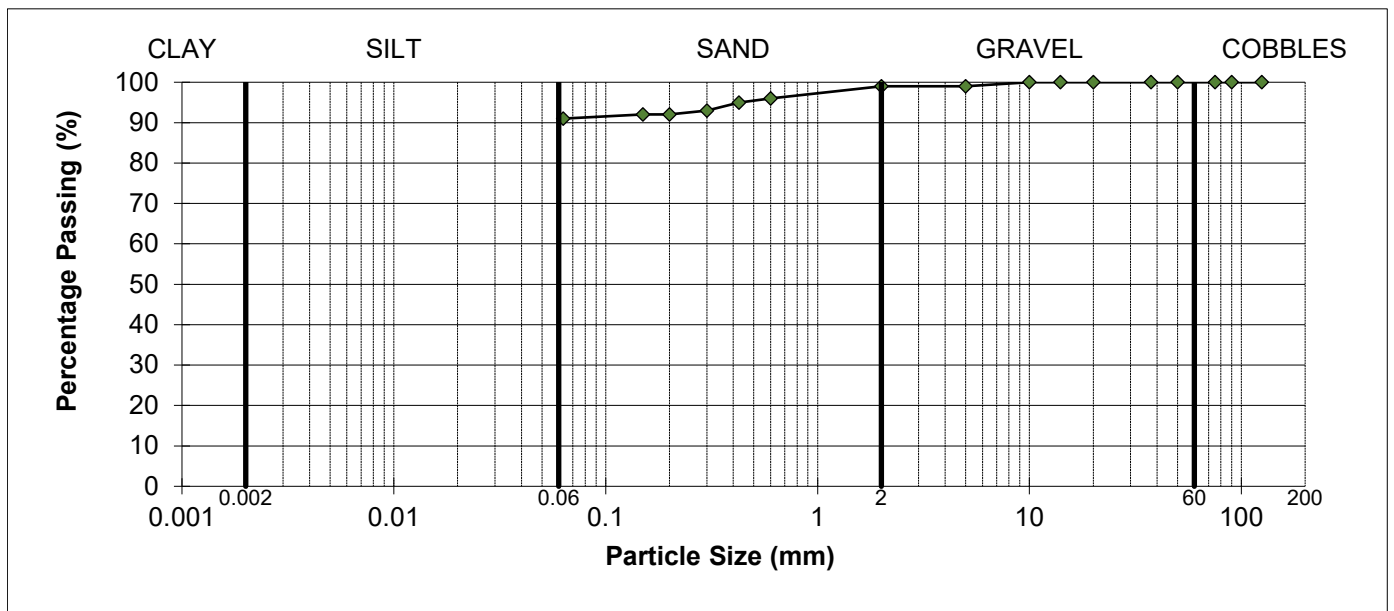
Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	TP115 0.7 B	DATE SAMPLED	Not advised
LAB SAMPLE No	126901	DATE RECEIVED	16-Jun-23
DATE TESTED	06-Jul-23	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		5	99	
90	100		2	99	
75	100		0.6	96	
50	100		0.425	95	
37.5	100		0.3	93	
20	100		0.2	92	
14	100		0.15	92	
10	100		0.063	91	



REMARKS

SIGNED



NAME

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

DATE

16-Aug-23

TEST CERTIFICATE
PARTICLE SIZE DISTRIBUTION

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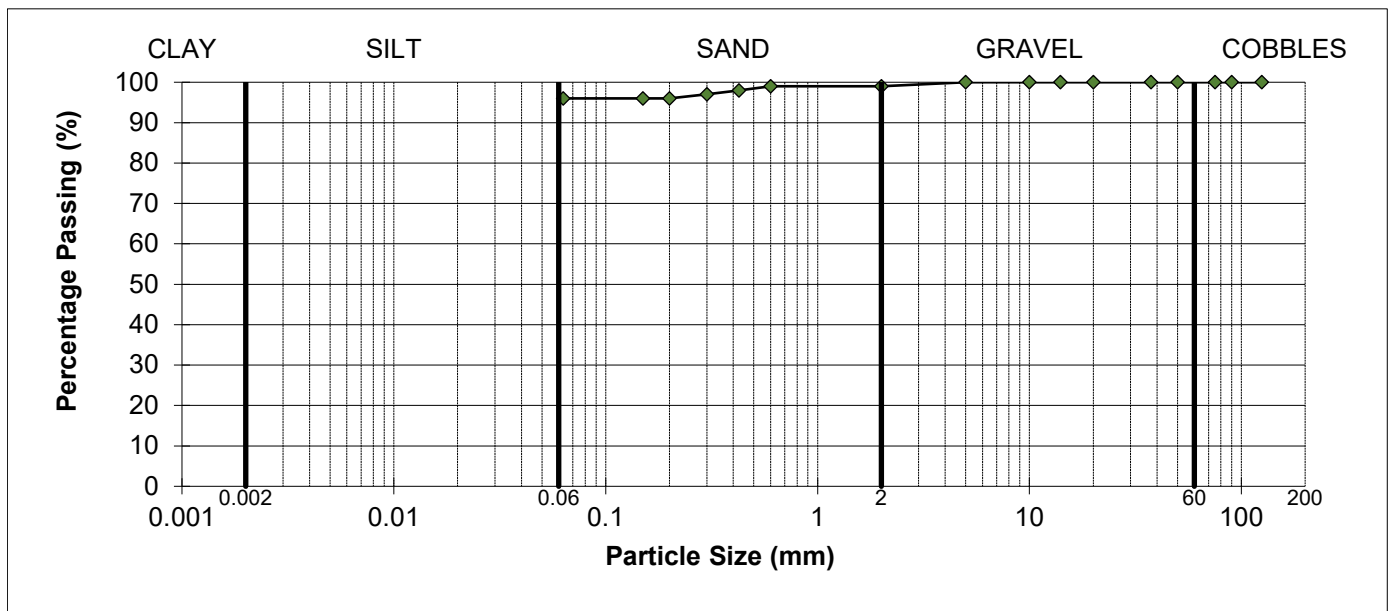
Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	TP121 1.8 B	DATE SAMPLED	Not advised
LAB SAMPLE No	126908	DATE RECEIVED	16-Jun-23
DATE TESTED	06-Jul-23	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		5	100	
90	100		2	99	
75	100		0.6	99	
50	100		0.425	98	
37.5	100		0.3	97	
20	100		0.2	96	
14	100		0.15	96	
10	100		0.063	96	



REMARKS

SIGNED



NAME

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

DATE

16-Aug-23

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PARTICLE SIZE DISTRIBUTION

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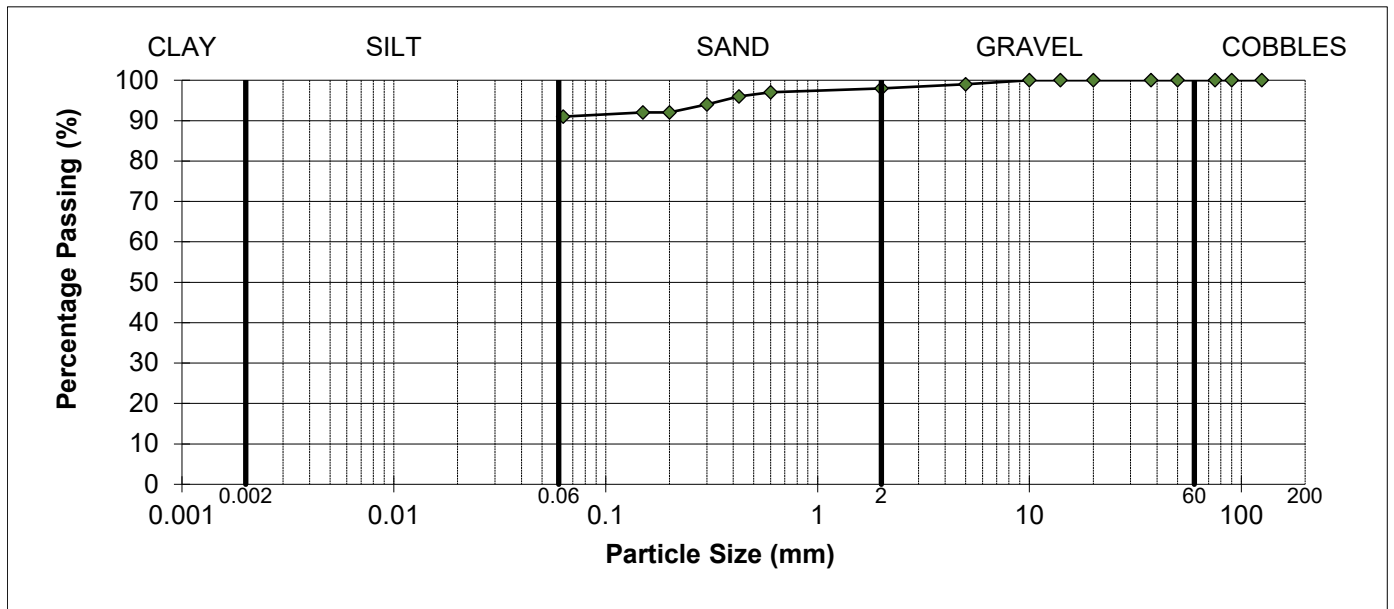
Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP101 11.7-12.00 B	DATE SAMPLED	Not advised
LAB SAMPLE No	126919	DATE RECEIVED	16-Jun-23
DATE TESTED	06-Jul-23	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		5	99	
90	100		2	98	
75	100		0.6	97	
50	100		0.425	96	
37.5	100		0.3	94	
20	100		0.2	92	
14	100		0.15	92	
10	100		0.063	91	



REMARKS

SIGNED



NAME

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

DATE

16-Aug-23

TEST CERTIFICATE
PARTICLE SIZE DISTRIBUTION

BS EN ISO 17892-4:2016

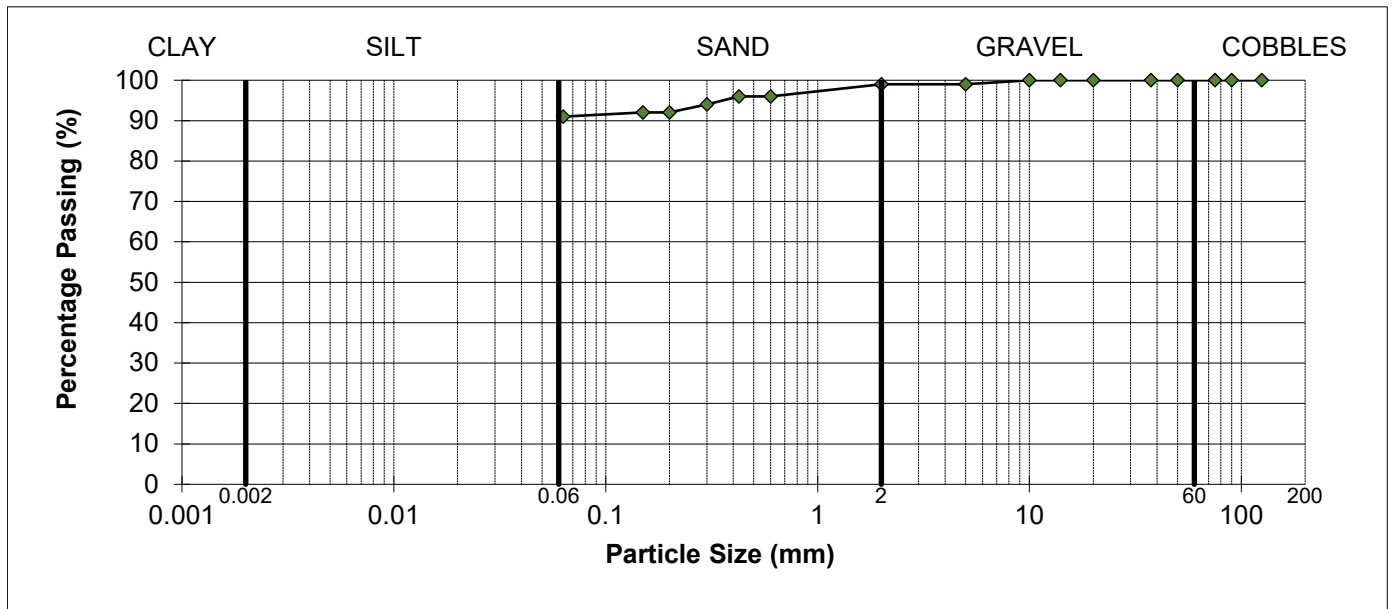
Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	TP105 1 B	DATE SAMPLED	Not advised
LAB SAMPLE No	126559	DATE RECEIVED	08-Jun-23
DATE TESTED	06-Jul-23	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		5	99	
90	100		2	99	
75	100		0.6	96	
50	100		0.425	96	
37.5	100		0.3	94	
20	100		0.2	92	
14	100		0.15	92	
10	100		0.063	91	



REMARKS

SIGNED



NAME

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

DATE

16-Aug-23

TEST CERTIFICATE
PARTICLE SIZE DISTRIBUTION

BS EN ISO 17892-4:2016

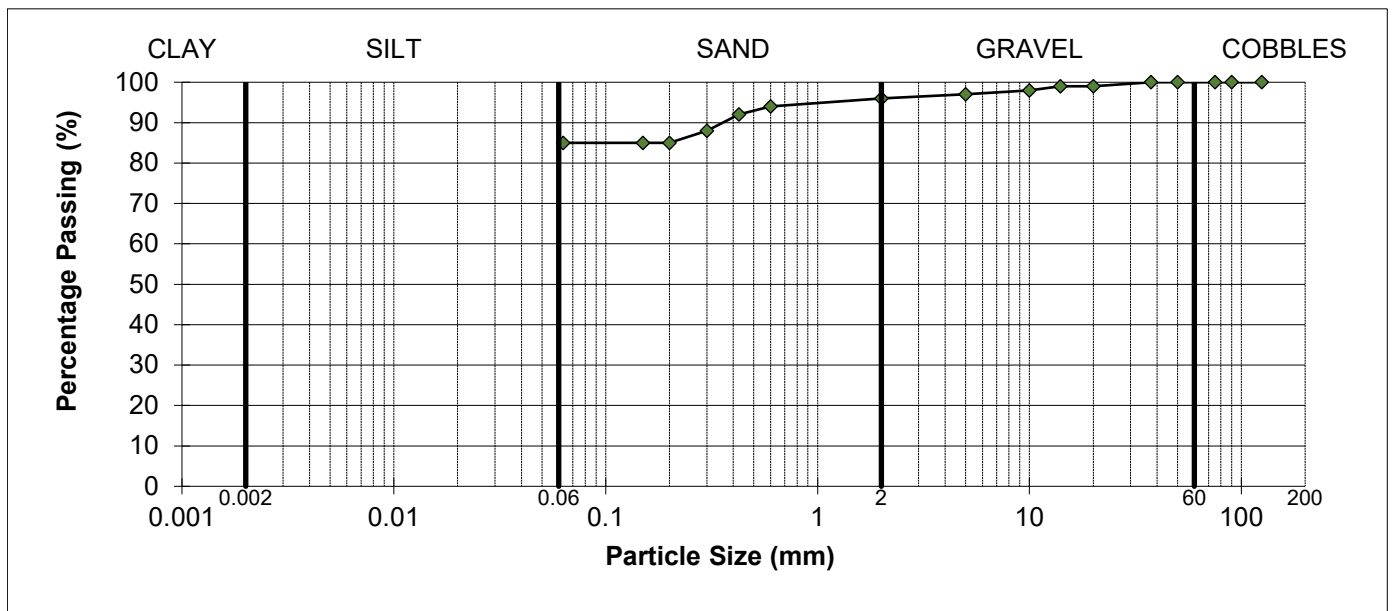
Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP107 5.5-5.8 B	DATE SAMPLED	Not advised
LAB SAMPLE No	126597	DATE RECEIVED	08-Jun-23
DATE TESTED	06-Jul-23	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		5	97	
90	100		2	96	
75	100		0.6	94	
50	100		0.425	92	
37.5	100		0.3	88	
20	99		0.2	85	
14	99		0.15	85	
10	98		0.063	85	



REMARKS

SIGNED



NAME

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

DATE

16-Aug-23

TEST CERTIFICATE
PARTICLE SIZE DISTRIBUTION

BS EN ISO 17892-4:2016

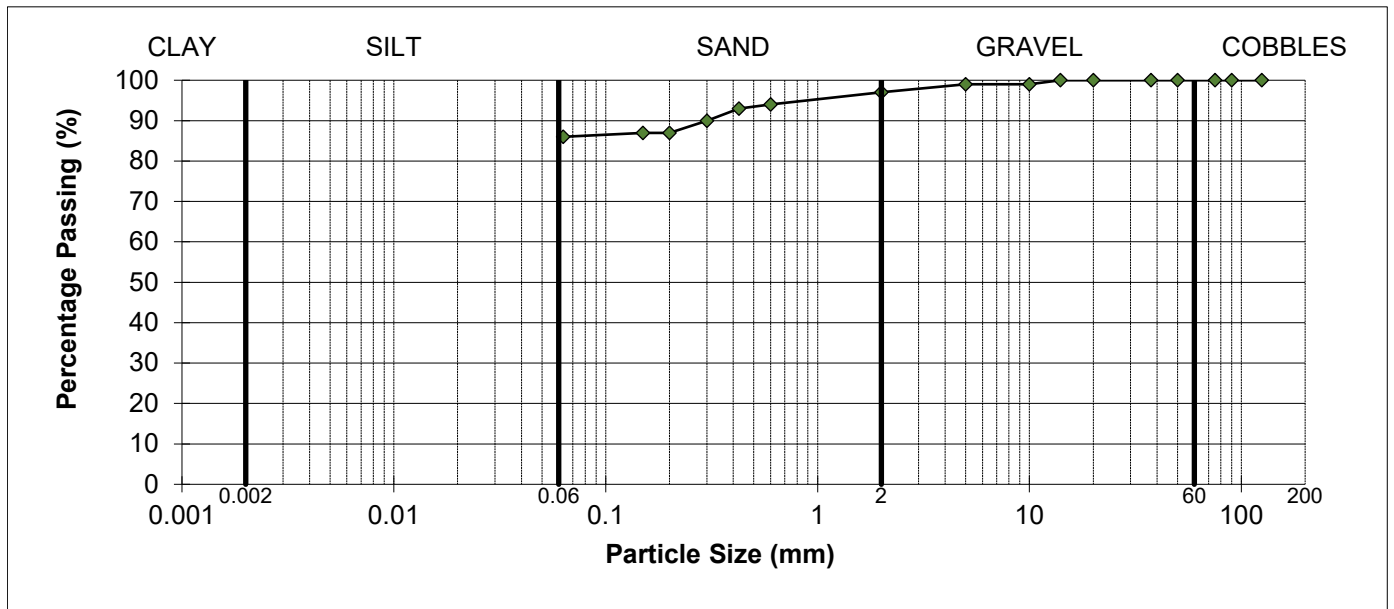
Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	TP107 0.9-1.1	DATE SAMPLED	Not advised
LAB SAMPLE No	126561	DATE RECEIVED	08-Jun-23
DATE TESTED	06-Jul-23	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		5	99	
90	100		2	97	
75	100		0.6	94	
50	100		0.425	93	
37.5	100		0.3	90	
20	100		0.2	87	
14	100		0.15	87	
10	99		0.063	86	



REMARKS

SIGNED



NAME

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

DATE

16-Aug-23

TEST CERTIFICATE
PARTICLE SIZE DISTRIBUTION

BS EN ISO 17892-4:2016

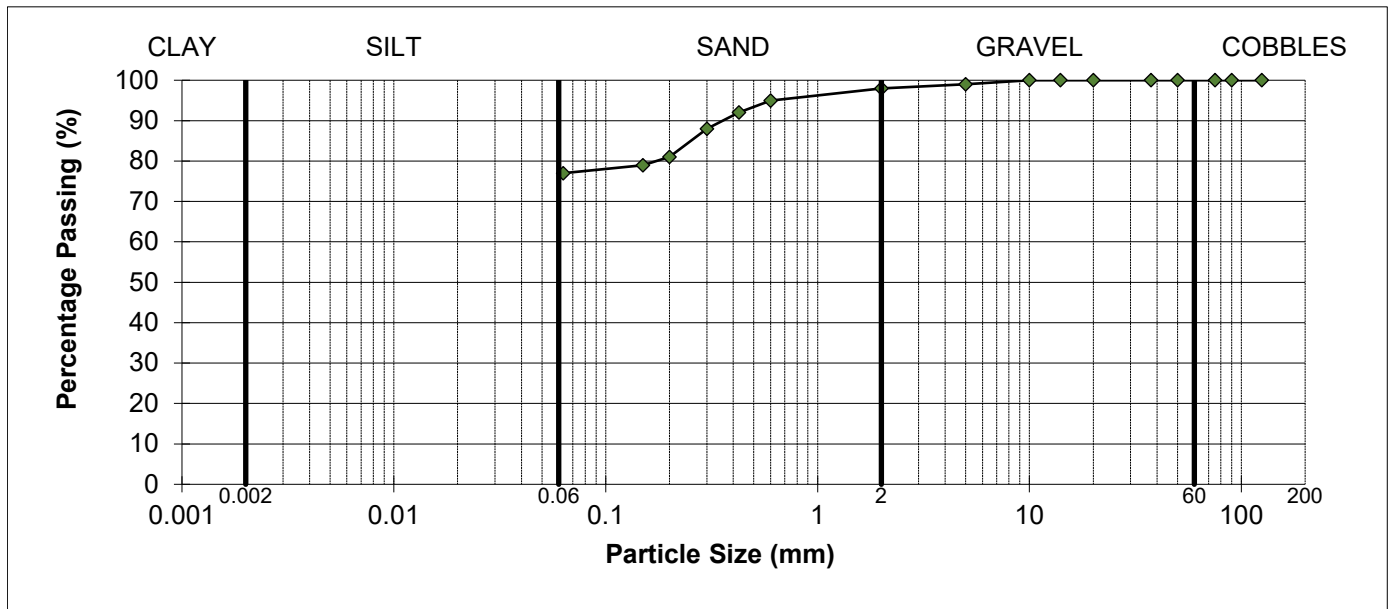
Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	TP111 0.3 B	DATE SAMPLED	Not advised
LAB SAMPLE No	126896	DATE RECEIVED	16-Jun-23
DATE TESTED	06-Jul-23	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		5	99	
90	100		2	98	
75	100		0.6	95	
50	100		0.425	92	
37.5	100		0.3	88	
20	100		0.2	81	
14	100		0.15	79	
10	100		0.063	77	



REMARKS

SIGNED



NAME

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

DATE

16-Aug-23

MURRAY RIX

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



TEST CERTIFICATE

DRY DENSITY/WATER CONTENT RELATIONSHIP 2.5kg RAMMER

BS 1377-2:2022 Cl.11

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

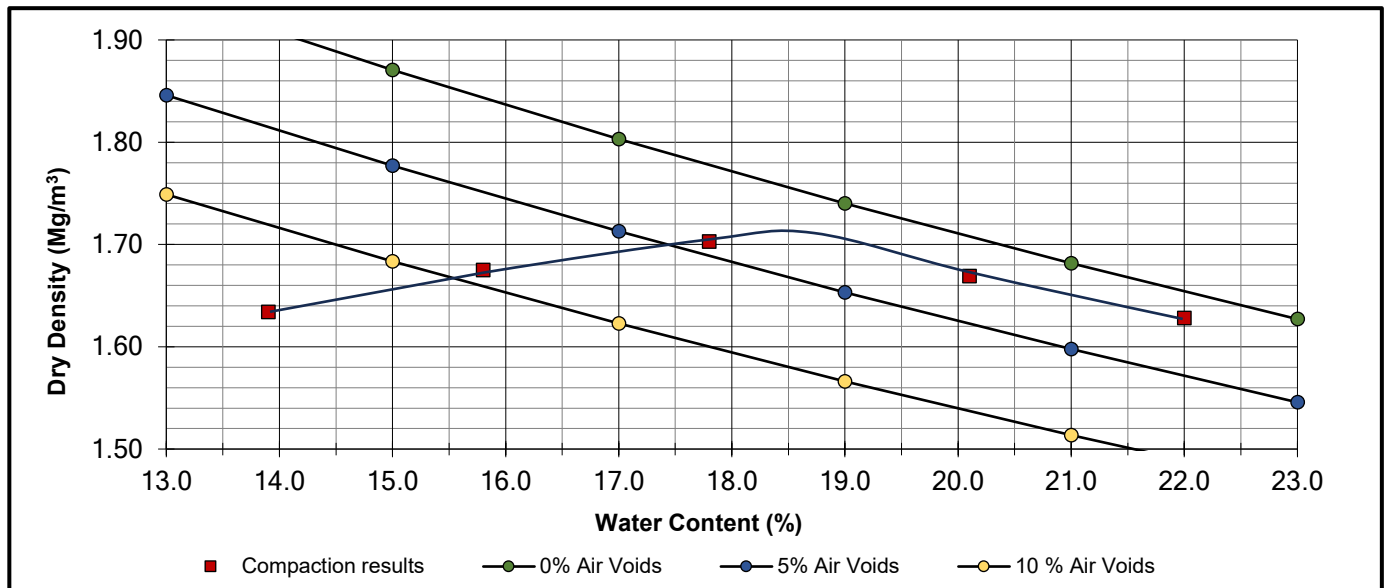
CLIENT	Tier Environmental Ltd		
SITE	TE1749 - Bryn Lane Detailed Planning		
JOB NUMBER	MRN 4625/32		

SAMPLE LABEL	TP112 0.5 B	DATE SAMPLED	Not advised
SAMPLE NUMBER	126897	DATE RECEIVED	16-Jun-23
DATE TESTED	07-Jul-23	SAMPLED BY	Client

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

RETAINED 37.5mm	0	%	GRADING ZONE	Zone 4	
RETAINED 20mm	0	%	PARTICLE DENSITY	2.60	Mg/m ³ (Assumed)

POINT NUMBER	WATER CONTENT (%)	DRY DENSITY (Mg/m ³)
1	13.9	1.634
2	15.8	1.675
3	17.8	1.703
4	20.1	1.669
5	22.0	1.628



OPTIMUM WATER CONTENT	19	(%)
MAXIMUM DRY DENSITY	1.71	(Mg/m ³)

REMARKS

As received water content = 13.9%

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

SIGNED

DATE 16-Aug-23

MURRAY RIX

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TEL 0161 475 0870



TEST CERTIFICATE

DRY DENSITY/WATER CONTENT RELATIONSHIP 2.5kg RAMMER

BS 1377-2:2022 Cl.11

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

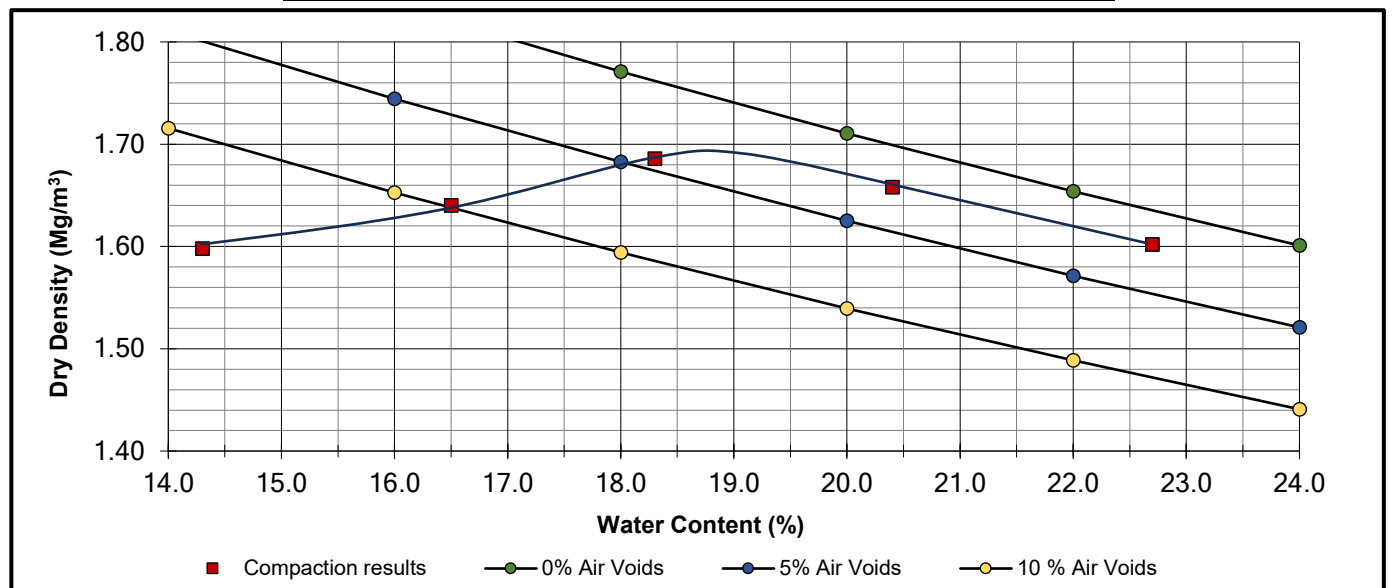
CLIENT	Tier Environmental Ltd		
SITE	TE1749 - Bryn Lane Detailed Planning		
JOB NUMBER	MRN 4625/32		

SAMPLE LABEL	TP115 0.7 B	DATE SAMPLED	Not advised
SAMPLE NUMBER	126901	DATE RECEIVED	16-Jun-23
DATE TESTED	07-Jul-23	SAMPLED BY	Client

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

RETAINED 37.5mm	0	%	GRADING ZONE	Zone 1	
RETAINED 20mm	0	%	PARTICLE DENSITY	2.60	Mg/m3 (Assumed)

POINT NUMBER	WATER CONTENT (%)	DRY DENSITY (Mg/m ³)
1	14.3	1.598
2	16.5	1.640
3	18.3	1.686
4	20.4	1.658
5	22.7	1.602



OPTIMUM WATER CONTENT	21	(%)
MAXIMUM DRY DENSITY	1.62	(Mg/m ³)

REMARKS

As received water content = 16.9%

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

SIGNED

DATE 16-Aug-23

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TEL 0161 475 0870



TEST CERTIFICATE

DRY DENSITY/WATER CONTENT RELATIONSHIP 2.5kg RAMMER

BS 1377-2:2022 Cl.11

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

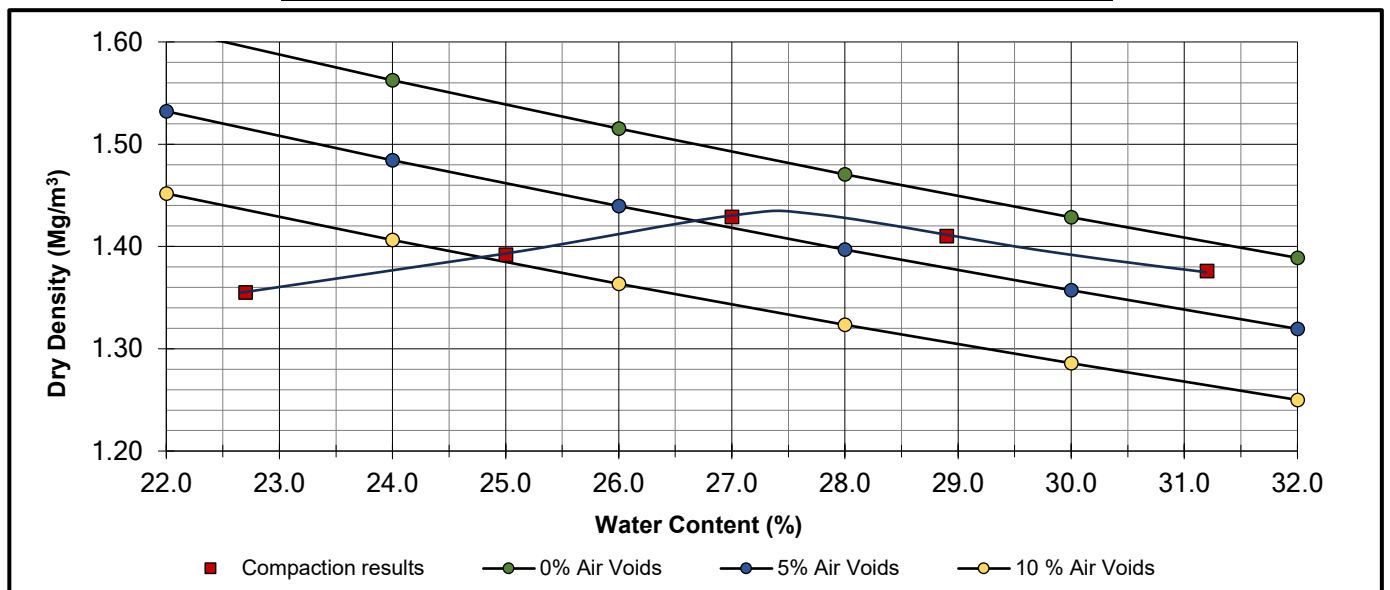
CLIENT	Tier Environmental Ltd		
SITE	TE1749 - Bryn Lane Detailed Planning		
JOB NUMBER	MRN 4625/32		

SAMPLE LABEL	TP117 0.7 B	DATE SAMPLED	Not advised
SAMPLE NUMBER	126903	DATE RECEIVED	16-Jun-23
DATE TESTED	07-Jul-23	SAMPLED BY	Client

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

RETAINED 37.5mm	0	%	GRADING ZONE	Zone 1	
RETAINED 20mm	0	%	PARTICLE DENSITY	2.50	Mg/m3 (Assumed)

POINT NUMBER	WATER CONTENT (%)	DRY DENSITY (Mg/m ³)
1	22.7	1.355
2	25.0	1.392
3	27.0	1.429
4	28.9	1.410
5	31.2	1.376



OPTIMUM WATER CONTENT	27	(%)
MAXIMUM DRY DENSITY	1.43	(Mg/m ³)

REMARKS

As received water content = 67.0%

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

SIGNED

DATE 16-Aug-23

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TEL 0161 475 0870



TEST CERTIFICATE

DRY DENSITY/WATER CONTENT RELATIONSHIP 2.5kg RAMMER

BS 1377-2:2022 Cl.11

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

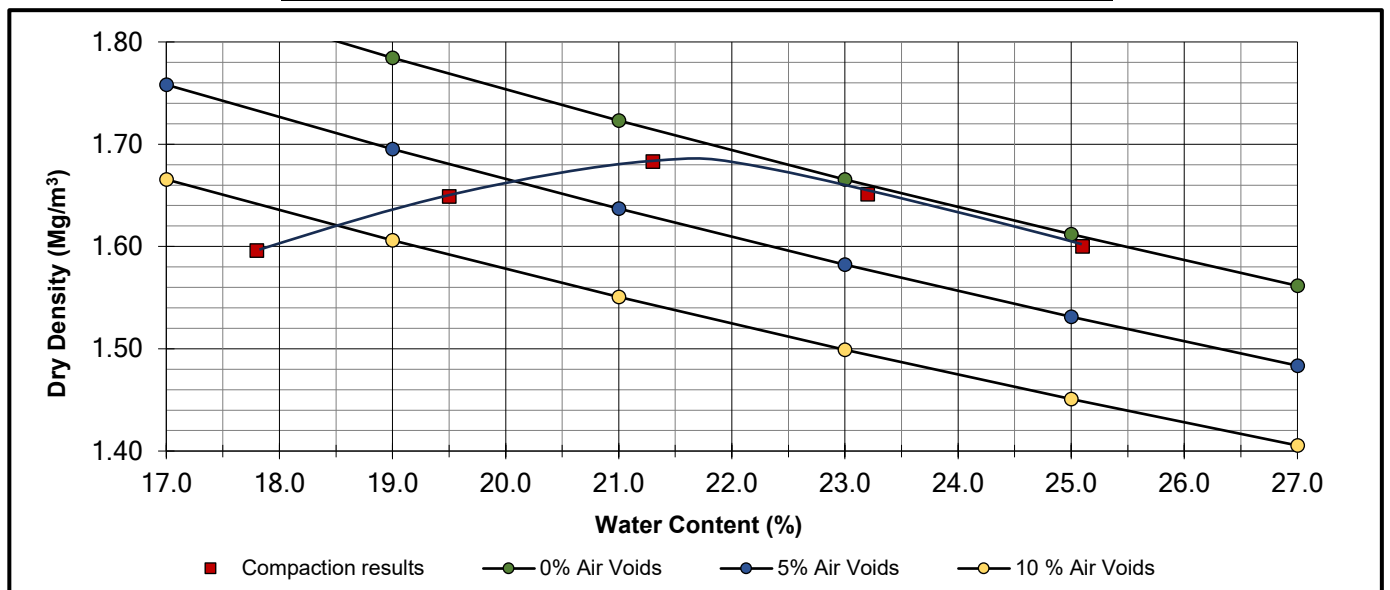
CLIENT	Tier Environmental Ltd		
SITE	TE1749 - Bryn Lane Detailed Planning		
JOB NUMBER	MRN 4625/32		

SAMPLE LABEL	TP121 1.8 B	DATE SAMPLED	Not advised
SAMPLE NUMBER	126908	DATE RECEIVED	16-Jun-23
DATE TESTED	07-Jul-23	SAMPLED BY	Client

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

RETAINED 37.5mm	0	%	GRADING ZONE	Zone 1	
RETAINED 20mm	0	%	PARTICLE DENSITY	2.70	Mg/m3 (Assumed)

POINT NUMBER	WATER CONTENT (%)	DRY DENSITY (Mg/m ³)
1	17.8	1.596
2	19.5	1.649
3	21.3	1.683
4	23.2	1.651
5	25.1	1.600



OPTIMUM WATER CONTENT	22	(%)
MAXIMUM DRY DENSITY	1.68	(Mg/m ³)

REMARKS

As received water content = 20.2%

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

SIGNED

DATE 16-Aug-23

MURRAY RIX

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TEL 0161 475 0870



TEST CERTIFICATE

DRY DENSITY/WATER CONTENT RELATIONSHIP 2.5kg RAMMER

BS 1377-2:2022 Cl.11

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

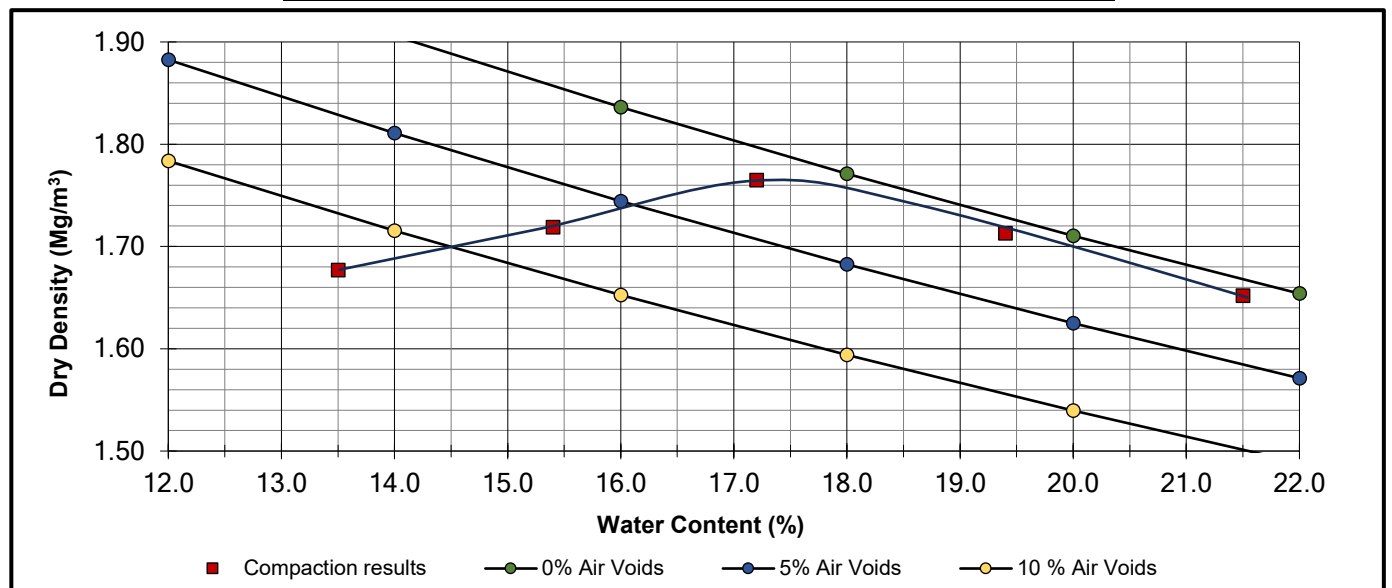
CLIENT	Tier Environmental Ltd		
SITE	TE1749 - Bryn Lane Detailed Planning		
JOB NUMBER	MRN 4625/32		

SAMPLE LABEL	CP101 11.7-12.00 B	DATE SAMPLED	Not advised
SAMPLE NUMBER	126919	DATE RECEIVED	16-Jun-23
DATE TESTED	07-Jul-23	SAMPLED BY	Client

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

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	13.5	1.677
2	15.4	1.719
3	17.2	1.765
4	19.4	1.713
5	21.5	1.652



OPTIMUM WATER CONTENT	17	(%)
MAXIMUM DRY DENSITY	1.76	(Mg/m ³)

REMARKS

As received water content = 16.9%

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

SIGNED

DATE 16-Aug-23

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TEST CERTIFICATE

DRY DENSITY/WATER CONTENT RELATIONSHIP 2.5kg RAMMER

BS 1377-2:2022 Cl.11

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

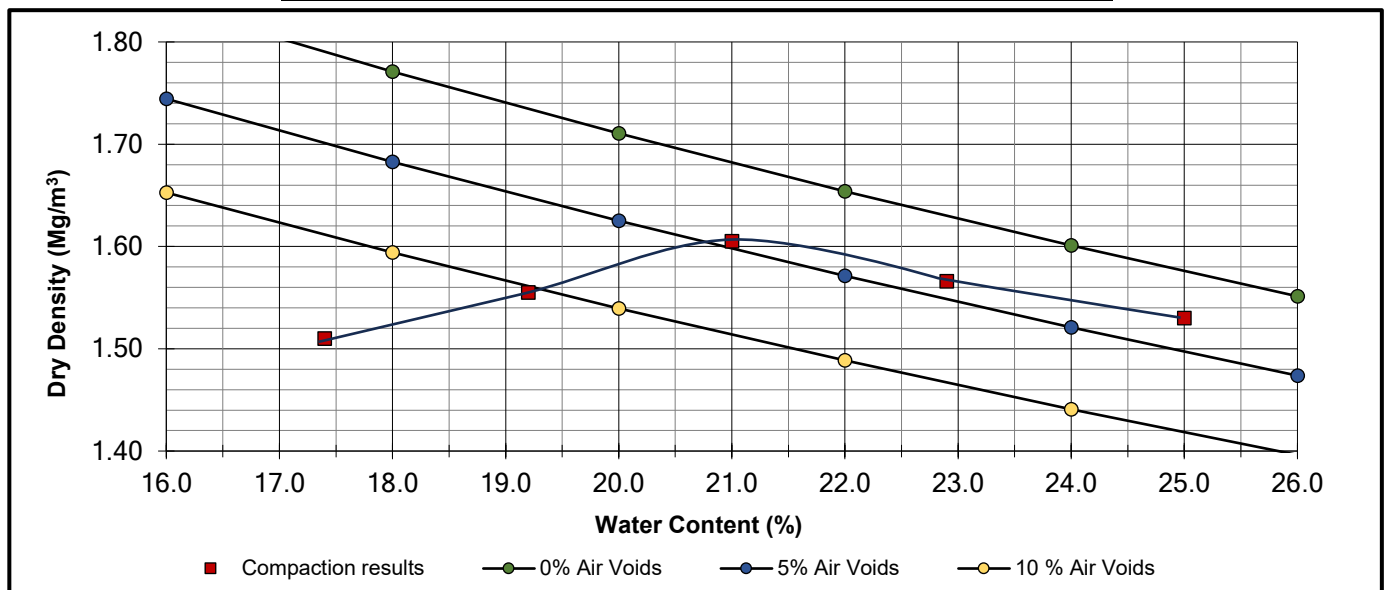
CLIENT	Tier Environmental Ltd		
SITE	TE1749 - Bryn Lane Detailed Planning		
JOB NUMBER	MRN 4625/32		

SAMPLE LABEL	TP105 1 B	DATE SAMPLED	Not advised
SAMPLE NUMBER	126559	DATE RECEIVED	08-Jun-23
DATE TESTED	07-Jul-23	SAMPLED BY	Client

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

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	17.4	1.510
2	19.2	1.555
3	21.0	1.605
4	22.9	1.566
5	25.0	1.530



OPTIMUM WATER CONTENT	21	(%)
MAXIMUM DRY DENSITY	1.60	(Mg/m ³)

REMARKS

As received water content = 21.8%

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

SIGNED

DATE 16-Aug-23

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TEST CERTIFICATE

DRY DENSITY/WATER CONTENT RELATIONSHIP 2.5kg RAMMER

BS 1377-2:2022 Cl.11

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

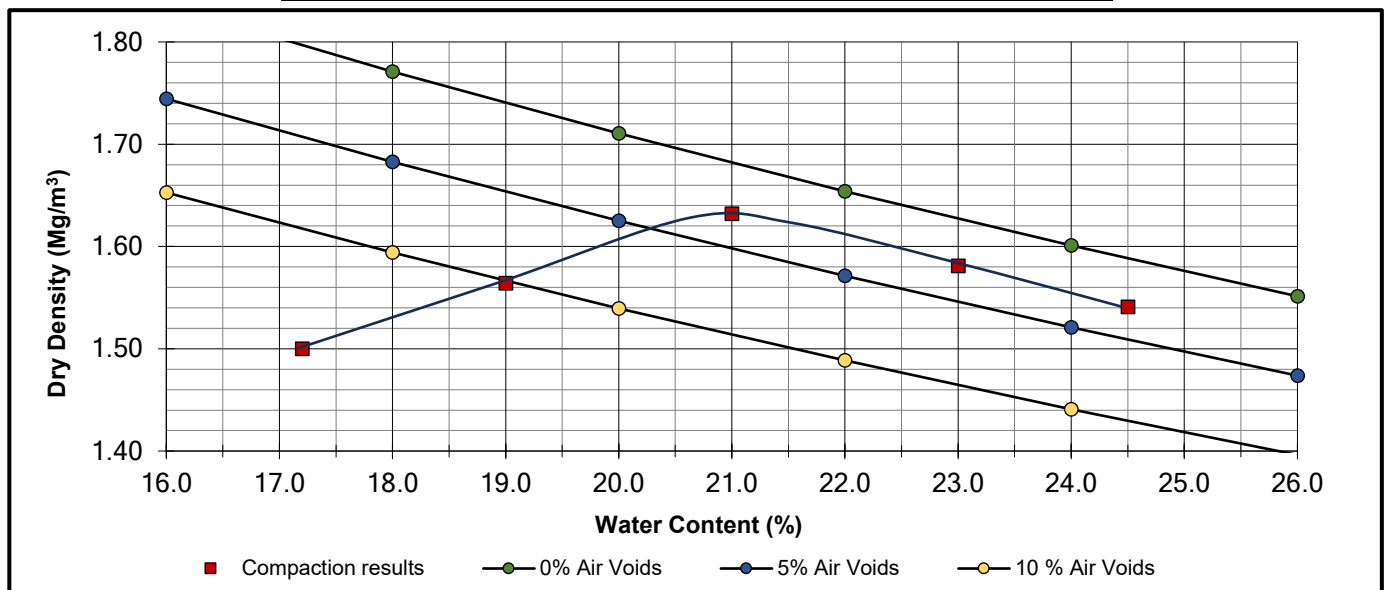
CLIENT	Tier Environmental Ltd
SITE	TE1749 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/32

SAMPLE LABEL	CP107 5.5-5.8 B	DATE SAMPLED	Not advised
SAMPLE NUMBER	126597	DATE RECEIVED	08-Jun-23
DATE TESTED	07-Jul-23	SAMPLED BY	Client

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

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	17.2	1.500
2	19.0	1.564
3	21.0	1.632
4	23.0	1.581
5	24.5	1.541



OPTIMUM WATER CONTENT	21 (%)
MAXIMUM DRY DENSITY	1.63 (Mg/m ³)

REMARKS

As received water content = 19.5%

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

SIGNED

DATE 16-Aug-23

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TEST CERTIFICATE

DRY DENSITY/WATER CONTENT RELATIONSHIP 2.5kg RAMMER

BS 1377-2:2022 Cl.11

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

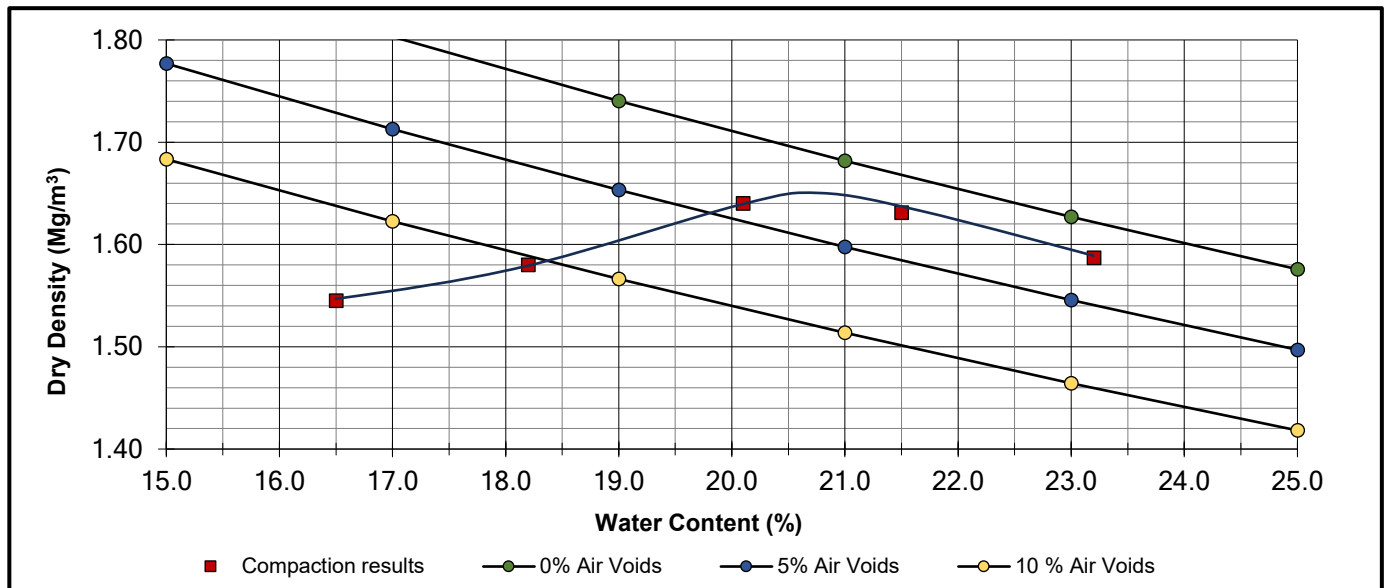
CLIENT	Tier Environmental Ltd		
SITE	TE1749 - Bryn Lane Detailed Planning		
JOB NUMBER	MRN 4625/32		

SAMPLE LABEL	TP107 0.9-1.1	DATE SAMPLED	Not advised
SAMPLE NUMBER	126561	DATE RECEIVED	08-Jun-23
DATE TESTED	07-Jul-23	SAMPLED BY	Client

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

RETAINED 37.5mm	0	%	GRADING ZONE	Zone 1	
RETAINED 20mm	0	%	PARTICLE DENSITY	2.60	Mg/m3 (Assumed)

POINT NUMBER	WATER CONTENT (%)	DRY DENSITY (Mg/m ³)
1	16.5	1.545
2	18.2	1.580
3	20.1	1.640
4	21.5	1.631
5	23.2	1.587



OPTIMUM WATER CONTENT	21	(%)
MAXIMUM DRY DENSITY	1.65	(Mg/m ³)

REMARKS

As received water content = 22.4%

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

SIGNED

DATE 16-Aug-23

MURRAY RIX

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DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



TEST CERTIFICATE

DRY DENSITY/WATER CONTENT RELATIONSHIP 2.5kg RAMMER

BS 1377-2:2022 Cl.11

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

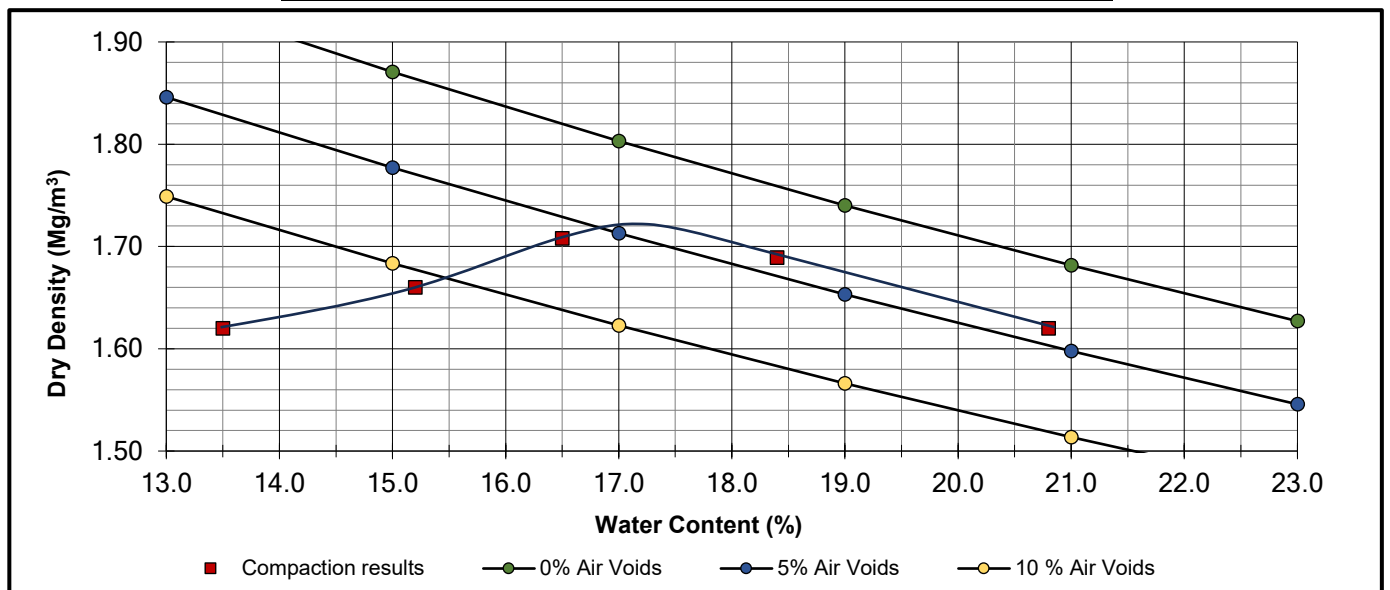
CLIENT	Tier Environmental Ltd		
SITE	TE1749 - Bryn Lane Detailed Planning		
JOB NUMBER	MRN 4625/32		

SAMPLE LABEL	TP111 0.3 B	DATE SAMPLED	Not advised
SAMPLE NUMBER	126896	DATE RECEIVED	16-Jun-23
DATE TESTED	07-Jul-23	SAMPLED BY	Client

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

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	13.5	1.620
2	15.2	1.660
3	16.5	1.708
4	18.4	1.689
5	20.8	1.620



OPTIMUM WATER CONTENT	17	(%)
MAXIMUM DRY DENSITY	1.72	(Mg/m ³)

REMARKS

As received water content = 13.8%

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

SIGNED

DATE 16-Aug-23

MURRAY RIX

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DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



TEST CERTIFICATE

DRY DENSITY/WATER CONTENT RELATIONSHIP 2.5kg RAMMER

BS 1377-2:2022 Cl.11

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

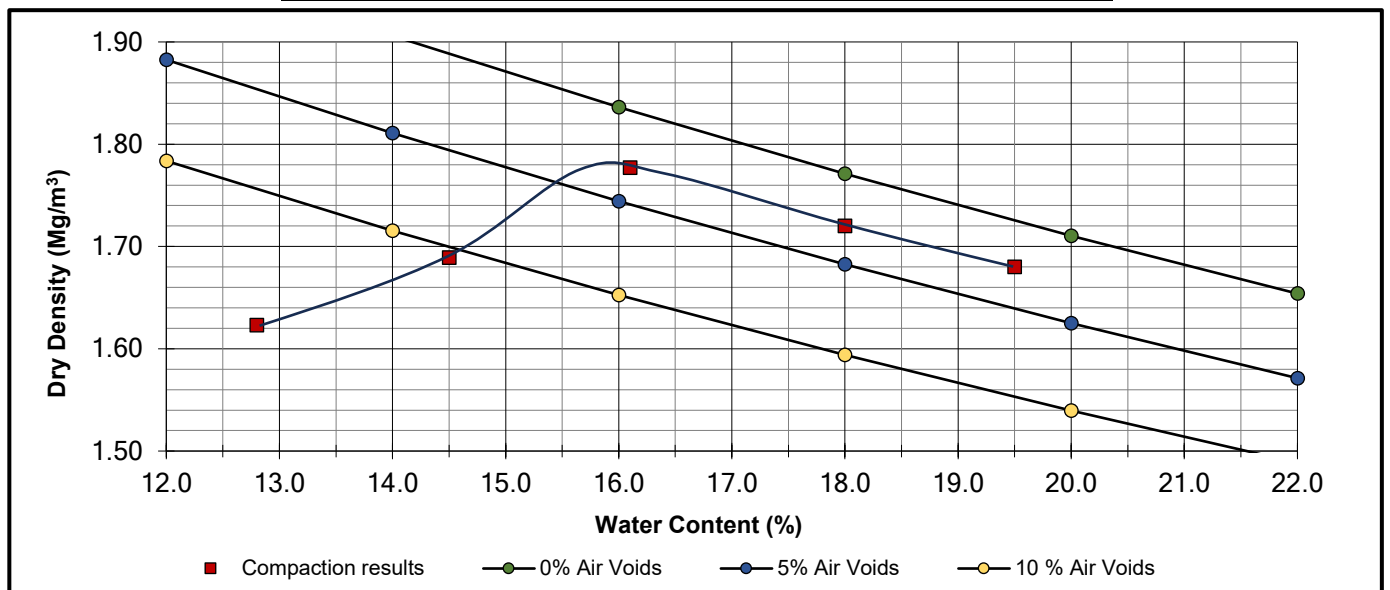
CLIENT	Tier Environmental Ltd
SITE	TE1749 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/32

SAMPLE LABEL	CP109 0.5-0.8 B	DATE SAMPLED	Not advised
SAMPLE NUMBER	127604	DATE RECEIVED	27-Jun-23
DATE TESTED	07-Jul-23	SAMPLED BY	Client

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

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	12.8	1.623
2	14.5	1.689
3	16.1	1.777
4	18.0	1.720
5	19.5	1.680



OPTIMUM WATER CONTENT	16 (%)
MAXIMUM DRY DENSITY	1.78 (Mg/m ³)

REMARKS

As received water content = 15.9%

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

SIGNED

DATE 16-Aug-23

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TEST CERTIFICATE

DRY DENSITY/WATER CONTENT RELATIONSHIP 2.5kg RAMMER

BS 1377-2:2022 Cl.11

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

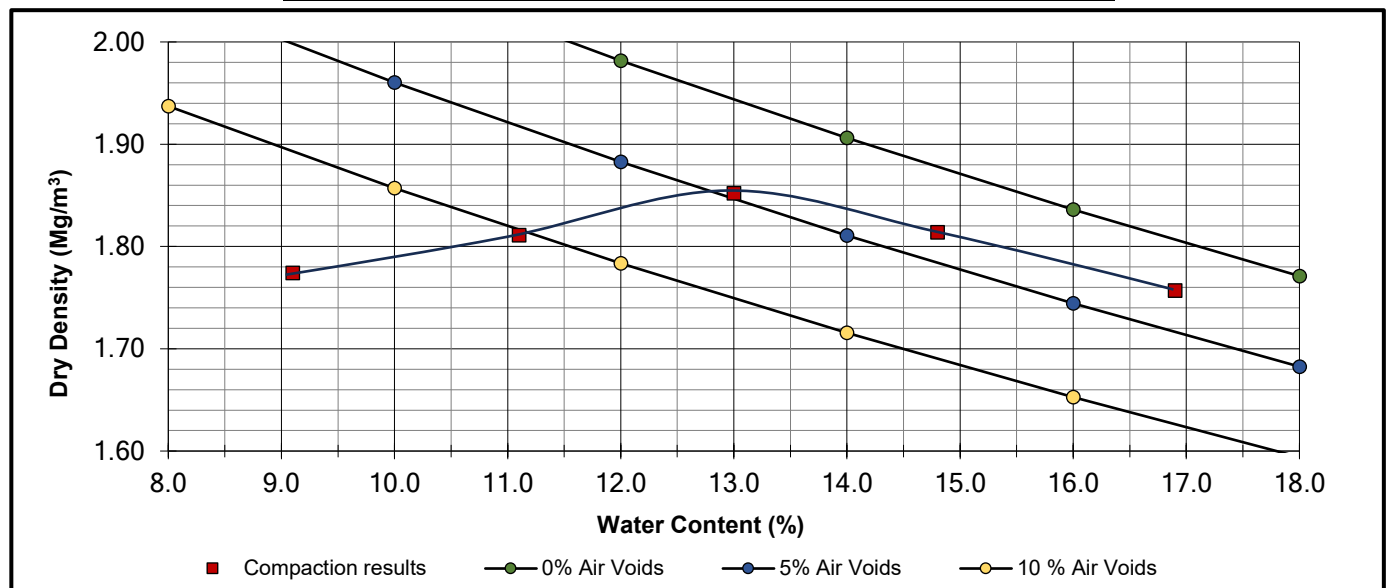
CLIENT	Tier Environmental Ltd		
SITE	TE1749 - Bryn Lane Detailed Planning		
JOB NUMBER	MRN 4625/32		

SAMPLE LABEL	TP104 0.4-0.6 B	DATE SAMPLED	Not advised
SAMPLE NUMBER	126550	DATE RECEIVED	08-Jun-23
DATE TESTED	07-Jul-23	SAMPLED BY	Client

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

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	9.1	1.774
2	11.1	1.811
3	13.0	1.852
4	14.8	1.814
5	16.9	1.757



OPTIMUM WATER CONTENT	13	(%)
MAXIMUM DRY DENSITY	1.85	(Mg/m ³)

REMARKS

As received water content = 18.1%

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

SIGNED

DATE 16-Aug-23

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TEST CERTIFICATE

DRY DENSITY/WATER CONTENT RELATIONSHIP 2.5kg RAMMER

BS 1377-2:2022 Cl.11

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

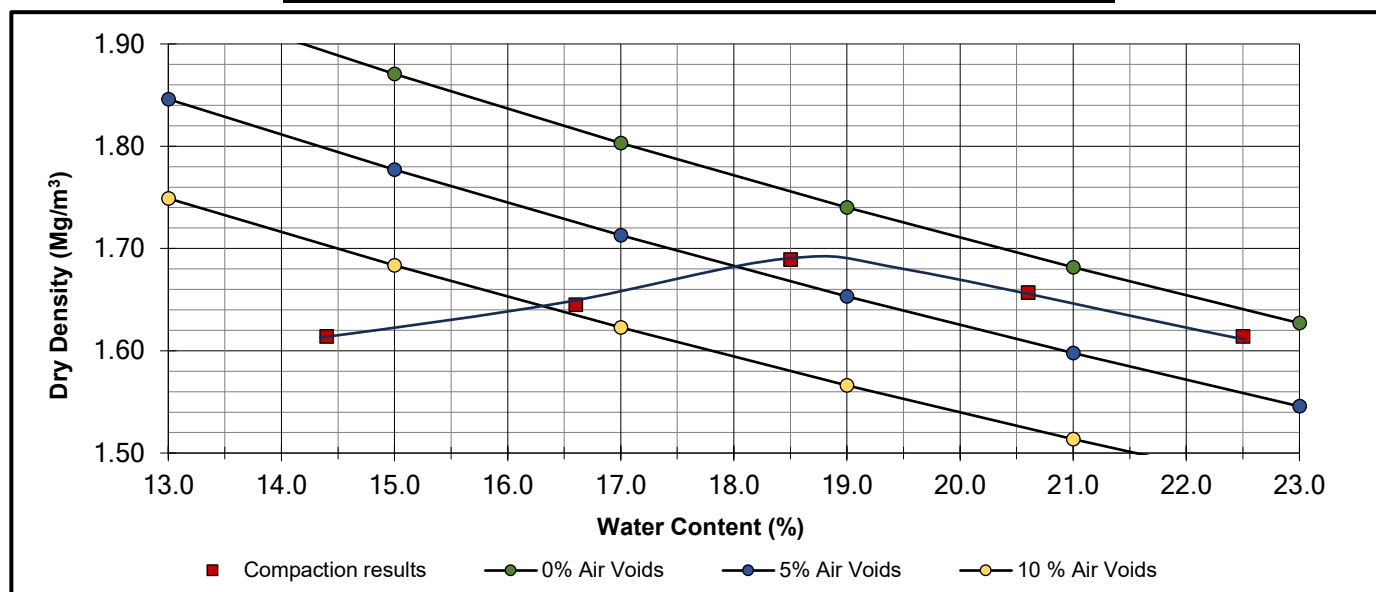
CLIENT	Tier Environmental Ltd
SITE	TE1749 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/32

SAMPLE LABEL	TP114 1.5 B	DATE SAMPLED	Not advised
SAMPLE NUMBER	126900	DATE RECEIVED	16-Jun-23
DATE TESTED	07-Jul-23	SAMPLED BY	Client

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

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	14.4	1.614
2	16.6	1.645
3	18.5	1.689
4	20.6	1.657
5	22.5	1.614



OPTIMUM WATER CONTENT	19 (%)
MAXIMUM DRY DENSITY	1.69 (Mg/m ³)

REMARKS

As received water content = 18.6%

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

SIGNED

DATE 16-Aug-23

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

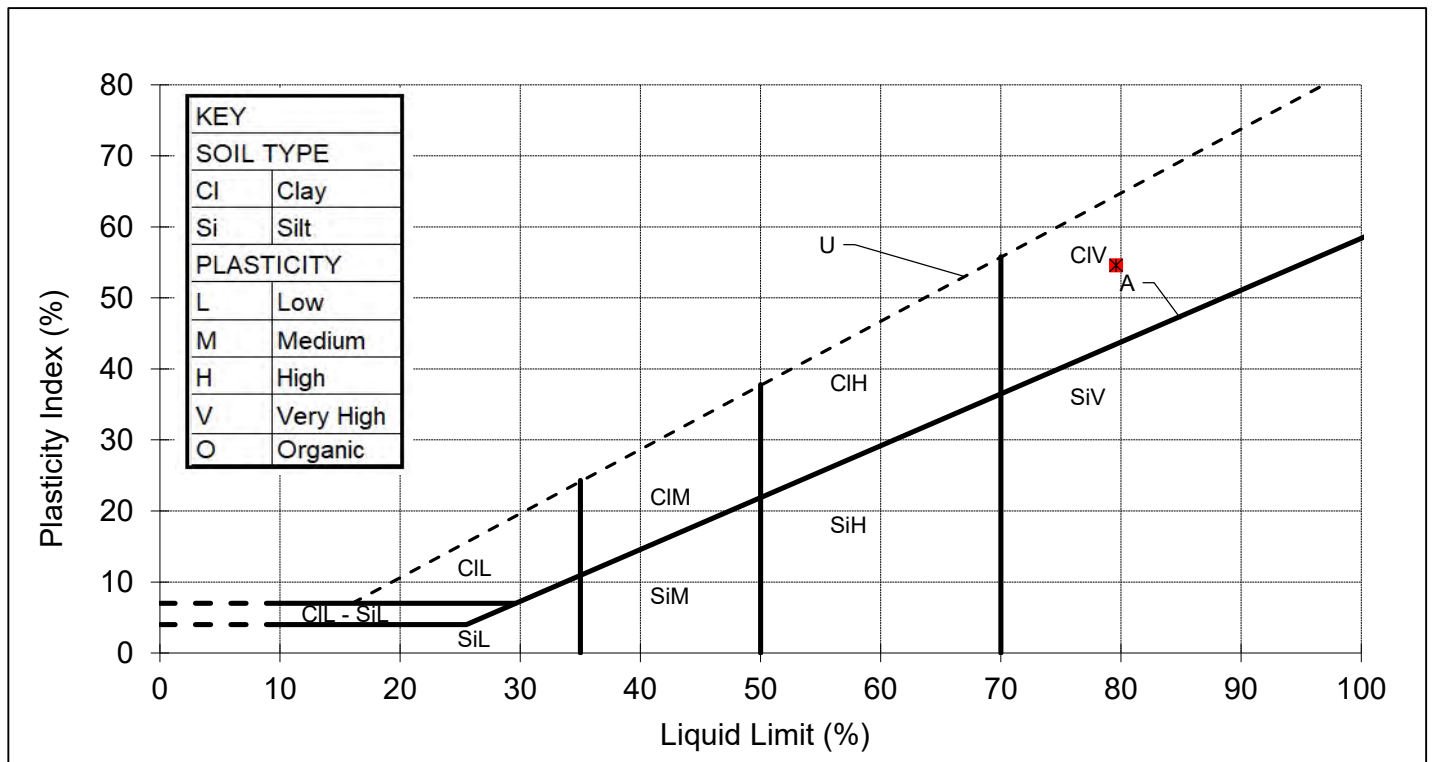
CLIENT	Tier Environmental Ltd		
SITE	TE1750 - Bryn Lane Detailed Planning		
JOB NUMBER	MRN 4625/33		

SAMPLE LABEL	TP117 0.7 B	DATE SAMPLED	Not advised
SAMPLE No.	126903	DATE RECEIVED	16-Jun-23
DATE TESTED	15-Jul-23	SAMPLED BY	Client

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

Test Readings mm (average)		Moisture Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	19.5	78.9	1.009	
Determination 2 (avg)	19.6	78.9		

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
67.0	80	25	55	95



REMARKS

SIGNED

NAME

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

DATE

16-Aug-23

MURRAY RIX

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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

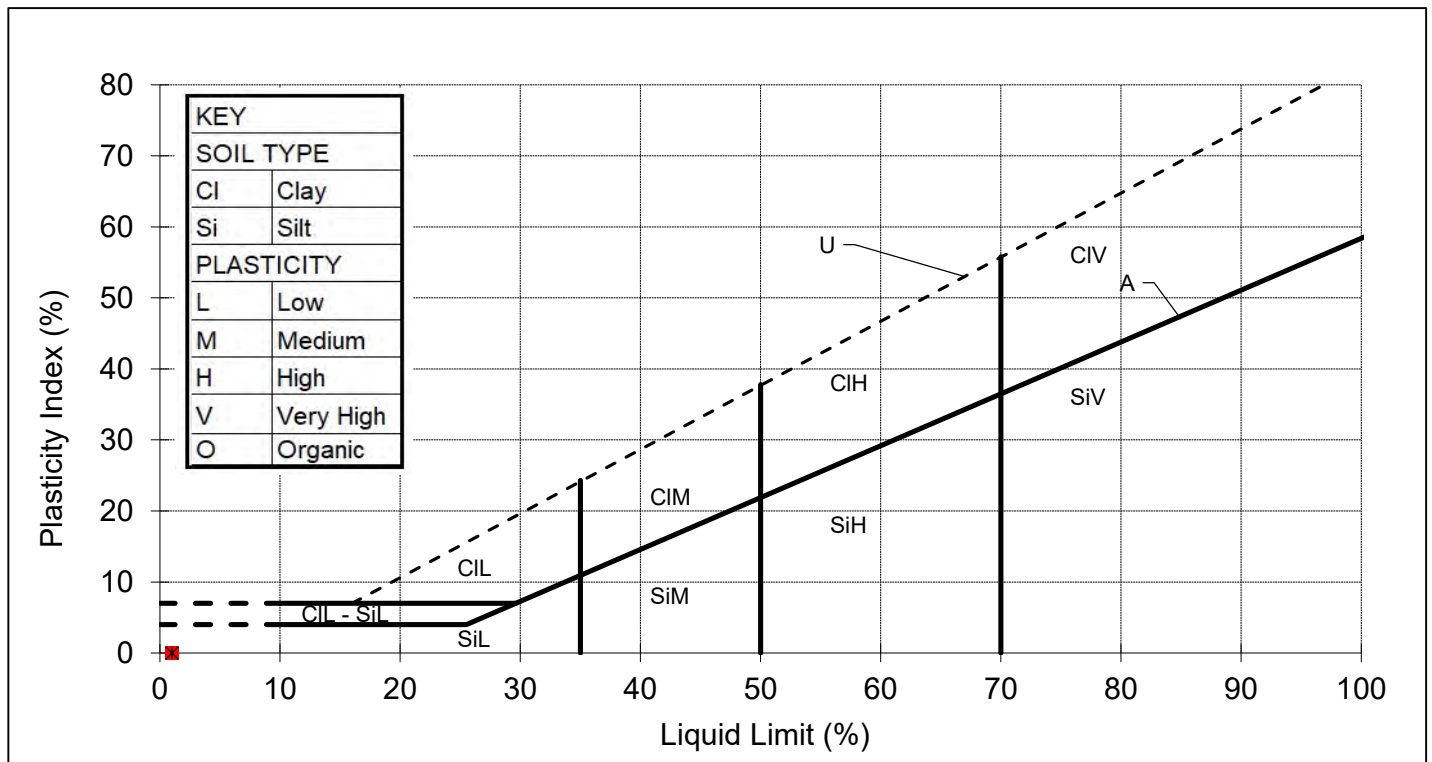
CLIENT	Tier Environmental Ltd		
SITE	TE1750 - Bryn Lane Detailed Planning		
JOB NUMBER	MRN 4625/33		

SAMPLE LABEL	TP118 0.5 D	DATE SAMPLED	Not advised
SAMPLE No.	126904	DATE RECEIVED	16-Jun-23
DATE TESTED	15-Jul-23	SAMPLED BY	Client

MATERIAL	Topsoil		
ADVISED SOURCE	Site Investigation Sample	WATER CONTENT	Increasing
SAMPLE HISTORY	Natural State	% RET. 425um BY	Wet Sieved

Test Readings mm (average)		Moisture Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	N/A	N/A	N/A	
Determination 2 (avg)	N/A	N/A		

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
416	N/A	Non Plastic	N/A	67



REMARKS

Sample did contain some plastic material but due to the amount of fine sand & silt was found to be non plastic

SIGNED

NAME

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

DATE

16-Aug-23

MURRAY RIX

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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

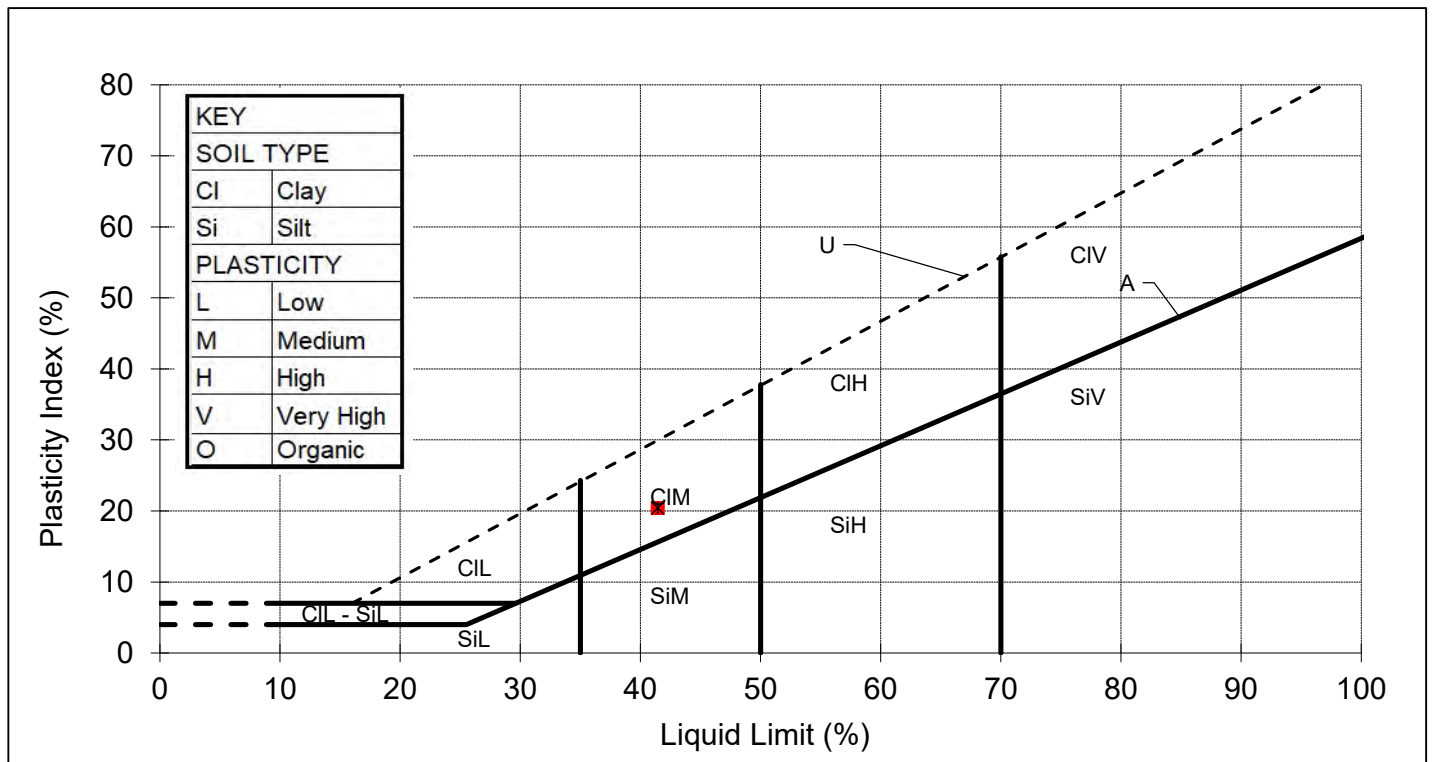
CLIENT	Tier Environmental Ltd		
SITE	TE1750 - Bryn Lane Detailed Planning		
JOB NUMBER	MRN 4625/33		

SAMPLE LABEL	TP121 1.8 B	DATE SAMPLED	Not advised
SAMPLE No.	126908	DATE RECEIVED	16-Jun-23
DATE TESTED	15-Jul-23	SAMPLED BY	Client

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

Test Readings mm (average)		Moisture Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	21.0	42.1	0.984	
Determination 2 (avg)	21.0	42.1		

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
20.2	41	21	20	98



REMARKS

SIGNED

NAME

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

DATE

16-Aug-23

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

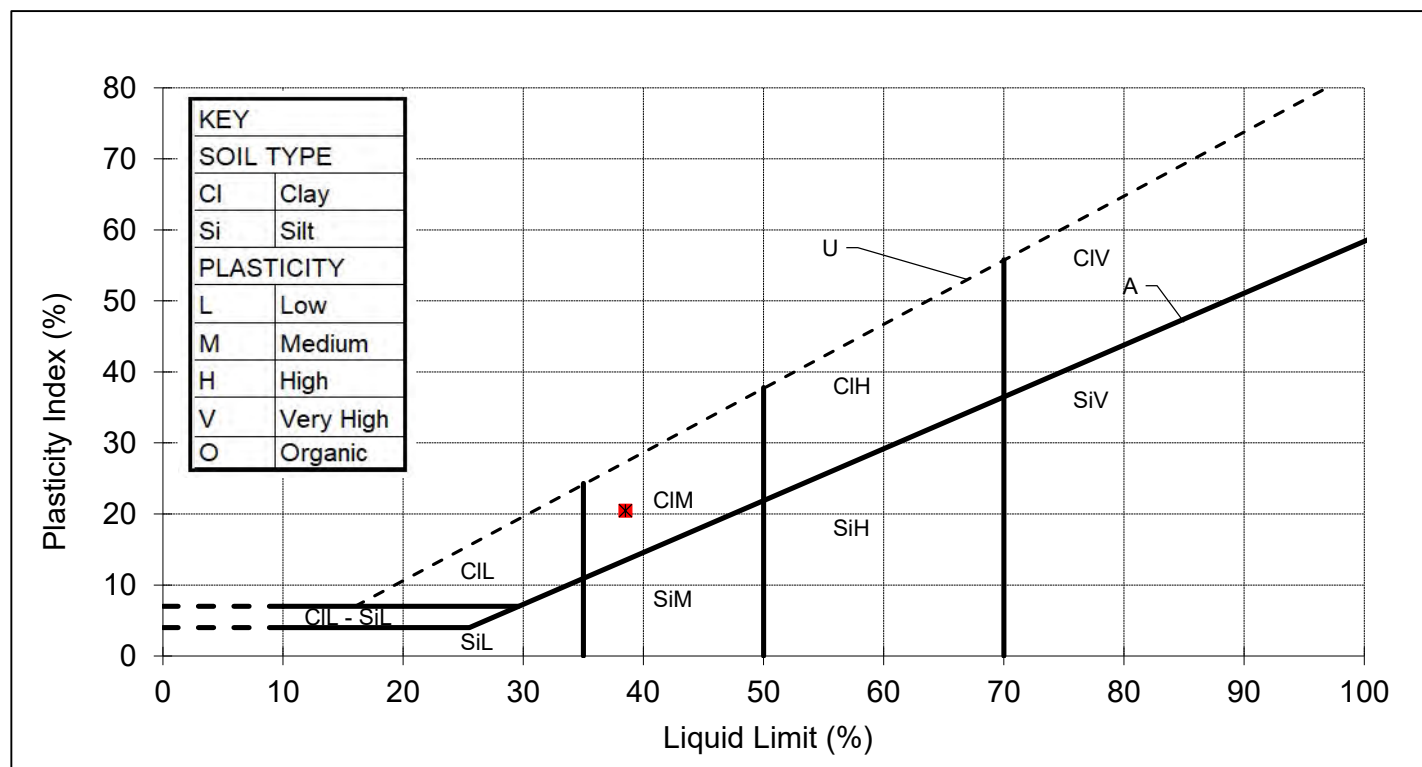
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP103 0.6-0.9 B	DATE SAMPLED	Not advised
SAMPLE No.	126925	DATE RECEIVED	16-Jun-23
DATE TESTED	15-Jul-23	SAMPLED BY	Client

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

Test Readings mm (average)	Moisture Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	19.2	37.9	
Determination 2 (avg)	19.1	37.8	

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
18.2	38	18	20	95



REMARKS

SIGNED

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

DATE

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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

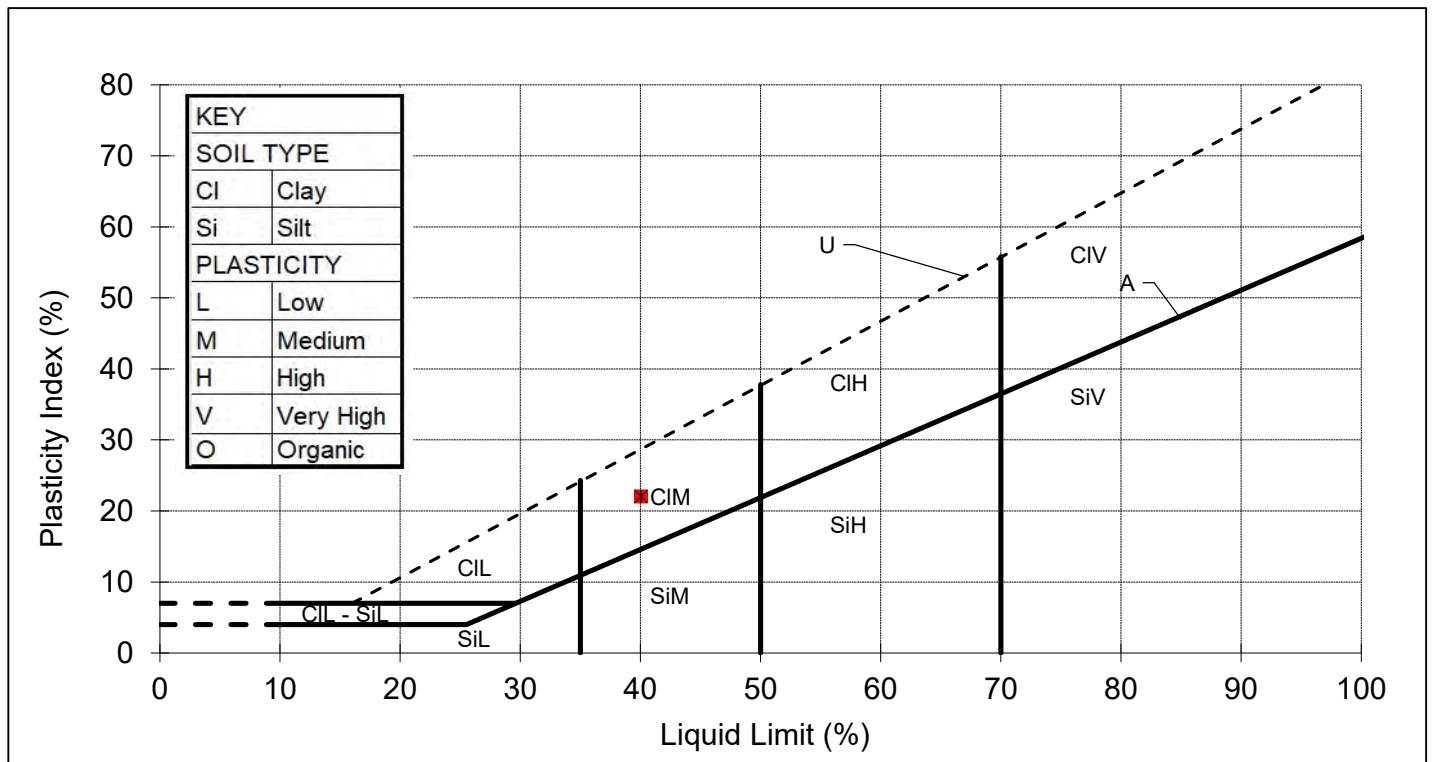
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	TP103 3-3.3 B	DATE SAMPLED	Not advised
SAMPLE No.	126556	DATE RECEIVED	16-Jun-23
DATE TESTED	15-Jul-23	SAMPLED BY	Client

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

Test Readings mm (average)		Moisture Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	20.0	40.0	1.001	
Determination 2 (avg)	20.0	40.0		

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
20.4	40	18	22	96



REMARKS

SIGNED

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

DATE

16-Aug-23

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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

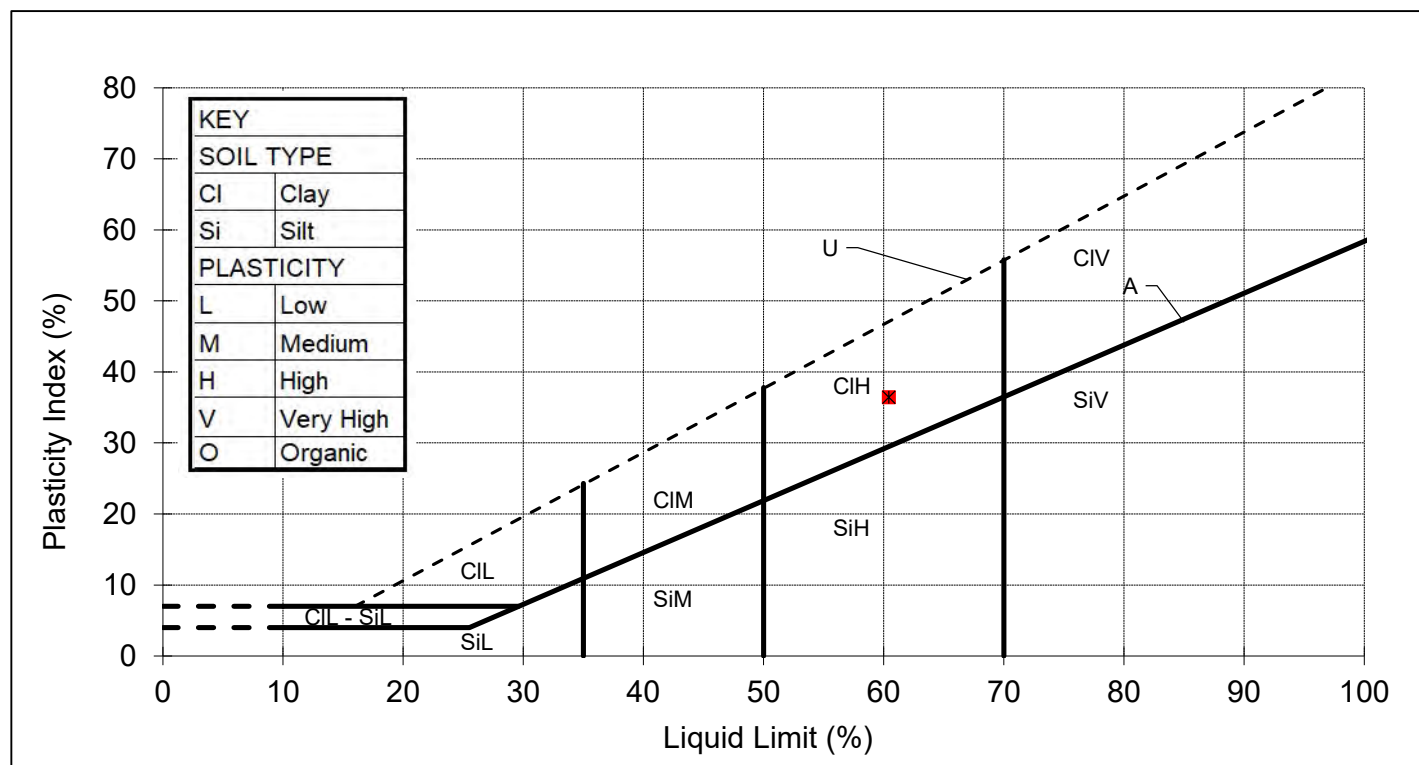
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP105 8.1 B	DATE SAMPLED	Not advised
SAMPLE No.	127614	DATE RECEIVED	27-Jun-23
DATE TESTED	15-Jul-23	SAMPLED BY	Client

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

Test Readings mm (average)	Moisture Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	17.5	57.9	
Determination 2 (avg)	17.5	57.7	

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
44.2	60	24	36	100



REMARKS

SIGNED

NAME

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

DATE

16-Aug-23

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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

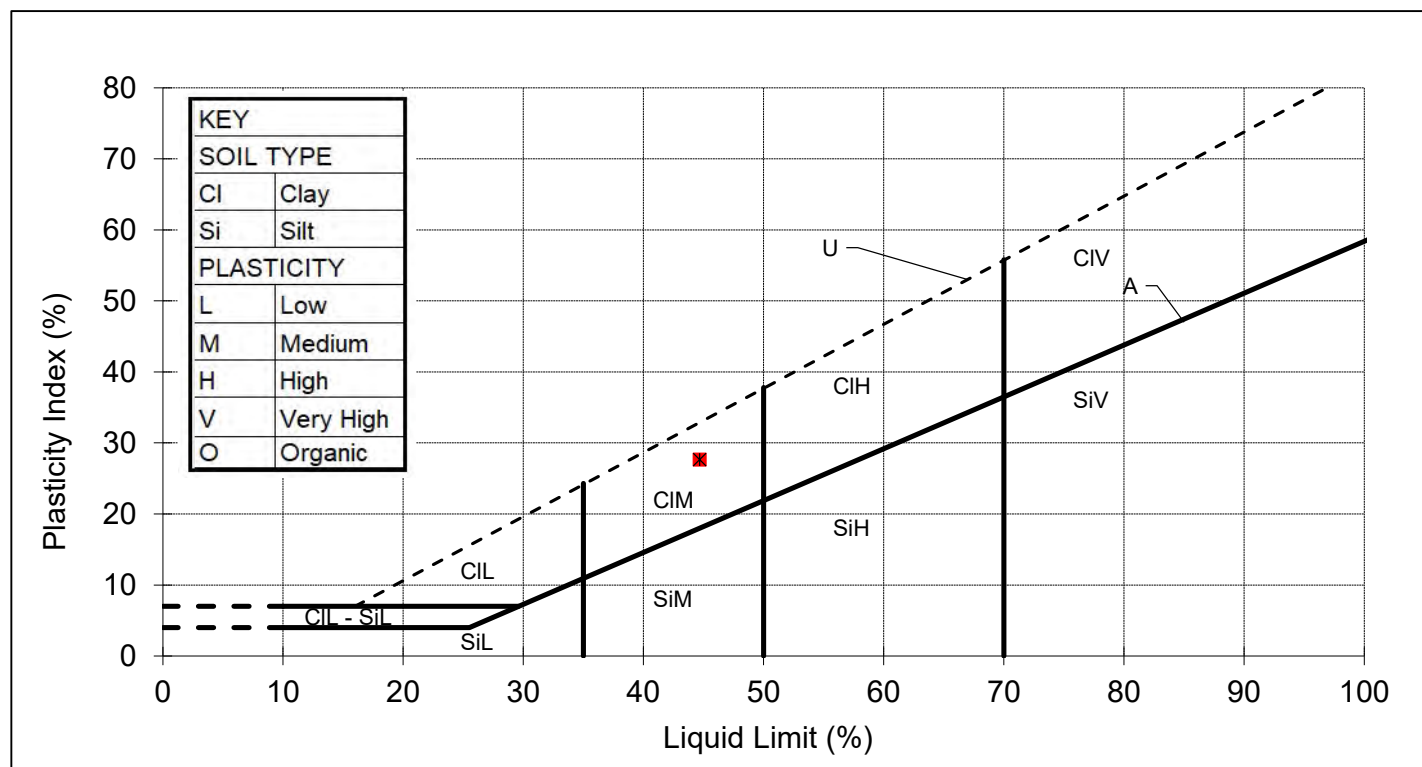
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP109 0.5-0.8 B	DATE SAMPLED	Not advised
SAMPLE No.	127604	DATE RECEIVED	27-Jun-23
DATE TESTED	15-Jul-23	SAMPLED BY	Client

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

Test Readings mm (average)		Moisture Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	18.1	43.2	1.038	
Determination 2 (avg)	18.0	42.9		

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
15.9	45	17	28	97



REMARKS

SIGNED

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O.P. Davies BA (Hons)
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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

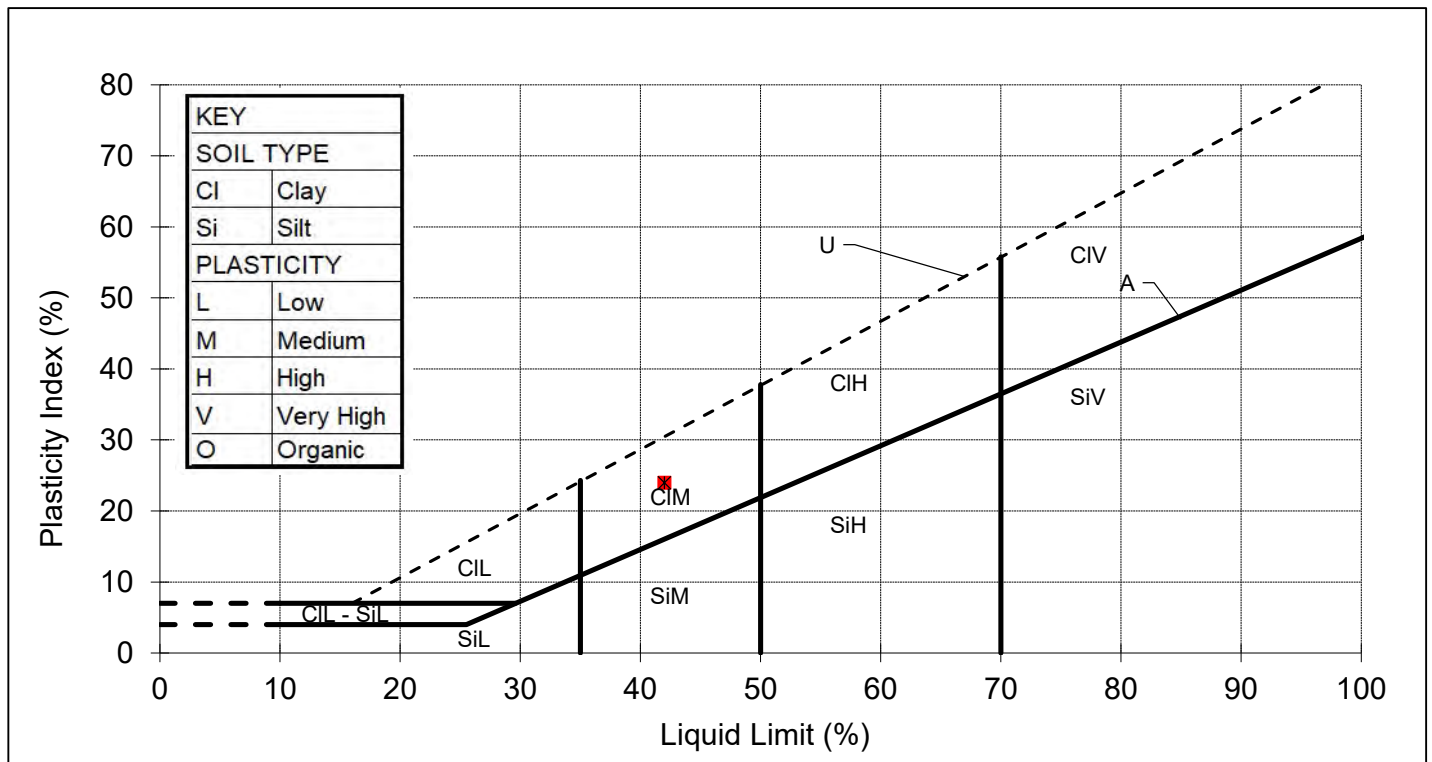
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	TP101 0.2-0.3 B	DATE SAMPLED	Not advised
SAMPLE No.	126548	DATE RECEIVED	08-Jun-23
DATE TESTED	15-Jul-23	SAMPLED BY	Client

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

Test Readings mm (average)		Moisture Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	19.7	41.7	1.007	
Determination 2 (avg)	19.6	41.7		

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
22.4	42	18	24	98



REMARKS

SIGNED

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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

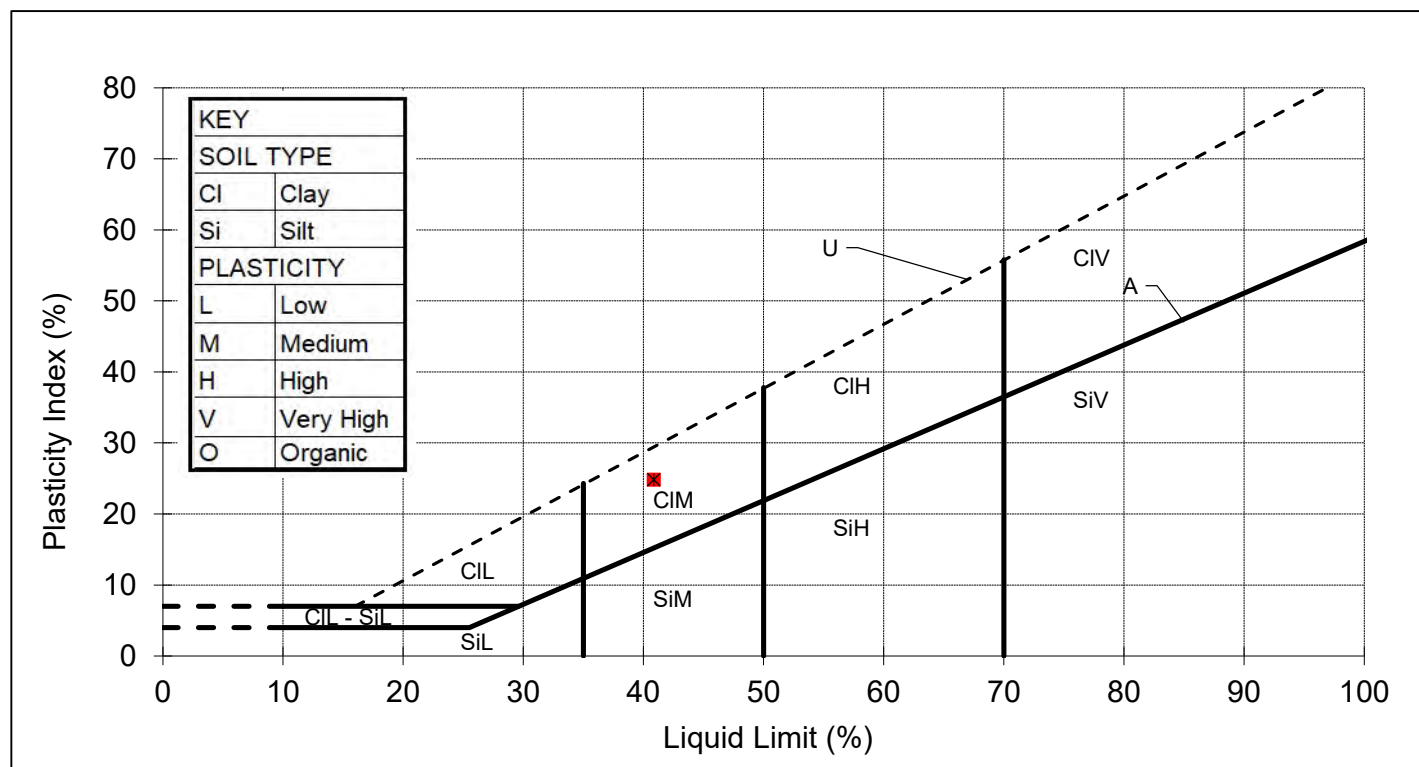
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	TP102 1.3-1.6 B	DATE SAMPLED	Not advised
SAMPLE No.	126552	DATE RECEIVED	08-Jun-23
DATE TESTED	15-Jul-23	SAMPLED BY	Client

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

Test Readings mm (average)	Moisture Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	18.8	40.0	
Determination 2 (avg)	18.8	40.1	

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
18.2	41	16	25	96



REMARKS

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O.P. Davies BA (Hons)
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DATE

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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

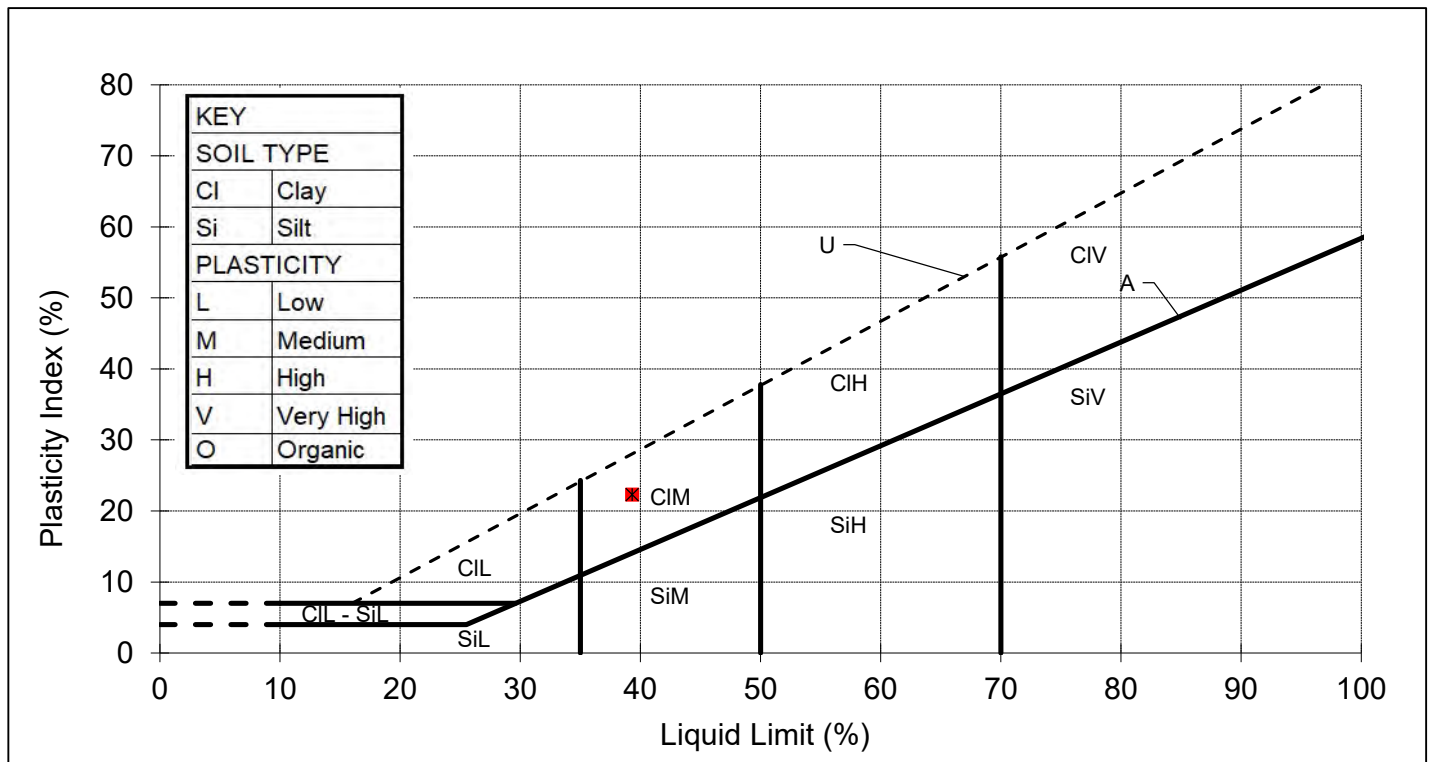
CLIENT	Tier Environmental Ltd		
SITE	TE1750 - Bryn Lane Detailed Planning		
JOB NUMBER	MRN 4625/33		

SAMPLE LABEL	TP104 0.4-0.6 B	DATE SAMPLED	Not advised
SAMPLE No.	126550	DATE RECEIVED	08-Jun-23
DATE TESTED	15-Jul-23	SAMPLED BY	Client

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

Test Readings mm (average)		Moisture Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	19.2	38.7	1.017	
Determination 2 (avg)	19.1	38.6		

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
18.1	39	17	22	99



REMARKS

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(Laboratory Manager)

DATE

16-Aug-23

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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

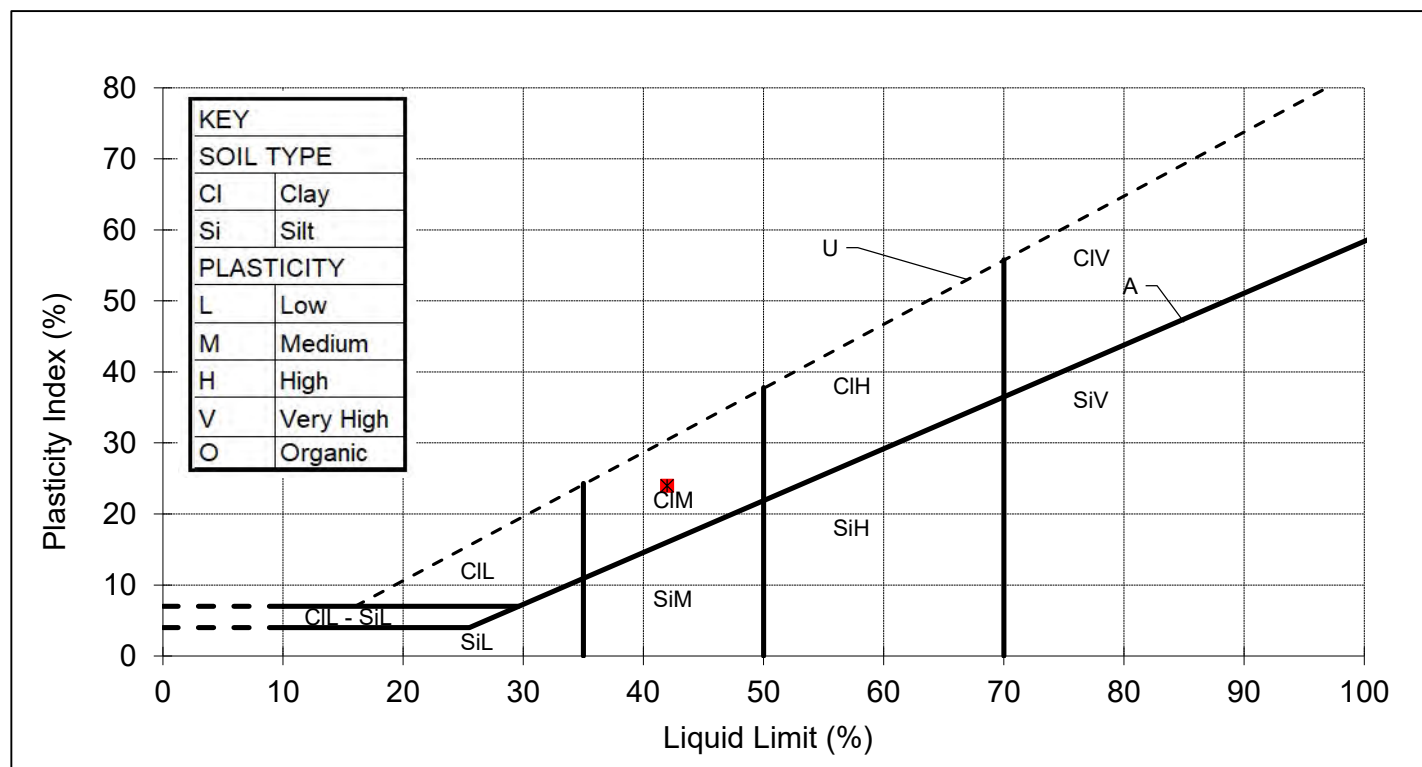
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	TP108 2.2 B	DATE SAMPLED	Not advised
SAMPLE No.	126562	DATE RECEIVED	08-Jun-23
DATE TESTED	15-Jul-23	SAMPLED BY	Client

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

Test Readings mm (average)	Moisture Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	18.7	41.1	
Determination 2 (avg)	18.9	41.2	

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
17.6	42	18	24	98



REMARKS

SIGNED

NAME

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

DATE

16-Aug-23

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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

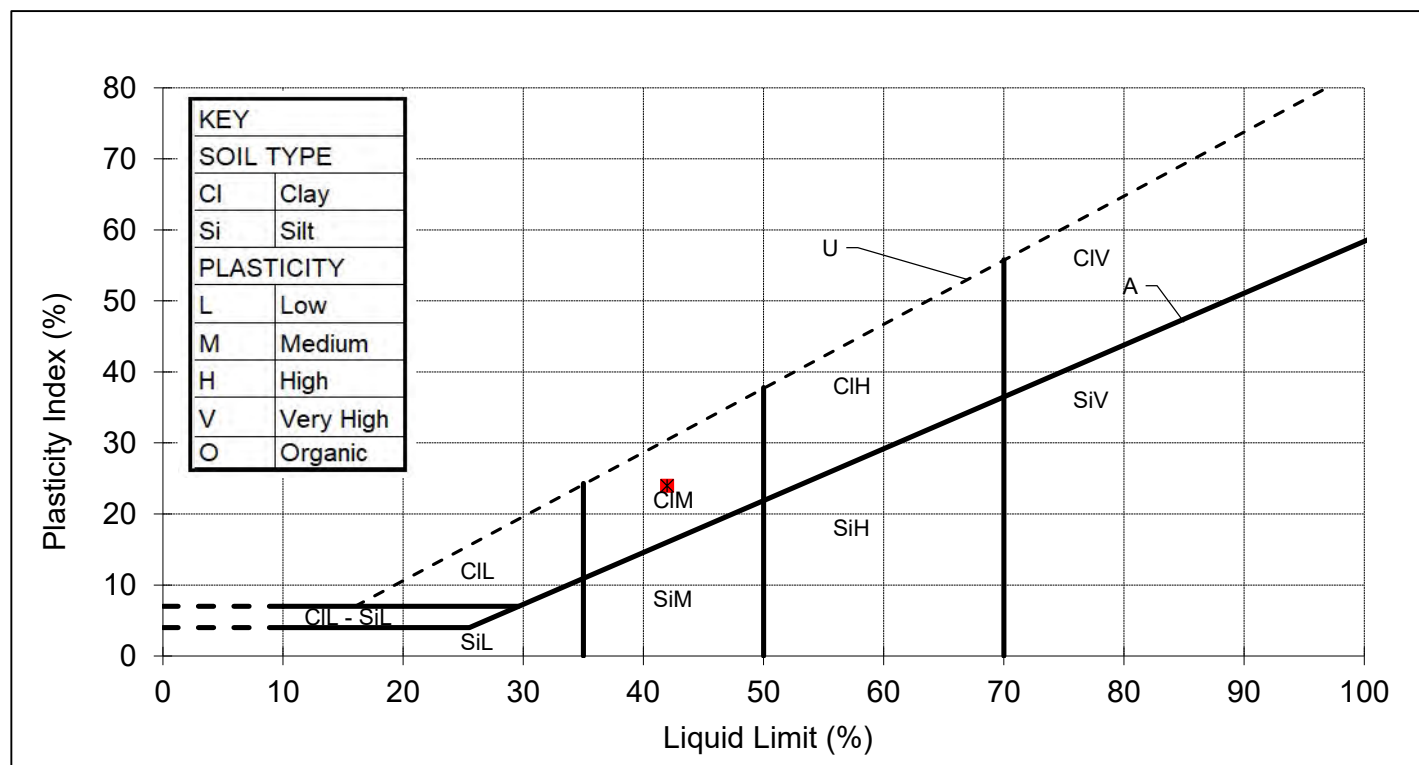
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	TP114 1.5 B	DATE SAMPLED	Not advised
SAMPLE No.	126900	DATE RECEIVED	16-Jun-23
DATE TESTED	15-Jul-23	SAMPLED BY	Client

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

Test Readings mm (average)		Moisture Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	18.7	41.1	1.020	
Determination 2 (avg)	18.9	41.2		

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
18.6	42	18	24	99



REMARKS

SIGNED

NAME

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

DATE

16-Aug-23

MURRAY RIX

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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

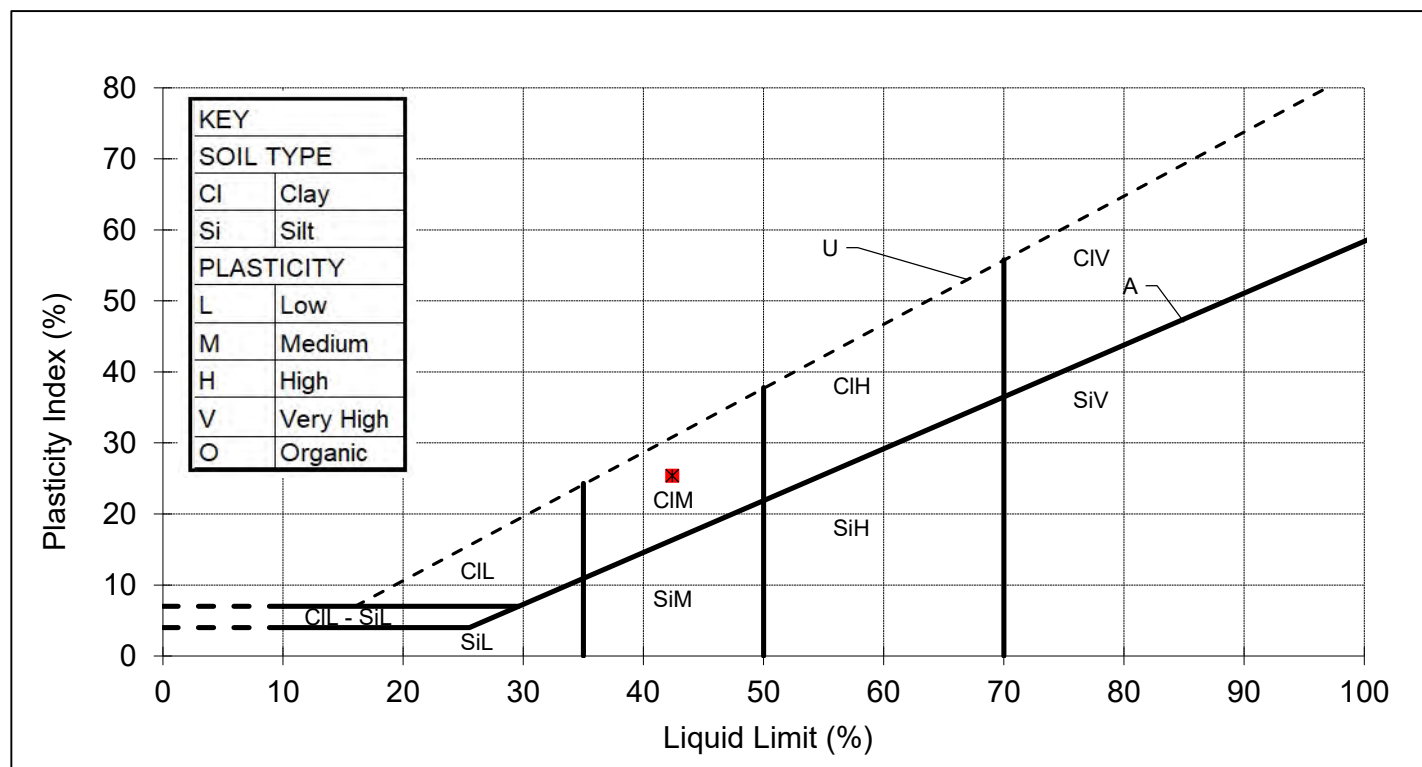
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	TP116 1.6 B	DATE SAMPLED	Not advised
SAMPLE No.	126902	DATE RECEIVED	16-Jun-23
DATE TESTED	15-Jul-23	SAMPLED BY	Client

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

Test Readings mm (average)		Moisture Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	17.4	40.4	1.050	
Determination 2 (avg)	17.2	40.4		

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
18.3	42	17	25	95



REMARKS

SIGNED

NAME

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

DATE

16-Aug-23

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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

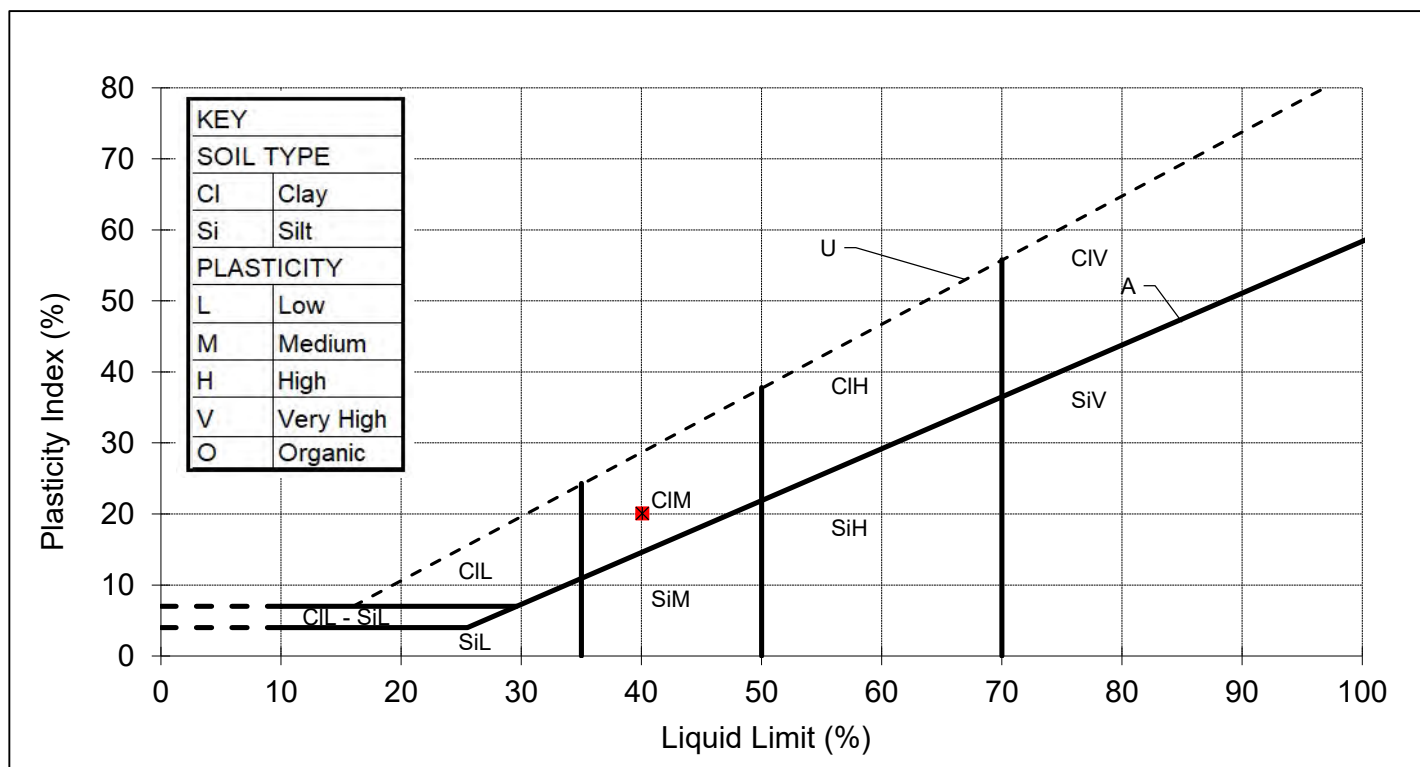
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	TP120 1.3 B	DATE SAMPLED	Not advised
SAMPLE No.	126907	DATE RECEIVED	16-Jun-23
DATE TESTED	15-Jul-23	SAMPLED BY	Client

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

Test Readings mm (average)		Moisture Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	18.6	38.9	1.023	
Determination 2 (avg)	18.7	39.4		

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
23.4	40	20	20	99



REMARKS

SIGNED

NAME

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

DATE

16-Aug-23

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TEST CERTIFICATE

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

BS 1377 : PART 7: Clause 9 Multi Stage

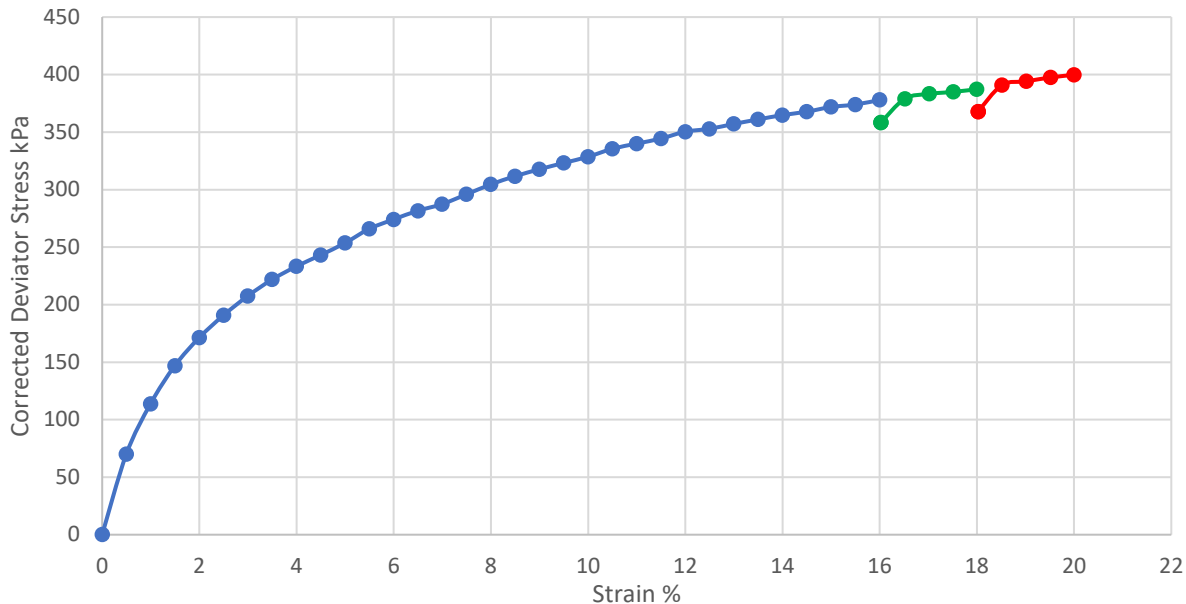
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP101 2.2-2.65 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	126966	DATE RECEIVED	16-Jun-23
DATE TESTED	17-Jul-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

INITIAL CONDITIONS

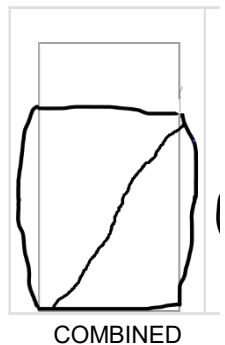
Specimen Location	Sample Length (mm)	350	Specimen depth from top of Sample (mm)	30
	Sample Orientation	Vertical	Specimen Condition	Undisturbed
	Specimen Length (mm)	190	Specimen Moisture Content (%)	17.2
	Specimen Diameter (mm)	101	Specimen Bulk Density (Mg/m ³)	1.99
	Membrane Thickness (mm)	0.40	Specimen Dry Density (Mg/m ³)	1.70
	Membrane Correction	1.27	1.38	1.50

CORRECTED DEVIATOR STRESS vs AXIAL STRAIN



TEST TYPE
MULTI STAGE

SKETCH OF
SPECIMEN AT
FAILURE



Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength Cu (kPa)
20	16	2	373.9	187
45	18	2	385.0	192
90	20	2	397.6	199

Remarks/Abnormalities

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

Signed

Date 16 August 2023

MURRAY RIX

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



TEST CERTIFICATE

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

BS 1377 : PART 7: Clause 9 Multi Stage

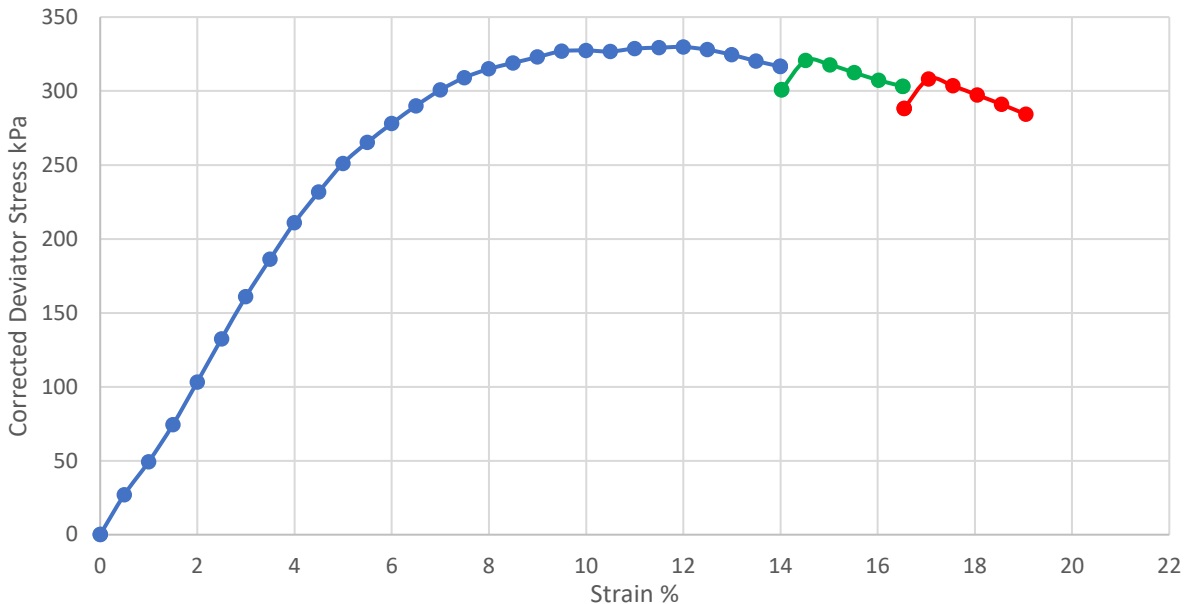
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP101 9.7-10.15 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	126969	DATE RECEIVED	16-Jun-23
DATE TESTED	24-Jul-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

INITIAL CONDITIONS

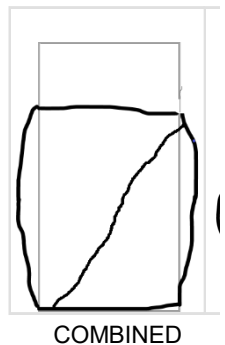
Specimen Location	Sample Length (mm)	450	Specimen depth from top of Sample (mm)	90
	Sample Orientation	Vertical	Specimen Condition	Undisturbed
	Specimen Length (mm)	203	Specimen Moisture Content (%)	17.4
	Specimen Diameter (mm)	101	Specimen Bulk Density (Mg/m ³)	2.17
	Membrane Thickness (mm)	0.40	Specimen Dry Density (Mg/m ³)	1.85
	Membrane Correction	1.15	1.30	1.49

CORRECTED DEVIATOR STRESS vs AXIAL STRAIN



TEST TYPE
MULTI STAGE

SKETCH OF
SPECIMEN AT
FAILURE



Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength c_u (kPa)
95	12	2	329.8	165
195	15	2	320.7	160
390	17	2	308.2	154

Remarks/Abnormalities

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

Signed

Date 16 August 2023

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
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TEST CERTIFICATE

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

BS 1377 : PART 7: Clause 9 Multi Stage

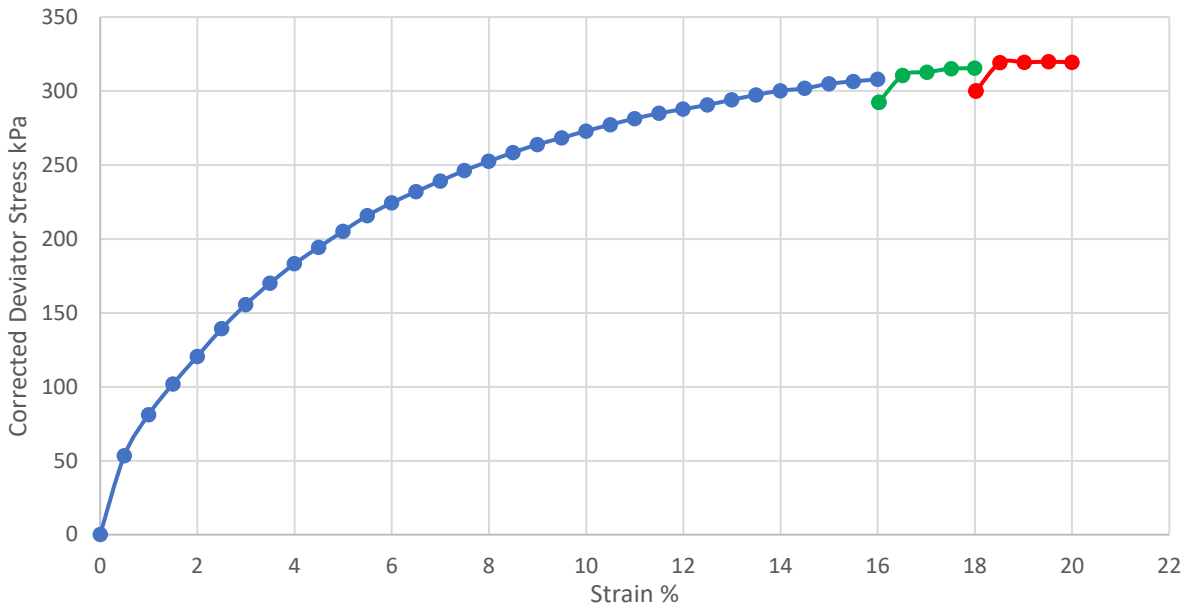
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP102 3.3-3.75 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	126971	DATE RECEIVED	16-Jun-23
DATE TESTED	31-Jul-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

INITIAL CONDITIONS

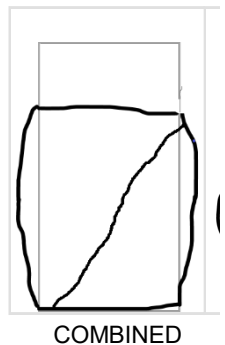
Specimen Location	Sample Length (mm)	390	Specimen depth from top of Sample (mm)	60
	Sample Orientation	Vertical	Specimen Condition	Undisturbed
	Specimen Length (mm)	201	Specimen Moisture Content (%)	22.7
	Specimen Diameter (mm)	99	Specimen Bulk Density (Mg/m ³)	1.91
	Membrane Thickness (mm)	0.40	Specimen Dry Density (Mg/m ³)	1.56
	Membrane Correction	1.29	1.41	1.53

CORRECTED DEVIATOR STRESS vs AXIAL STRAIN



TEST TYPE
MULTI STAGE

SKETCH OF
SPECIMEN AT
FAILURE



Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength Cu (kPa)
35	16	2	306.5	153
70	18	2	315.1	158
140	20	2	319.8	160

Remarks/Abnormalities

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

Signed

Date 16 August 2023

MURRAY RIX

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



TEST CERTIFICATE

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

BS 1377 : PART 7: Clause 9 Multi Stage

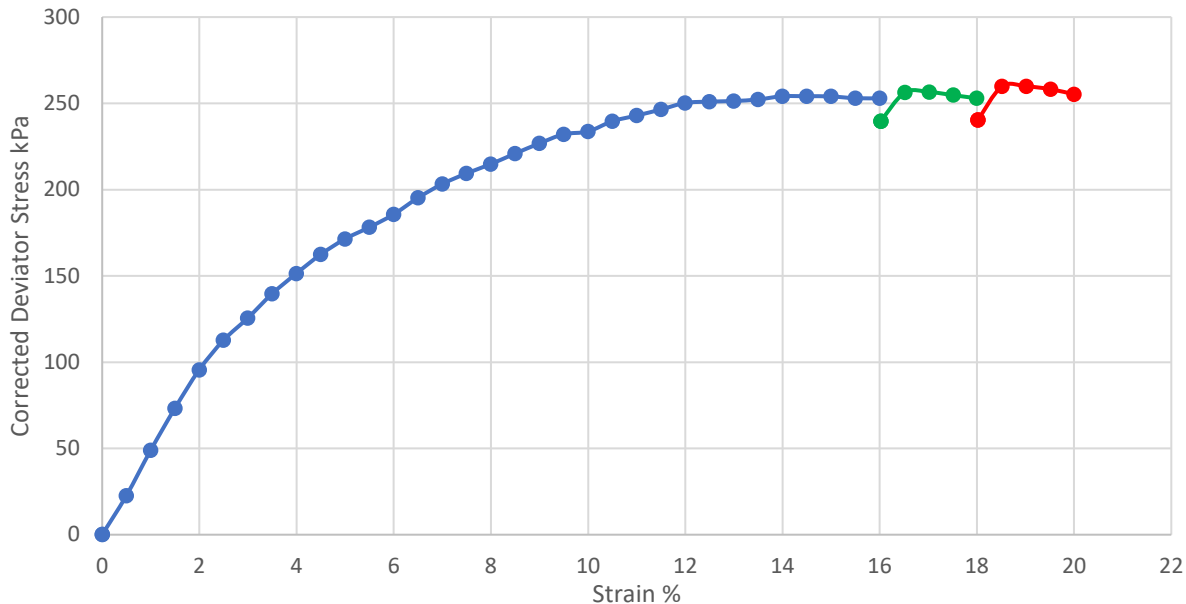
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP102 8.3-8.75 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	126974	DATE RECEIVED	16-Jun-23
DATE TESTED	25-Jul-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

INITIAL CONDITIONS

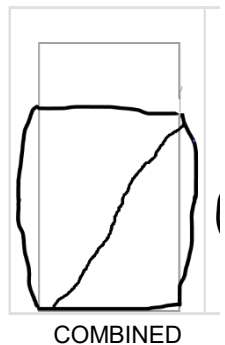
Specimen Location	Sample Length (mm)	410	Specimen depth from top of Sample (mm)	50
	Sample Orientation	Vertical	Specimen Condition	Undisturbed
	Specimen Length (mm)	200	Specimen Moisture Content (%)	17.7
	Specimen Diameter (mm)	99	Specimen Bulk Density (Mg/m ³)	2.06
	Membrane Thickness (mm)	0.40	Specimen Dry Density (Mg/m ³)	1.75
	Membrane Correction	1.29	1.40	1.52

CORRECTED DEVIATOR STRESS vs AXIAL STRAIN



TEST TYPE
MULTI STAGE

SKETCH OF
SPECIMEN AT
FAILURE



Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength c_u (kPa)
80	15	2	254.1	127
165	17	2	256.6	128
330	19	2	259.9	130

Remarks/Abnormalities

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

Signed

Date 16 August 2023

MURRAY RIX

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



TEST CERTIFICATE

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

BS 1377 : PART 7: Clause 9 Multi Stage

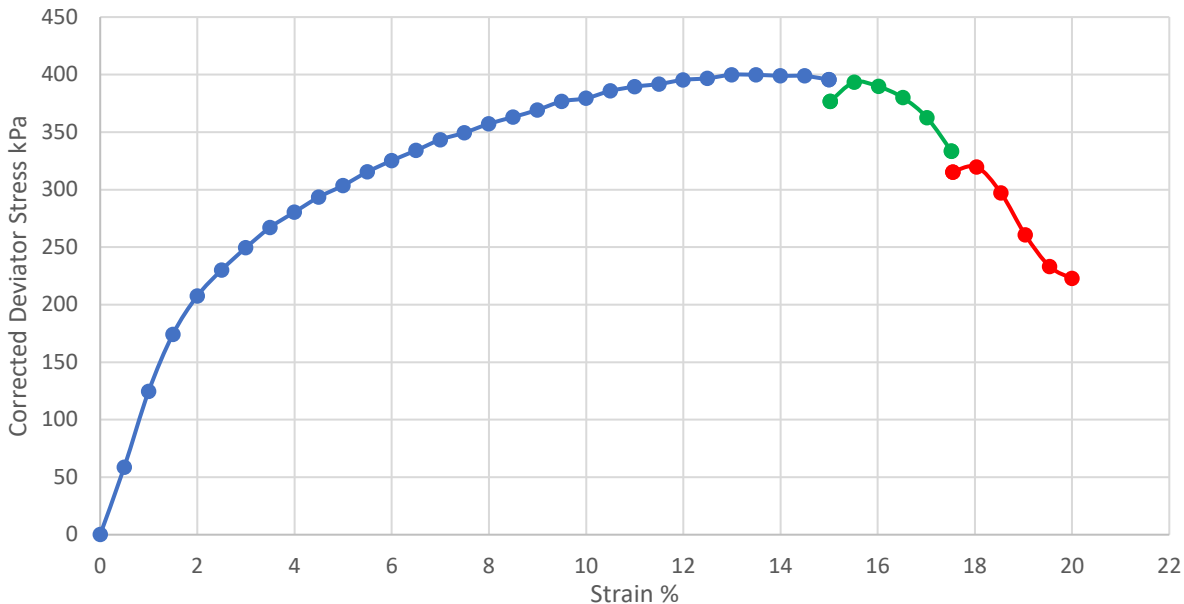
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP103 2.3-2.75 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	126975	DATE RECEIVED	16-Jun-23
DATE TESTED	25-Jul-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

INITIAL CONDITIONS

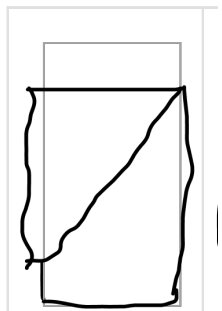
Specimen Location	Sample Length (mm)	450	Specimen depth from top of Sample (mm)	120
	Sample Orientation	Vertical	Specimen Condition	Undisturbed
	Specimen Length (mm)	200	Specimen Moisture Content (%)	17.8
	Specimen Diameter (mm)	101	Specimen Bulk Density (Mg/m ³)	1.82
	Membrane Thickness (mm)	0.40	Specimen Dry Density (Mg/m ³)	1.54
	Membrane Correction	1.21	1.35	1.49

CORRECTED DEVIATOR STRESS vs AXIAL STRAIN



TEST TYPE
MULTI STAGE

SKETCH OF
SPECIMEN AT
FAILURE



SIMPLE_SHEAR

Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength Cu (kPa)
25	13	2	399.9	200
50	16	2	393.4	197
100	18	2	319.7	160

Remarks/Abnormalities

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

Signed

Date 16 August 2023

MURRAY RIX

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TEST CERTIFICATE

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

BS 1377 : PART 7: Clause 9 Multi Stage

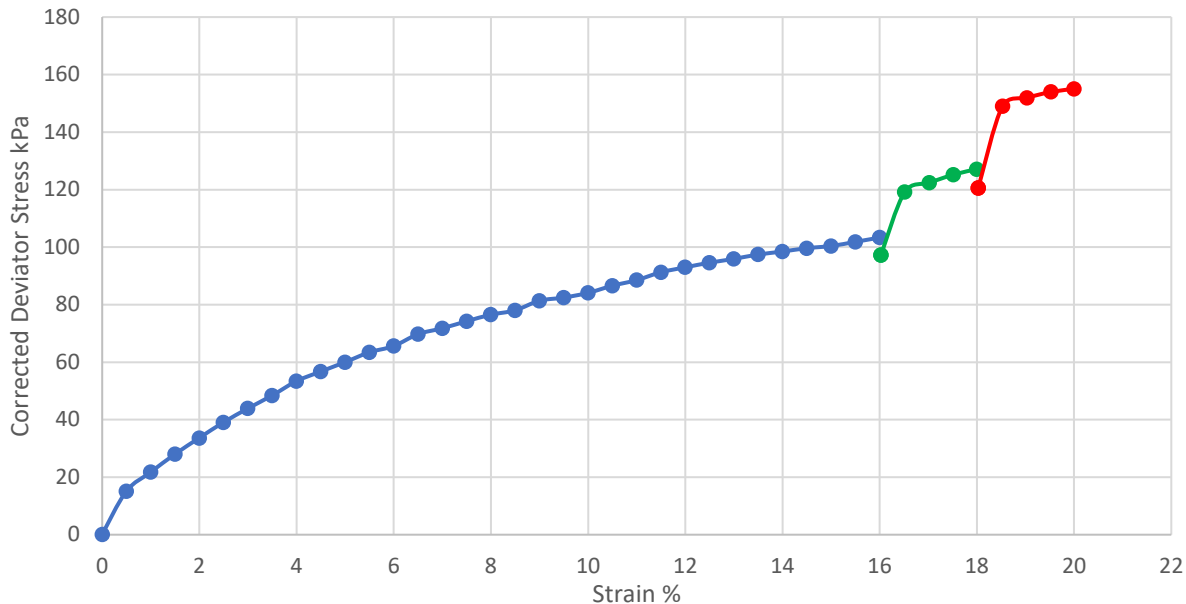
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP103 13.1-13.55 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	126977	DATE RECEIVED	16-Jun-23
DATE TESTED	25-Jul-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

INITIAL CONDITIONS

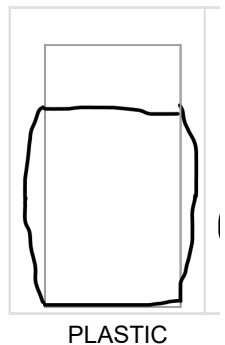
Specimen Location	Sample Length (mm)	370	Specimen depth from top of Sample (mm)	90
	Sample Orientation	Vertical	Specimen Condition	Undisturbed
	Specimen Length (mm)	200	Specimen Moisture Content (%)	18.1
	Specimen Diameter (mm)	100	Specimen Bulk Density (Mg/m ³)	2.21
	Membrane Thickness (mm)	0.40	Specimen Dry Density (Mg/m ³)	1.87
	Membrane Correction	1.28	1.39	1.51

CORRECTED DEVIATOR STRESS vs AXIAL STRAIN



TEST TYPE
MULTI STAGE

SKETCH OF
SPECIMEN AT
FAILURE



Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength Cu (kPa)
130	16	2	101.8	51
265	18	2	125.2	63
530	20	2	154.0	77

Remarks/Abnormalities

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

Signed

Date 16 August 2023

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TEL 0161 475 0870



TEST CERTIFICATE

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

BS 1377 : PART 7: Clause 9 Multi Stage

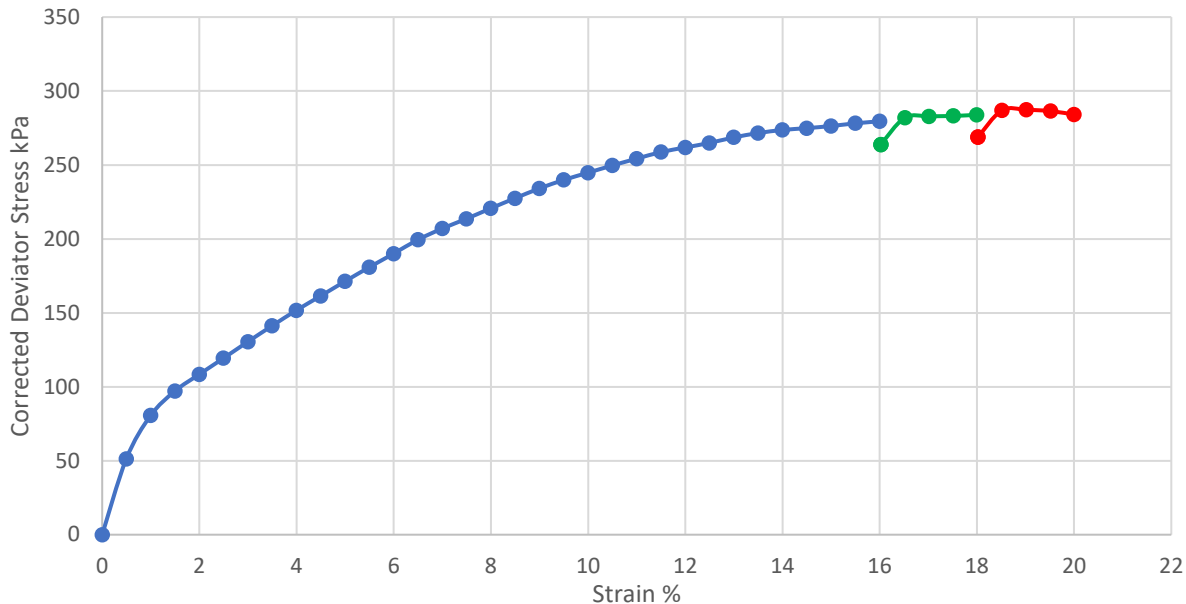
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP104 4.4-4.85 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	127554	DATE RECEIVED	27-Jun-23
DATE TESTED	25-Jul-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

INITIAL CONDITIONS

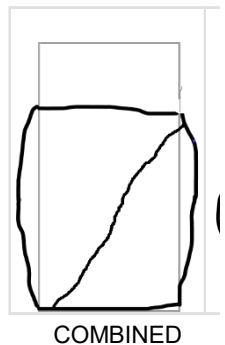
Specimen Location	Sample Length (mm)	360	Specimen depth from top of Sample (mm)	100
	Sample Orientation	Vertical	Specimen Condition	Undisturbed
	Specimen Length (mm)	200	Specimen Moisture Content (%)	16.6
	Specimen Diameter (mm)	100	Specimen Bulk Density (Mg/m ³)	2.20
	Membrane Thickness (mm)	0.40	Specimen Dry Density (Mg/m ³)	1.89
	Membrane Correction	1.28	1.39	1.51

CORRECTED DEVIATOR STRESS vs AXIAL STRAIN



TEST TYPE
MULTI STAGE

SKETCH OF
SPECIMEN AT
FAILURE



Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength C_u (kPa)
45	16	2	278.1	139
90	18	2	283.1	142
180	19	2	287.3	144

Remarks/Abnormalities

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

Signed

Date 16 August 2023

MURRAY RIX

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TEST CERTIFICATE

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

BS 1377 : PART 7: Clause 9 Multi Stage

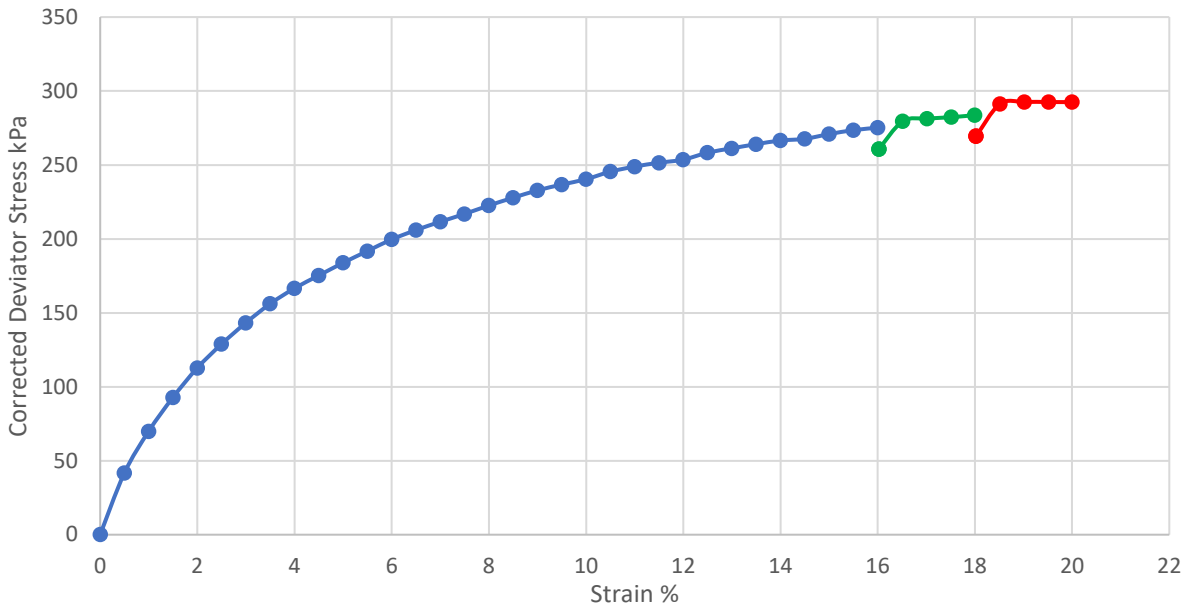
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP104 7.1-7.55 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	127555	DATE RECEIVED	27-Jun-23
DATE TESTED	25-Jul-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

INITIAL CONDITIONS

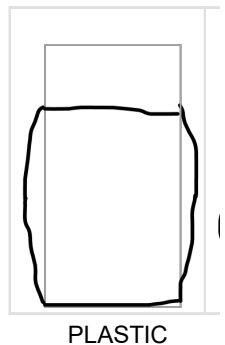
Specimen Location	Sample Length (mm)	400	Specimen depth from top of Sample (mm)	110
	Sample Orientation	Vertical	Specimen Condition	Undisturbed
	Specimen Length (mm)	200	Specimen Moisture Content (%)	17.9
	Specimen Diameter (mm)	101	Specimen Bulk Density (Mg/m ³)	2.16
	Membrane Thickness (mm)	0.40	Specimen Dry Density (Mg/m ³)	1.83
	Membrane Correction	1.27	1.38	1.50

CORRECTED DEVIATOR STRESS vs AXIAL STRAIN



TEST TYPE
MULTI STAGE

SKETCH OF
SPECIMEN AT
FAILURE



Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength Cu (kPa)
70	16	2	273.5	137
145	18	2	282.3	141
290	19	2	292.6	146

Remarks/Abnormalities

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

Signed

Date 16 August 2023

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TEST CERTIFICATE

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

BS 1377 : PART 7: Clause 9 Multi Stage

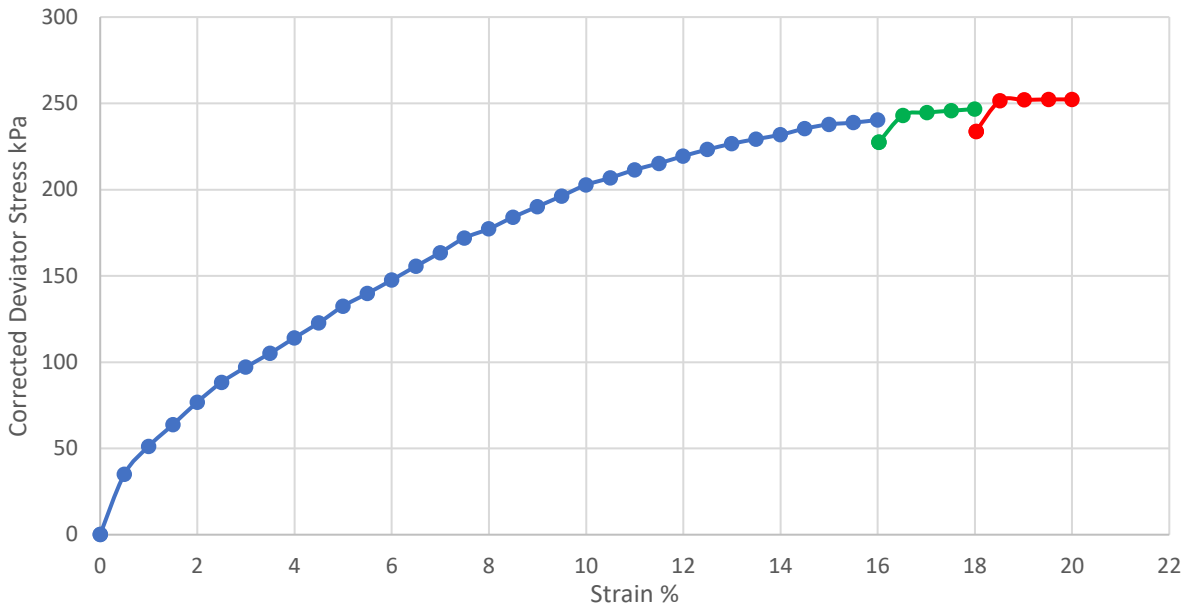
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP105 4.3-4.75 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	127558	DATE RECEIVED	27-Jun-23
DATE TESTED	26-Jul-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

INITIAL CONDITIONS

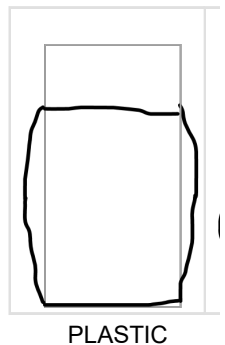
Specimen Location	Sample Length (mm)	450	Specimen depth from top of Sample (mm)	160
	Sample Orientation	Vertical	Specimen Condition	Undisturbed
	Specimen Length (mm)	199	Specimen Moisture Content (%)	24.2
	Specimen Diameter (mm)	101	Specimen Bulk Density (Mg/m ³)	2.11
	Membrane Thickness (mm)	0.40	Specimen Dry Density (Mg/m ³)	1.70
	Membrane Correction	1.27	1.39	1.50

CORRECTED DEVIATOR STRESS vs AXIAL STRAIN



TEST TYPE
MULTI STAGE

SKETCH OF
SPECIMEN AT
FAILURE



Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength C_u (kPa)
45	16	2	238.8	119
90	18	2	245.7	123
180	20	2	252.3	126

Remarks/Abnormalities

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

Signed

Date 16 August 2023

MURRAY RIX

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TEST CERTIFICATE

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

BS 1377 : PART 7: Clause 9 Multi Stage

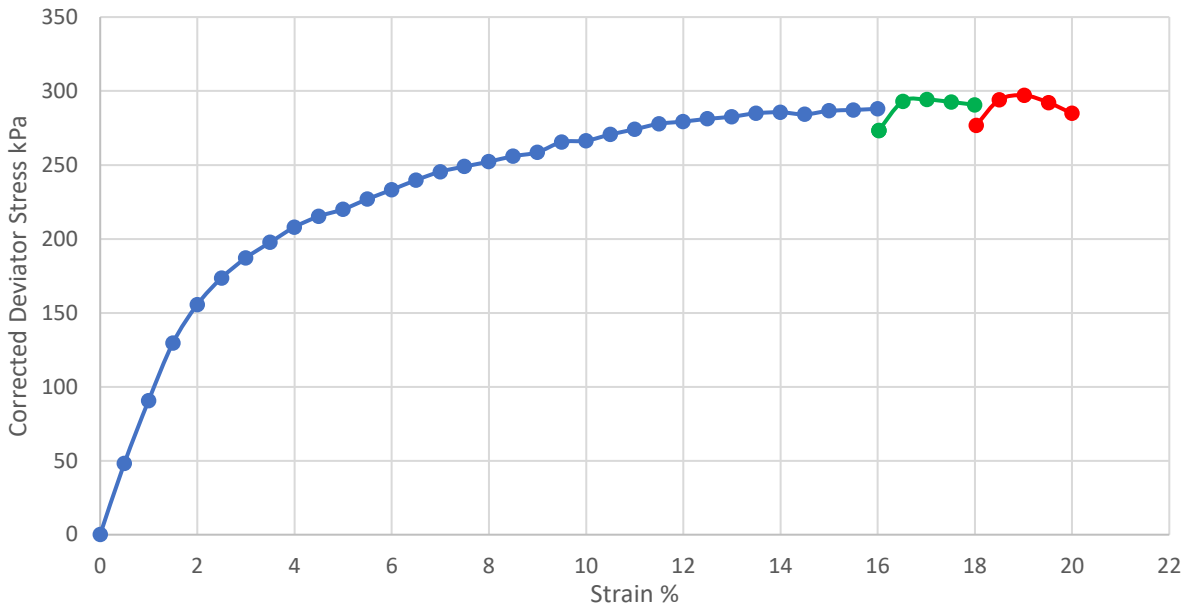
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP105 9.60-10.05 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	127560	DATE RECEIVED	27-Jun-23
DATE TESTED	26-Jul-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

INITIAL CONDITIONS

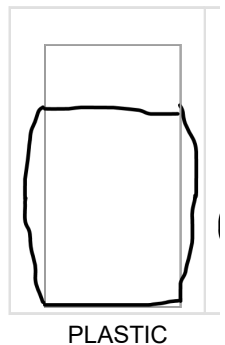
Specimen Location	Sample Length (mm)	70	Specimen depth from top of Sample (mm)	80
	Sample Orientation	Vertical	Specimen Condition	Undisturbed
	Specimen Length (mm)	199	Specimen Moisture Content (%)	25.1
	Specimen Diameter (mm)	100	Specimen Bulk Density (Mg/m ³)	2.15
	Membrane Thickness (mm)	0.40	Specimen Dry Density (Mg/m ³)	1.72
	Membrane Correction	1.28	1.39	1.51

CORRECTED DEVIATOR STRESS vs AXIAL STRAIN



TEST TYPE
MULTI STAGE

SKETCH OF
SPECIMEN AT
FAILURE



Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength Cu (kPa)
95	16	2	287.2	144
195	17	2	294.2	147
390	19	2	297.0	149

Remarks/Abnormalities

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

Signed

Date 16 August 2023

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
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TEST CERTIFICATE

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

BS 1377 : PART 7: Clause 9 Multi Stage

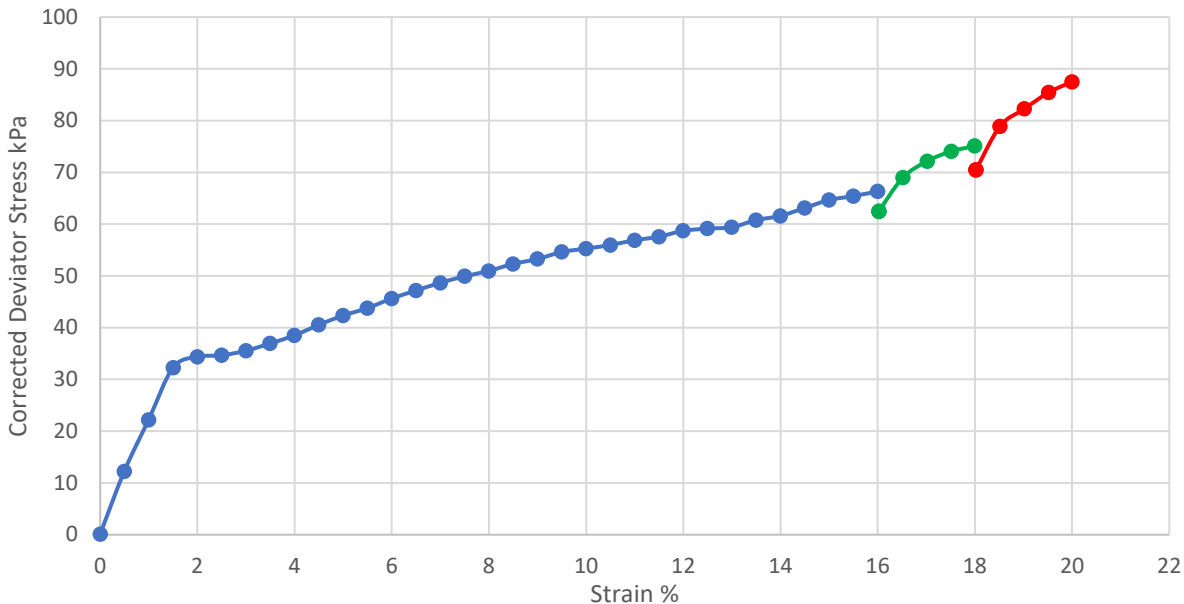
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP106 1.2-1.65 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	127561	DATE RECEIVED	27-Jun-23
DATE TESTED	26-Jul-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

INITIAL CONDITIONS

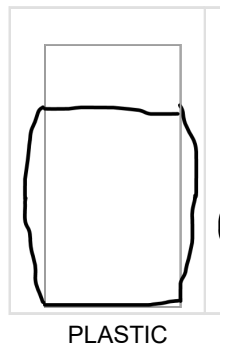
Specimen Location	Sample Length (mm)	450	Specimen depth from top of Sample (mm)	10
	Sample Orientation	Vertical	Specimen Condition	Undisturbed
	Specimen Length (mm)	183	Specimen Moisture Content (%)	23.9
	Specimen Diameter (mm)	100	Specimen Bulk Density (Mg/m ³)	1.91
	Membrane Thickness (mm)	0.40	Specimen Dry Density (Mg/m ³)	1.54
	Membrane Correction	1.28	1.39	1.51

CORRECTED DEVIATOR STRESS vs AXIAL STRAIN



TEST TYPE
MULTI STAGE

SKETCH OF SPECIMEN AT FAILURE



Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength C_u (kPa)
15	16	2	65.4	33
25	18	2	74.1	37
50	20	2	85.4	43

Remarks/Abnormalities

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

Signed

Date 16 August 2023

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
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TEST CERTIFICATE

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

BS 1377 : PART 7: Clause 9 Multi Stage

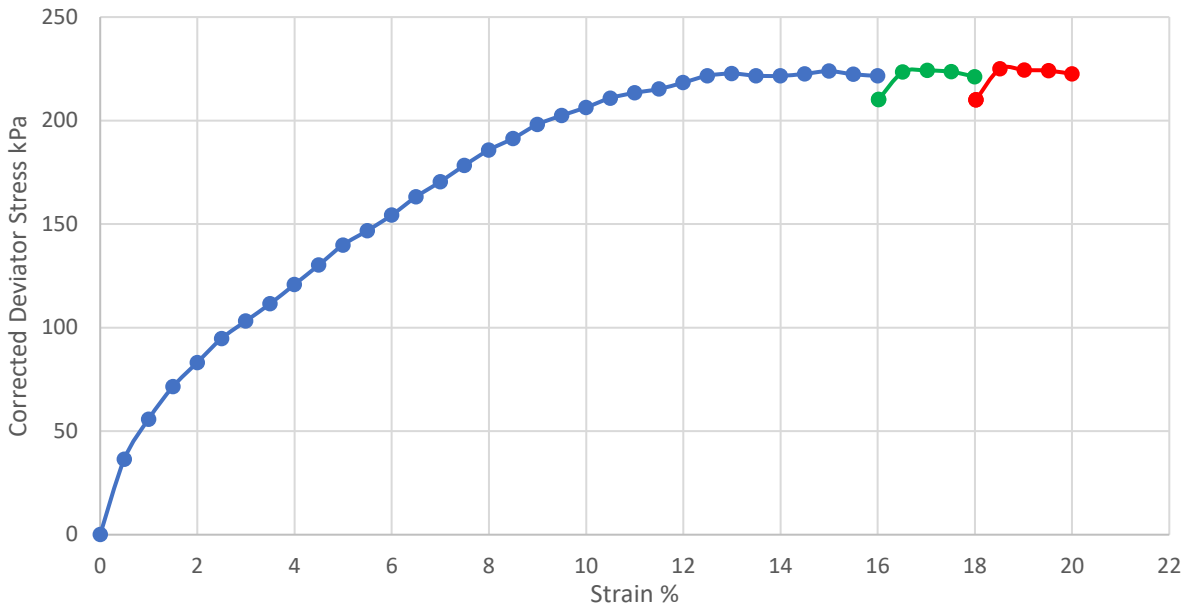
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP106 5.3-5.75 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	127563	DATE RECEIVED	27-Jun-23
DATE TESTED	26-Jul-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

INITIAL CONDITIONS

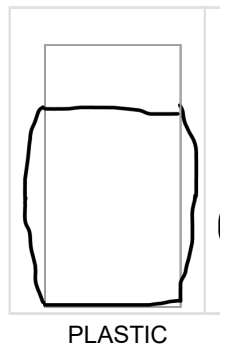
Specimen Location	Sample Length (mm)	300	Specimen depth from top of Sample (mm)	100
	Sample Orientation	Vertical	Specimen Condition	Undisturbed
	Specimen Length (mm)	200	Specimen Moisture Content (%)	24.8
	Specimen Diameter (mm)	98	Specimen Bulk Density (Mg/m ³)	2.21
	Membrane Thickness (mm)	0.40	Specimen Dry Density (Mg/m ³)	1.77
	Membrane Correction	1.31	1.43	1.55

CORRECTED DEVIATOR STRESS vs AXIAL STRAIN



TEST TYPE
MULTI STAGE

SKETCH OF
SPECIMEN AT
FAILURE



Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength C_u (kPa)
55	15	2	223.9	112
110	17	2	224.2	112
220	19	2	225.0	113

Remarks/Abnormalities

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

Signed

Date 16 August 2023

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
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TEST CERTIFICATE

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

BS 1377 : PART 7: Clause 9 Multi Stage

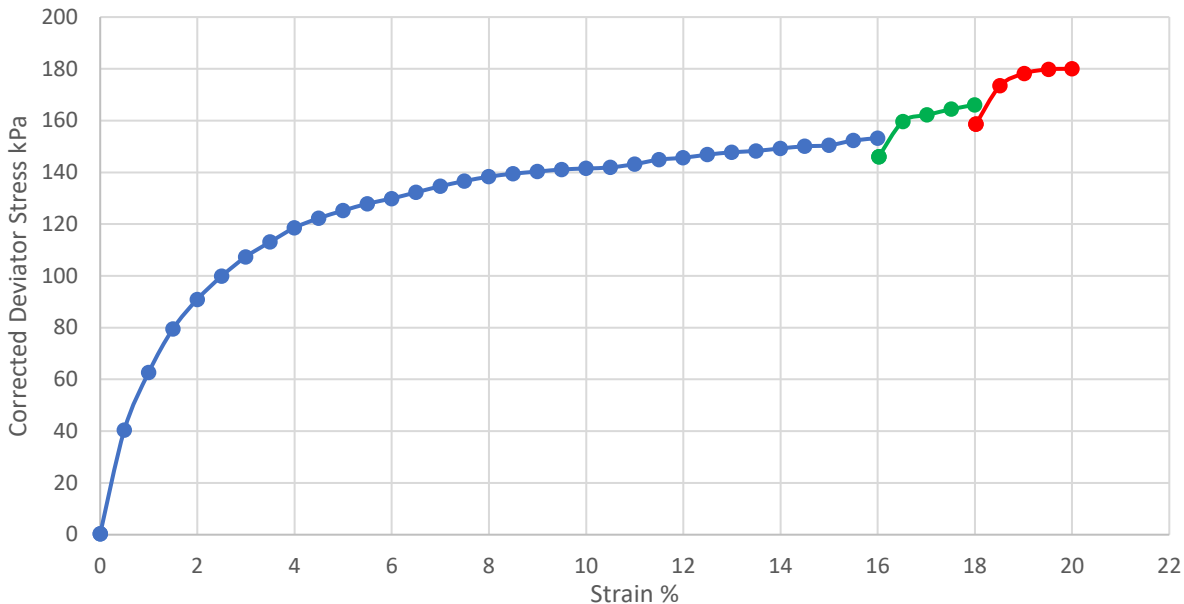
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP107 2.2-2.65 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	127565	DATE RECEIVED	27-Jun-23
DATE TESTED	26-Jul-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

INITIAL CONDITIONS

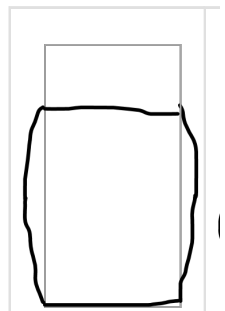
Specimen Location	Sample Length (mm)	450	Specimen depth from top of Sample (mm)	10
	Sample Orientation	Vertical	Specimen Condition	Undisturbed
	Specimen Length (mm)	196	Specimen Moisture Content (%)	23.9
	Specimen Diameter (mm)	102	Specimen Bulk Density (Mg/m ³)	1.96
	Membrane Thickness (mm)	0.40	Specimen Dry Density (Mg/m ³)	1.58
	Membrane Correction	1.26	1.37	1.49

CORRECTED DEVIATOR STRESS vs AXIAL STRAIN



TEST TYPE
MULTI STAGE

SKETCH OF
SPECIMEN AT
FAILURE



PLASTIC

Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength Cu (kPa)
20	16	2	152.3	76
45	18	2	164.4	82
90	20	2	179.8	90

Remarks/Abnormalities

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

Signed

Date 16 August 2023

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TEST CERTIFICATE

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

BS 1377 : PART 7: Clause 9 Multi Stage

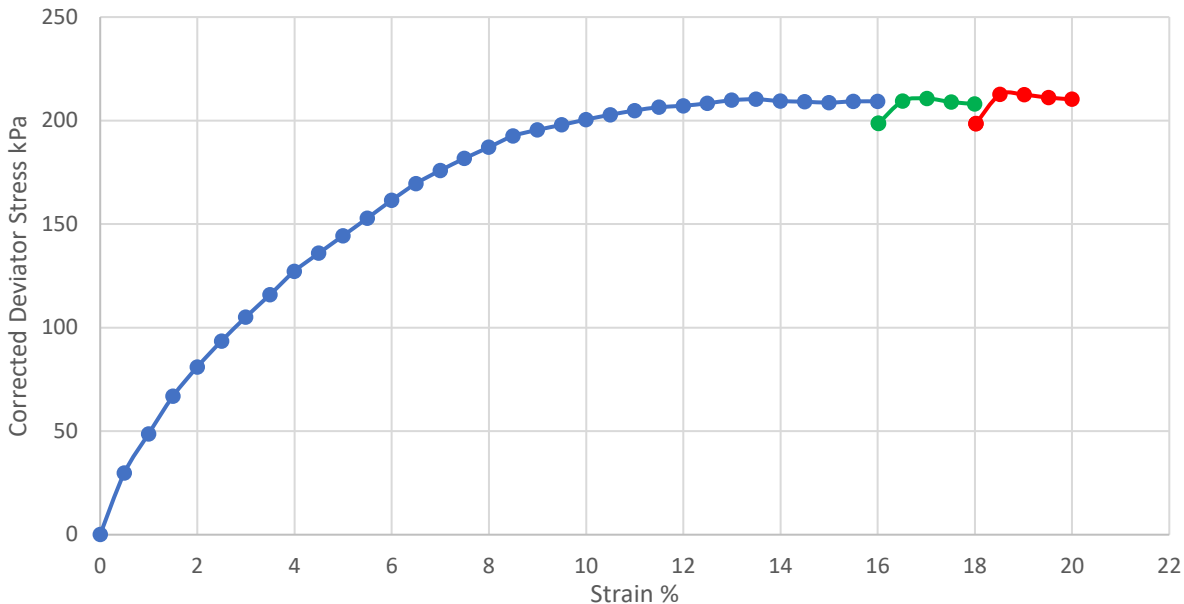
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP107 6.5-6.95 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	127567	DATE RECEIVED	27-Jun-23
DATE TESTED	26-Jul-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

INITIAL CONDITIONS

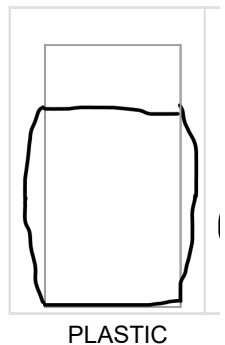
Specimen Location	Sample Length (mm)	400	Specimen depth from top of Sample (mm)	30
	Sample Orientation	Vertical	Specimen Condition	Undisturbed
	Specimen Length (mm)	200	Specimen Moisture Content (%)	24.0
	Specimen Diameter (mm)	100	Specimen Bulk Density (Mg/m ³)	2.10
	Membrane Thickness (mm)	0.40	Specimen Dry Density (Mg/m ³)	1.69
	Membrane Correction	1.25	1.40	1.52

CORRECTED DEVIATOR STRESS vs AXIAL STRAIN



TEST TYPE
MULTI STAGE

SKETCH OF
SPECIMEN AT
FAILURE



Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength C_u (kPa)
65	14	2	210.3	105
130	17	2	210.7	105
260	19	2	212.6	106

Remarks/Abnormalities

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

Signed

Date 16 August 2023

MURRAY RIX

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DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



TEST CERTIFICATE

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

BS 1377 : PART 7: Clause 9 Multi Stage

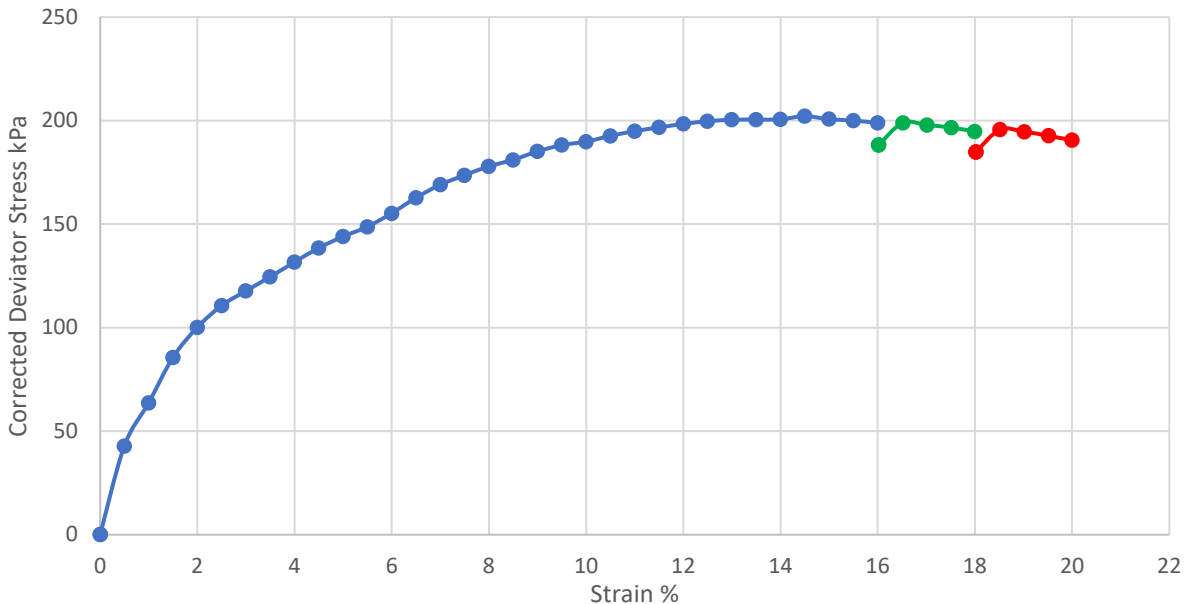
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP108 4.5-4.95 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	127571	DATE RECEIVED	27-Jun-23
DATE TESTED	25-Jul-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

INITIAL CONDITIONS

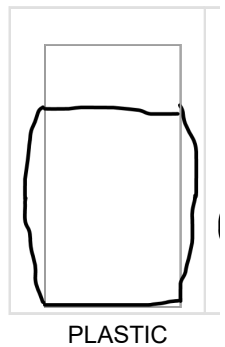
Specimen Location	Sample Length (mm)	350	Specimen depth from top of Sample (mm)	40
	Sample Orientation	Vertical	Specimen Condition	Undisturbed
	Specimen Length (mm)	200	Specimen Moisture Content (%)	20.7
	Specimen Diameter (mm)	100	Specimen Bulk Density (Mg/m ³)	2.01
	Membrane Thickness (mm)	0.40	Specimen Dry Density (Mg/m ³)	1.67
	Membrane Correction	1.29	1.40	1.52

CORRECTED DEVIATOR STRESS vs AXIAL STRAIN



TEST TYPE
MULTI STAGE

SKETCH OF
SPECIMEN AT
FAILURE



Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength Cu (kPa)
45	15	2	202.1	101
90	17	2	199.0	99
180	19	2	195.7	98

Remarks/Abnormalities

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

Signed

Date 16 August 2023

MURRAY RIX

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



TEST CERTIFICATE

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

BS 1377 : PART 7: Clause 9 Multi Stage

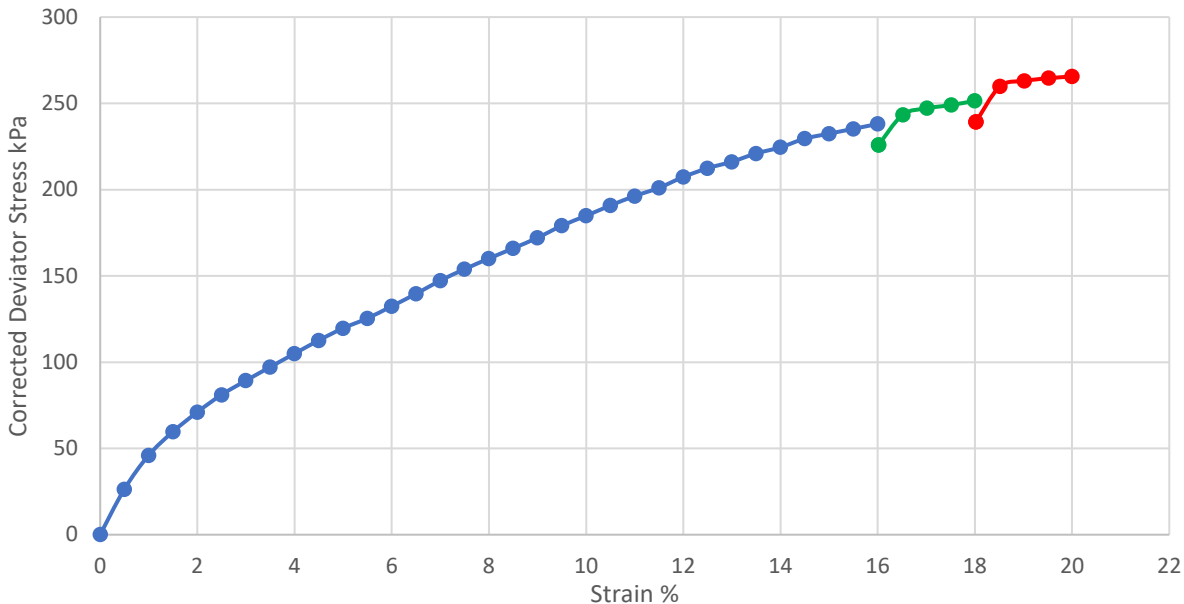
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP108 6.9-7.35 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	127572	DATE RECEIVED	27-Jun-23
DATE TESTED	31-Jul-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

INITIAL CONDITIONS

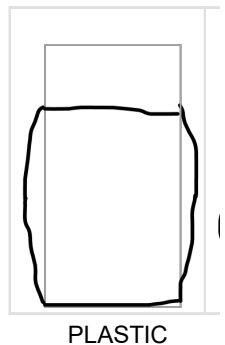
Specimen Location	Sample Length (mm)	385	Specimen depth from top of Sample (mm)	90
	Sample Orientation	Vertical	Specimen Condition	Undisturbed
	Specimen Length (mm)	202	Specimen Moisture Content (%)	19.3
	Specimen Diameter (mm)	101	Specimen Bulk Density (Mg/m ³)	2.11
	Membrane Thickness (mm)	0.40	Specimen Dry Density (Mg/m ³)	1.77
	Membrane Correction	1.27	1.38	1.50

CORRECTED DEVIATOR STRESS vs AXIAL STRAIN



TEST TYPE
MULTI STAGE

SKETCH OF
SPECIMEN AT
FAILURE



Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength C_u (kPa)
70	16	2	235.2	118
140	18	2	249.0	125
280	20	2	264.6	132

Remarks/Abnormalities

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

Signed

Date 16 August 2023

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TEST CERTIFICATE

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

BS 1377 : PART 7: Clause 9 Multi Stage

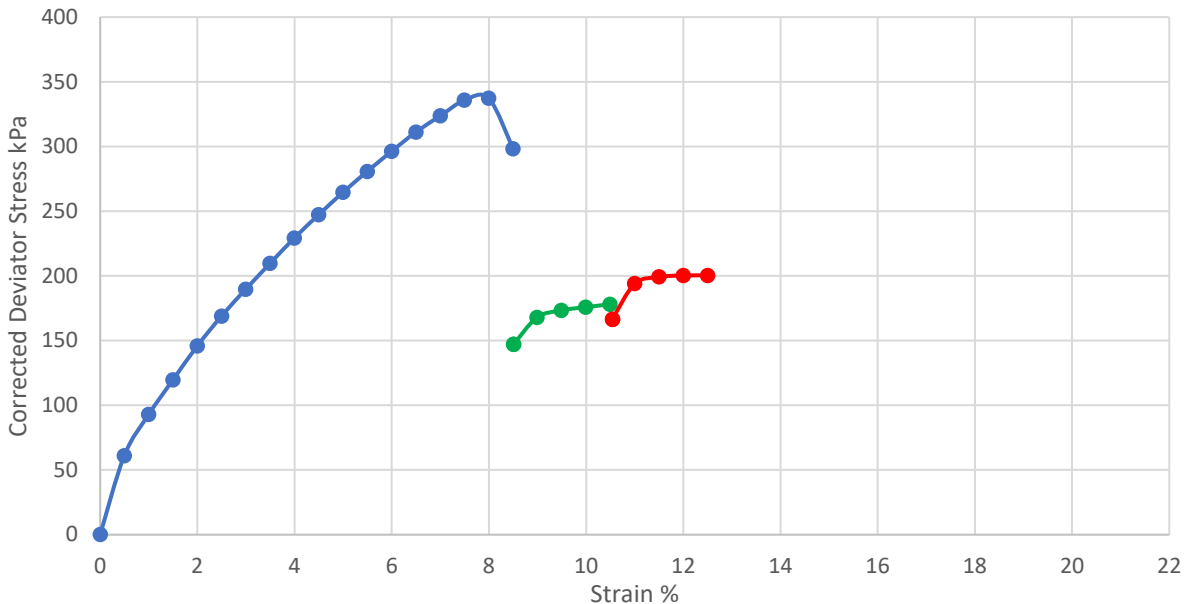
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP109 2.2-2.65 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	127573	DATE RECEIVED	27-Jun-23
DATE TESTED	31-Jul-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

INITIAL CONDITIONS

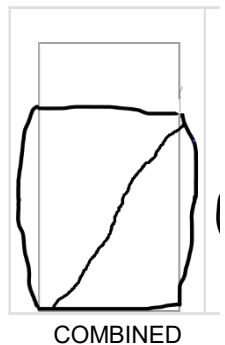
Specimen Location	Sample Length (mm)	410	Specimen depth from top of Sample (mm)	90
	Sample Orientation	Vertical	Specimen Condition	Undisturbed
	Specimen Length (mm)	199	Specimen Moisture Content (%)	19.3
	Specimen Diameter (mm)	101	Specimen Bulk Density (Mg/m ³)	2.17
	Membrane Thickness (mm)	0.40	Specimen Dry Density (Mg/m ³)	1.82
	Membrane Correction	0.90	1.19	1.50

CORRECTED DEVIATOR STRESS vs AXIAL STRAIN



TEST TYPE
MULTI STAGE

SKETCH OF
SPECIMEN AT
FAILURE



Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength C_u (kPa)
20	8	2	337.2	169
45	11	2	178.0	89
90	13	2	200.4	100

Remarks/Abnormalities

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

Signed

Date 16 August 2023

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TEST CERTIFICATE

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

BS 1377 : PART 7: Clause 9 Multi Stage

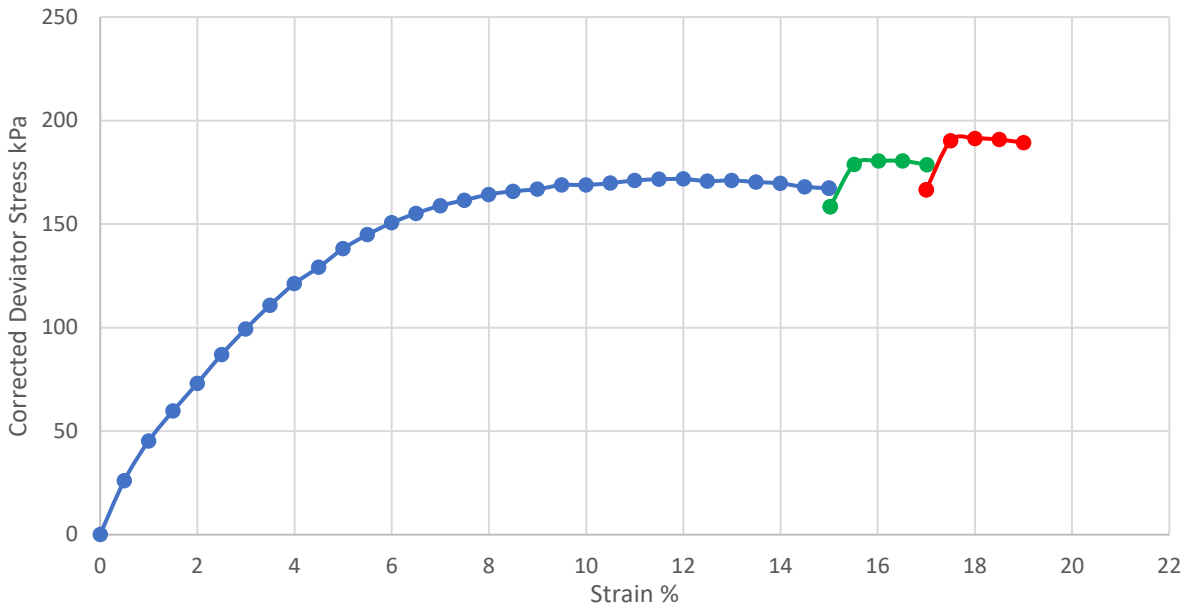
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP109 9.6-10.05 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	127576	DATE RECEIVED	27-Jun-23
DATE TESTED	31-Jul-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

INITIAL CONDITIONS

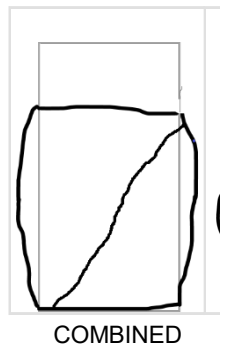
Specimen Location	Sample Length (mm)	285	Specimen depth from top of Sample (mm)	80
	Sample Orientation	Vertical	Specimen Condition	Undisturbed
	Specimen Length (mm)	200	Specimen Moisture Content (%)	17.2
	Specimen Diameter (mm)	100	Specimen Bulk Density (Mg/m ³)	2.25
	Membrane Thickness (mm)	0.40	Specimen Dry Density (Mg/m ³)	1.92
	Membrane Correction	1.23	1.40	1.52

CORRECTED DEVIATOR STRESS vs AXIAL STRAIN



TEST TYPE
MULTI STAGE

SKETCH OF
SPECIMEN AT
FAILURE



Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength c_u (kPa)
95	12	2	171.8	86
190	16	2	180.5	90
380	18	2	191.4	96

Remarks/Abnormalities

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

Signed

Date 16 August 2023

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TEST CERTIFICATE

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

BS 1377 : PART 7: Clause 9 Multi Stage

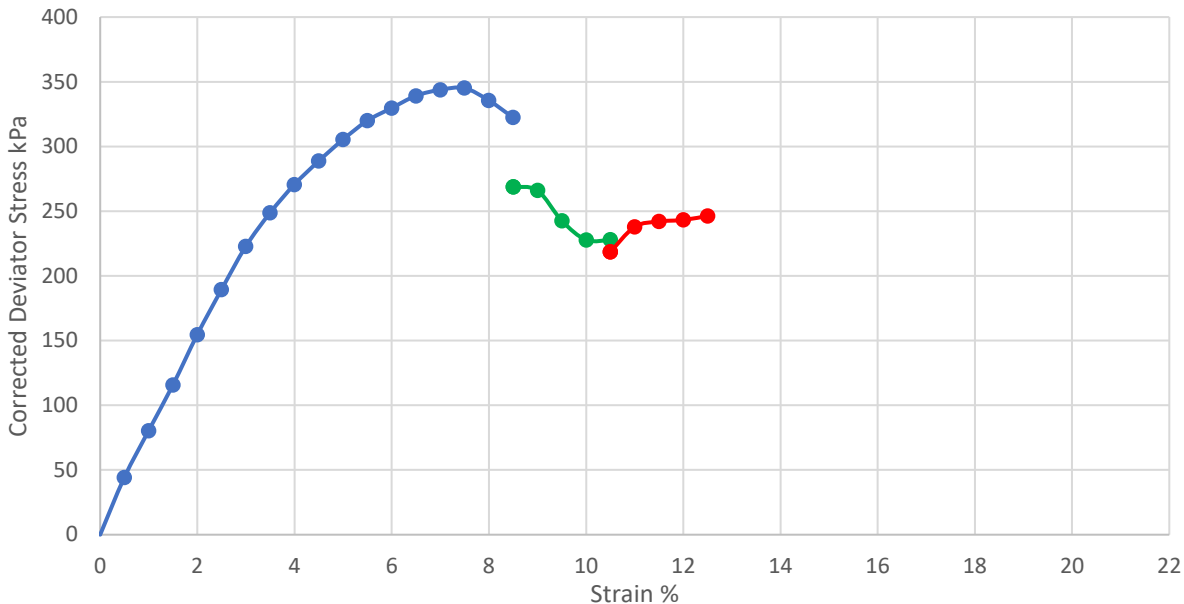
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP110 1.2-1.65 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	127577	DATE RECEIVED	27-Jun-23
DATE TESTED	31-Jul-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

INITIAL CONDITIONS

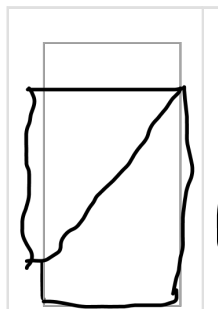
Specimen Location	Sample Length (mm)	450	Specimen depth from top of Sample (mm)	80
	Sample Orientation	Vertical	Specimen Condition	Undisturbed
	Specimen Length (mm)	200	Specimen Moisture Content (%)	19.7
	Specimen Diameter (mm)	99	Specimen Bulk Density (Mg/m ³)	2.22
	Membrane Thickness (mm)	0.40	Specimen Dry Density (Mg/m ³)	1.85
	Membrane Correction	0.88	0.99	1.53

CORRECTED DEVIATOR STRESS vs AXIAL STRAIN



TEST TYPE
MULTI STAGE

SKETCH OF
SPECIMEN AT
FAILURE



SIMPLE_SHEAR

Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength Cu (kPa)
10	8	2	345.1	173
25	9	2	268.8	134
50	13	2	256.6	128

Remarks/Abnormalities

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

Signed

Date 16 August 2023

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TEST CERTIFICATE

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

BS 1377 : PART 7: Clause 9 Multi Stage

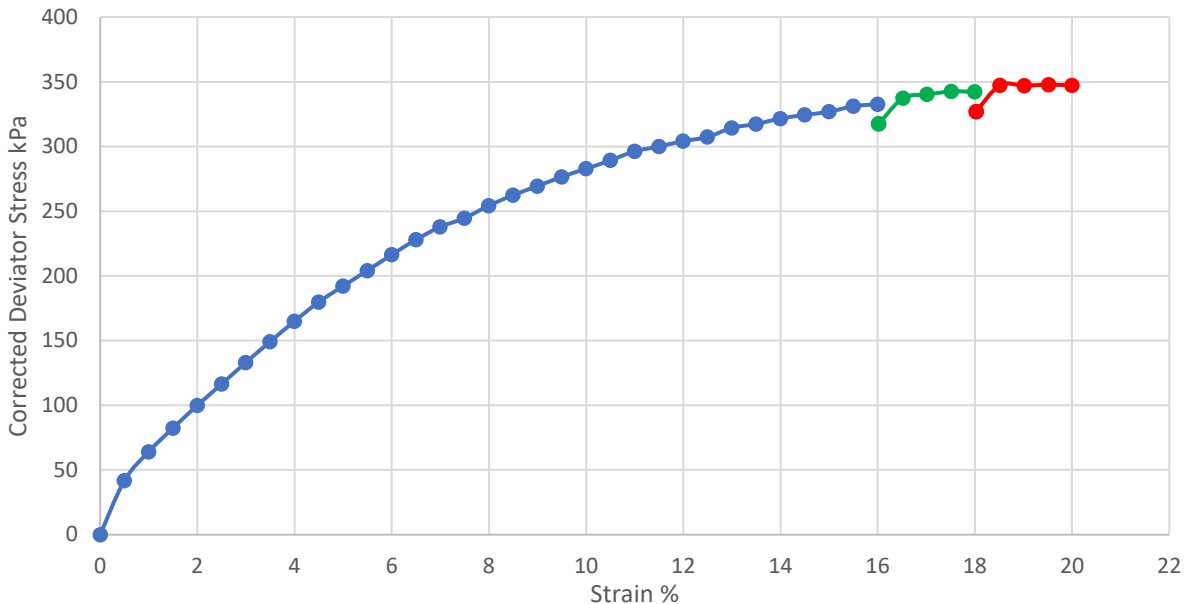
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP110 5.6-6.05 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	127579	DATE RECEIVED	27-Jun-23
DATE TESTED	13-Jul-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

INITIAL CONDITIONS

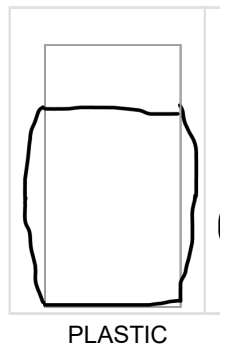
Specimen Location	Sample Length (mm)	450	Specimen depth from top of Sample (mm)	60
	Sample Orientation	Vertical	Specimen Condition	Undisturbed
	Specimen Length (mm)	202	Specimen Moisture Content (%)	15.6
	Specimen Diameter (mm)	102	Specimen Bulk Density (Mg/m ³)	2.17
	Membrane Thickness (mm)	0.40	Specimen Dry Density (Mg/m ³)	1.88
	Membrane Correction	1.26	1.37	1.49

CORRECTED DEVIATOR STRESS vs AXIAL STRAIN



TEST TYPE
MULTI STAGE

SKETCH OF
SPECIMEN AT
FAILURE



PLASTIC

Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength Cu (kPa)
55	16	2	331.1	166
110	18	2	342.5	171
220	20	2	347.7	174

Remarks/Abnormalities

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

Signed

Date 16 August 2023

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TEST CERTIFICATE

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

BS 1377 : PART 7: Clause 9 Multi Stage

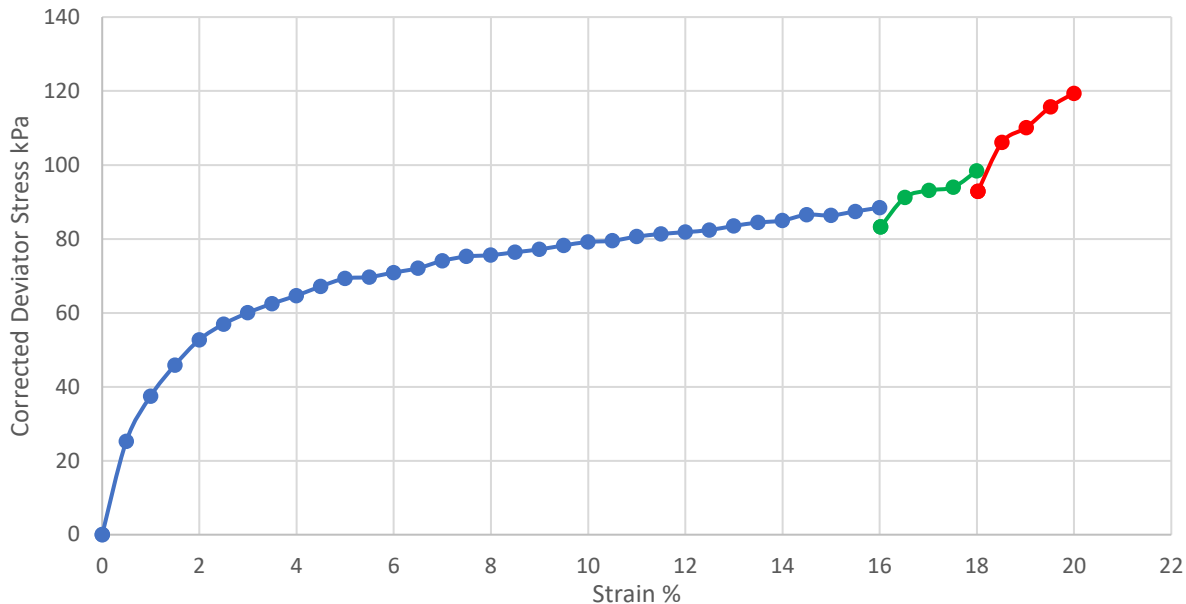
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP111 3.40 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	127584	DATE RECEIVED	27-Jun-23
DATE TESTED	13-Jul-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

INITIAL CONDITIONS

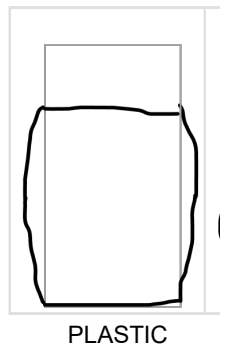
Specimen Location	Sample Length (mm)	450	Specimen depth from top of Sample (mm)	135
	Sample Orientation	Vertical	Specimen Condition	Undisturbed
	Specimen Length (mm)	203	Specimen Moisture Content (%)	20.7
	Specimen Diameter (mm)	102	Specimen Bulk Density (Mg/m ³)	2.04
	Membrane Thickness (mm)	0.40	Specimen Dry Density (Mg/m ³)	1.69
	Membrane Correction	1.26	1.37	1.48

CORRECTED DEVIATOR STRESS vs AXIAL STRAIN



TEST TYPE
MULTI STAGE

SKETCH OF SPECIMEN AT FAILURE



PLASTIC

Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength c_u (kPa)
35	16	2	87.4	44
70	18	2	94.0	47
140	20	2	115.7	58

Remarks/Abnormalities

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

Signed

Date 16 August 2023

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DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



TEST CERTIFICATE

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

BS 1377 : PART 7: Clause 9 Multi Stage

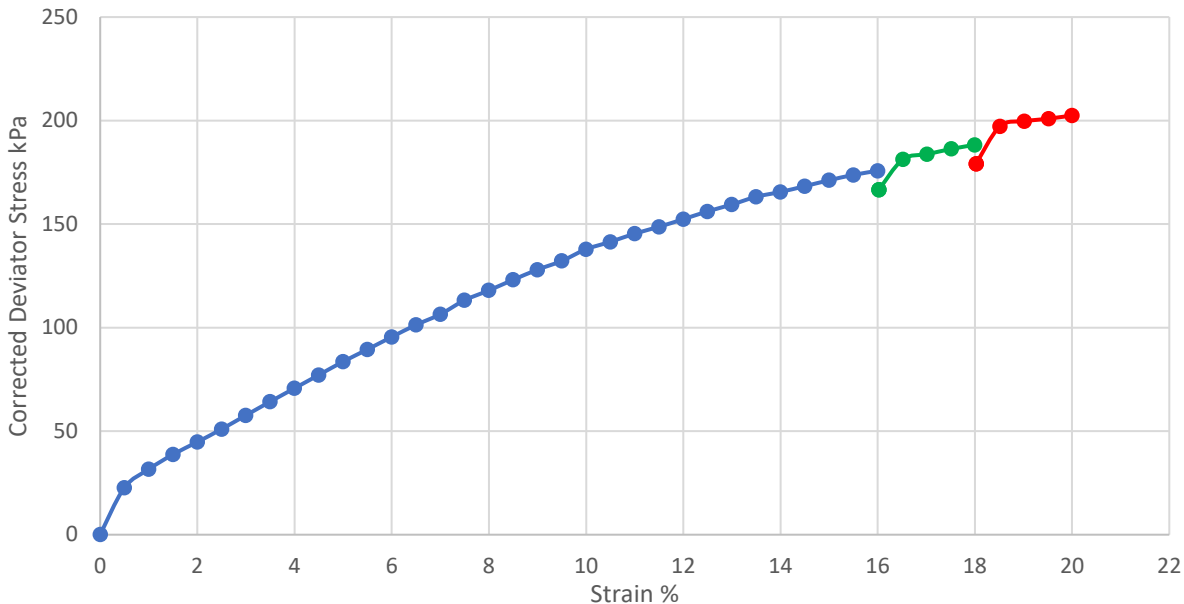
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP111 8.50 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	127586	DATE RECEIVED	27-Jun-23
DATE TESTED	13-Jul-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

INITIAL CONDITIONS

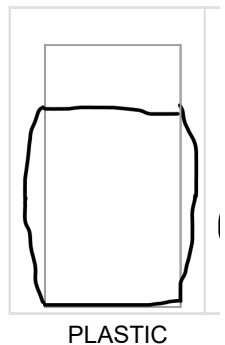
Specimen Location	Sample Length (mm)	290	Specimen depth from top of Sample (mm)	70
	Sample Orientation	Vertical	Specimen Condition	Undisturbed
	Specimen Length (mm)	202	Specimen Moisture Content (%)	17.5
	Specimen Diameter (mm)	100	Specimen Bulk Density (Mg/m ³)	2.17
	Membrane Thickness (mm)	0.40	Specimen Dry Density (Mg/m ³)	1.85
	Membrane Correction	1.28	1.40	1.52

CORRECTED DEVIATOR STRESS vs AXIAL STRAIN



TEST TYPE
MULTI STAGE

SKETCH OF
SPECIMEN AT
FAILURE



Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength C_u (kPa)
85	16	2	173.8	87
170	18	2	186.3	93
340	20	2	200.9	100

Remarks/Abnormalities

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

Signed

Date 16 August 2023

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	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

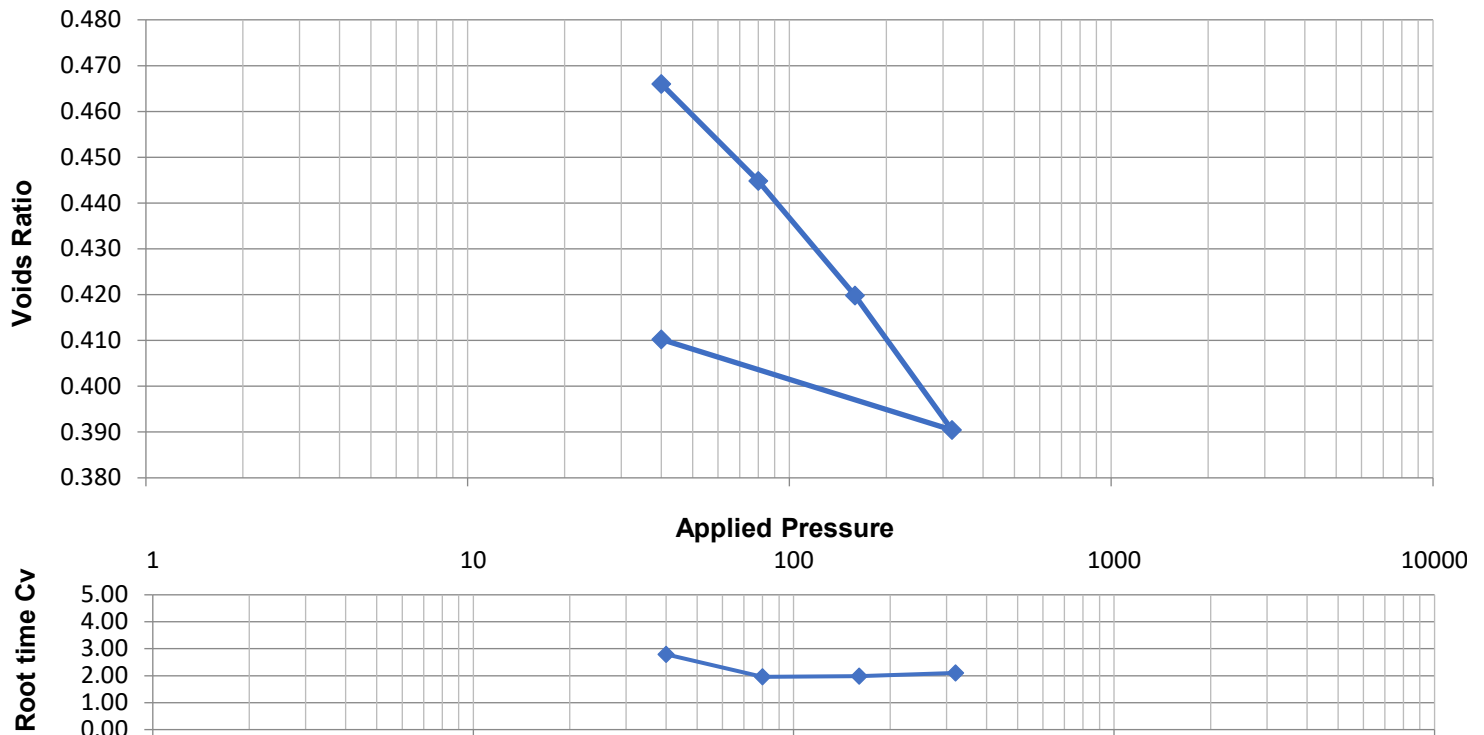
SAMPLE LABEL	CP101 2.2-2.65 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	126966	DATE RECEIVED	16-Jun-23
DATE TESTED	05-Jul-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

Specimen Location	Sample Length (mm)	350	Specimen depth from top of Sample (mm)	250
	Sample Orientation	Vertical	Specimen Condition	Undisturbed

INITIAL CONDITIONS

Height	20.1 mm	Particle density	2.60 Ass	Load No.	Applied Pressure kPa	Sample Height mm	Voids Ratio	Mv m ² /MN	Temp °C	Cv t90 root m ² /yr	Cv t50 log m ² /yr
Diameter	70.1 mm	Initial void ratio	0.53	1	40	19.20	0.466	1.07	20	2.79	1.43
Weight wet	154.1 g	Deg. of sat.	85 %	2	80	18.92	0.445	0.36	20	1.96	1.45
Water cont.*	17.4 %	Swell. press.	0 kN/m ²	3	160	18.59	0.420	0.22	20	1.99	1.64
Bulk Density	1.99 Mg/m ³	Dry density	1.70 Mg/m ³	4	320	18.21	0.390	0.13	20	2.11	1.97
				5	40	18.47	0.410	0.05	20		
				6							
				7							

*determined from specimen trimmings



Remarks/Abnormalities

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

Signed

Date 16 August 2023

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

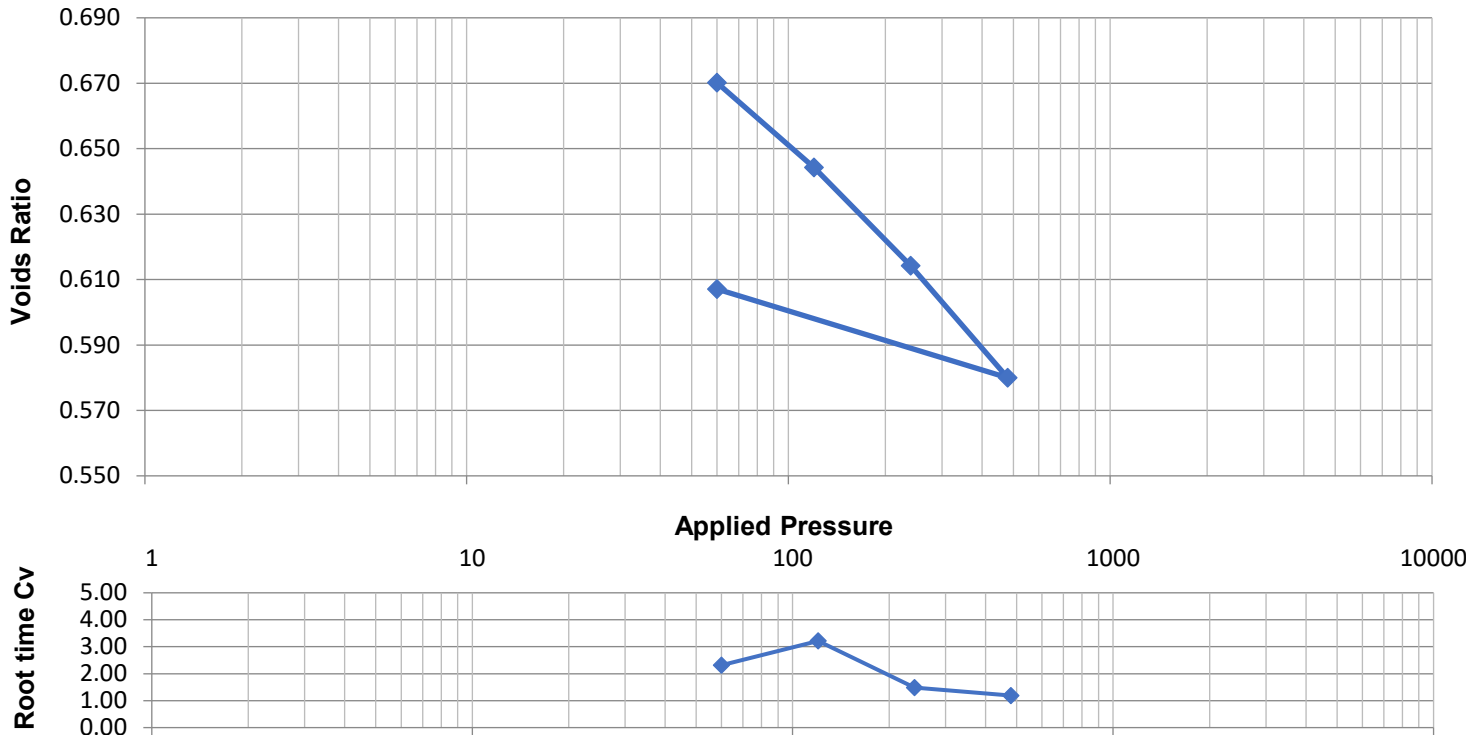
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP102 3.3-3.75 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	126971	DATE RECEIVED	16-Jun-23
DATE TESTED	05-Jul-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

Specimen Location	Sample Length (mm)	390	Specimen depth from top of Sample (mm)	300
	Sample Orientation	Vertical	Specimen Condition	Undisturbed

INITIAL CONDITIONS					Load No.	Applied Pressure kPa	Sample Height mm	Voids Ratio	Mv m ² /MN	Temp °C	Cv t90 root m ² /yr	Cv t50 log m ² /yr
Height	20.6	mm	Particle density	2.60 Ass	1	60	20.55	0.670	0.06	20	2.31	1.29
Diameter	69.1	mm	Initial void ratio	0.68	2	120	20.23	0.644	0.26	20	3.21	1.94
Weight wet	147.9	g	Deg. of sat.	90 %	3	240	19.86	0.614	0.15	20	1.48	0.91
Water cont.*	23.4	%	Swell. press.	0 kN/m ²	4	480	19.44	0.580	0.09	20	1.19	0.98
Bulk Density	1.91	Mg/m ³	Dry density	1.55 Mg/m ³	5	60	19.77	0.607	0.04	20		
					6							
					7							

*determined from specimen trimmings



Remarks/Abnormalities

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

Signed

Date 16 August 2023

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

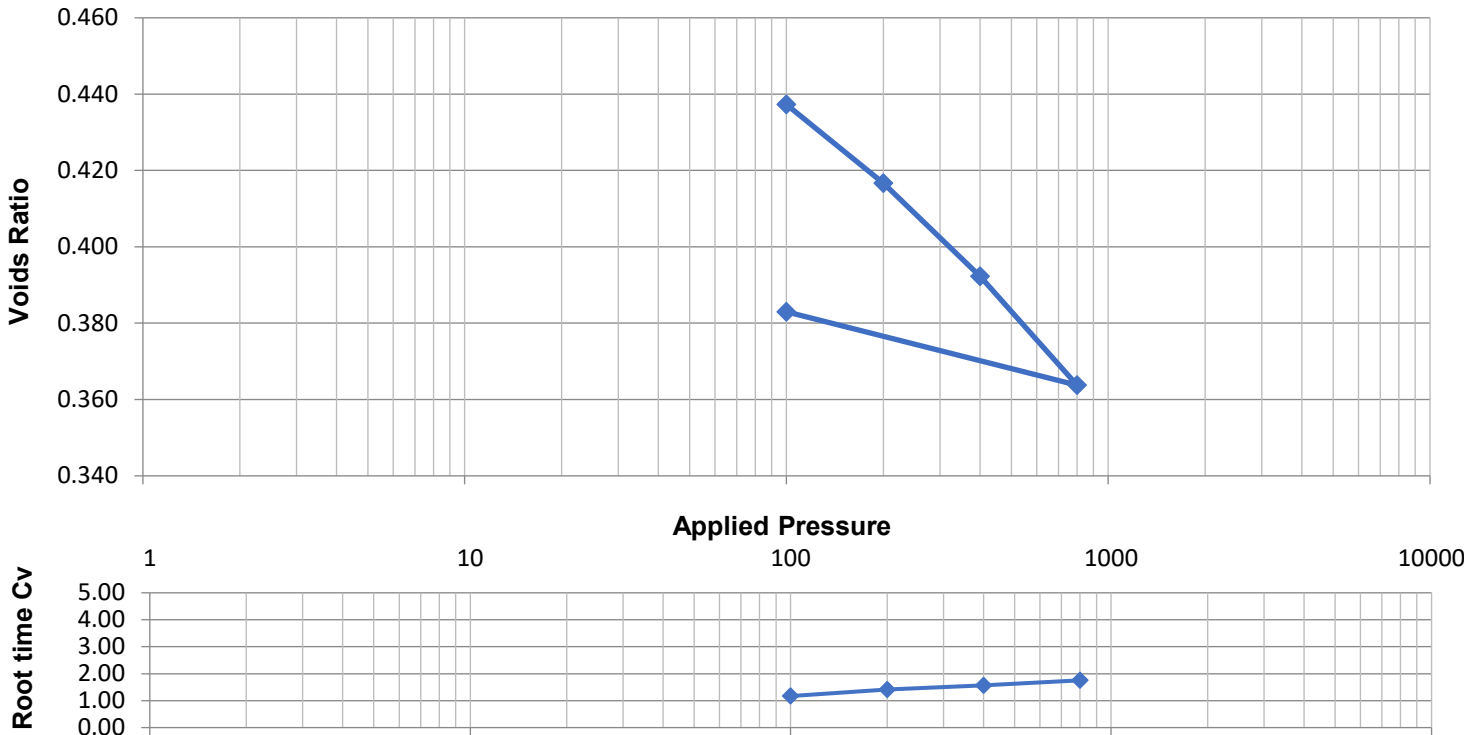
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP102 8.3-8.75 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	126974	DATE RECEIVED	16-Jun-23
DATE TESTED	06-Jul-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

Specimen Location	Sample Length (mm)	410	Specimen depth from top of Sample (mm)	300
	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	20.2 mm	Particle density	2.60	Ass	1	100	19.34	0.437	0.43	20	1.17	1.39
Diameter	70.0 mm	Initial void ratio	0.50		2	200	19.06	0.417	0.14	20	1.42	1.30
Weight wet	159.5 g	Deg. of sat.	95 %		3	400	18.73	0.392	0.09	20	1.57	1.54
Water cont.*	18.4 %	Swell. press.	0 kN/m ²		4	800	18.35	0.364	0.05	20	1.75	1.88
Bulk Density	2.05 Mg/m ³	Dry density	1.73 Mg/m ³		5	100	18.61	0.383	0.02	20		
					6							
					7							

*determined from specimen trimmings



Remarks/Abnormalities

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

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

CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

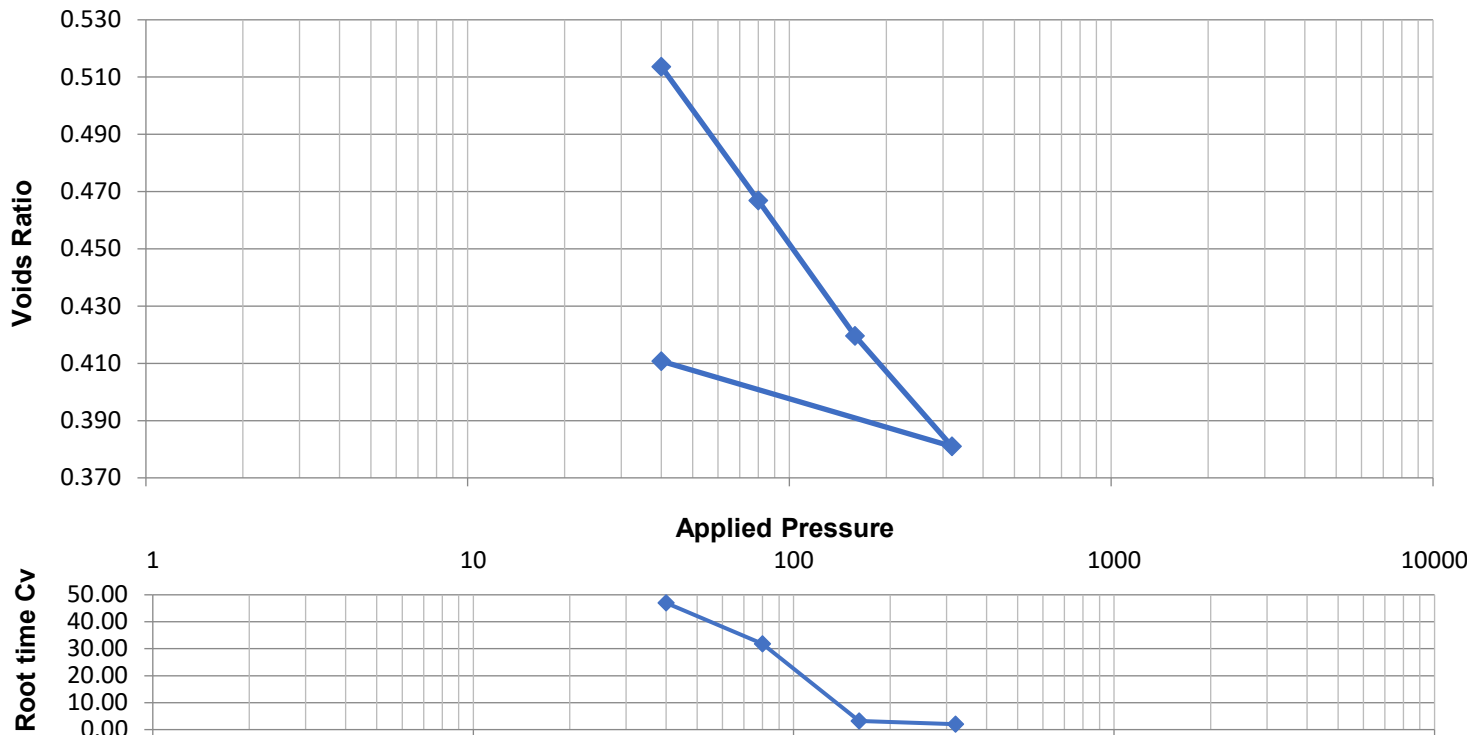
SAMPLE LABEL	CP103 2.3-2.75 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	126975	DATE RECEIVED	16-Jun-23
DATE TESTED	03-Aug-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

Specimen Location	Sample Length (mm)	450	Specimen depth from top of Sample (mm)	20
	Sample Orientation	Vertical	Specimen Condition	Undisturbed

INITIAL CONDITIONS

Height	20.1 mm	Particle density	2.60 Ass	Load No.	Applied Pressure kPa	Sample Height mm	Voids Ratio	Mv m ² /MN	Temp °C	Cv t90 root m ² /yr	Cv t50 log m ² /yr
Diameter	70.1 mm	Initial void ratio	0.68	1	40	18.08	0.514	2.47	20	46.98	47.27
Weight wet	141.0 g	Deg. of sat.	68 %	2	80	17.52	0.467	0.77	20	31.77	32.95
Water cont.*	17.8 %	Swell. press.	0 kN/m ²	3	160	16.95	0.420	0.40	20	3.23	2.56
Bulk Density	1.82 Mg/m ³	Dry density	1.55 Mg/m ³	4	320	16.49	0.381	0.17	20	2.01	1.34
				5	40	16.85	0.411	0.08	20		
				6							
				7							

*determined from specimen trimmings



Remarks/Abnormalities

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

Signed

Date 16 August 2023

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

CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

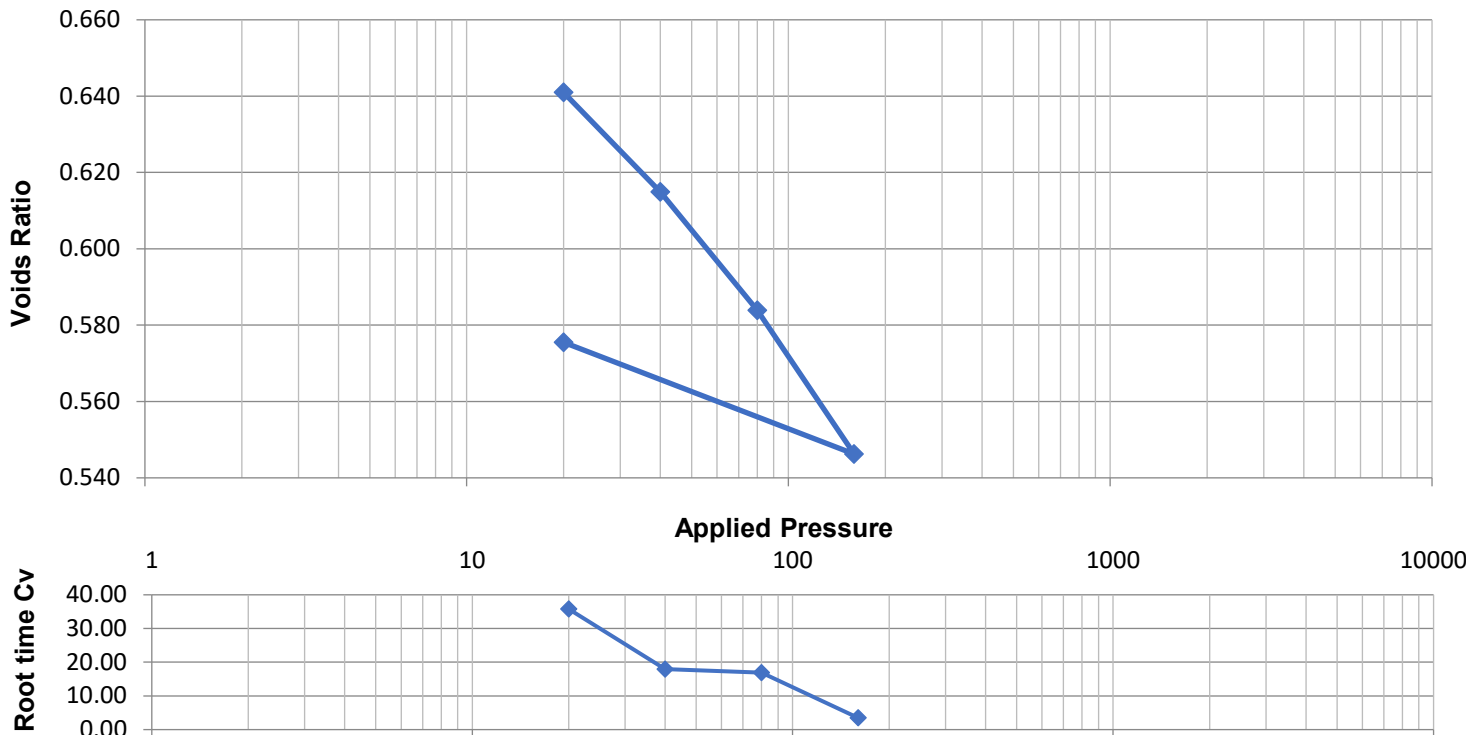
SAMPLE LABEL	CP106 1.2-1.65 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	127561	DATE RECEIVED	27-Jun-23
DATE TESTED	06-Jul-23	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

Specimen Location	Sample Length (mm)	450	Specimen depth from top of Sample (mm)	210
	Sample Orientation	Vertical	Specimen Condition	Undisturbed

INITIAL CONDITIONS

Height	20.2 mm	Particle density	2.60 Ass	Load No.	Applied Pressure kPa	Sample Height mm	Voids Ratio	Mv m ² /MN	Temp °C	Cv t90 root m ² /yr	Cv t50 log m ² /yr
Diameter	70.0 mm	Initial void ratio	0.68	1	20	19.74	0.641	1.14	20	35.78	37.03
Weight wet	148.4 g	Deg. of sat.	89 %	2	40	19.43	0.615	0.79	20	17.93	16.17
Water cont.*	23.2 %	Swell. press.	0 kN/m ²	3	80	19.05	0.584	0.48	20	16.93	15.73
Bulk Density	1.91 Mg/m ³	Dry density	1.55 Mg/m ³	4	160	18.60	0.546	0.30	20	3.49	2.81
				5	20	18.95	0.576	0.14	20		
				6							
				7							

*determined from specimen trimmings



Remarks/Abnormalities

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

Signed

Date 16 August 2023

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

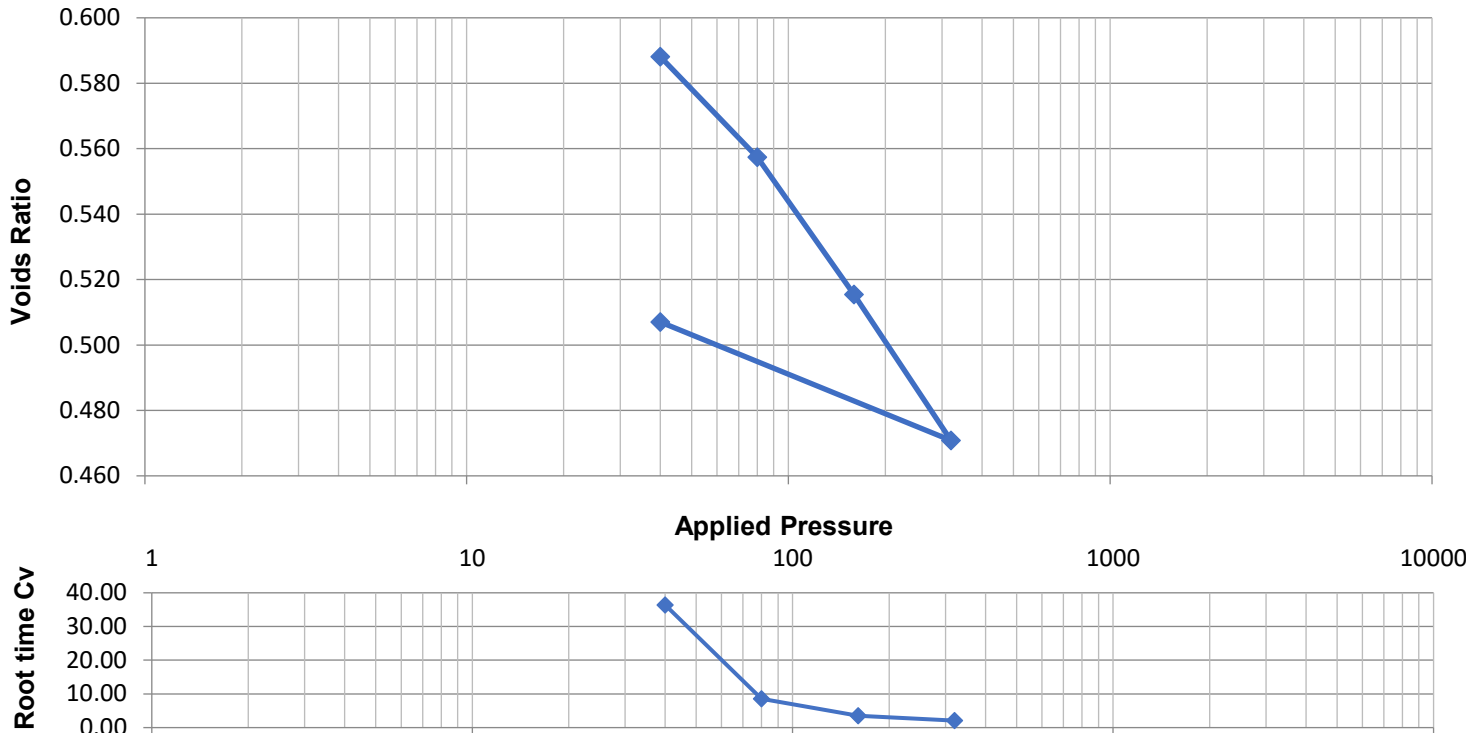
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP107 2.2-2.65 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	127565	DATE RECEIVED	27-Jun-23
DATE TESTED	17-Jul-23	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)	230
	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	20.1	mm	Particle density	2.60 Ass	1	40	19.32	0.588	0.93	20	36.40	35.99
Diameter	70.1	mm	Initial void ratio	0.65	2	80	18.94	0.557	0.48	20	8.55	8.34
Weight wet	150.6	g	Deg. of sat.	94 %	3	160	18.43	0.515	0.34	20	3.47	2.30
Water cont.*	23.5	%	Swell. press.	0 kN/m ²	4	320	17.89	0.471	0.18	20	2.07	0.94
Bulk Density	1.95	Mg/m ³	Dry density	1.58 Mg/m ³	5	40	18.33	0.507	0.09	20		
					6							
					7							

*determined from specimen trimmings



Remarks/Abnormalities

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(Laboratory Manager)

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Date 16 August 2023

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TEST CERTIFICATE

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

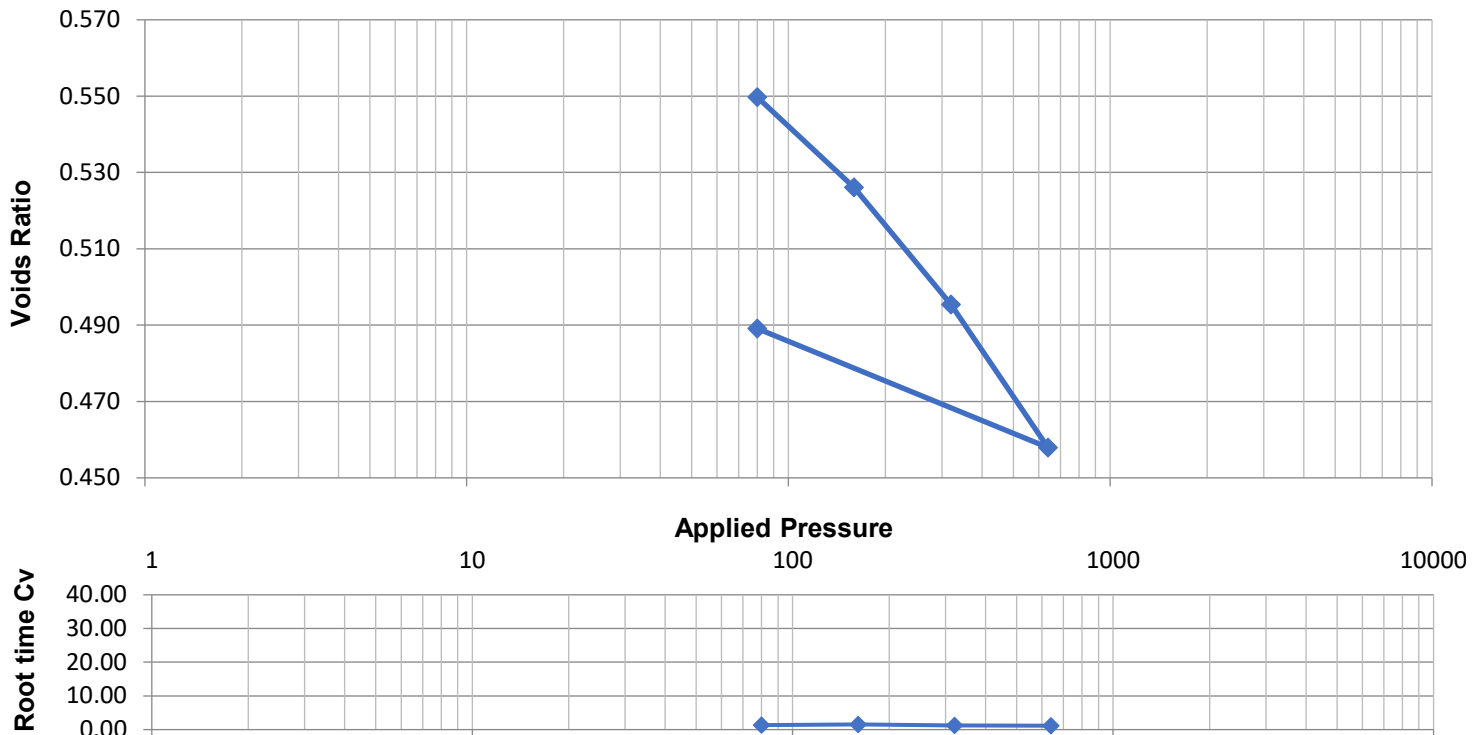
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP108 4.5-4.95 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	127571	DATE RECEIVED	27-Jun-23
DATE TESTED	17-Jul-23	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)	270
	Sample Orientation	Vertical	Specimen Condition	Undisturbed

INITIAL CONDITIONS					Load No.	Applied Pressure kPa	Sample Height mm	Voids Ratio	Mv m ² /MN	Temp °C	Cv t90 root m ² /yr	Cv t50 log m ² /yr
Height	20.6 mm	Particle density	2.60	Ass	1	80	20.41	0.550	0.13	20	1.35	0.95
Diameter	69.1 mm	Initial void ratio	0.57		2	160	20.10	0.526	0.19	20	1.53	1.00
Weight wet	155.5 g	Deg. of sat.	97 %		3	320	19.70	0.495	0.13	20	1.25	0.96
Water cont.*	21.2 %	Swell. press.	0 kN/m ²		4	640	19.20	0.458	0.08	20	1.16	1.06
Bulk Density	2.01 Mg/m ³	Dry density	1.66 Mg/m ³		5	80	19.61	0.489	0.04	20		
					6							
					7							

*determined from specimen trimmings



Remarks/Abnormalities

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

Signed

Date 16 August 2023

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

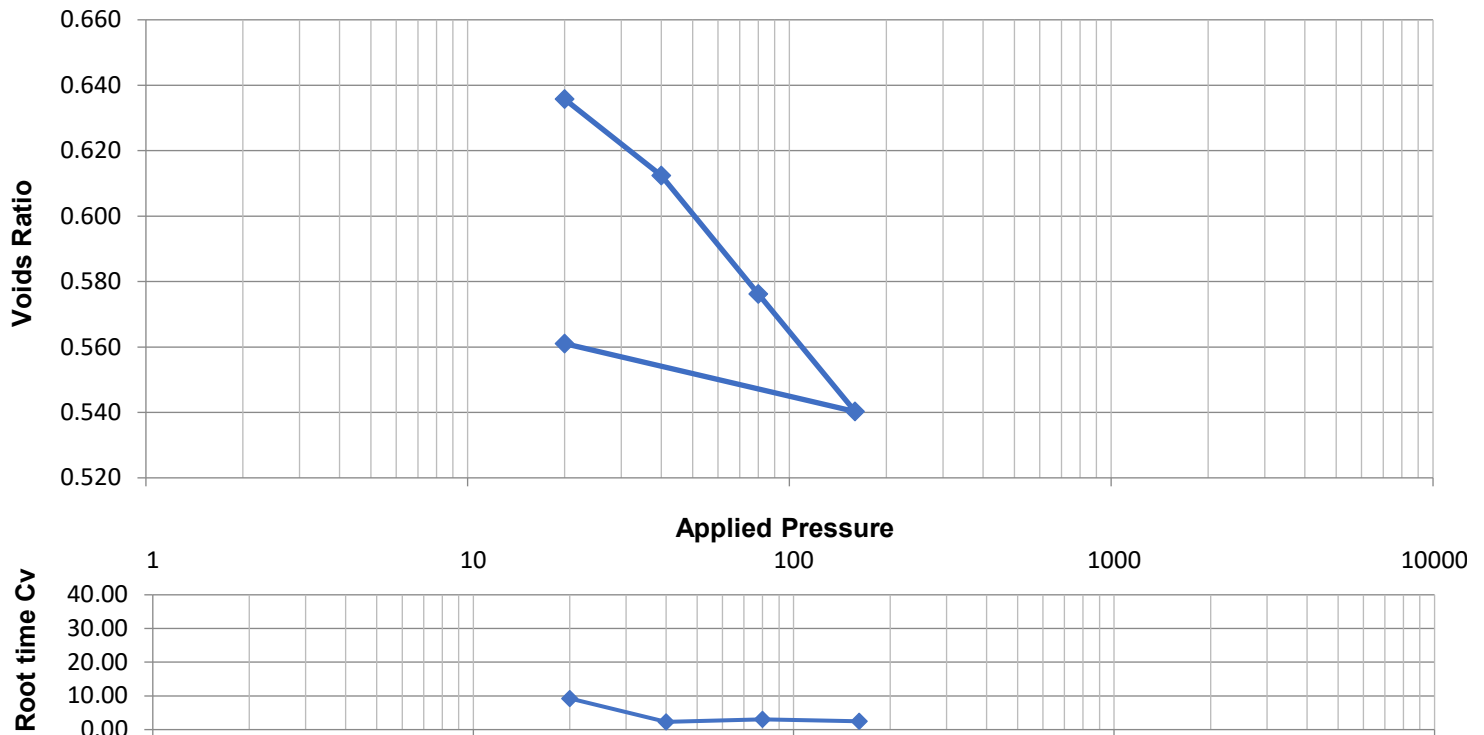
CLIENT	Tier Environmental Ltd
SITE	TE1750 - Bryn Lane Detailed Planning
JOB NUMBER	MRN 4625/33

SAMPLE LABEL	CP111 1.20-1.65 U	DATE SAMPLED	Not advised
LAB SAMPLE No.	127583	DATE RECEIVED	27-Jun-23
DATE TESTED	24-Jul-23	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)	20
	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	20.6 mm	Particle density	2.60	Ass	1	20	20.13	0.636	1.21	20	9.26	8.55
Diameter	69.1 mm	Initial void ratio	0.68		2	40	19.84	0.612	0.71	20	2.29	2.50
Weight wet	142.6 g	Deg. of sat.	73 %		3	80	19.40	0.576	0.56	20	3.06	2.57
Water cont.*	18.9 %	Swell. press.	0 kN/m ²		4	160	18.96	0.540	0.28	20	2.48	1.14
Bulk Density	1.84 Mg/m ³	Dry density	1.55 Mg/m ³		5	20	19.21	0.561	0.10	20		
					6							
					7							

*determined from specimen trimmings



Remarks/Abnormalities

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

Signed

Date 16 August 2023

APPENDIX F - GROUNDWATER AND GAS MONITORING RESULTS

Job No:	TE1750		
Visit No:	1	of	4
Operator:	SW		
Project Manager:	SL		

O ₂	21.4
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	Snow
	Strong
	Overcast
	Heavy
1014	After
	Rising

☐ Frozen

State of ground:
Wind:
Cloud cover:
Precipitation:
Barometric pressure (mbar):
Pressure Trend

[illegible]

Job No:	TE1750		
Visit No:	2	of	4
Operator:	SW		
Project Manager:	SL		

O ₂	20.8
----------------	------

	Snow
	Strong
	Overcast
	Heavy
1016	After
X	Rising

☐ Frozen

State of ground:
Wind:
Cloud cover:
Precipitation:
Barometric pressure (mbar):
Pressure Trend

[illegible]

Job No:	TE1750		
Visit No:	3	of	4
Operator:	LH		
Project Manager:	SL		

O ₂	20.8
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☐ Frozen

State of ground:
Wind:
Cloud cover:
Precipitation:
Barometric pressure (mbar):
Pressure Trend

[illegible]

Job No:	TE1750		
Visit No:	4	of	4
Operator:	SW		
Project Manager:	SL		

O ₂	20.8
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☐ Frozen[illegible]

APPENDIX G - PHOTOGRAPHS

Project Name	BRYN LANE, WREXHAM	Photographic Record	Borehole ID
Project No.	TE1750		TP101
Engineer	EVE ROWLAND		
Client	NET WORLD SPORTS		

	
Pit	

	
Spoil	

Photographed By		Date	
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Project Name	BRYN LANE, WREXHAM	Photographic Record	Borehole ID
Project No.	TE1750		TP102
Engineer	EVE ROWLAND		
Client	NET WORLD SPORTS		

			Pit

			Spoil

Photographed By		Date	
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Project Name	BRYN LANE, WREXHAM	Photographic Record	Borehole ID
Project No.	TE1750		TP103
Engineer	EVE ROWLAND		
Client	NET WORLD SPORTS		

			Pit

			Spoil

Photographed By		Date	

Project Name	BRYN LANE, WREXHAM	Photographic Record	Borehole ID
Project No.	TE1750		TP104
Engineer	EVE ROWLAND		
Client	NET WORLD SPORTS		

		
		Pit

		
		Spoil

Photographed By		Date	

Project Name	BRYN LANE, WREXHAM	Photographic Record	Borehole ID
Project No.	TE1750		TP105
Engineer	EVE ROWLAND		
Client	NET WORLD SPORTS		

		
		Pit

		
		Spoil

Photographed By		Date	
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Project Name BRYN LANE, WREXHAM		Photographic Record	Borehole ID TP106
Project No. TE1750			
Engineer EVE ROWLAND			
Client NET WORLD SPORTS			
		Pit	
		Spoil	
Photographed By			Date

Project Name	BRYN LANE, WREXHAM	Photographic Record	Borehole ID
Project No.	TE1750		TP107
Engineer	EVE ROWLAND		
Client	NET WORLD SPORTS		

	
	Pit

	
	Spoil

Photographed By		Date	
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Project Name	BRYN LANE, WREXHAM	Photographic Record	Borehole ID
Project No.	TE1750		TP108
Engineer	EVE ROWLAND		
Client	NET WORLD SPORTS		

		
		Pit

		
		Spoil

Photographed By		Date	
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Project Name	BRYN LANE, WREXHAM	Photographic Record	Borehole ID
Project No.	TE1750		TP109
Engineer	EVE ROWLAND		
Client	NET WORLD SPORTS		



Pit



Spoil

Photographed By		Date	
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Project Name BRYN LANE, WREXHAM		Photographic Record	Borehole ID TP110
Project No. TE1750			
Engineer EVE ROWLAND			
Client NET WORLD SPORTS			
			Pit
			Spoil
Photographed By		Date	

Project Name BRYN LANE, WREXHAM		Photographic Record	Borehole ID TP111
Project No. TE1750			
Engineer EVE ROWLAND			
Client NET WORLD SPORTS			
			Pit
			Spoil
Photographed By		Date	

Project Name BRYN LANE, WREXHAM		Photographic Record	Borehole ID TP112
Project No. TE1750			
Engineer EVE ROWLAND			
Client NET WORLD SPORTS			
			Pit
			Spoil
Photographed By		Date	

Project Name	BRYN LANE, WREXHAM	Photographic Record	Borehole ID
Project No.	TE1750		TP113
Engineer	EVE ROWLAND		
Client	NET WORLD SPORTS		

	
	Pit

	
	Spoil

Photographed By		Date	
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Project Name	BRYN LANE, WREXHAM	Photographic Record	Borehole ID
Project No.	TE1750		TP114
Engineer	EVE ROWLAND		
Client	NET WORLD SPORTS		

		Pit

		Spoil

Photographed By		Date	
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Project Name	BRYN LANE, WREXHAM	Photographic Record	Borehole ID
Project No.	TE1750		TP115
Engineer	EVE ROWLAND		
Client	NET WORLD SPORTS		

		
		Pit

		
		Spoil

Photographed By		Date	
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Project Name BRYN LANE, WREXHAM		Photographic Record	Borehole ID TP116
Project No. TE1750			
Engineer EVE ROWLAND			
Client NET WORLD SPORTS			
		Pit	
		Spoil	
Photographed By		Date	

Project Name	BRYN LANE, WREXHAM	Photographic Record	Borehole ID
Project No.	TE1750		TP117
Engineer	EVE ROWLAND		
Client	NET WORLD SPORTS		

			Pit

			Spoil

Photographed By		Date	
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Project Name	BRYN LANE, WREXHAM	Photographic Record	Borehole ID
Project No.	TE1750		TP118
Engineer	EVE ROWLAND		
Client	NET WORLD SPORTS		

	
	Pit

	
	Spoil

Photographed By		Date	
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Project Name	BRYN LANE, WREXHAM	Photographic Record	Borehole ID
Project No.	TE1750		TP119
Engineer	EVE ROWLAND		
Client	NET WORLD SPORTS		

			Pit

			Spoil

Photographed By		Date	
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Project Name	BRYN LANE, WREXHAM	Photographic Record	Borehole ID
Project No.	TE1750		TP120
Engineer	EVE ROWLAND		
Client	NET WORLD SPORTS		

		
		Pit

		
		Spoil

Photographed By		Date	

Project Name BRYN LANE, WREXHAM		Photographic Record	Borehole ID TP121
Project No. TE1750			
Engineer EVE ROWLAND			
Client NET WORLD SPORTS			
			
		Pit	
			
		Spoil	
Photographed By		Date	