



*IN SITU SITE INVESTIGATION*

Unit 23 Hastings Innovation  
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Samples / Tests			Water-Strikes	Stratum Description	Depth m/bgl	Thickness (m)	Level m OD	Legend	
Depth (m)	Type	Results							
				Grass over very soft dark grey slightly sandy slightly gravelly SILT with a low cobble content of rounded siltstone and some rootlets. Gravel is subrounded to rounded fine to coarse of siltstone. (TOPSOIL)		(0.40)	119.54		
					0.40				
				Soft to firm orangish brown mottled grey and yellow sandy slightly gravelly CLAY. Gravel is subangular to rounded fine to coarse of mudstone, siltstone, and coal. (GLACIAL TILL)	1	(1.20)			
					1.60		118.34		
				Firm to stiff brown slightly sandy gravelly CLAY with a medium cobble content of subrounded siltstone. Gravel is angular to subrounded fine to coarse of coal, siltstone, and mudstone. (GLACIAL TILL)	2	(0.40)			
					2.00		117.94		
				----- Base of Excavation at 2.00m					
					3				
					4				
					5				



Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Grass over very soft dark greyish-brown slightly sandy slightly gravelly SILT with some rootlets. Gravel is angular to subangular fine to coarse of ceramic, brick, and siltstone. (TOPSOIL)	0.30	(0.30)	118.88	
				Soft to firm light grey sandy slightly gravelly CLAY. Gravel is angular to subrounded fine to coarse of coal, and siltstone. (GLACIAL TILL) <i>... Below 0.50m bgl: orangish-brown mottled grey with a low cobble content of subrounded to rounded siltstone.</i>	1.30	(1.00)	117.88	
				Firm to stiff dark brown mottled grey slightly sandy gravelly CLAY with a low to medium cobble content of subrounded to rounded siltstone. Gravel is subangular to rounded fine to coarse of coal, siltstone, and mudstone. (GLACIAL TILL)	1.80	(0.50)	117.38	
				..... Base of Excavation at 1.80m				
					2			
					3			
					4			
					5			

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Grass over very soft dark greyish brown slightly sandy slightly gravelly silt with some rootlets. Gravel is subangular to subrounded fine to medium of siltstone and coal. (TOPSOIL)	0.30	(0.30)	119.89	
				Soft to firm orangish brown mottled grey and yellow sandy slightly gravelly CLAY. Gravel is angular to subrounded fine to coarse of coal and siltstone. (GLACIAL TILL)	0.90	(0.60)	119.29	
				Light brown slightly gravelly fine to medium SAND. Gravel is angular fine to medium of coal. (GLACIAL TILL)	1.50	(0.60)	118.69	
			▼	Soft to firm brown mottled grey slightly sandy gravelly CLAY. Gravel is angular to rounded fine to coarse of coal, mudstone, and siltstone. (GLACIAL TILL)	2.00	(0.50)	118.19	
				----- Base of Excavation at 2.00m	2.00			
					3			
					4			
					5			

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Grass over very soft dark greyish brown slightly sandy slightly gravelly SILT with a low cobble content of rounded siltstone and some rootlets. Gravel is angular to subrounded fine to coarse of brick and siltstone. (TOPSOIL)	0.30	(0.30)	119.37	
				Soft to firm yellowish brown mottled grey sandy slightly gravelly CLAY with a low to medium cobble content of subrounded to rounded siltstone. Gravel is angular to rounded fine to coarse of coal and siltstone. (GLACIAL TILL)	0.85	(0.55)	118.82	
				Brown silty fine to medium SAND. (GLACIAL TILL) <i>... Below 1.00m bgl: slightly gravelly of subangular to subrounded fine to coarse sandstone and siltstone.</i>	1.00	(0.75)		
				▼ Soft to firm brown mottled grey sandy slightly gravelly CLAY with a low cobble content of subrounded siltstone. Gravel is angular to subrounded fine to coarse of siltstone and mudstone. (GLACIAL TILL)	1.60	(0.30)	118.07	
				..... Base of Excavation at 1.90m	1.90		117.77	
					2			
					3			
					4			
					5			



Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Grass over very soft dark greyish brown slightly sandy slightly gravelly SILT with some rootlets. Gravel is subrounded to rounded fine to coarse of siltstone. (TOPSOIL)	0.20	(0.20)	118.73	
				Soft to firm orangish-brown mottled yellow and grey slightly sandy slightly gravelly CLAY. Gravel is angular to subangular fine to coarse of coal. (GLACIAL TILL)		(0.70)		
				Firm to stiff brown mottled grey and orange slightly sandy slightly gravelly CLAY with a medium cobble content of subrounded to rounded siltstone and mudstone. Gravel is angular to rounded fine to coarse of siltstone, mudstone, and coal. (GLACIAL TILL)	0.90		118.03	
			▼	... Below 1.40m bgl: mottling absent and sandy.		(0.90)		
				..... Base of Excavation at 1.80m	1.80		117.13	
					2			
					3			
					4			
					5			

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Grass over very soft dark greyish-brown slightly sandy slightly gravelly SILT with some rootlets. Gravel is subangular to subrounded fine to medium of siltstone. (TOPSOIL)	0.25	(0.25)	119.88	
				Soft to firm yellowish brown mottled orange and grey sandy slightly gravelly CLAY with a low cobble content of subrounded to rounded siltstone. Gravel is angular to subrounded fine to coarse of siltstone and coal. (GLACIAL TILL)	1.20	(0.95)	118.93	
				Firm to stiff brown mottled orange slightly sandy gravelly CLAY with a low to medium cobble content of subrounded to rounded siltstone. Gravel is subangular to rounded fine to coarse of coal, mudstone, and siltstone. (GLACIAL TILL)	1.90	(0.70)	118.23	
				----- Base of Excavation at 1.90m	2			
					3			
					4			
					5			

Run (m)	Samples / Tests			Drilling Record			Water-Strikes	Stratum Description	Depth m	Thickness m	Level m OD	Legend
	Depth (m)	Type	Results	Weight (Kg)	Mins	Secs						
								FILL (drillers description) - Superficial Deposits (GLACIAL TILL)	1 2 3 4 5 6 7 8	(8.50)	125.96	
								SANDSTONE (PENNINE LOWER COAL MEASURES)	9 10 11 12 13	(5.00)	120.96	
								Grey MUDSTONE (PENNINE LOWER COAL MEASURES)	14 15 16 17 18	(5.00)	115.96	
								COAL (PENNINE LOWER COAL MEASURES)	19	(0.60)	115.36	
								Grey MUDSTONE (PENNINE LOWER COAL MEASURES)	20 21 22 23 24	(5.90)	109.46	
								End of Borehole at 25.00m	25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40			



Run (m)	Samples / Tests			Drilling Record			Water-Strikes	Stratum Description	Depth mogl	Thickness (m)	Level m OD	Legend	
	Depth (m)	Type	Results	Weight (Kg)	Mins	Secs							
								FILL (drillers description) - Superficial Deposits (GLACIAL TILL)	1 2 3 4 5 6 7 8	(8.00)	126.91		
								SANDSTONE (PENNINE LOWER COAL MEASURES)	8	8.00	(1.00)	125.91	
								COAL TRACES (PENNINE LOWER COAL MEASURES)	9	9.00	(0.50)	125.41	
								Grey MUDSTONE (PENNINE LOWER COAL MEASURES)	10 11 12 13 14	(5.00)			
								COAL (PENNINE LOWER COAL MEASURES)	14.50	14.50	(0.50)	119.91	
								Grey MUDSTONE (PENNINE LOWER COAL MEASURES)	15 16 17 18 19 20 21	(11.50)	113.91		
									21	21.00	(3.00)		
									23	24.00	(-5.50)	110.91	
								Grey MUDSTONE (PENNINE LOWER COAL MEASURES)	24 25 26				
								SANDSTONE (PENNINE LOWER COAL MEASURES)	26.50	26.50		108.41	
								End of Borehole at 24.00m	27 28 29 30 31 32 33 34 35 36 37 38 39 40				

Run (m)	Samples / Tests			Drilling Record			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
	Depth (m)	Type	Results	Weight (Kg)	Mins	Secs						
								FILL (drillers description) - Superficial Deposits (GLACIAL TILL)	1			
									2			
									3			
									4	(8.00)		
									5			
									6			
									7			
									8	8.00	126.95	
									8.50	(0.50)	126.45	
									9.00	(0.50)	125.95	
									10			
									11			
									12	(5.50)		
									13			
									14	14.50	120.45	
									15	15.50	119.45	
									16			
									17			
									18			
									19			
									20	(8.50)		
									21			
									22			
									23			
									24	24.00	110.95	
									25			
									26			
									27			
									28			
									29			
									30			
									31			
									32			
									33			
									34			
									35			
									36			
									37			
									38			
									39			
									40			

Run (m)	Samples / Tests			Drilling Record			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
	Depth (m)	Type	Results	Weight (Kg)	Mins	Secs						
								FILL (drillers description) - Superficial Deposits (GLACIAL TILL)	1 2 3 4 5 6 7	(7.20)	128.02	
								Grey MUDSTONE (PENNINE LOWER COAL MEASURES)	8	(1.10)	126.92	
								Grey SILTSTONE (PENNINE LOWER COAL MEASURES)	9 10 11 12 13 14 15	(6.90)	120.02	
								COAL (PENNINE LOWER COAL MEASURES)	16	(1.40)	118.62	
								Grey MUDSTONE (PENNINE LOWER COAL MEASURES)	17 18 19 20 21 22 23	(7.40)		
								End of Borehole at 24.00m	24		111.22	
									25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40			



Run (m)	Samples / Tests			Drilling Record			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
	Depth (m)	Type	Results	Weight (Kg)	Mins	Secs						
								FILL / sandy CLAY (drillers description) - Superficial Deposits (GLACIAL TILL)	1			
									2			
									3			
									4			
									5	(9.40)		
									6			
									7			
									8			
									9			
									9.40		126.20	
								SILTSTONE (PENNINE LOWER COAL MEASURES)	10	(0.80)	125.40	
								COAL (PENNINE LOWER COAL MEASURES)	11	(0.80)	124.60	
								MUDSTONE (PENNINE LOWER COAL MEASURES)	12			
									13			
									14	(6.80)		
									15			
									16			
									17			
									17.80		117.80	
								COAL (PENNINE LOWER COAL MEASURES)	18	(1.30)		
								MUDSTONE (PENNINE LOWER COAL MEASURES)	19		116.50	
									20			
									21			
									22	(4.90)		
									23			
									24.00		111.60	
								End of Borehole at 24.00m	24			
									25			
									26			
									27			
									28			
									29			
									30			
									31			
									32			
									33			
									34			
									35			
									36			
									37			
									38			
									39			
									40			

Run (m)	Samples / Tests			Drilling Record			Water-Strikes	Stratum Description	Depth m	Depth m bgl	Thickness (m)	Level m OD	Legend
	Depth (m)	Type	Results	Weight (Kg)	Mins	Secs							
								FILL / sandy CLAY (drillers description) - Superficial Deposits (GLACIAL TILL)	1				
									2				
									3				
									4				
									5		(9.00)		
									6				
									7				
									8				
									9	9.00		126.85	
								MUDSTONE (PENNINE LOWER COAL MEASURES)	10	10.20	(1.20)	125.65	
								COAL (PENNINE LOWER COAL MEASURES)	11	11.10	(0.90)	124.75	
								MUDSTONE (PENNINE LOWER COAL MEASURES)	12				
									13				
									14		(6.70)		
									15				
									16				
									17				
									18	17.80		118.05	
								COAL (PENNINE LOWER COAL MEASURES)	19	19.00	(1.20)	116.85	
								MUDSTONE (PENNINE LOWER COAL MEASURES)	20				
									21				
									22		(5.00)		
									23				
									24	24.00		111.85	
								End of Borehole at 24.00m	25				
									26				
									27				
									28				
									29				
									30				
									31				
									32				
									33				
									34				
									35				
									36				
									37				
									38				
									39				
									40				

Run (m)	Samples / Tests			Drilling Record			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
	Depth (m)	Type	Results	Weight (Kg)	Mins	Secs						
								FILL / sandy CLAY (drillers description) - Superficial Deposits (GLACIAL TILL)	1 2 3 4 5 6 7	(7.50)	129.05	
								MUDSTONE (PENNINE LOWER COAL MEASURES)	8 9 10	(3.00)	126.05	
								COAL (PENNINE LOWER COAL MEASURES)	11	(1.00)	125.05	
								MUDSTONE (PENNINE LOWER COAL MEASURES)	12 13 14 15 16 17	(6.80)		
								COAL (PENNINE LOWER COAL MEASURES)	18	(1.30)	118.25	
								MUDSTONE (PENNINE LOWER COAL MEASURES)	19 20 21 22 23	(4.40)	116.95	
								COAL (PENNINE LOWER COAL MEASURES)	19	(1.30)	116.95	
								MUDSTONE (PENNINE LOWER COAL MEASURES)	20 21 22 23	(4.40)		
								End of Borehole at 24.00m	24		112.55	
									25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40			



Run (m)	Samples / Tests			Drilling Record			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	
	Depth (m)	Type	Results	Weight (Kg)	Mins	Secs							
								FILL (drillers description) - Superficial Deposits (GLACIAL TILL)	1				
									2				
									3				
									4	(7.00)			
									5				
									6				
									7	7.00	128.72		
								Grey MUDSTONE (PENNINE LOWER COAL MEASURES)	8				
									9		(3.20)		
									10	10.20	125.52		
								COAL (PENNINE LOWER COAL MEASURES)	11		(1.40)		
									12	11.60	124.12		
								Grey MUDSTONE (PENNINE LOWER COAL MEASURES)	13				
									14				
									15		(6.20)		
									16				
									17				
									18	17.80	117.92		
								COAL (PENNINE LOWER COAL MEASURES)	19		(0.90)		
									20	18.70	117.02		
								Grey MUDSTONE (PENNINE LOWER COAL MEASURES)	21				
									22		(5.30)		
									23				
									24	24.00	111.72		
								End of Borehole at 24.00m	25				
									26				
									27				
									28				
									29				
									30				
									31				
									32				
									33				
									34				
									35				
									36				
									37				
									38				
									39				
									40				

Run (m)	Samples / Tests			Drilling Record			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
	Depth (m)	Type	Results	Weight (Kg)	Mins	Secs						
								FILL (drillers description) - Superficial Deposits (GLACIAL TILL)	1 2 3 4 5 6 7	(7.50)		
								Grey MUDSTONE (PENNINE LOWER COAL MEASURES)	7.50 8 9		127.65	
								COAL (PENNINE LOWER COAL MEASURES)	9.50 10 10.50	(2.00)	125.65	
								Grey MUDSTONE (PENNINE LOWER COAL MEASURES)	10.50 11 12 13 14 15 16 17 18	(1.00)	124.65	
								COAL (PENNINE LOWER COAL MEASURES)	18.20 19	(7.70)	116.95	
								Grey MUDSTONE (PENNINE LOWER COAL MEASURES)	19.60 20 21 22 23	(1.40)	115.55	
								Grey MUDSTONE (PENNINE LOWER COAL MEASURES)	24.00	(4.40)	111.15	
								End of Borehole at 24.00m	24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40			

Run (m)	Samples / Tests			Drilling Record			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
	Depth (m)	Type	Results	Weight (Kg)	Mins	Secs						
								FILL (drillers description) - Superficial Deposits (GLACIAL TILL)	1			
									2			
									3	(6.30)		
									4			
									5			
									6	6.30	126.40	
								Grey MUDSTONE (PENNINE LOWER COAL MEASURES)	7			
									8			
									9			
									10	(7.20)		
									11			
									12			
									13	13.50	119.20	
								COAL (PENNINE LOWER COAL MEASURES)	14	14.20	(0.70)	118.50
								Grey MUDSTONE (PENNINE LOWER COAL MEASURES)	15			
									16			
									17	(6.00)		
									18			
									19			
									20	20.20	112.50	
								COAL (PENNINE LOWER COAL MEASURES)	21	21.00	(0.80)	111.70
								Grey MUDSTONE (PENNINE LOWER COAL MEASURES)	22			
									23	(3.00)		
									24	24.00	108.70	
								End of Borehole at 24.00m	25			
									26			
									27			
									28			
									29			
									30			
									31			
									32			
									33			
									34			
									35			
									36			
									37			
									38			
									39			
									40			

Run (m)	Samples / Tests			Drilling Record			Water- Strikes	Stratum Description	Depth m	Thickness m	Level m OD	Legend
	Depth (m)	Type	Results	Weight (Kg)	Mins	Secs						
								FILL (drillers description) - Superficial Deposits (GLACIAL TILL)	1 2 3 4 5 6 7 8 9 10	(10.20)	125.82	
								Grey MUDSTONE (PENNINE LOWER COAL MEASURES)	11 12 13 14 15 16 17 18 19 20	(10.30)	115.52	
								COAL (PENNINE LOWER COAL MEASURES)	21	(1.10)	114.42	
								Grey MUDSTONE (PENNINE LOWER COAL MEASURES)	22 23 24	(3.40)		
								..... End of Borehole at 25.00m .....	25	25.00	111.02	
									26 27 28 29 30 31 32 33 34 35 36 37 38 39 40			

Run (m)	Samples / Tests			Drilling Record			Water-Strikes	Stratum Description	Depth m	Depth m	Thickness (m)	Level m OD	Legend
	Depth (m)	Type	Results	Weight (Kg)	Mins	Secs							
								FILL / sandy CLAY (drillers description) - Superficial Deposits (GLACIAL TILL)	1				
									2				
									3				
									4		(7.00)		
									5				
									6				
									7	7.00		129.42	
								SILTSTONE (PENNINE LOWER COAL MEASURES)	8				
									9				
									10		(6.20)		
									11				
									12				
									13	13.20		123.22	
								COAL (PENNINE LOWER COAL MEASURES)	14	14.10	(0.90)	122.32	
								MUDSTONE (PENNINE LOWER COAL MEASURES)	15				
									16				
									17		(5.10)		
									18				
									19	19.20		117.22	
								COAL (PENNINE LOWER COAL MEASURES)	20	20.40	(1.20)	116.02	
								MUDSTONE (PENNINE LOWER COAL MEASURES)	21				
									22		(3.60)		
									23				
									24	24.00		112.42	
								End of Borehole at 24.00m	25				
									26				
									27				
									28				
									29				
									30				
									31				
									32				
									33				
									34				
									35				
									36				
									37				
									38				
									39				
									40				

Run (m)	Samples / Tests			Drilling Record			Water-Strikes	Stratum Description	Depth m	Depth m	Thickness (m)	Level m OD	Legend
	Depth (m)	Type	Results	Weight (Kg)	Mins	Secs							
								FILL / sandy CLAY (drillers description) - Superficial Deposits (GLACIAL TILL)	1				
									2				
									3		(6.50)		
									4				
									5				
									6				
									6.50			130.39	
								MUDSTONE (PENNINE LOWER COAL MEASURES)	7				
									8		(3.50)		
									9				
									10			126.89	
								COAL (PENNINE LOWER COAL MEASURES)	11		(1.00)		
									11			125.89	
								MUDSTONE (PENNINE LOWER COAL MEASURES)	12				
									13				
									14				
									15		(8.70)		
									16				
									17				
									18				
									19				
									19.70			117.19	
								COAL (PENNINE LOWER COAL MEASURES)	20		(1.30)		
									21			115.89	
								MUDSTONE (PENNINE LOWER COAL MEASURES)	22		(3.00)		
									23				
									24				
								End of Borehole at 24.00m	24			112.89	
									25				
									26				
									27				
									28				
									29				
									30				
									31				
									32				
									33				
									34				
									35				
									36				
									37				
									38				
									39				
									40				

Run (m)	Samples / Tests			Drilling Record			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
	Depth (m)	Type	Results	Weight (Kg)	Mins	Secs						
								FILL (drillers description) - Superficial Deposits (GLACIAL TILL)	1			
									2			
									3	(6.00)		
									4			
									5			
									6	6.00	127.76	
								Dark grey MUDSTONE (PENNINE LOWER COAL MEASURES)	7			
									8			
									9			
									10	(7.50)		
									11			
									12			
									13	13.50	120.26	
								COAL (PENNINE LOWER COAL MEASURES)	14	14.30	(0.80)	119.46
								Grey MUDSTONE (PENNINE LOWER COAL MEASURES)	15			
									16			
									17	(5.70)		
									18			
									19			
									20	20.00	113.76	
								COAL (PENNINE LOWER COAL MEASURES)	21	20.80	(0.80)	112.96
								Grey MUDSTONE (PENNINE LOWER COAL MEASURES)	22			
									23	(3.20)		
									24	24.00	109.76	
								End of Borehole at 24.00m	25			
									26			
									27			
									28			
									29			
									30			
									31			
									32			
									33			
									34			
									35			
									36			
									37			
									38			
									39			
									40			

Run (m)	Samples / Tests			Drilling Record			Water-Strikes	Stratum Description	Depth m	Thicknss m	Level m OD	Legend
	Depth (m)	Type	Results	Weight (Kg)	Mins	Secs						
								FILL (drillers description) - Superficial Deposits (GLACIAL TILL)	1 2 3 4 5 6 7 8 9	(9.50)	124.18	
								SANDSTONE (PENNINE LOWER COAL MEASURES)	10 11 12 13	(4.50)		
								Grey MUDSTONE (PENNINE LOWER COAL MEASURES)	14 15 16 17 18	(5.20)	119.68	
								COAL (PENNINE LOWER COAL MEASURES)	19 20	(1.50)	114.48	
								Grey MUDSTONE (PENNINE LOWER COAL MEASURES)	21 22 23 24	(4.30)	112.98	
								..... End of Borehole at 25.00m .....	25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40		108.68	



Run (m)	Samples / Tests			Drilling Record			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
	Depth (m)	Type	Results	Weight (Kg)	Mins	Secs						
								FILL (drillers description) - Superficial Deposits (GLACIAL TILL)	1 2 3 4 5 6 7 8	(8.50)	125.46	
								SANDSTONE (PENNINE LOWER COAL MEASURES)	9 10 11 12 13 14	(6.00)	119.46	
								Grey MUDSTONE (PENNINE LOWER COAL MEASURES)	15 16 17 18	(3.70)	115.76	
								COAL (PENNINE LOWER COAL MEASURES)	19 20	(1.50)	114.26	
								Grey MUDSTONE (PENNINE LOWER COAL MEASURES)	21 22 23 24	(5.30)	108.96	
								..... End of Borehole at 25.00m .....	25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40			

Run (m)	Samples / Tests			Drilling Record			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
	Depth (m)	Type	Results	Weight (Kg)	Mins	Secs						
								FILL (drillers description) - Superficial Deposits (GLACIAL TILL)	1 2 3 4 5 6 7 8	(8.00)	124.57	
								SANDSTONE (PENNINE LOWER COAL MEASURES)	9 10	(2.50)	122.07	
								COAL TRACES (PENNINE LOWER COAL MEASURES)	11	(0.50)	121.57	
								SANDSTONE (PENNINE LOWER COAL MEASURES)	12 13 14 15 16 17	(7.00)		
								Grey MUDSTONE (PENNINE LOWER COAL MEASURES)	18 19 20 21 22 23	(6.00)	114.57	
								End of Borehole at 24.00m	24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40		108.57	

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Dark brown slightly gravelly very clayey fine to coarse SAND with rootlets. Gravel is subangular to subrounded, fine to coarse of sandstone and mudstone with rare plastic inclusions. (TOPSOIL)	0.40	(0.40)	130.70	
				Light orangish brown mottled grey sandy, slightly gravelly CLAY with fine to coarse sand lenses. Gravel is subangular to subrounded, fine to coarse of sandstone, siltstone, mudstone and coal. (GLACIAL TILL)	0.70	(0.30)	130.40	
				..... Base of Excavation at 0.70m				
					1			
					2			



Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Dark brown slightly gravelly very sandy CLAY with rootlets and rare cobbles of subrounded sandstone. Gravel is subangular to subrounded, fine to coarse of sandstone, mudstone and rare brick inclusions. (TOPSOIL)		(0.50)		
				Light orangish brown mottled grey sandy, slightly gravelly CLAY with fine to coarse sand lenses and rare cobbles of subrounded sandstone. Gravel is subangular to subrounded, fine to coarse of sandstone, siltstone, mudstone and coal. (GLACIAL TILL)	0.50		131.96	
				----- Base of Excavation at 0.90m	0.90		130.96	
					1			
					2			

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Dark brown slightly gravelly very sandy CLAY with rootlets. Gravel is subangular to subrounded, fine to coarse of sandstone, mudstone, chert and rare brick inclusions. (TOPSOIL)	0.30	(0.30)	130.87	
				Light orangish brown mottled grey sandy, slightly gravelly CLAY with fine to coarse sand lenses. Gravel is subangular to subrounded, fine to coarse of sandstone, siltstone, mudstone and coal. (GLACIAL TILL)	0.50	(0.20)	130.67	
				..... Base of Excavation at 0.50m				
					1			
					2			

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Dark brown slightly gravelly very sandy CLAY with rootlets with rare cobble of carbonaceous siltstone. Gravel is subangular to subrounded, fine to coarse of sandstone, mudstone, chert and rare brick inclusions. (TOPSOIL)	0.40	(0.40)	131.89	
				Light orangish brown mottled grey sandy, slightly gravelly CLAY with fine to coarse sand lenses. Gravel is subangular to subrounded, fine to coarse of sandstone, siltstone, mudstone and coal. (GLACIAL TILL)	0.80	(0.40)	131.49	
				----- Base of Excavation at 0.80m				
					1			
					2			

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Dark brown slightly gravelly very sandy CLAY with rootlets with rare cobble of carbonaceous siltstone. Gravel is subangular to subrounded, fine to coarse of sandstone, mudstone and rare brick inclusions. (TOPSOIL)		(0.30)		
				Light orangish brown mottled grey sandy, slightly gravelly CLAY with fine to coarse sand lenses. Gravel is subangular to subrounded, fine to coarse of sandstone, siltstone, mudstone and coal. (GLACIAL TILL)	0.30		132.29	
				..... Base of Excavation at 0.70m	0.70		131.89	
					1			
					2			



Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Dark brown slightly gravelly very clayey fine to coarse SAND with rootlets. Gravel is subangular to subrounded, fine to coarse of sandstone, mudstone and rare brick and tile inclusions. (TOPSOIL)	0.40	(0.40)	131.75	
				Light orangish brown mottled grey sandy, slightly gravelly CLAY fine to coarse sand lenses. Gravel is subangular to subrounded, fine to coarse of sandstone, siltstone, mudstone and coal. (GLACIAL TILL)	1.00	(0.60)	131.15	
				----- Base of Excavation at 1.00m				



## Exploratory Hole Photographs

# Trial Pit / Trial Trench Photographs

<p>Site Investigation Photograph 1</p>	
<p>Date: 03/06/2021</p>	
<p>Direction Photograph Taken: n/a.</p>	
<p>Description:  HYD-TP06 Excavation</p>	

<p>Site Investigation Photograph 2</p>	
<p>Date: 03/06/2021</p>	
<p>Direction Photograph Taken: n/a.</p>	
<p>Description:  HYD-TP06 Arisings</p>	



<p>Site Investigation Photograph 3</p>	
<p>Date: 03/06/2021</p>	
<p>Direction Photograph Taken: n/a.</p>	
<p>Description:  HYD-TP02 Excavation</p>	

<p>Site Investigation Photograph 4</p>	
<p>Date: 03/06/2021</p>	
<p>Direction Photograph Taken: n/a.</p>	
<p>Description:  HYD-TP02 Arisings</p>	



<p>Site Investigation Photograph 5</p>	
<p>Date: 07/06/21</p>	
<p>Direction Photograph Taken: n/a.</p>	
<p>Description:  HYD-TP24 Excavation</p>	

<p>Site Investigation Photograph 6</p>	
<p>Date: 07/06/21</p>	
<p>Direction Photograph Taken: n/a.</p>	
<p>Description:  HYD-TP24 Arisings</p>	



<p>Site Investigation Photograph 7</p>	
<p>Date: 09/06/21</p>	
<p>Direction Photograph Taken: n/a.</p>	
<p>Description:  HYD-TP30 Excavation</p>	

<p>Site Investigation Photograph 8</p>	
<p>Date: 09/06/21</p>	
<p>Direction Photograph Taken: n/a.</p>	
<p>Description:  HYD-TP30 Arisings</p>	



<p>Site Investigation Photograph 9</p>	
<p>Date: 10/06/21</p>	
<p>Direction Photograph Taken: n/a.</p>	
<p>Description:  HYD-TT01 Excavation and Arisings</p>	

<p>Site Investigation Photograph 10</p>	
<p>Date: 10/06/21</p>	
<p>Direction Photograph Taken: n/a.</p>	
<p>Description:  HYD-TT07 Excavation.</p>	



<p>Site Investigation Photograph 11</p>	
<p>Date: 11/06/21</p>	
<p>Direction Photograph Taken: n/a.</p>	
<p>Description:  HYD-TT18 Excavation</p>	

<p>Site Investigation Photograph 12</p>	
<p>Date: 11/06/21</p>	
<p>Direction Photograph Taken: n/a.</p>	
<p>Description:  HYD-TT03 Excavation</p>	



<p>Site Investigation Photograph 13</p>	
<p>Date: 11/06/21</p>	
<p>Direction Photograph Taken: n/a.</p>	
<p>Description:  HYD-TT05 Arisings.</p>	

<p>Site Investigation Photograph 14</p>	
<p>Date: 11/06/21</p>	
<p>Direction Photograph Taken: n/a.</p>	
<p>Description:  HYD-TT17 Excavation</p>	

# Appendix C Geotechnical Test Results and Geotechnical Plots

## Geotechnical Laboratory Test Results



# TEST CERTIFICATE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

## Liquid and Plastic Limits

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 24/05/2021  
Date Received: 09/06/2021  
Date Tested: 28/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

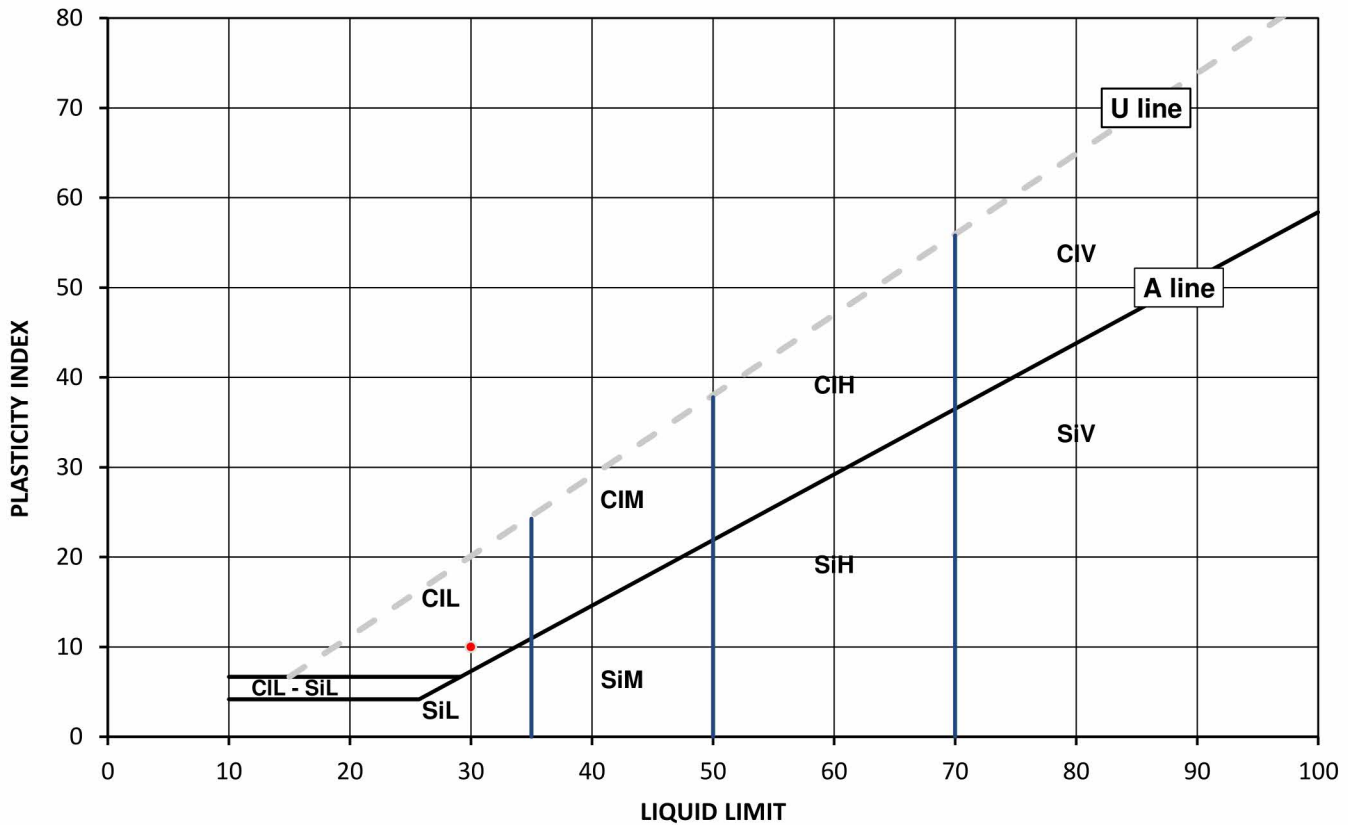
### Test Results:

Laboratory Reference: 1906642  
Hole No.: HYDCP01  
Sample Reference: Not Given  
Soil Description: Brown slightly gravelly very sandy CLAY

Depth Top [m]: 0.40  
Depth Base [m]: 1.00  
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
23	30	20	10	87



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Szczepan Białowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

## Liquid and Plastic Limits

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 25/05/2021  
Date Received: 09/06/2021  
Date Tested: 29/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

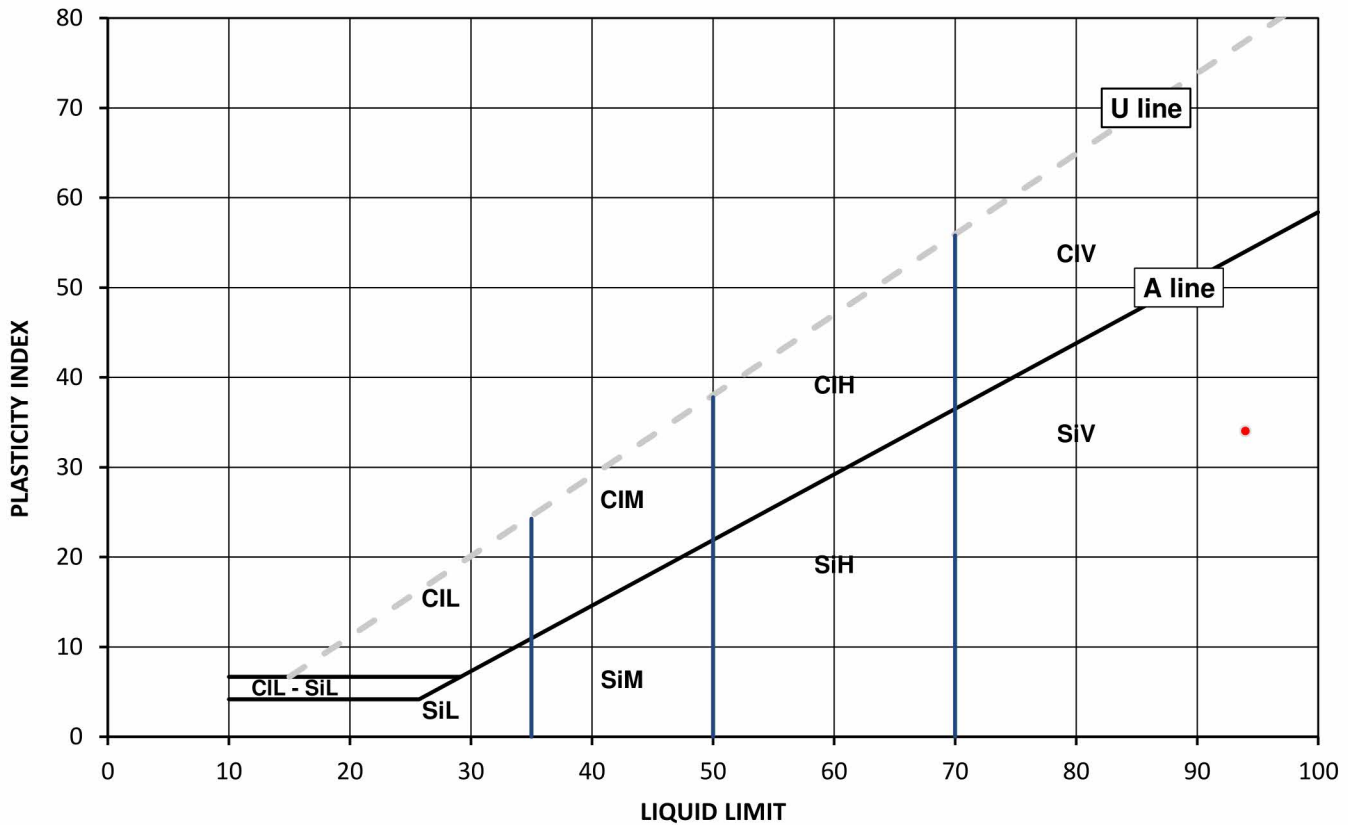
### Test Results:

Laboratory Reference: 1906644  
Hole No.: HYDCP02  
Sample Reference: Not Given  
Soil Description: Dark brown slightly gravelly organic CLAY

Depth Top [m]: 0.10  
Depth Base [m]: 0.60  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
62	94	60	34	90



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:



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Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

## Liquid and Plastic Limits

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 10/06/2021  
Date Received: 09/06/2021  
Date Tested: 28/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

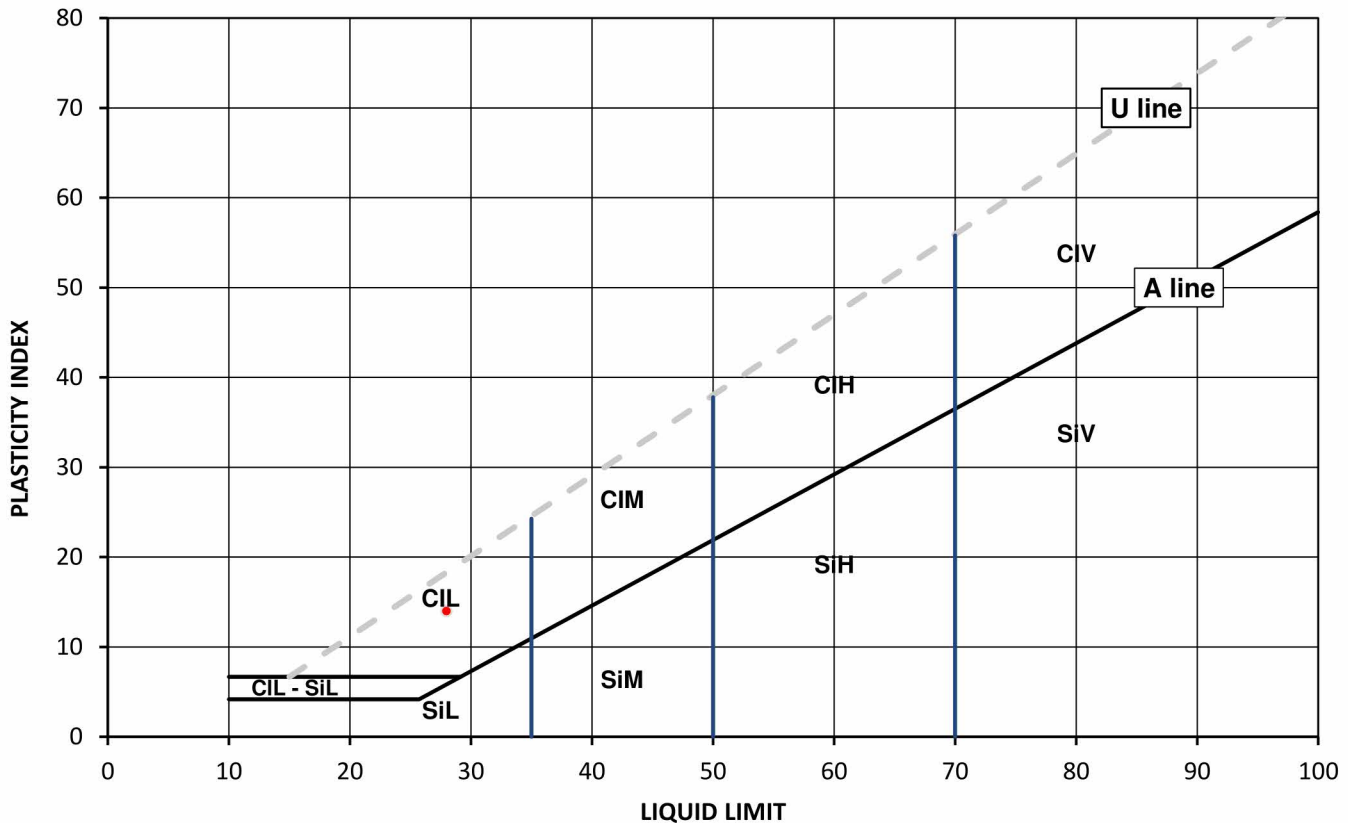
### Test Results:

Laboratory Reference: 1906648  
Hole No.: HYDCP03  
Sample Reference: Not Given  
Soil Description: Brownish grey slightly gravelly very sandy CLAY

Depth Top [m]: 1.20  
Depth Base [m]: 1.65  
Sample Type: D

Sample Preparation: Tested after >425um removed by hand

As Received Moisture Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
14	28	14	14	88



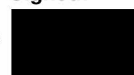
Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Brackmills Industrial Estate  
Northampton NN4 7EB



## Liquid and Plastic Limits

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: Not Given  
Date Received: 09/06/2021  
Date Tested: 29/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

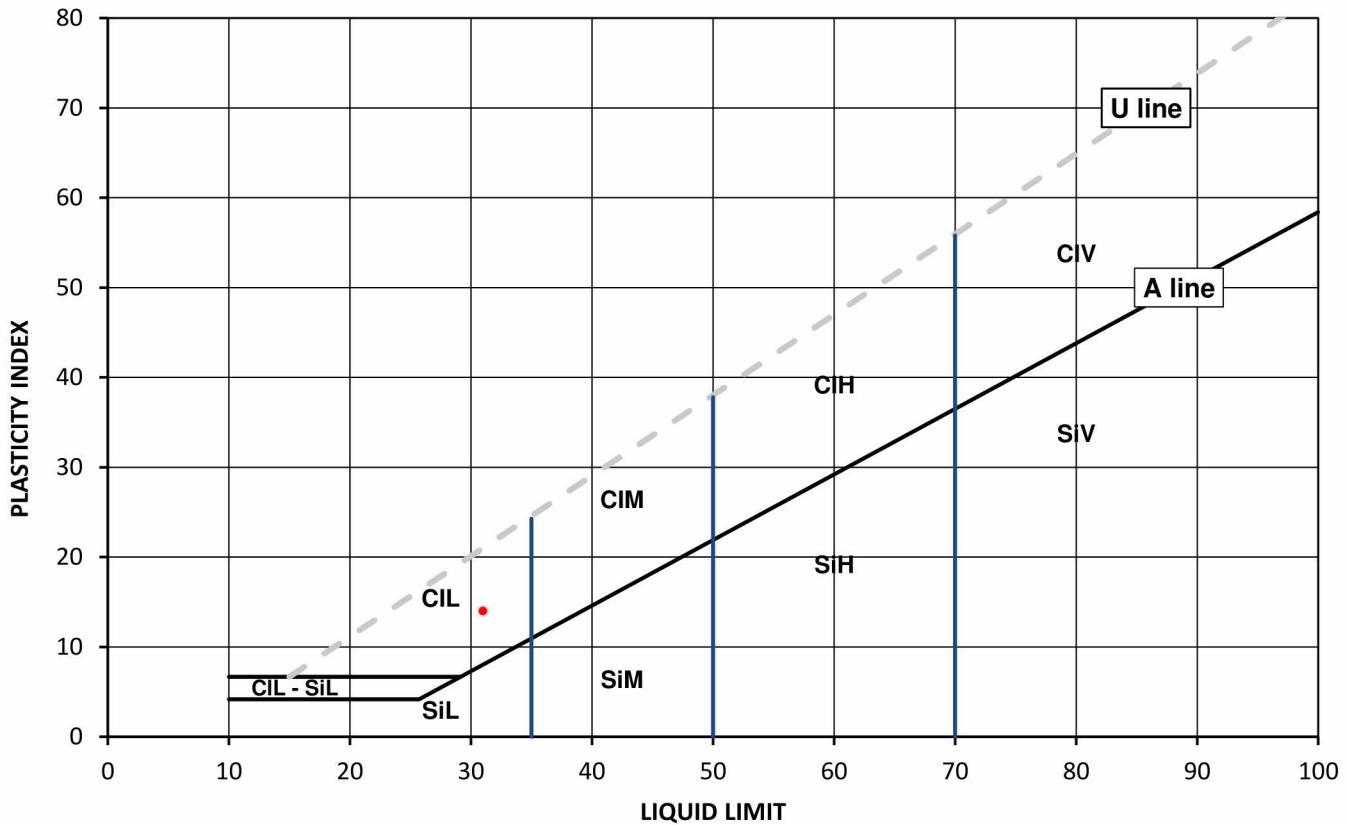
### Test Results:

Laboratory Reference: 1906651  
Hole No.: HYDCP04  
Sample Reference: Not Given  
Soil Description: Greyish brown slightly gravelly very sandy CLAY

Depth Top [m]: 0.50  
Depth Base [m]: 1.00  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
26	31	17	14	88



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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# TEST CERTIFICATE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



## Liquid and Plastic Limits

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 08/06/2021  
Date Received: 09/06/2021  
Date Tested: 28/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

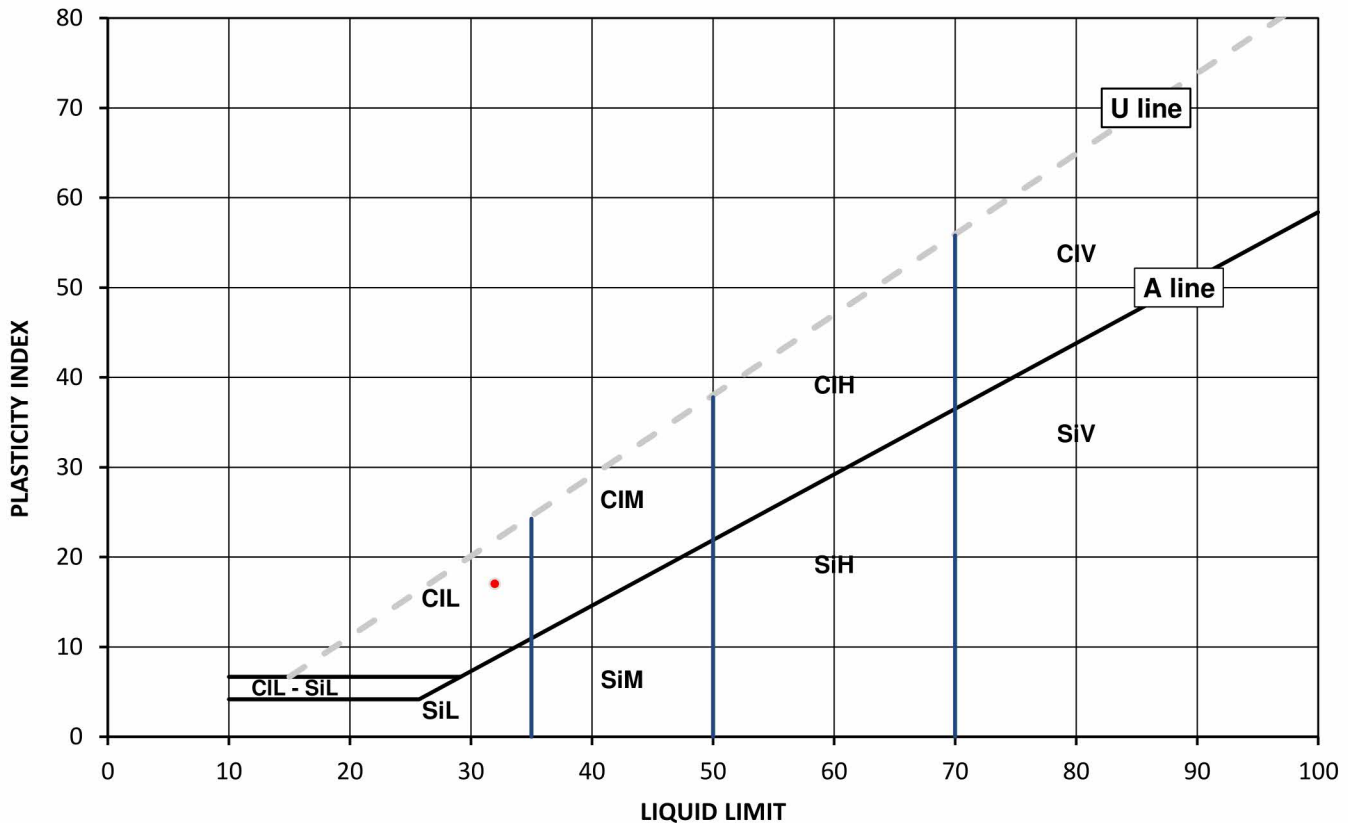
### Test Results:

Laboratory Reference: 1906654  
Hole No.: HYDCP05  
Sample Reference: Not Given  
Soil Description: Brown gravelly very sandy CLAY

Depth Top [m]: 3.00  
Depth Base [m]: 3.45  
Sample Type: D

Sample Preparation: Tested after >425um removed by hand

As Received Moisture Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
9.4	32	15	17	56



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

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Northampton NN4 7EB



## Liquid and Plastic Limits

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 04/06/2021  
Date Received: 09/06/2021  
Date Tested: 29/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

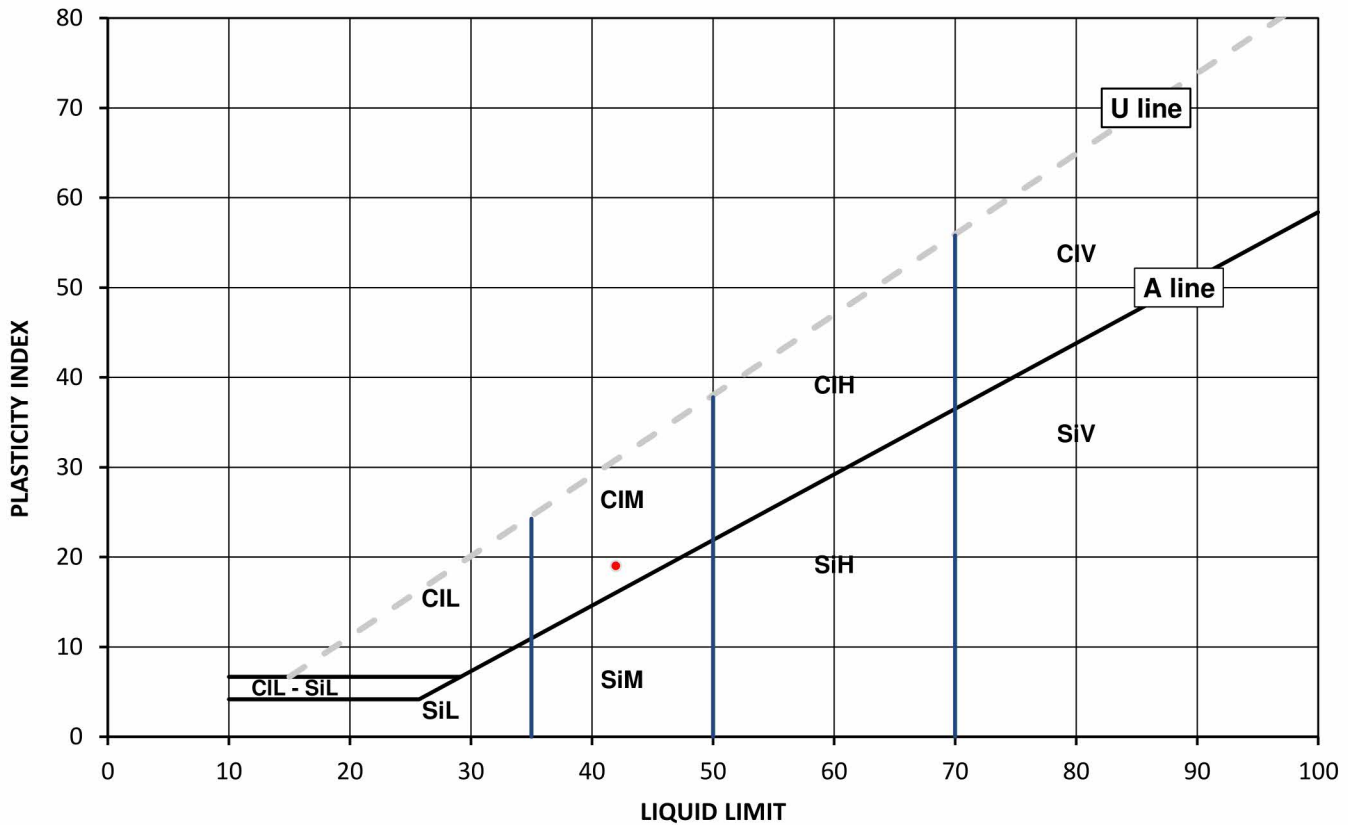
### Test Results:

Laboratory Reference: 1906656  
Hole No.: HYDCP06  
Sample Reference: Not Given  
Soil Description: Mottled brown slightly gravelly sandy CLAY

Depth Top [m]: 0.50  
Depth Base [m]: 1.20  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
19	42	23	19	88



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:



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# TEST CERTIFICATE

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Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

## Liquid and Plastic Limits

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 10/06/2021  
Date Received: 09/06/2021  
Date Tested: 28/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

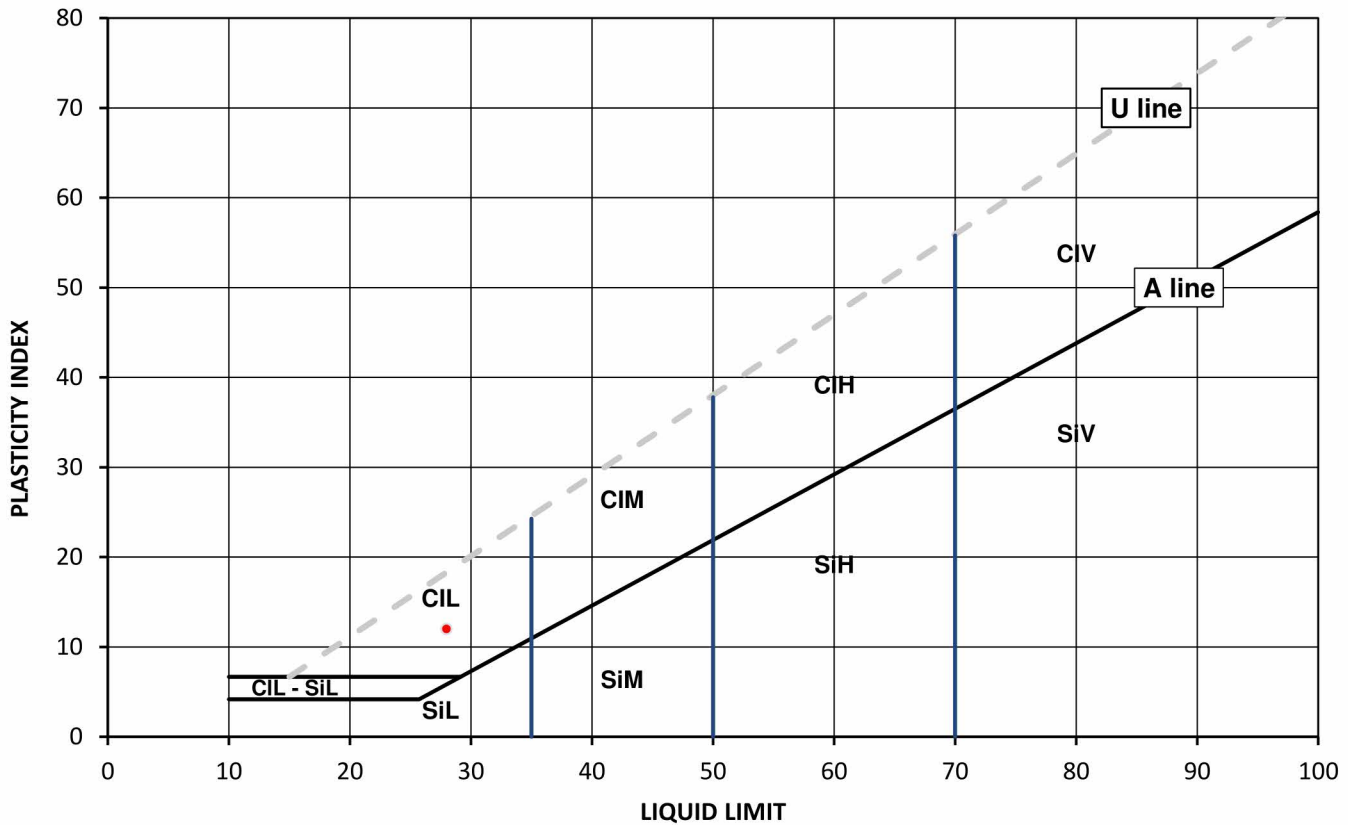
### Test Results:

Laboratory Reference: 1906670  
Hole No.: HYDCP14  
Sample Reference: Not Given  
Soil Description: Dark brown slightly gravelly very sandy CLAY

Depth Top [m]: 1.20  
Depth Base [m]: 1.65  
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
11	28	16	12	79



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:



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PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

## Liquid and Plastic Limits

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 04/06/2021  
Date Received: 09/06/2021  
Date Tested: 28/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

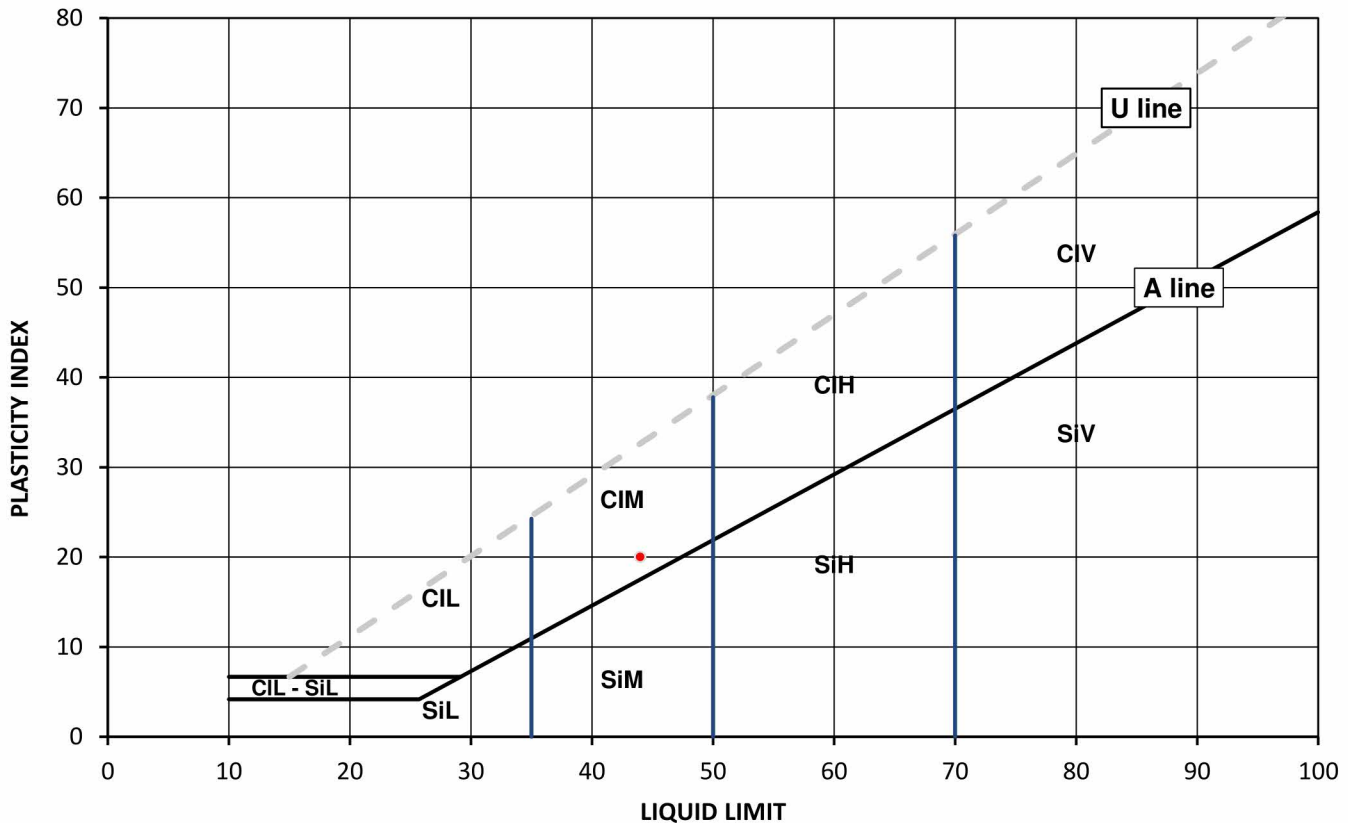
### Test Results:

Laboratory Reference: 1906674  
Hole No.: HYDCP17  
Sample Reference: Not Given  
Soil Description: Black gravelly sandy CLAY with shells

Depth Top [m]: 6.00  
Depth Base [m]: 6.45  
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
6.7	44	24	20	38



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:



Szczepan Białowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

## Liquid and Plastic Limits

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 09/06/2021  
Date Received: 09/06/2021  
Date Tested: 28/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

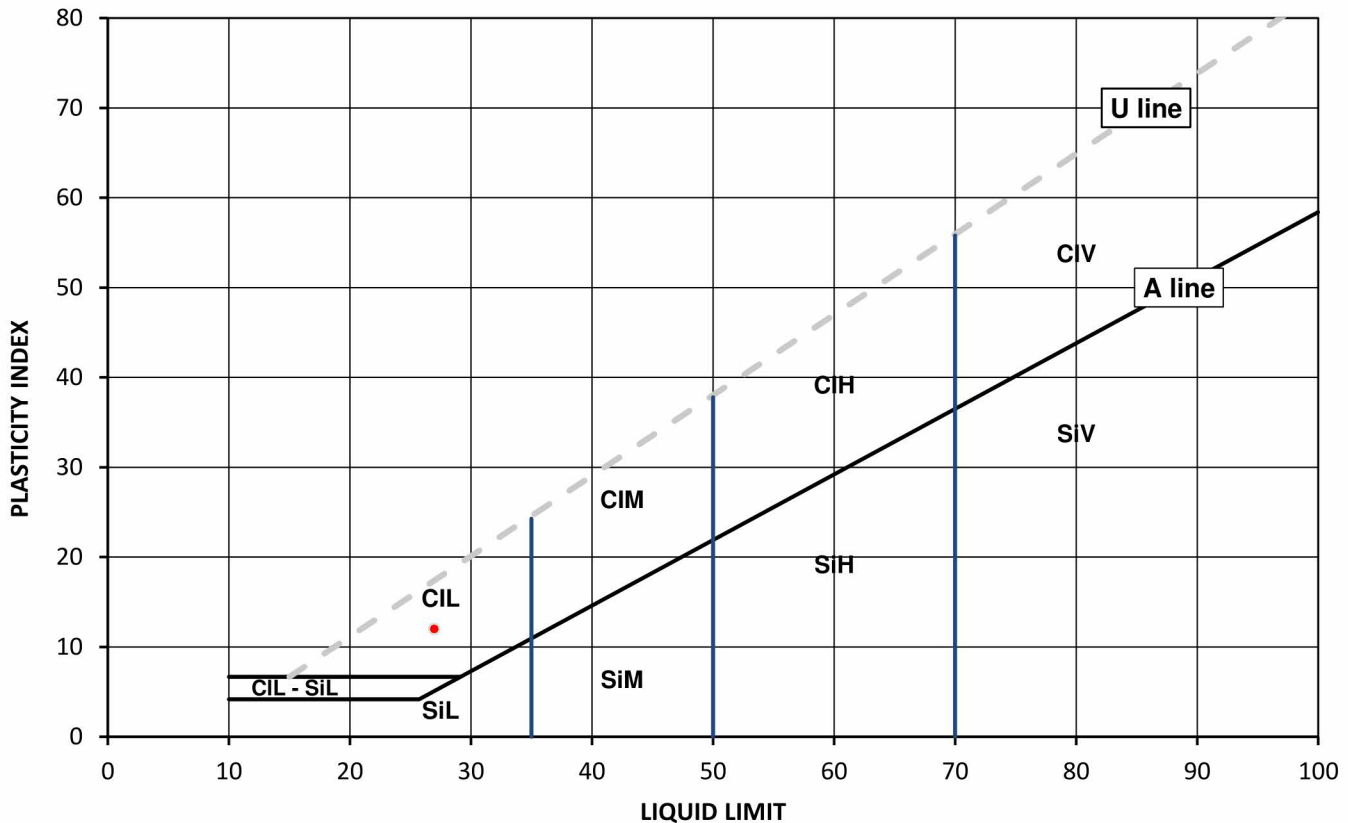
### Test Results:

Laboratory Reference: 1906675  
Hole No.: HYDCP18  
Sample Reference: Not Given  
Soil Description: Brown slightly gravelly very sandy CLAY

Depth Top [m]: 1.80  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
17	27	15	12	85



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Page 1 of 1

Date Reported: 10/08/2021

GF 236.10



# TEST CERTIFICATE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

## Liquid and Plastic Limits

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 02/06/2021  
Date Received: 09/06/2021  
Date Tested: 28/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

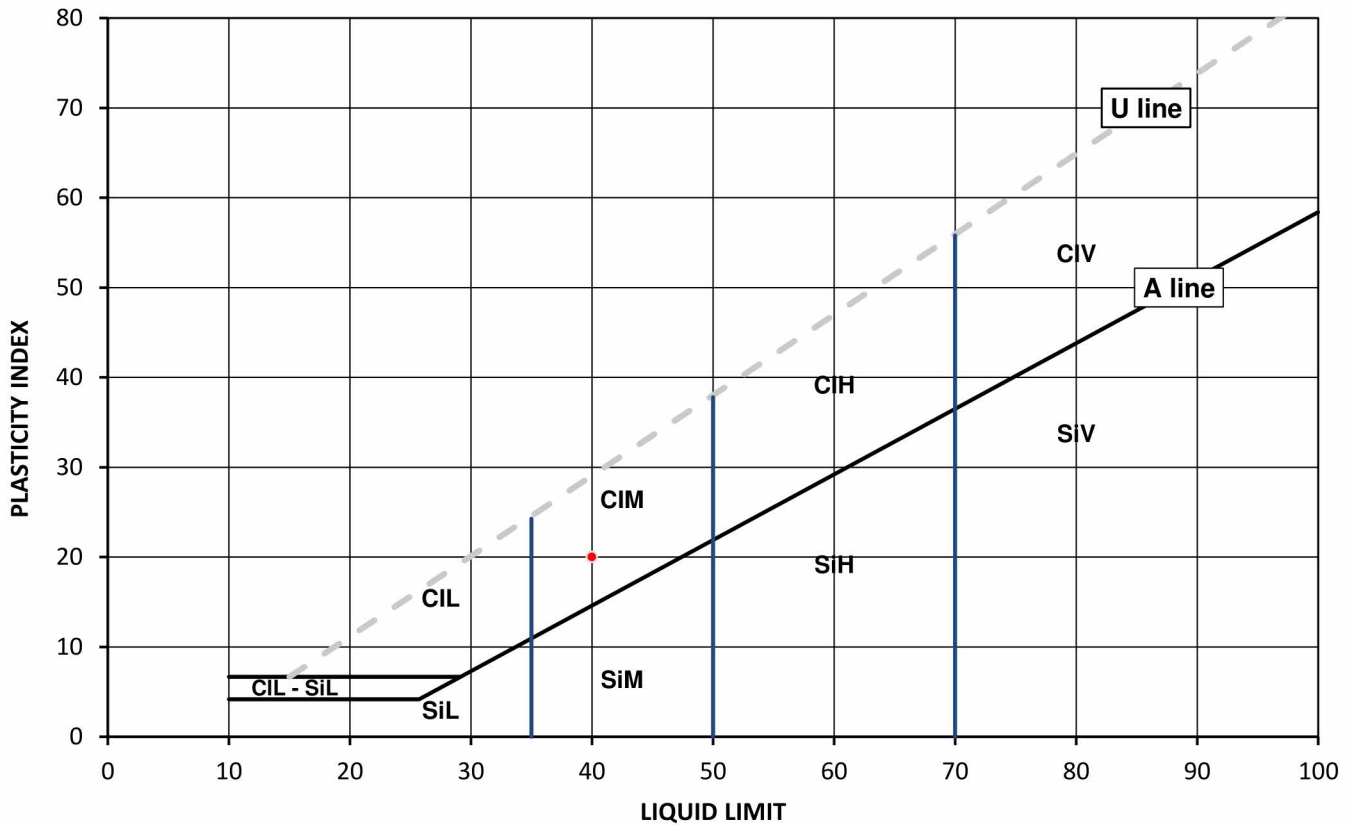
### Test Results:

Laboratory Reference: 1906678  
Hole No.: HYDCP19  
Sample Reference: Not Given  
Soil Description: Grey gravelly slightly gravelly sandy CLAY with shells

Depth Top [m]: 7.00  
Depth Base [m]: 7.45  
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
8.0	40	20	20	80



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	Liquid Limit
Si	Silt	L	Low
		M	Medium
		H	High
		V	Very high
		O	Organic
			append to classification for organic material ( eg CIHO )
			below 35
			35 to 50
			50 to 70
			exceeding 70

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

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# TEST CERTIFICATE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



## Liquid and Plastic Limits

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 01/06/2021  
Date Received: 09/06/2021  
Date Tested: 28/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

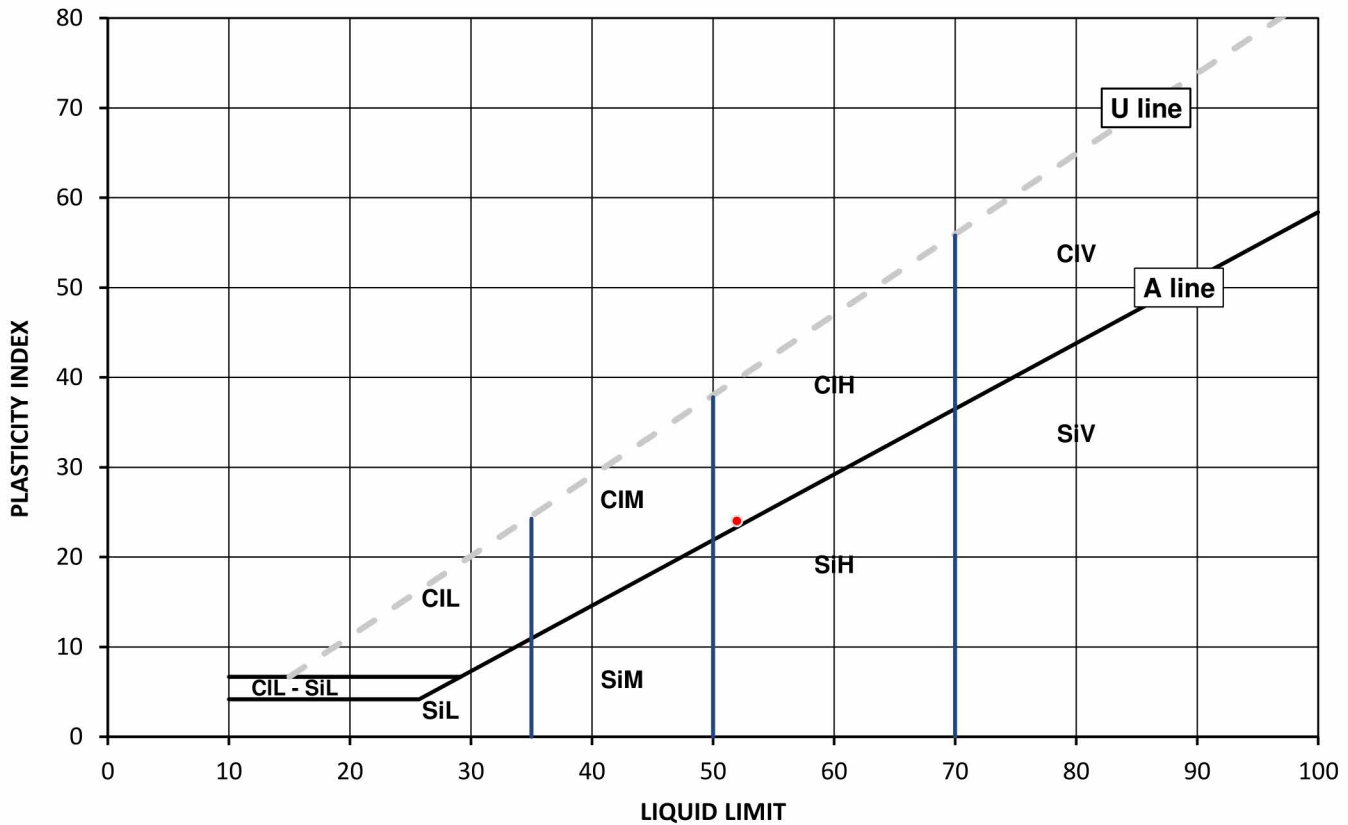
### Test Results:

Laboratory Reference: 1906680  
Hole No.: HYDCP21  
Sample Reference: Not Given  
Soil Description: Dark grey slightly gravelly slightly sandy CLAY with fragments of shale

Depth Top [m]: 5.50  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
8.2	52	28	24	65



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:



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# TEST CERTIFICATE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



## Liquid and Plastic Limits

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 02/06/2021  
Date Received: 09/06/2021  
Date Tested: 28/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

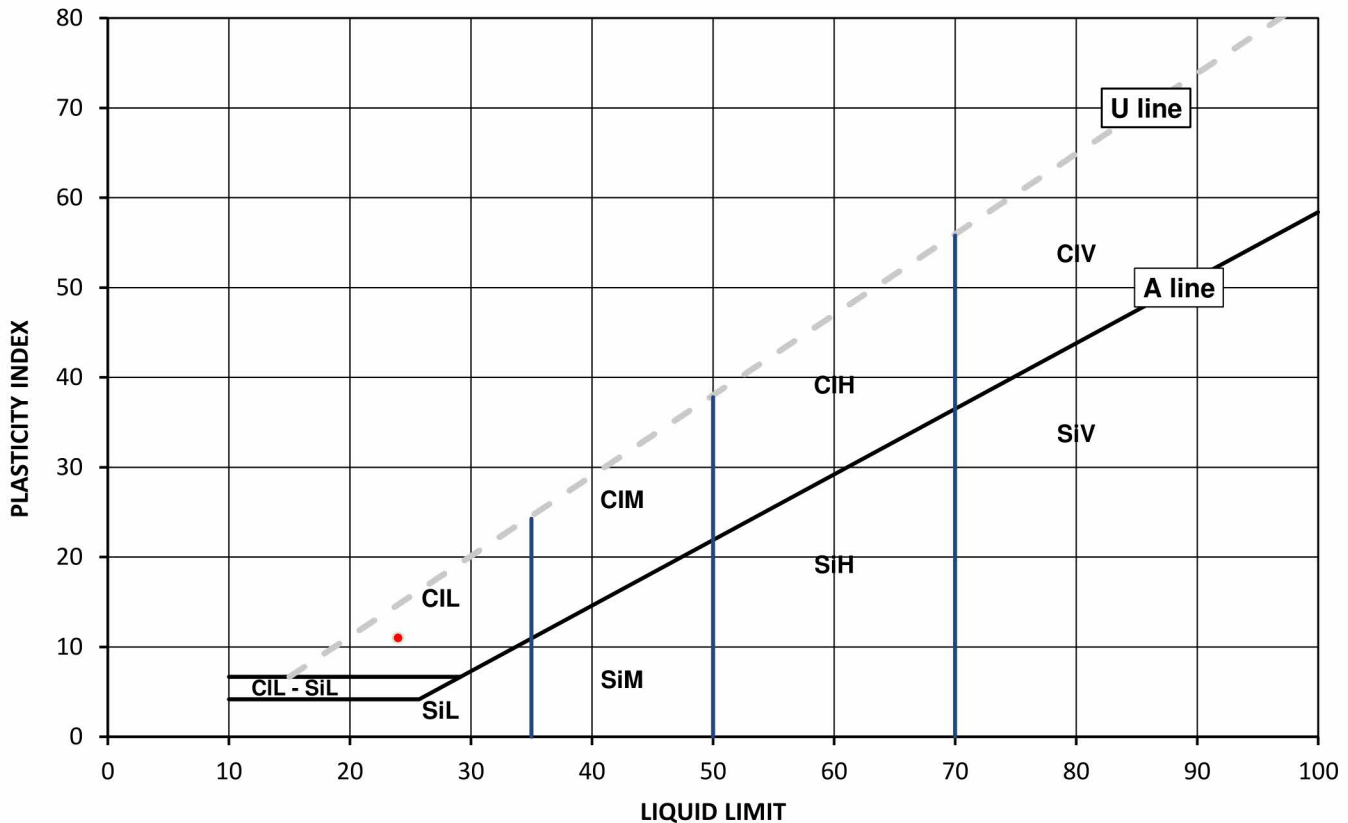
### Test Results:

Laboratory Reference: 1906681  
Hole No.: HYDCP22  
Sample Reference: Not Given  
Soil Description: Brown slightly gravelly clayey SAND

Depth Top [m]: 3.00  
Depth Base [m]: 3.45  
Sample Type: D

Sample Preparation: Tested after >425um removed by hand

As Received Moisture Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
13	24	13	11	84



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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# TEST CERTIFICATE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

## Liquid and Plastic Limits

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 27/05/2021  
Date Received: 09/06/2021  
Date Tested: 28/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

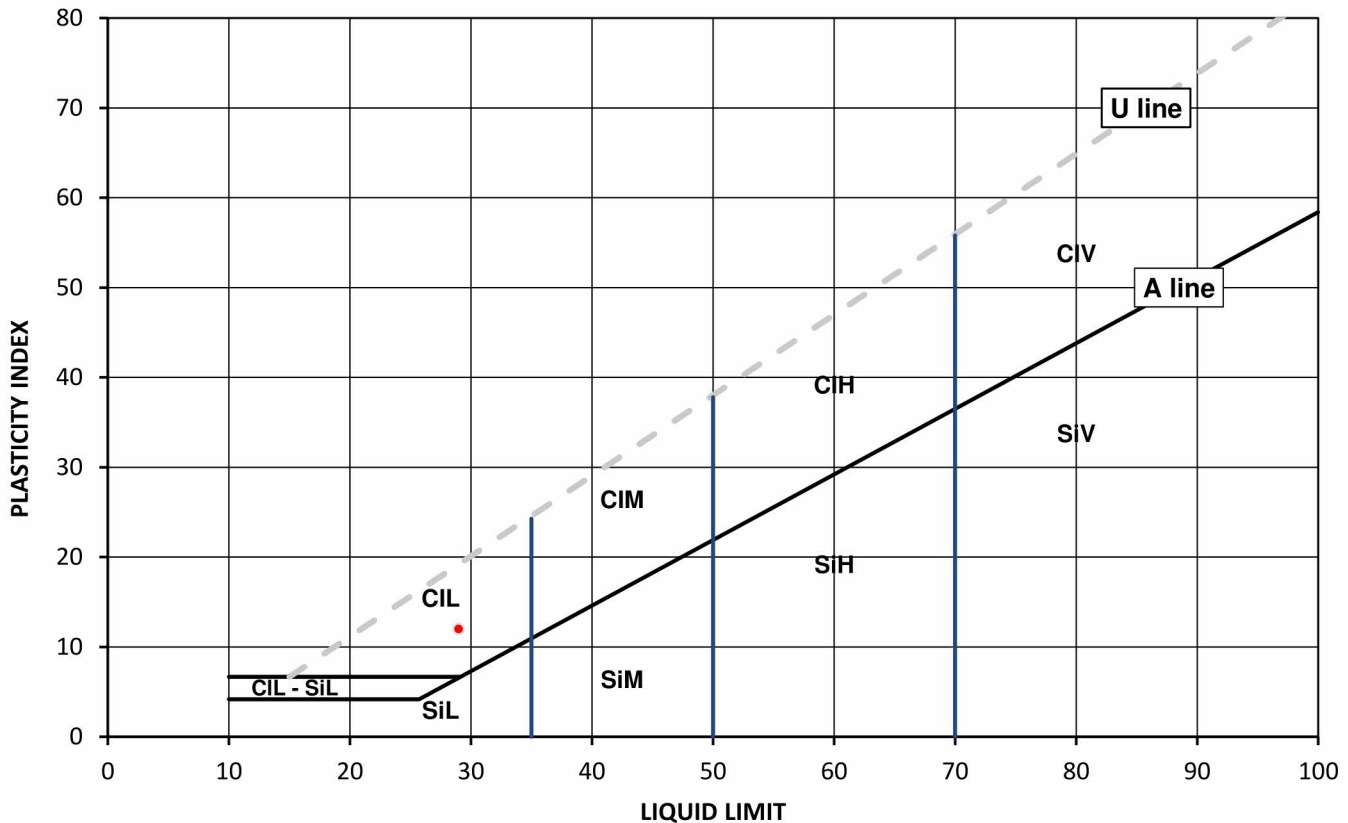
### Test Results:

Laboratory Reference: 1906687  
Hole No.: HYDCP24  
Sample Reference: Not Given  
Soil Description: Brown slightly gravelly very sandy CLAY

Depth Top [m]: 1.20  
Depth Base [m]: 1.65  
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
14	29	17	12	82



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



## Liquid and Plastic Limits

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 27/05/2021  
Date Received: 09/06/2021  
Date Tested: 29/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

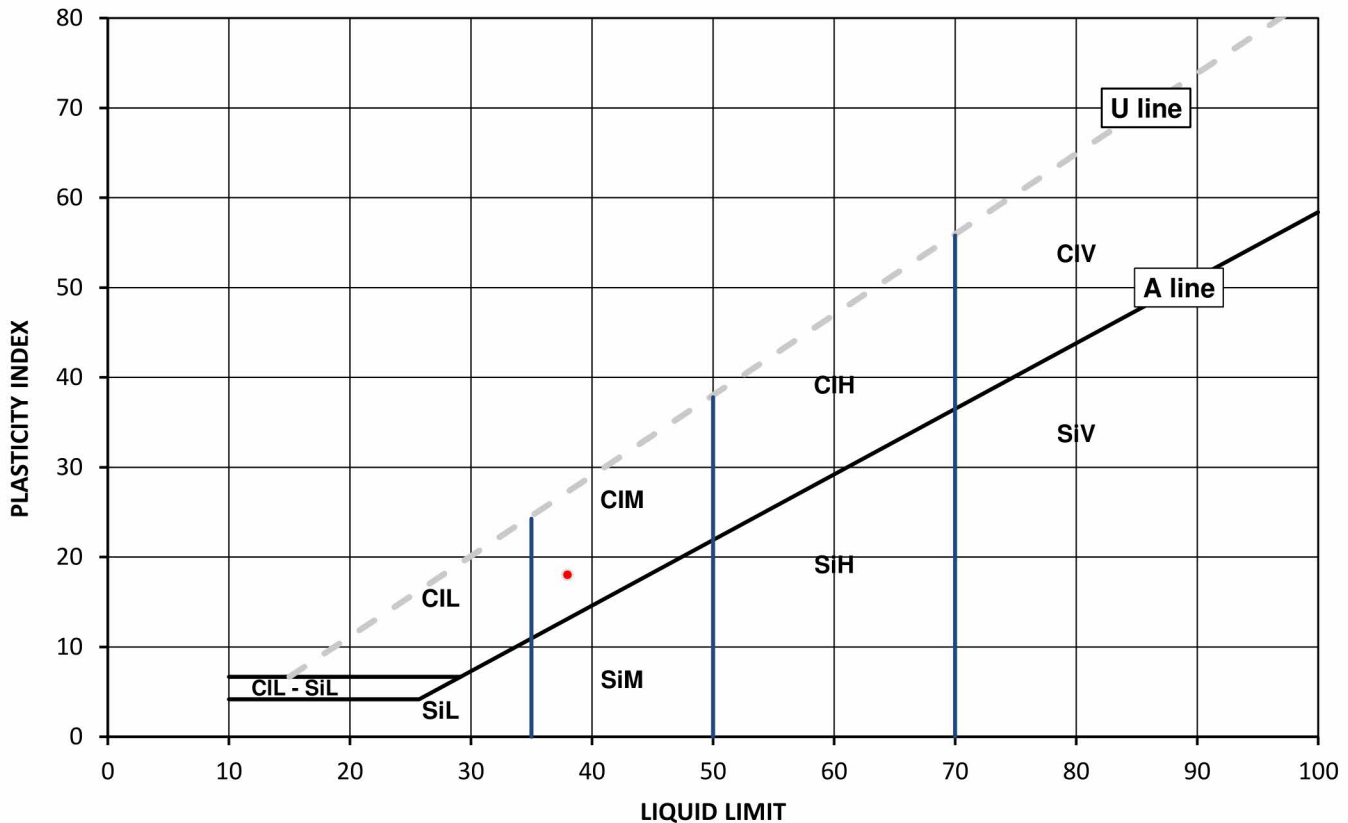
### Test Results:

Laboratory Reference: 1906692  
Hole No.: HYDCP28  
Sample Reference: Not Given  
Soil Description: Mottled brown slightly gravelly sandy CLAY

Depth Top [m]: 0.50  
Depth Base [m]: 1.20  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
22	38	20	18	92



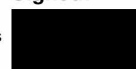
Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	Liquid Limit
Si	Silt	L Low	below 35
		M Medium	35 to 50
		H High	50 to 70
		V Very high	exceeding 70
		O Organic	append to classification for organic material ( eg CIHO )

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:



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Northampton NN4 7EB



Environmental Science

## Liquid and Plastic Limits

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: Not Given  
Date Received: 09/06/2021  
Date Tested: 29/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

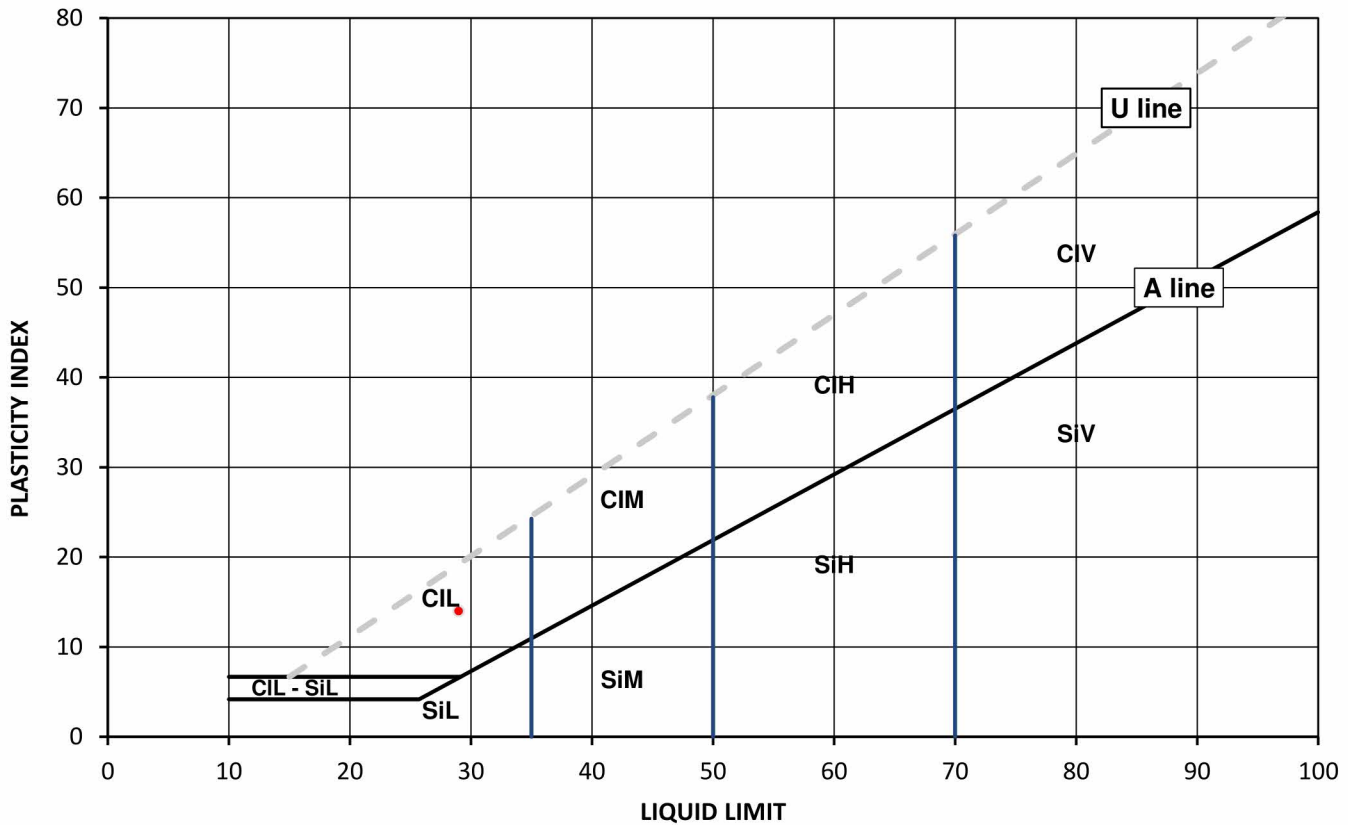
### Test Results:

Laboratory Reference: 1912008  
Hole No.: HYDCP20  
Sample Reference: Not Given  
Soil Description: Greyish brown slightly gravelly very sandy CLAY

Depth Top [m]: 1.00  
Depth Base [m]: 1.20  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
22	29	15	14	88



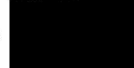
Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:



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4041

Client: Hydrock Consultants Ltd  
 Client Address: 4 Lakeside, Festival Park,  
 Stoke on Trent, ST1 5RY

Contact: Jason Bradley  
 Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

# SUMMARY REPORT

## Summary of Classification Test Results

Tested in Accordance with:

Moisture Content by BS 1377-2: 1990: Clause 3.2; Water Content by BS EN 17892-1: 2014; Atterberg by BS 1377-2: 1990: Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2: 1990: Clause 8.2

i2 Analytical Ltd  
 Unit 8 Harrowden Road  
 Brackmills Industrial Estate  
 Northampton NN4 7EB



Environmental Science

Client Reference: C-15592-C  
 Job Number: 21-81767  
 Date Sampled: 24/05 - 10/06/2021  
 Date Received: 09/06/2021  
 Date Tested: 28/06 - 29/06/2021  
 Sampled By: Client

### Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Moisture Content [ W ]	Water Content [ W ]	Atterberg				Density			Total Porosity#		
		Reference	Depth Top m	Depth Base m	Type					% Passing 425um	WL	Wp	Ip	bulk Mg/m3	dry Mg/m3	PD Mg/m3			
1906642	HYDCP01	Not Given	0.40	1.00	D	Brown slightly gravelly very sandy CLAY	Atterberg 4 Point	23		87	30	20	10						
1906644	HYDCP02	Not Given	0.10	0.60	B	Dark brown slightly gravelly organic CLAY	Atterberg 4 Point	62		90	94	60	34						
1906645	HYDCP02	Not Given	0.60	Not Given	D	Brown slightly gravelly slightly sandy CLAY		23											
1906648	HYDCP03	Not Given	1.20	1.65	D	Brownish grey slightly gravelly very sandy CLAY	Atterberg 4 Point	14		88	28	14	14						
1906651	HYDCP04	Not Given	0.50	1.00	B	Greyish brown slightly gravelly very sandy CLAY	Atterberg 4 Point	26		88	31	17	14						
1906654	HYDCP05	Not Given	3.00	3.45	D	Brown gravelly very sandy CLAY	Atterberg 4 Point	9.4		56	32	15	17						
1906656	HYDCP06	Not Given	0.50	1.20	B	Mottled brown slightly gravelly sandy CLAY	Atterberg 4 Point	19		88	42	23	19						
1906658	HYDCP08	Not Given	0.60	1.20	B	Brown mottled grey sandy CLAY		24											
1906659	HYDCP08	Not Given	3.00	3.45	D	Dark brown CLAY		13											
1906660	HYDCP09	Not Given	2.00	2.45	D	Brown very gravelly slightly sandy CLAY		7.4											

Note: # Non accredited; NP - Non plastic

Comments:

Signed:



Szczepan Bielatowicz  
 PL Deputy Head of Geotechnical Section  
 for and on behalf of i2 Analytical Ltd

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4041

Client: Hydrock Consultants Ltd  
 Client Address: 4 Lakeside, Festival Park,  
 Stoke on Trent, ST1 5RY

Contact: Jason Bradley  
 Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

# SUMMARY REPORT

## Summary of Classification Test Results

Tested in Accordance with:

Moisture Content by BS 1377-2: 1990: Clause 3.2; Water Content by BS EN 17892-1: 2014; Atterberg by BS 1377-2: 1990: Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2: 1990: Clause 8.2

i2 Analytical Ltd  
 Unit 8 Harrowden Road  
 Brackmills Industrial Estate  
 Northampton NN4 7EB



Environmental Science

Client Reference: C-15592-C  
 Job Number: 21-81767  
 Date Sampled: 02/06 - 10/06/2021  
 Date Received: 09/06/2021  
 Date Tested: 28/06/2021  
 Sampled By: Client

### Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Moisture Content [ W ] %	Water Content [ W ] %	Atterberg				Density			Total Porosity# %		
		Reference	Depth Top m	Depth Base m	Type					% Passing 425um	WL %	Wp %	Ip %	bulk Mg/m3	dry Mg/m3	PD Mg/m3			
1906662	HYDCP11	Not Given	1.20	1.65	D	Dark brown slightly gravelly CLAY		23											
1906663	HYDCP11	Not Given	3.00	3.45	D	Dark brown slightly gravelly CLAY		11											
1906664	HYDCP12	Not Given	0.50	1.20	B	Mottled brown sandy CLAY		21											
1906665	HYDCP12	Not Given	2.60	Not Given	D	Dark brown slightly gravelly CLAY		15											
1906667	HYDCP12	Not Given	6.60	Not Given	D	Dark brown slightly gravelly CLAY		11											
1906668	HYDCP13	Not Given	0.50	1.00	B	Mottled brown gravelly sandy CLAY		24											
1906670	HYDCP14	Not Given	1.20	1.65	D	Dark brown slightly gravelly very sandy CLAY	Atterberg 4 Point	11		79	28	16	12						
1906672	HYDCP16	Not Given	2.00	2.45	D	Dark brown slightly gravelly CLAY		13											
1906673	HYDCP17	Not Given	2.50	Not Given	D	Dark brown slightly gravelly slightly sandy CLAY		15											
1906674	HYDCP17	Not Given	6.00	6.45	D	Black gravelly sandy CLAY with shells	Atterberg 4 Point	6.7		38	44	24	20						

Note: # Non accredited; NP - Non plastic

Comments:

Signed:



Szczepan Bielatowicz  
 PL Deputy Head of Geotechnical Section  
 for and on behalf of i2 Analytical Ltd

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4041

Client: Hydrock Consultants Ltd  
 Client Address: 4 Lakeside, Festival Park,  
 Stoke on Trent, ST1 5RY

Contact: Jason Bradley  
 Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

# SUMMARY REPORT

## Summary of Classification Test Results

Tested in Accordance with:

Moisture Content by BS 1377-2: 1990: Clause 3.2; Water Content by BS EN 17892-1: 2014; Atterberg by BS 1377-2: 1990: Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2: 1990: Clause 8.2

i2 Analytical Ltd  
 Unit 8 Harrowden Road  
 Brackmills Industrial Estate  
 Northampton NN4 7EB



Environmental Science

Client Reference: C-15592-C  
 Job Number: 21-81767  
 Date Sampled: 27/05 - 09/06/2021  
 Date Received: 09/06/2021  
 Date Tested: 28/06 - 29/06/2021  
 Sampled By: Client

### Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Moisture Content [ W ] %	Water Content [ W ] %	Atterberg				Density			Total Porosity# %	
		Reference	Depth Top m	Depth Base m	Type					% Passing 425um	WL %	Wp %	Ip %	bulk Mg/m3	dry Mg/m3	PD Mg/m3		
1906675	HYDCP18	Not Given	1.80	Not Given	D	Brown slightly gravelly very sandy CLAY	Atterberg 4 Point	17		85	27	15	12					
1906677	HYDCP19	Not Given	0.50	1.00	B	Mottled brown sandy CLAY		19										
1906678	HYDCP19	Not Given	7.00	7.45	D	Grey gravelly slightly gravelly sandy CLAY with shells	Atterberg 4 Point	8.0		80	40	20	20					
1912008	HYDCP20	Not Given	1.00	1.20	B	Greyish brown slightly gravelly very sandy CLAY	Atterberg 4 Point	22		88	29	15	14					
1906680	HYDCP21	Not Given	5.50	Not Given	D	Dark grey slightly gravelly slightly sandy CLAY with fragments of shale	Atterberg 4 Point	8.2		65	52	28	24					
1906681	HYDCP22	Not Given	3.00	3.45	D	Brown slightly gravelly clayey SAND	Atterberg 4 Point	13		84	24	13	11					
1906683	HYDCP23	Not Given	0.50	1.00	B	Mottled brown gravelly sandy CLAY		22										
1906686	HYDCP24	Not Given	0.60	Not Given	D	Greyish brown slightly gravelly slightly sandy CLAY		18										
1906687	HYDCP24	Not Given	1.20	1.65	D	Brown slightly gravelly very sandy CLAY	Atterberg 4 Point	14		82	29	17	12					
1906689	HYDCP25	Not Given	3.50	Not Given	D	Greenish grey gravelly slightly sandy CLAY		12										

Note: # Non accredited; NP - Non plastic

Comments:

Signed:



Szczepan Bielatowicz  
 PL Deputy Head of Geotechnical Section  
 for and on behalf of i2 Analytical Ltd

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4041

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

# SUMMARY REPORT

## Summary of Classification Test Results

Tested in Accordance with:

Moisture Content by BS 1377-2: 1990: Clause 3.2; Water Content by BS EN 17892-1: 2014; Atterberg by BS 1377-2: 1990: Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2: 1990: Clause 8.2

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 27/05 - 28/05/2021  
Date Received: 09/06/2021  
Date Tested: 29/06/2021  
Sampled By: Client

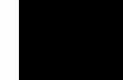
### Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Moisture Content [ W ]	Water Content [ W ]	Atterberg				Density			Total Porosity#			
		Reference	Depth Top	Depth Base	Type					% Passing 425um	WL	Wp	Ip	bulk	dry	PD				
		m		m				%	%	%	%	%	%	Mg/m3	Mg/m3	Mg/m3	%			
1906691	HYDCP27	Not Given	2.20	2.65	D	Brown slightly gravelly slightly sandy CLAY		14												
1906692	HYDCP28	Not Given	0.50	1.20	B	Mottled brown slightly gravelly sandy CLAY	Atterberg 4 Point	22		92	38	20	18							
1906693	HYDCP28	Not Given	1.20	1.65	D	Brown slightly gravelly slightly sandy CLAY		15												

Note: # Non accredited; NP - Non plastic

Comments:

Signed:



Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



## Determination of California Bearing Ratio

4041

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 25/05/2021  
Date Received: 09/06/2021  
Date Tested: 05/07/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

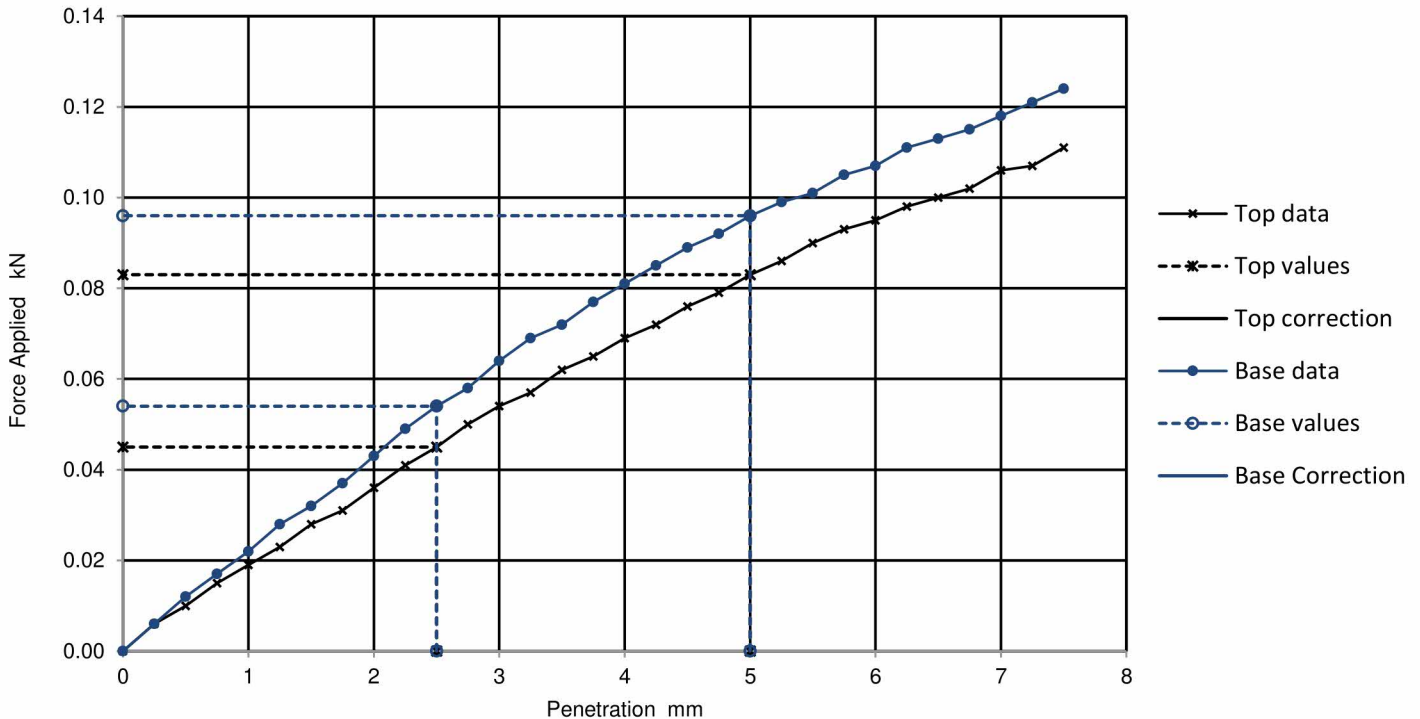
Laboratory Reference: 1906644  
Hole No.: HYDCP02  
Sample Reference: Not Given  
Sample Description: Dark brown slightly gravelly organic CLAY

Depth Top [m]: 0.10  
Depth Base [m]: 0.60  
Sample Type: B

### Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	0 %	Dry density after soaking	Mg/m <sup>3</sup>
Initial Specimen details	Bulk density 1.55 Mg/m <sup>3</sup>	Surcharge applied	8 kg
	Dry density 0.98 Mg/m <sup>3</sup>		4.9 kPa
	Moisture content 58 %		

Force v Penetration Plots



### Results

TOP  
BASE

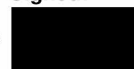
Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
No	0.3	0.4	0.4	0.5
No	0.4	0.5	0.5	

Moisture Content %
59
58

### Remarks:

Test/ Specimen specific remarks:

Signed:



Szczepan Białowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



## Determination of California Bearing Ratio

4041

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 04/06/2021  
Date Received: 09/06/2021  
Date Tested: 05/07/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton  
*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

### Test Results:

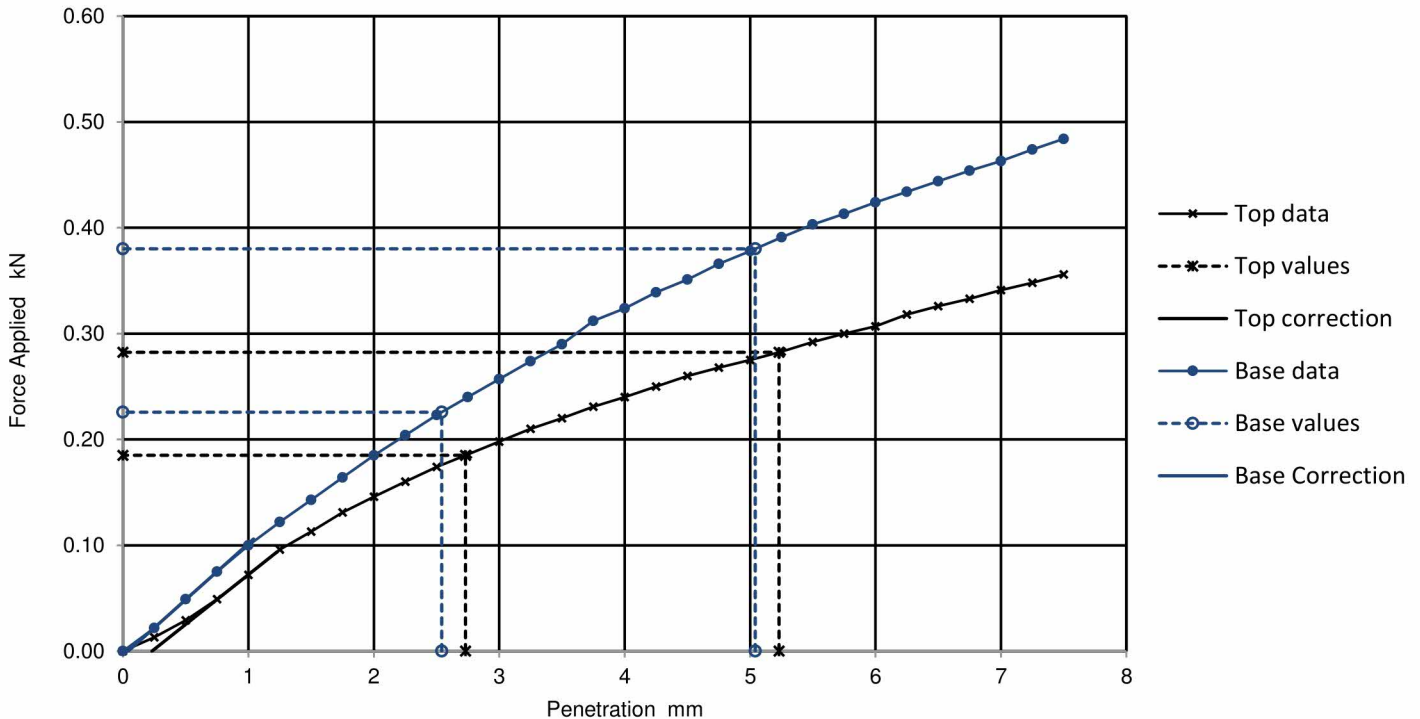
Laboratory Reference: 1906656  
Hole No.: HYDCP06  
Sample Reference: Not Given  
Sample Description: Mottled brown slightly gravelly sandy CLAY

Depth Top [m]: 0.50  
Depth Base [m]: 1.20  
Sample Type: B

### Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	1 %	Dry density after soaking	Mg/m <sup>3</sup>
Initial Specimen details	Bulk density 1.94 Mg/m <sup>3</sup>	Surcharge applied	8 kg
	Dry density 1.56 Mg/m <sup>3</sup>		4.9 kPa
	Moisture content 24 %		

Force v Penetration Plots



### Results

TOP  
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
Yes	1.4	1.4	1.4	1.7
Yes	1.7	1.9	1.9	

Moisture Content %
23
25

Remarks:

Test/ Specimen specific remarks:

Signed:



Szczepan Białatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



## Determination of California Bearing Ratio

4041

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 03/06/2021  
Date Received: 09/06/2021  
Date Tested: 06/07/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton  
*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

### Test Results:

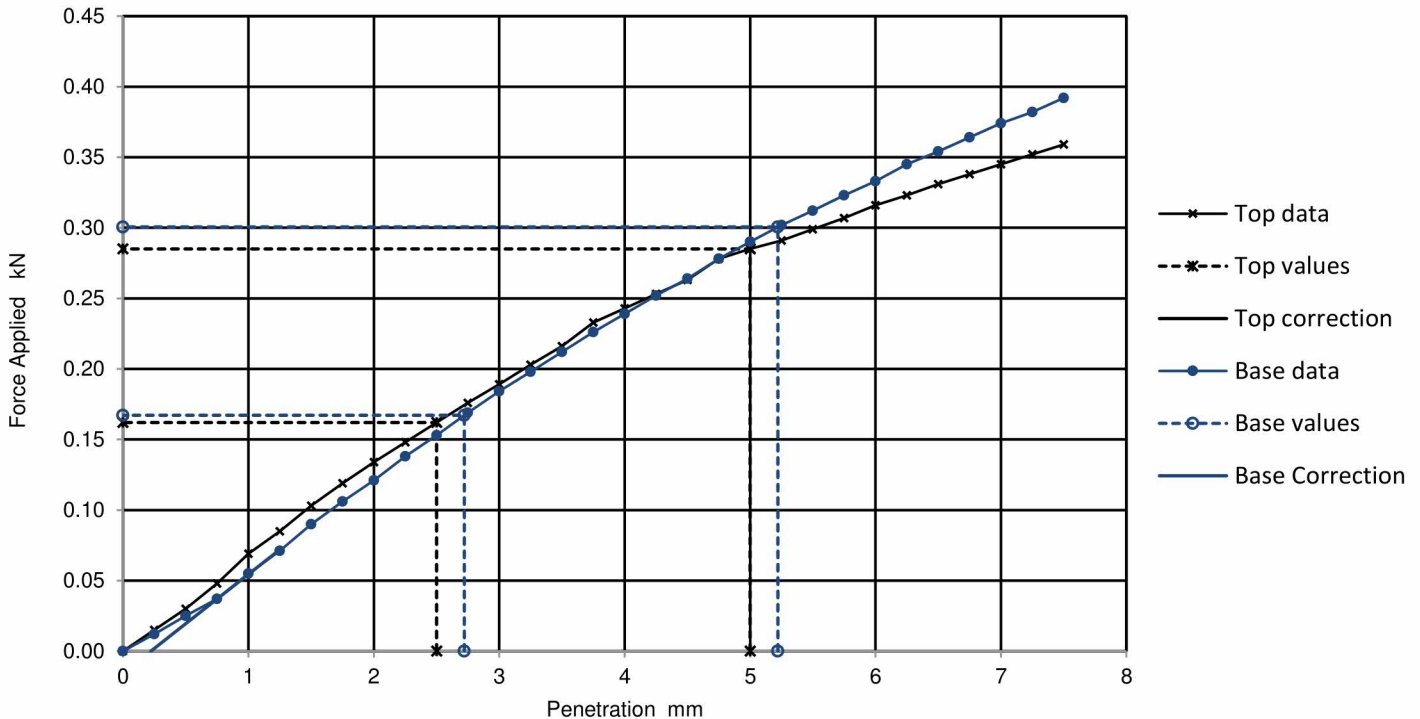
Laboratory Reference: 1906671  
Hole No.: HYDCP15  
Sample Reference: Not Given  
Sample Description: Greyish brown slightly gravelly CLAY

Depth Top [m]: 0.50  
Depth Base [m]: 1.00  
Sample Type: B

### Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	22 %	Dry density after soaking	Mg/m <sup>3</sup>
Initial Specimen details	Bulk density 2.15 Mg/m <sup>3</sup>	Surcharge applied	8 kg
	Dry density 1.85 Mg/m <sup>3</sup>		4.9 kPa
	Moisture content 16 %		

Force v Penetration Plots



### Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	No	1.2	1.4	1.4	1.5	17
BASE	Yes	1.3	1.5	1.5		17

### Remarks:

Test/ Specimen specific remarks:

Signed:



Szczepan Białotowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



## Determination of California Bearing Ratio

4041

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 26/05/2021  
Date Received: 09/06/2021  
Date Tested: 05/07/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton  
*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

### Test Results:

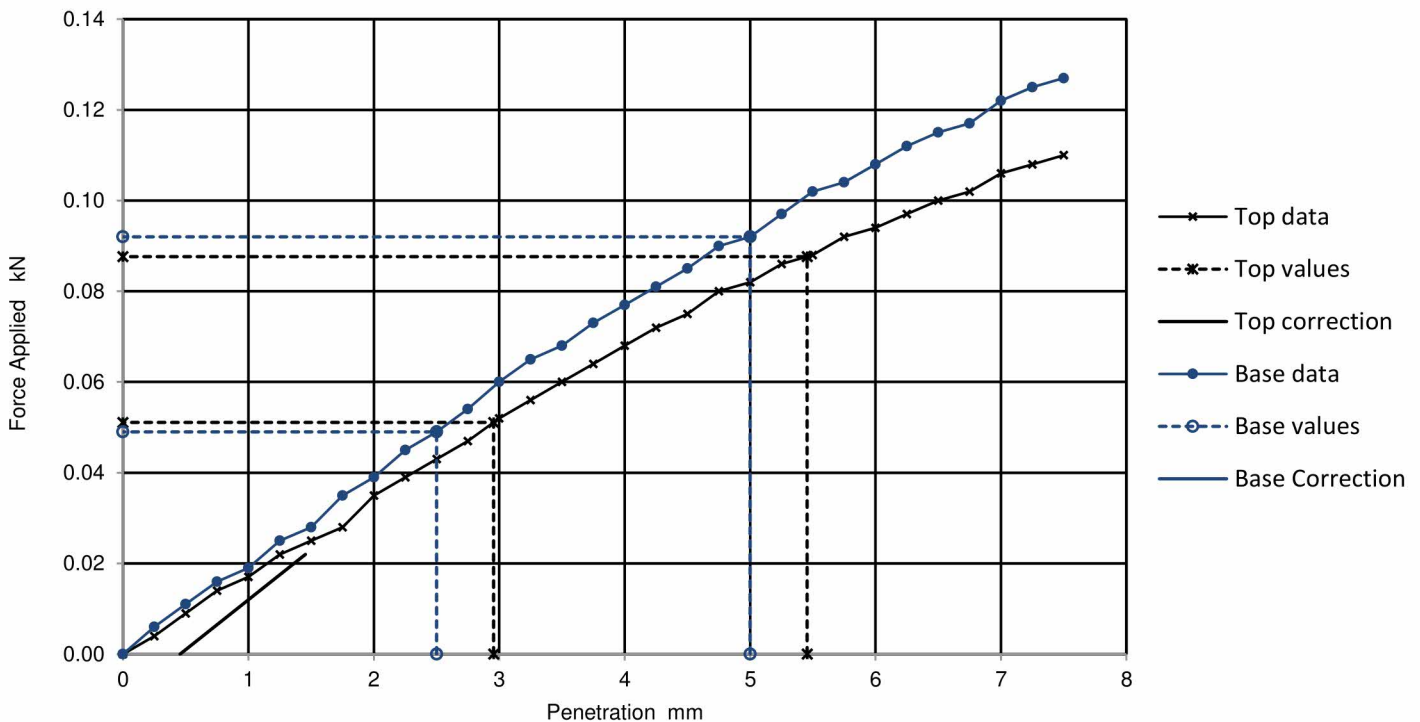
Laboratory Reference: 1906695  
Hole No.: HYDCP31  
Sample Reference: Not Given  
Sample Description: Brownish grey CLAY

Depth Top [m]: 0.90  
Depth Base [m]: 1.20  
Sample Type: B

### Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	0 %	Dry density after soaking	Mg/m <sup>3</sup>
Initial Specimen details	Bulk density 2.03 Mg/m <sup>3</sup>	Surcharge applied	8 kg
	Dry density 1.66 Mg/m <sup>3</sup>		4.9 kPa
	Moisture content 23 %		

Force v Penetration Plots



### Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	Yes	0.4	0.4	0.4	0.5	23
BASE	No	0.4	0.5	0.5		22

### Remarks:

Test/ Specimen specific remarks:

Signed:



Szczepan Biatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



## Determination of California Bearing Ratio

4041

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: Not Given  
Date Received: 09/06/2021  
Date Tested: 06/07/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

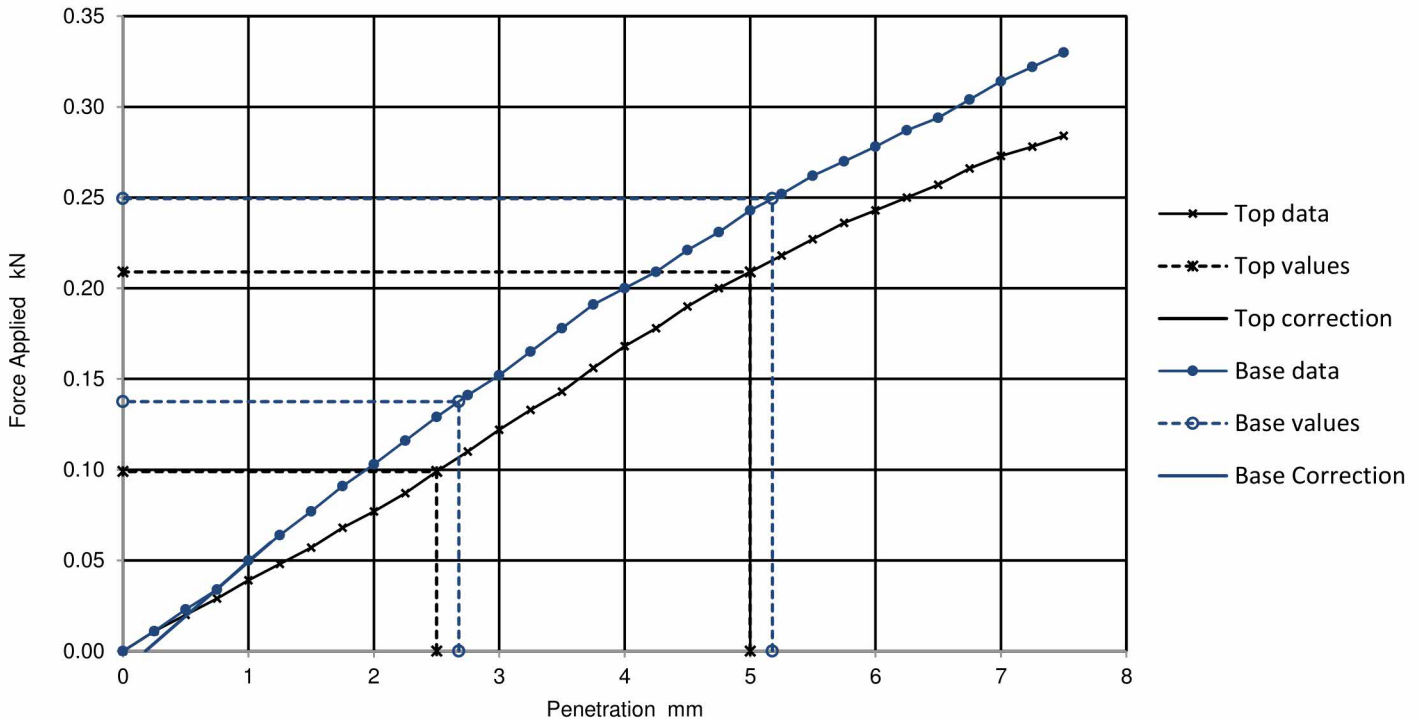
Laboratory Reference: 1912009  
Hole No.: HYDCP30  
Sample Reference: Not Given  
Sample Description: Brownish grey slightly gravelly slightly sandy CLAY

Depth Top [m]: 0.50  
Depth Base [m]: 1.00  
Sample Type: B

### Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	2 %	Dry density after soaking	Mg/m <sup>3</sup>
Initial Specimen details	Bulk density 2.06 Mg/m <sup>3</sup>	Surcharge applied	8 kg
	Dry density 1.74 Mg/m <sup>3</sup>		4.9 kPa
	Moisture content 19 %		

Force v Penetration Plots



### Results

TOP  
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
No	0.8	1.0	1.0	1.1
Yes	1.0	1.2	1.2	

Moisture Content %
19
19

### Remarks:

Test/ Specimen specific remarks:

### Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Unconsolidated Undrained

### Triaxial Compression

Tested in Accordance with:  
BS 1377-7: 1990: Clause 8

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 24/05/2021  
Date Received: 09/06/2021  
Date Tested: 29/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

#### Test Results:

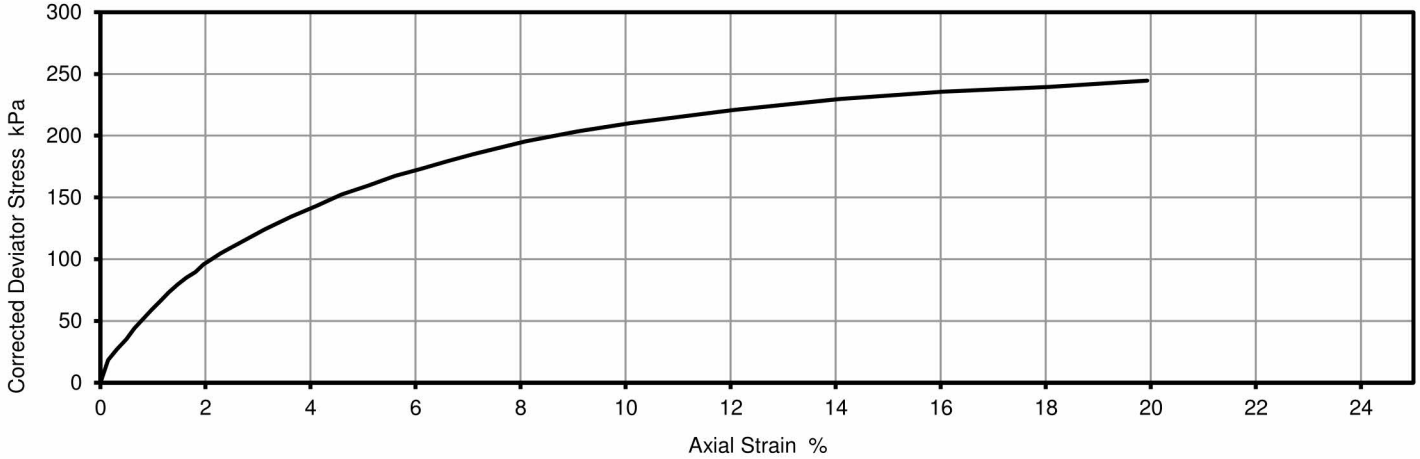
Laboratory Reference: 1906643  
Hole No.: HYDCP01  
Sample Reference: Not Given  
Sample Description: Greyish brown slightly sandy gravelly CLAY

Depth Top [m]: 4.00  
Depth Base [m]: 4.45  
Sample Type: U

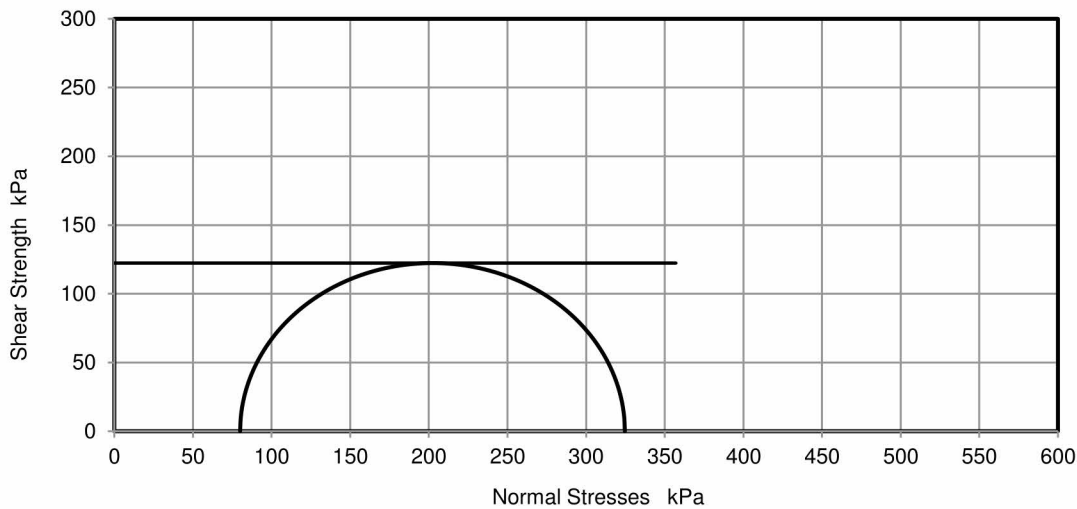
Test Number	1
Length	138.17 mm
Diameter	69.18 mm
Bulk Density	2.26 Mg/m <sup>3</sup>
Moisture Content	13 %
Dry Density	2.00 Mg/m <sup>3</sup>
Membrane Correction	1.39 kPa

Rate of Strain	2.00 %/min
Cell Pressure	80 kPa
Axial Strain at failure	19.9 %
Deviator Stress, (σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>	245 kPa
Undrained Shear Strength, c <sub>u</sub>	122 kPa ½(σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>
Mode of Failure	Compound
Membrane thickness	0.25 mm

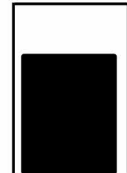
#### Deviator Stress v Axial Strain



#### Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

#### Remarks:

#### Signed:



Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Unconsolidated Undrained

### Triaxial Compression

Tested in Accordance with:  
BS 1377-7: 1990: Clause 8

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 25/05/2021  
Date Received: 09/06/2021  
Date Tested: 29/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

#### Test Results:

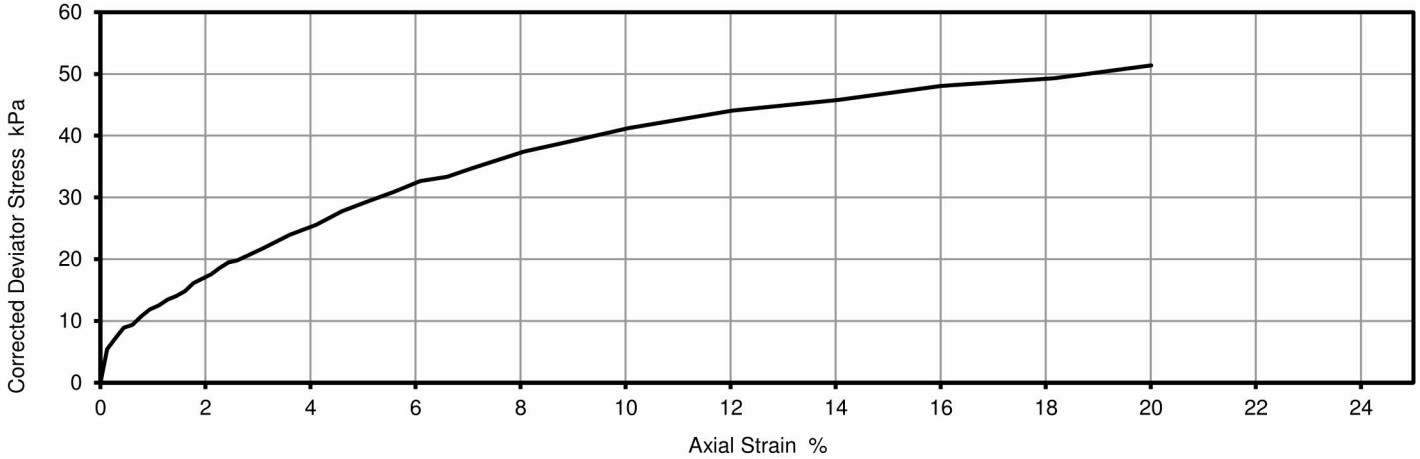
Laboratory Reference: 1906646  
Hole No.: HYDCP02  
Sample Reference: Not Given  
Sample Description: Greyish brown sandy gravelly CLAY

Depth Top [m]: 2.00  
Depth Base [m]: 2.45  
Sample Type: U

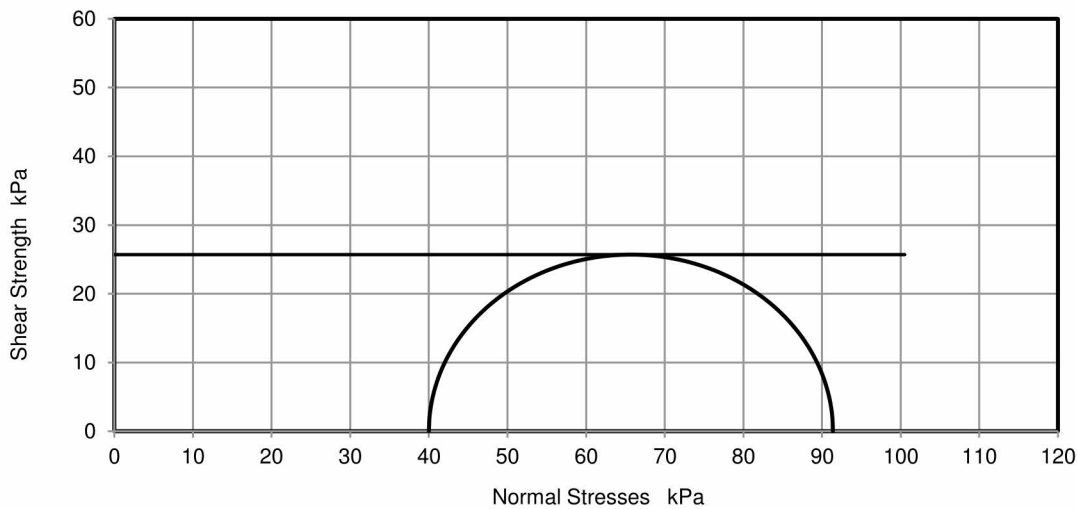
Test Number	1
Length	200.71 mm
Diameter	102.37 mm
Bulk Density	2.16 Mg/m <sup>3</sup>
Moisture Content	15 %
Dry Density	1.88 Mg/m <sup>3</sup>
Membrane Correction	1.09 kPa

Rate of Strain	1.99 %/min
Cell Pressure	40 kPa
Axial Strain at failure	20.0 %
Deviator Stress, (σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>	51 kPa
Undrained Shear Strength, c <sub>u</sub>	26 kPa ½(σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>
Mode of Failure	Plastic
Membrane thickness	0.29 mm

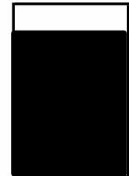
#### Deviator Stress v Axial Strain



#### Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

#### Remarks:

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#### Signed:



Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd





**TEST CERTIFICATE**  
**Unconsolidated Undrained**  
**Triaxial Compression**

Tested in Accordance with:  
 BS 1377-7: 1990: Clause 8

i2 Analytical Ltd  
 Unit 8 Harrowden Road  
 Brackmills Industrial Estate  
 Northampton NN4 7EB



Client: Hydrock Consultants Ltd  
 Client Address: 4 Lakeside, Festival Park,  
 Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
 Job Number: 21-81767  
 Date Sampled: 25/05/2021  
 Date Received: 09/06/2021  
 Date Tested: 29/06/2021  
 Sampled By: Client

Contact: Jason Bradley  
 Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**

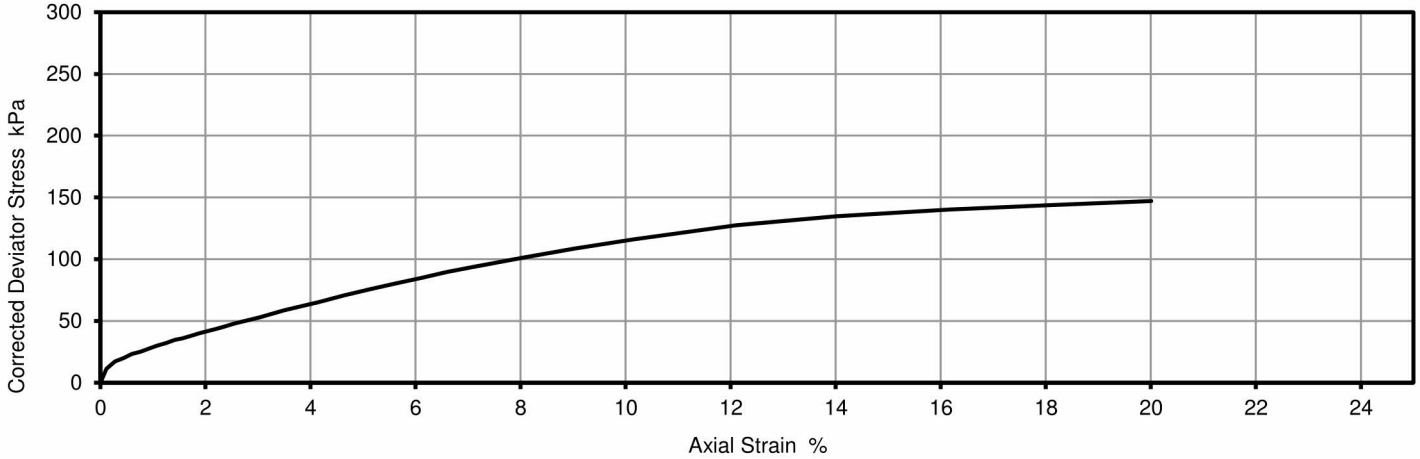
Laboratory Reference: 1906647  
 Hole No.: HYDCP02  
 Sample Reference: Not Given  
 Sample Description: Brownish grey sandy gravelly CLAY

Depth Top [m]: 6.50  
 Depth Base [m]: 6.95  
 Sample Type: U

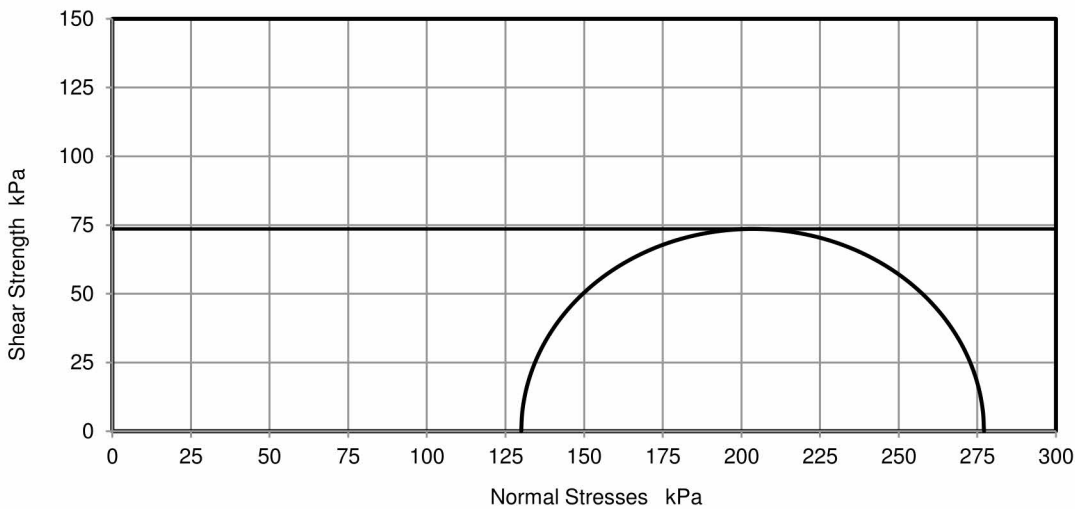
Test Number	1
Length	204.67 mm
Diameter	101.28 mm
Bulk Density	2.31 Mg/m <sup>3</sup>
Moisture Content	12 %
Dry Density	2.05 Mg/m <sup>3</sup>
Membrane Correction	1.03 kPa

Rate of Strain	1.95 %/min
Cell Pressure	130 kPa
Axial Strain at failure	20.0 %
Deviator Stress, (σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>	147 kPa
Undrained Shear Strength, c <sub>u</sub>	74 kPa ½(σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>
Mode of Failure	Compound
Membrane thickness	0.27 mm

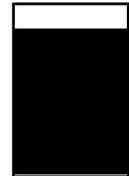
**Deviator Stress v Axial Strain**



**Mohr Circles**



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

**Remarks:**

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Signed:



Szczepan Białatowicz  
 PL Deputy Head of Geotechnical Section  
 for and on behalf of i2 Analytical Ltd



# TEST CERTIFICATE

## Unconsolidated Undrained

### Triaxial Compression

Tested in Accordance with:  
BS 1377-7: 1990: Clause 8

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 10/06/2021  
Date Received: 09/06/2021  
Date Tested: 29/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

#### Test Results:

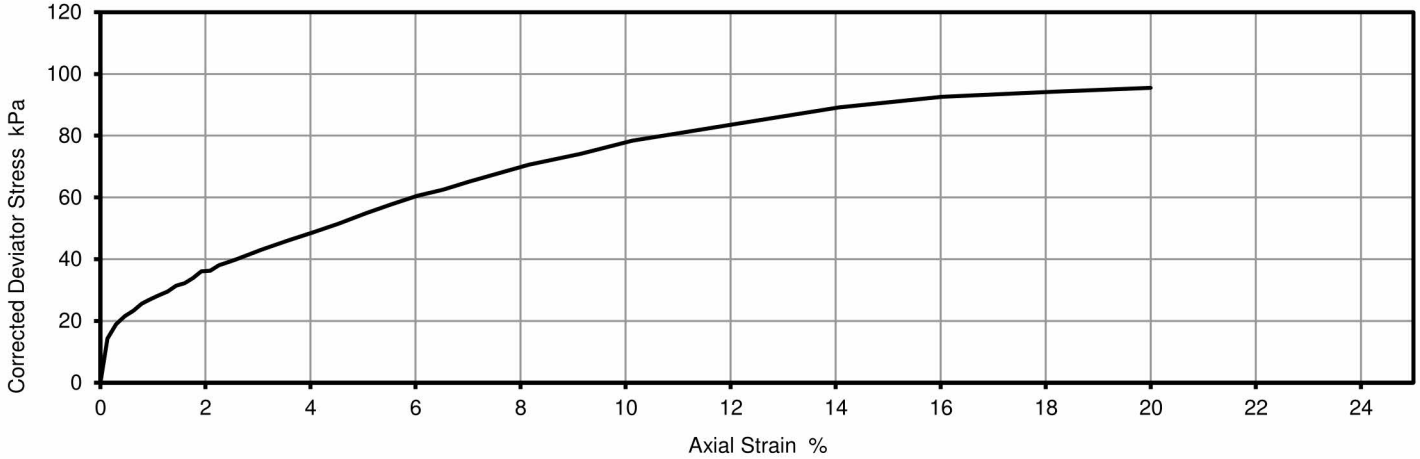
Laboratory Reference: 1906649  
Hole No.: HYDCP03  
Sample Reference: Not Given  
Sample Description: Greyish brown sandy gravelly CLAY

Depth Top [m]: 2.00  
Depth Base [m]: 2.45  
Sample Type: U

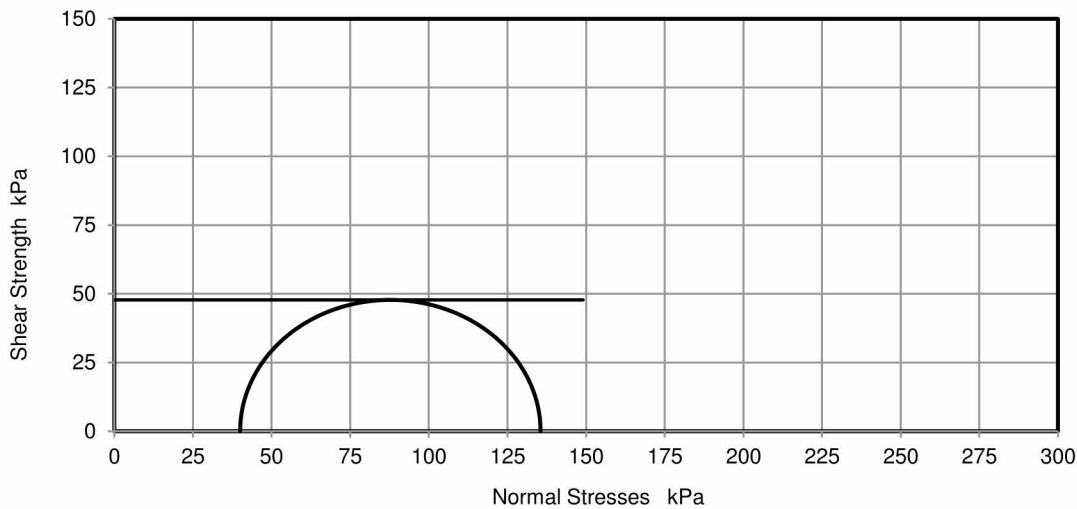
Test Number	1
Length	202.58 mm
Diameter	102.41 mm
Bulk Density	2.12 Mg/m <sup>3</sup>
Moisture Content	16 %
Dry Density	1.82 Mg/m <sup>3</sup>
Membrane Correction	1.13 kPa

Rate of Strain	1.97 %/min
Cell Pressure	40 kPa
Axial Strain at failure	20.0 %
Deviator Stress, (σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>	96 kPa
Undrained Shear Strength, c <sub>u</sub>	48 kPa ½(σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>
Mode of Failure	Plastic
Membrane thickness	0.30 mm

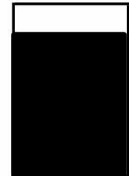
#### Deviator Stress v Axial Strain



#### Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

#### Remarks:

#### Signed:



Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Unconsolidated Undrained

### Triaxial Compression

Tested in Accordance with:  
BS 1377-7: 1990: Clause 8

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 10/06/2021  
Date Received: 09/06/2021  
Date Tested: 29/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

#### Test Results:

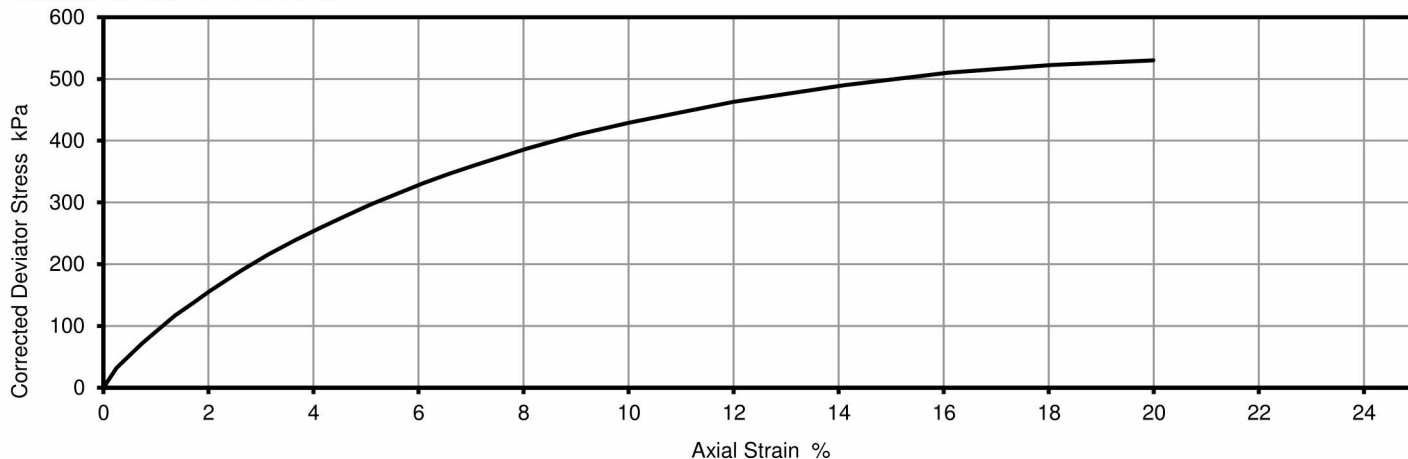
Laboratory Reference: 1906650  
Hole No.: HYDCP03  
Sample Reference: Not Given  
Sample Description: Brownish grey sandy gravelly CLAY

Depth Top [m]: 6.00  
Depth Base [m]: 6.45  
Sample Type: U

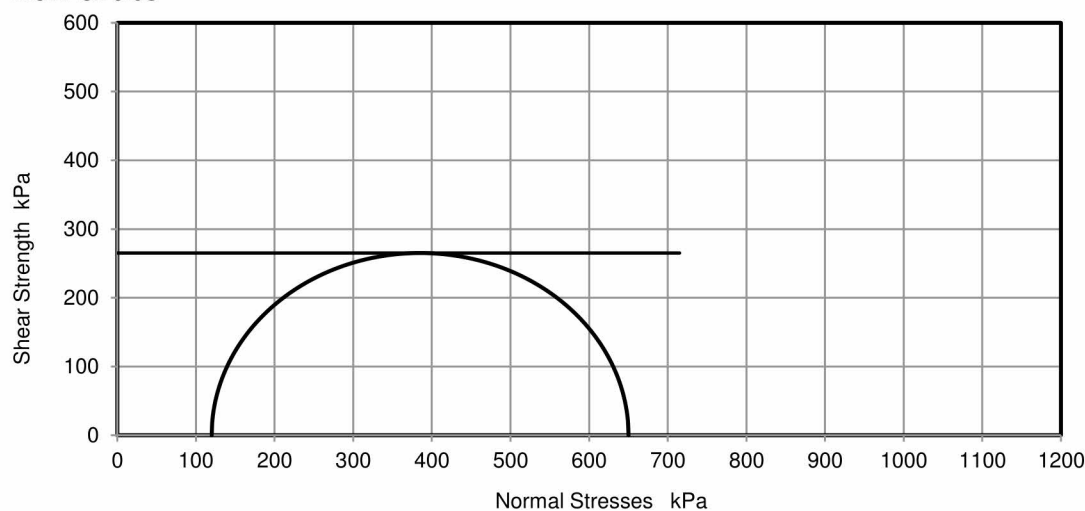
Test Number	1
Length	201.39 mm
Diameter	101.95 mm
Bulk Density	2.31 Mg/m <sup>3</sup>
Moisture Content	11 %
Dry Density	2.09 Mg/m <sup>3</sup>
Membrane Correction	1.06 kPa

Rate of Strain	1.99 %/min
Cell Pressure	120 kPa
Axial Strain at failure	20.0 %
Deviator Stress, ( $\sigma_1 - \sigma_3$ ) <sub>f</sub>	530 kPa
Undrained Shear Strength, $c_u$	265 kPa $\frac{1}{2}(\sigma_1 - \sigma_3)_f$
Mode of Failure	Compound
Membrane thickness	0.28 mm

#### Deviator Stress v Axial Strain



#### Mohr Circles



Position within sample

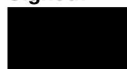


Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

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#### Signed:



Szczepan Białotowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd



# TEST CERTIFICATE

## Unconsolidated Undrained

### Triaxial Compression

Tested in Accordance with:  
BS 1377-7: 1990: Clause 8

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: Not Given  
Date Received: 09/06/2021  
Date Tested: 29/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

#### Test Results:

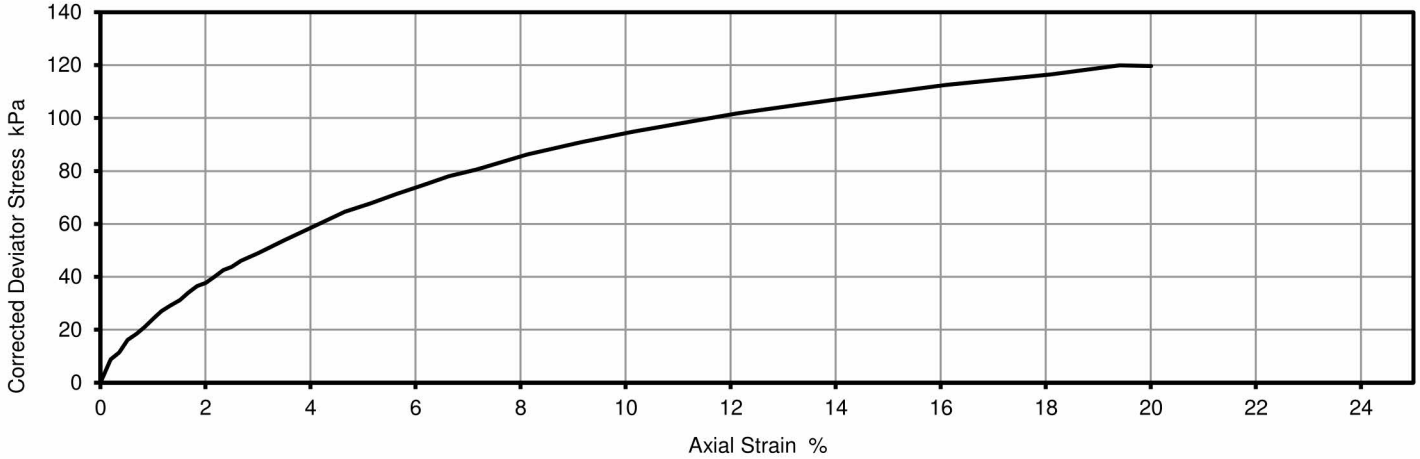
Laboratory Reference: 1906652  
Hole No.: HYDCP04  
Sample Reference: Not Given  
Sample Description: Brown slightly gravelly sandy CLAY

Depth Top [m]: 1.20  
Depth Base [m]: 1.65  
Sample Type: U

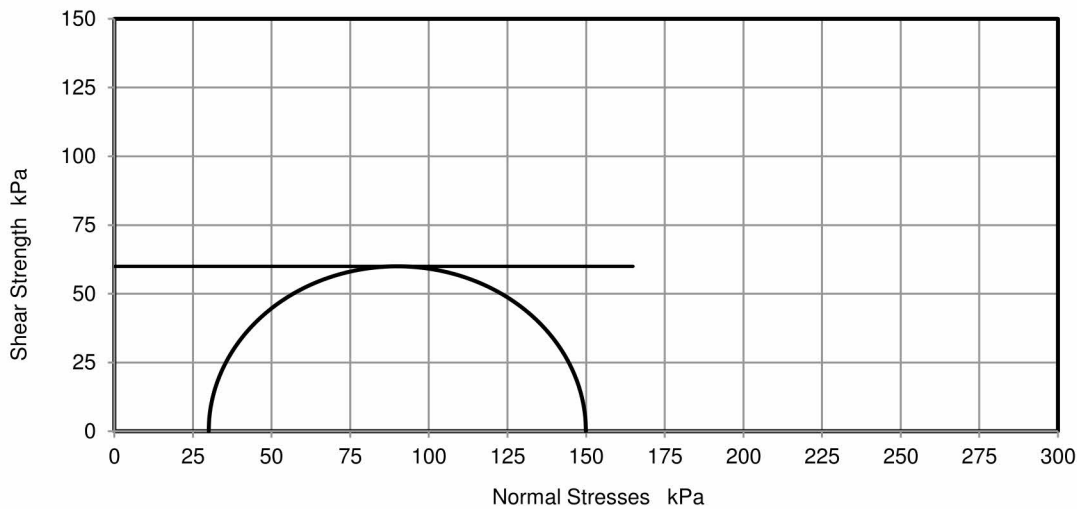
Test Number	1
Length	139.75 mm
Diameter	69.02 mm
Bulk Density	2.15 Mg/m <sup>3</sup>
Moisture Content	16 %
Dry Density	1.86 Mg/m <sup>3</sup>
Membrane Correction	1.36 kPa

Rate of Strain	2.00 %/min
Cell Pressure	30 kPa
Axial Strain at failure	19.4 %
Deviator Stress, (σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>	120 kPa
Undrained Shear Strength, c <sub>u</sub>	60 kPa ½(σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>
Mode of Failure	Compound
Membrane thickness	0.25 mm

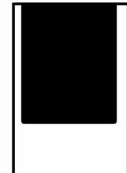
#### Deviator Stress v Axial Strain



#### Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

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PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd





# TEST CERTIFICATE

## Unconsolidated Undrained

### Triaxial Compression

Tested in Accordance with:  
BS 1377-7: 1990: Clause 8

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: Not Given  
Date Received: 09/06/2021  
Date Tested: 29/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

#### Test Results:

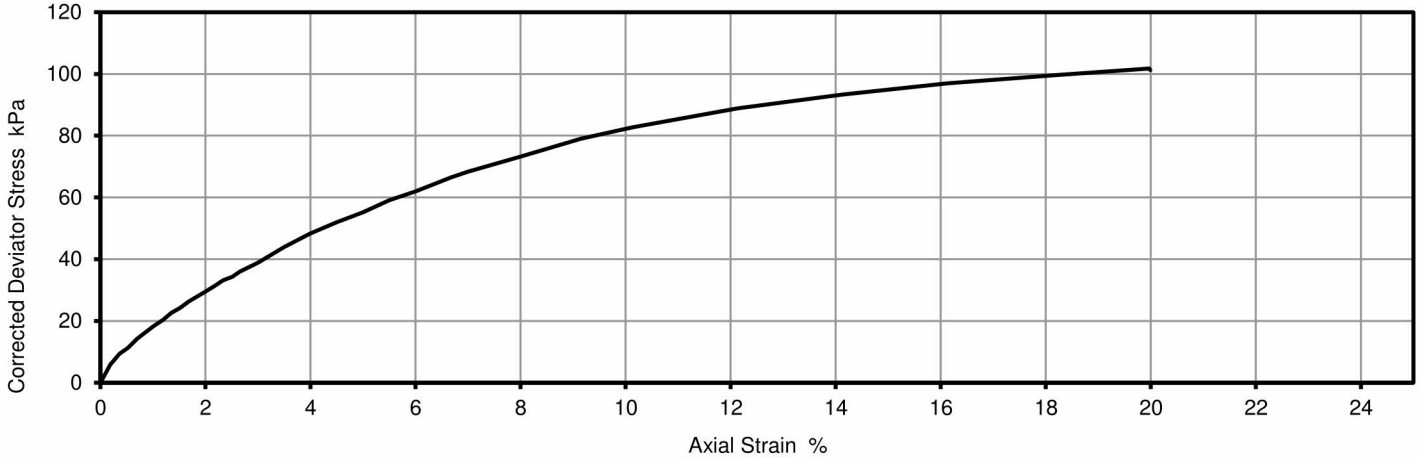
Laboratory Reference: 1906653  
Hole No.: HYDCP04  
Sample Reference: Not Given  
Sample Description: Greyish brown gravelly sandy CLAY

Depth Top [m]: 3.00  
Depth Base [m]: 3.45  
Sample Type: U

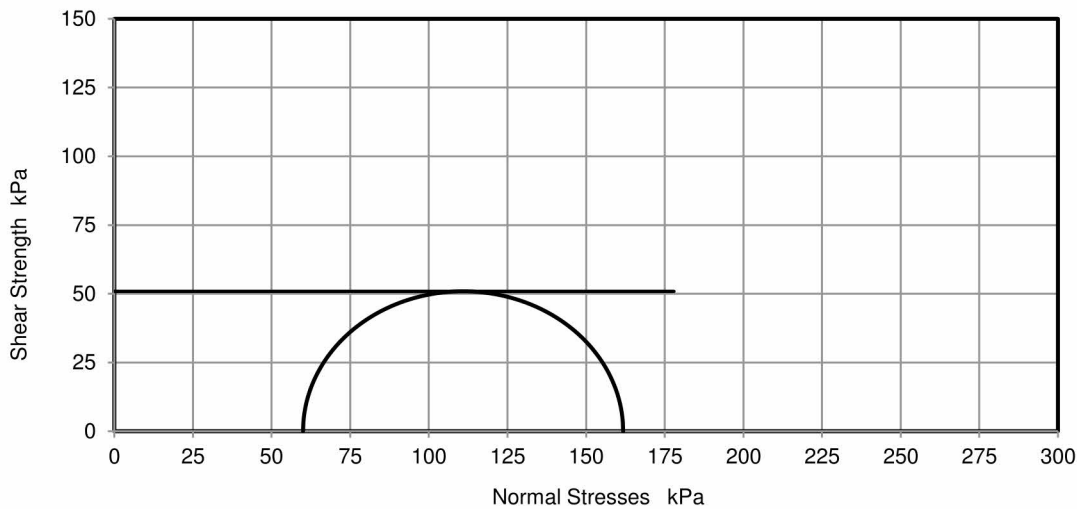
Test Number	1
Length	199.30 mm
Diameter	99.62 mm
Bulk Density	2.29 Mg/m <sup>3</sup>
Moisture Content	13 %
Dry Density	2.02 Mg/m <sup>3</sup>
Membrane Correction	1.12 kPa

Rate of Strain	2.00 %/min
Cell Pressure	60 kPa
Axial Strain at failure	20.0 %
Deviator Stress, (σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>	102 kPa
Undrained Shear Strength, c <sub>u</sub>	51 kPa ½(σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>
Mode of Failure	Plastic
Membrane thickness	0.29 mm

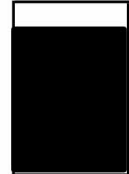
#### Deviator Stress v Axial Strain



#### Mohr Circles



Position within sample

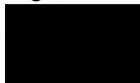


Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

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Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd



# TEST CERTIFICATE

## Unconsolidated Undrained

### Triaxial Compression

Tested in Accordance with:  
BS 1377-7: 1990: Clause 8

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 08/06/2021  
Date Received: 09/06/2021  
Date Tested: 29/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

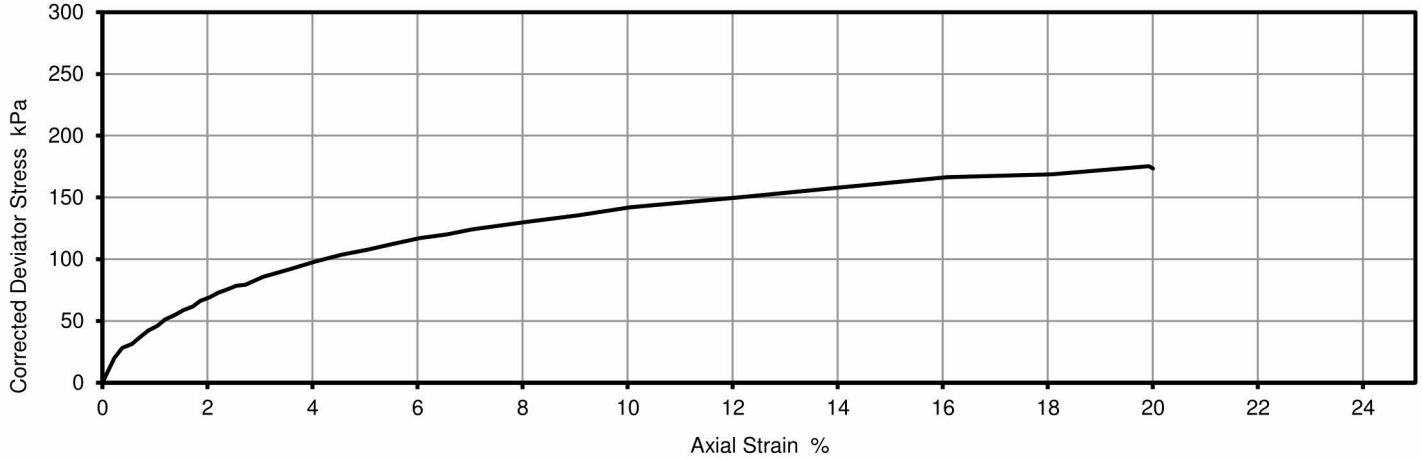
Laboratory Reference: 1906655  
Hole No.: HYDCP05  
Sample Reference: Not Given  
Sample Description: Brownish grey slightly sandy slightly gravelly CLAY

Depth Top [m]: 7.00  
Depth Base [m]: 7.45  
Sample Type: U

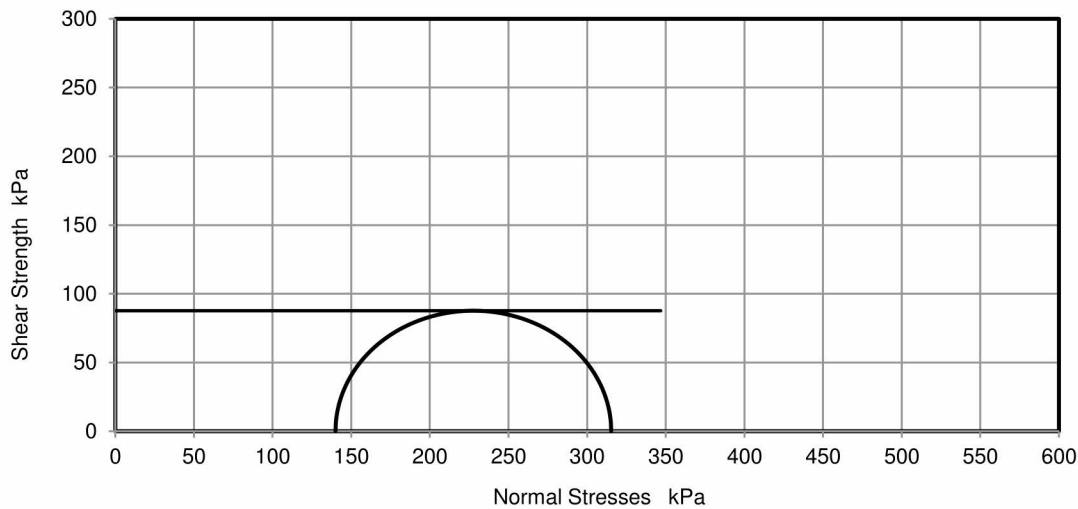
Test Number	1
Length	101.24 mm
Diameter	49.23 mm
Bulk Density	2.22 Mg/m <sup>3</sup>
Moisture Content	14 %
Dry Density	1.95 Mg/m <sup>3</sup>
Membrane Correction	1.79 kPa

Rate of Strain	2.00 %/min
Cell Pressure	140 kPa
Axial Strain at failure	19.9 %
Deviator Stress, (σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>	175 kPa
Undrained Shear Strength, c <sub>u</sub>	88 kPa ½(σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>
Mode of Failure	Compound
Membrane thickness	0.23 mm

### Deviator Stress v Axial Strain



### Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

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# TEST CERTIFICATE

## Unconsolidated Undrained

### Triaxial Compression

Tested in Accordance with:  
BS 1377-7: 1990: Clause 8

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 04/06/2021  
Date Received: 09/06/2021  
Date Tested: 29/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

#### Test Results:

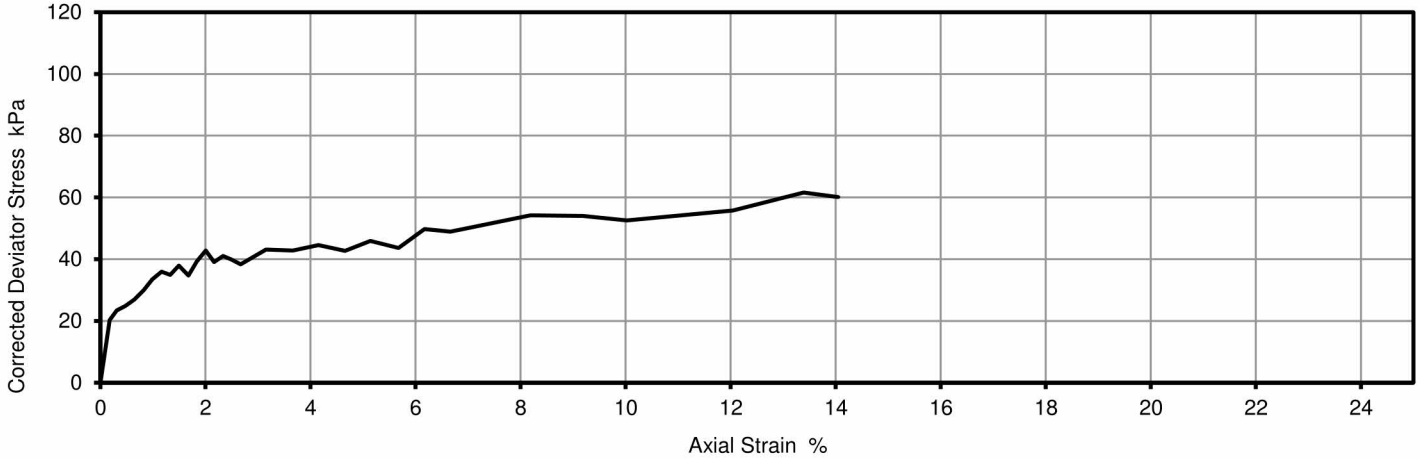
Laboratory Reference: 1906657  
Hole No.: HYDCP06  
Sample Reference: Not Given  
Sample Description: Greyish brown gravelly sandy CLAY

Depth Top [m]: 2.00  
Depth Base [m]: 2.45  
Sample Type: U

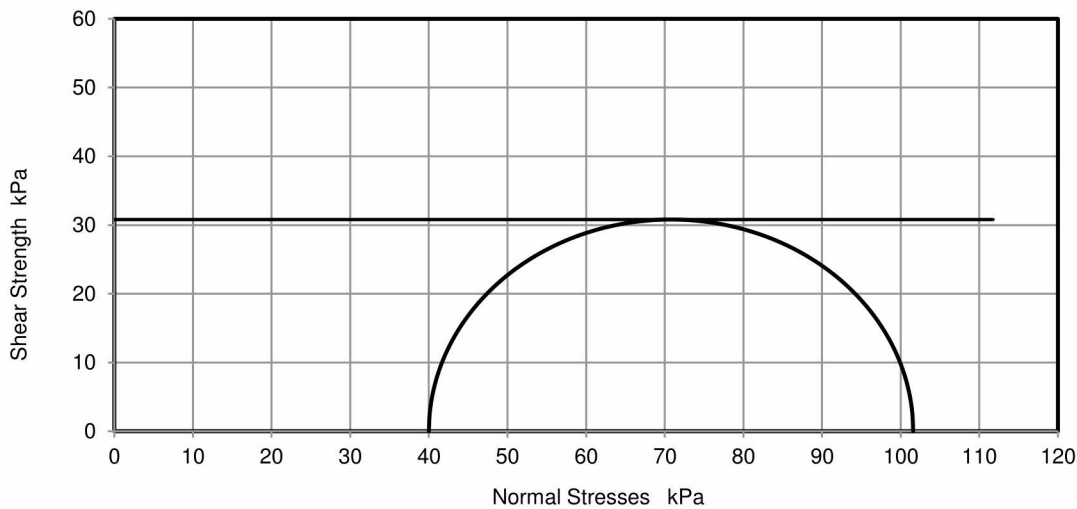
Test Number	1
Length	97.10 mm
Diameter	49.35 mm
Bulk Density	2.22 Mg/m <sup>3</sup>
Moisture Content	36 %
Dry Density	1.63 Mg/m <sup>3</sup>
Membrane Correction	1.35 kPa

Rate of Strain	2.00 %/min
Cell Pressure	40 kPa
Axial Strain at failure	13.4 %
Deviator Stress, (σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>	62 kPa
Undrained Shear Strength, c <sub>u</sub>	31 kPa ½(σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>
Mode of Failure	Plastic
Membrane thickness	0.24 mm

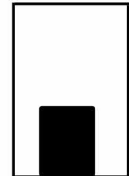
#### Deviator Stress v Axial Strain



#### Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

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PL Deputy Head of Geotechnical Section  
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## Unconsolidated Undrained

### Triaxial Compression

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BS 1377-7: 1990: Clause 8

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 08/06/2021  
Date Received: 09/06/2021  
Date Tested: 29/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

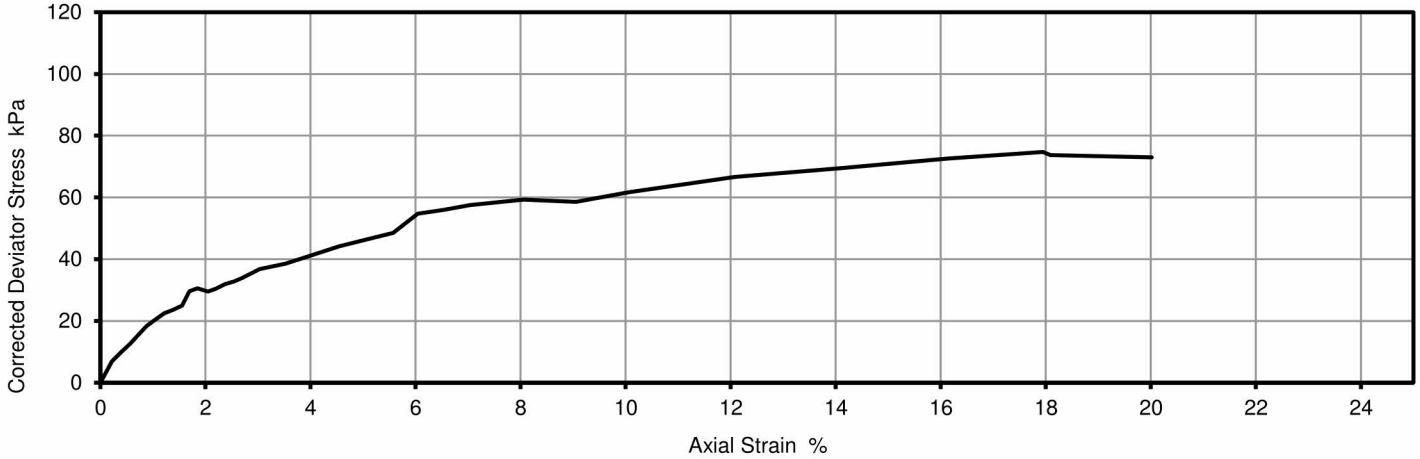
Laboratory Reference: 1906661  
Hole No.: HYDCP09  
Sample Reference: Not Given  
Sample Description: Greyish brown sandy gravelly CLAY

Depth Top [m]: 5.00  
Depth Base [m]: 5.45  
Sample Type: U

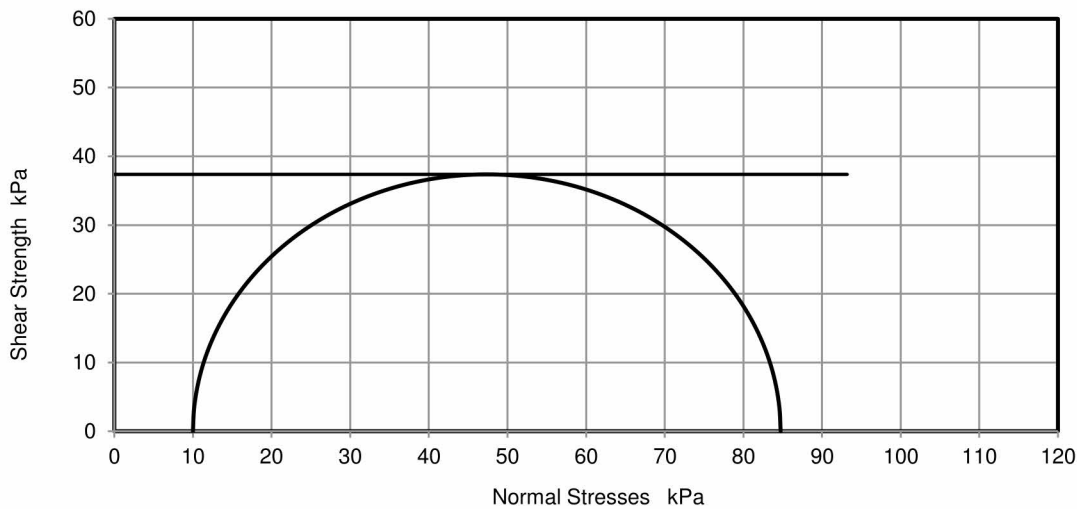
Test Number	1
Length	99.11 mm
Diameter	48.86 mm
Bulk Density	2.31 Mg/m <sup>3</sup>
Moisture Content	15 %
Dry Density	2.01 Mg/m <sup>3</sup>
Membrane Correction	1.87 kPa

Rate of Strain	2.00 %/min
Cell Pressure	10 kPa
Axial Strain at failure	17.9 %
Deviator Stress, (σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>	75 kPa
Undrained Shear Strength, c <sub>u</sub>	37 kPa ½(σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>
Mode of Failure	Compound
Membrane thickness	0.26 mm

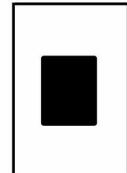
### Deviator Stress v Axial Strain



### Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

### Remarks:

### Signed:



Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
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# TEST CERTIFICATE

## Unconsolidated Undrained

### Triaxial Compression

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BS 1377-7: 1990: Clause 8

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 07/06/2021  
Date Received: 09/06/2021  
Date Tested: 29/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

#### Test Results:

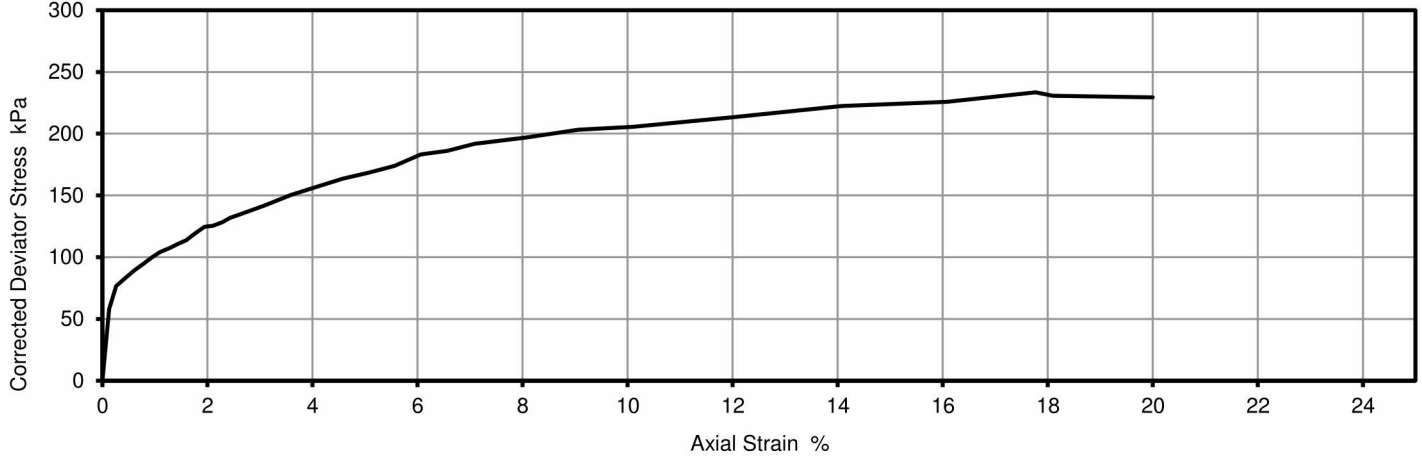
Laboratory Reference: 1906666  
Hole No.: HYDCP12  
Sample Reference: Not Given  
Sample Description: Greyish brown sandy gravelly CLAY

Depth Top [m]: 5.00  
Depth Base [m]: 5.45  
Sample Type: U

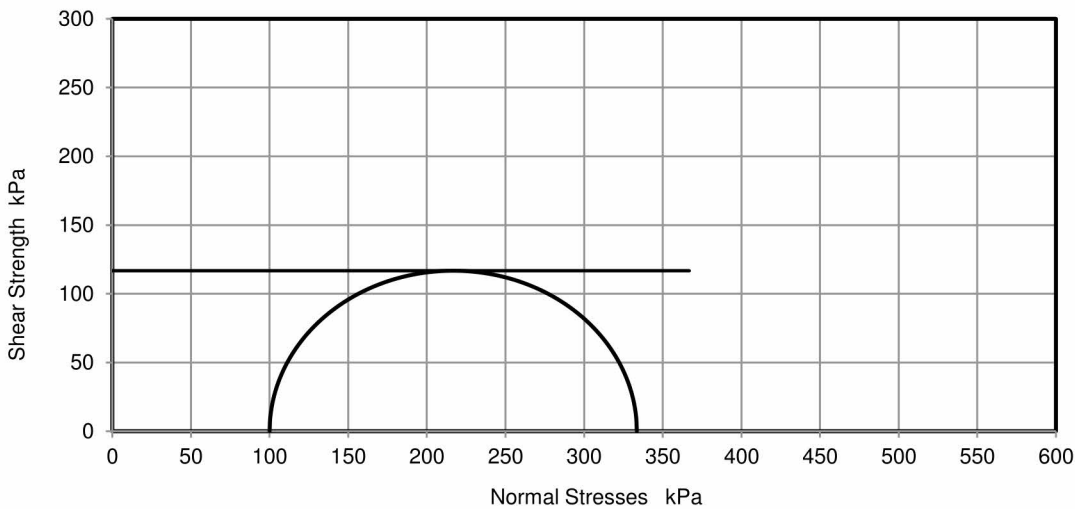
Test Number	1
Length	100.35 mm
Diameter	49.50 mm
Bulk Density	2.32 Mg/m <sup>3</sup>
Moisture Content	13 %
Dry Density	2.06 Mg/m <sup>3</sup>
Membrane Correction	1.48 kPa

Rate of Strain	2.00 %/min
Cell Pressure	100 kPa
Axial Strain at failure	17.8 %
Deviator Stress, (σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>	234 kPa
Undrained Shear Strength, c <sub>u</sub>	117 kPa ½(σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>
Mode of Failure	Compound
Membrane thickness	0.21 mm

#### Deviator Stress v Axial Strain



#### Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

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**TEST CERTIFICATE**  
**Unconsolidated Undrained**  
**Triaxial Compression**

Tested in Accordance with:  
 BS 1377-7: 1990: Clause 8

i2 Analytical Ltd  
 Unit 8 Harrowden Road  
 Brackmills Industrial Estate  
 Northampton NN4 7EB



Client: Hydrock Consultants Ltd  
 Client Address: 4 Lakeside, Festival Park,  
 Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
 Job Number: 21-81767  
 Date Sampled: 20/06/2021  
 Date Received: 09/06/2021  
 Date Tested: 29/06/2021  
 Sampled By: Client

Contact: Jason Bradley  
 Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**

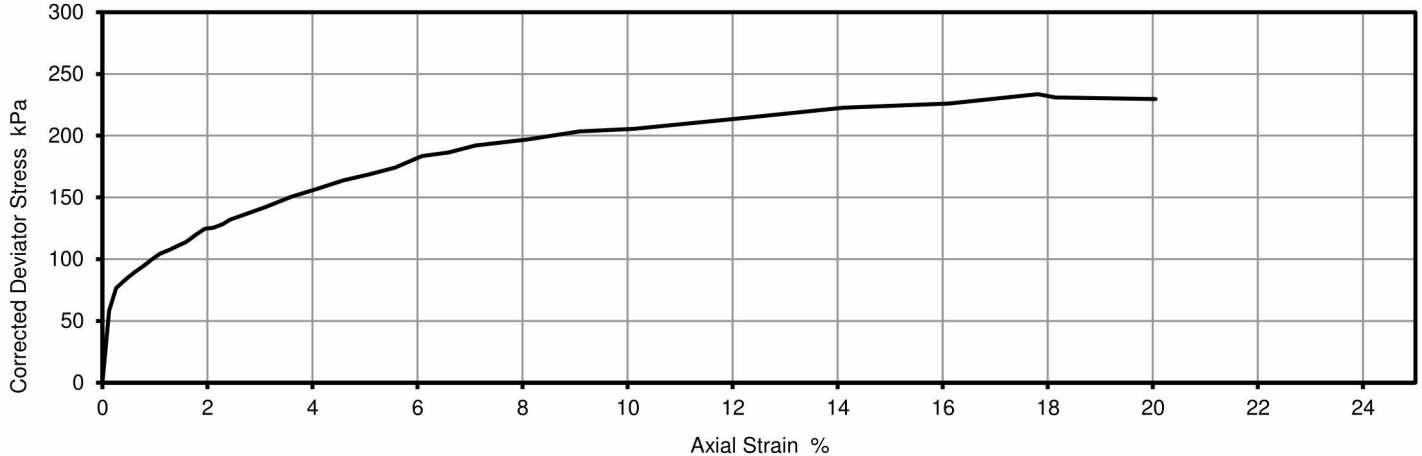
Laboratory Reference: 1906669  
 Hole No.: HYDCP13  
 Sample Reference: Not Given  
 Sample Description: Greyish brown slightly sandy gravelly CLAY

Depth Top [m]: 4.00  
 Depth Base [m]: 4.45  
 Sample Type: U

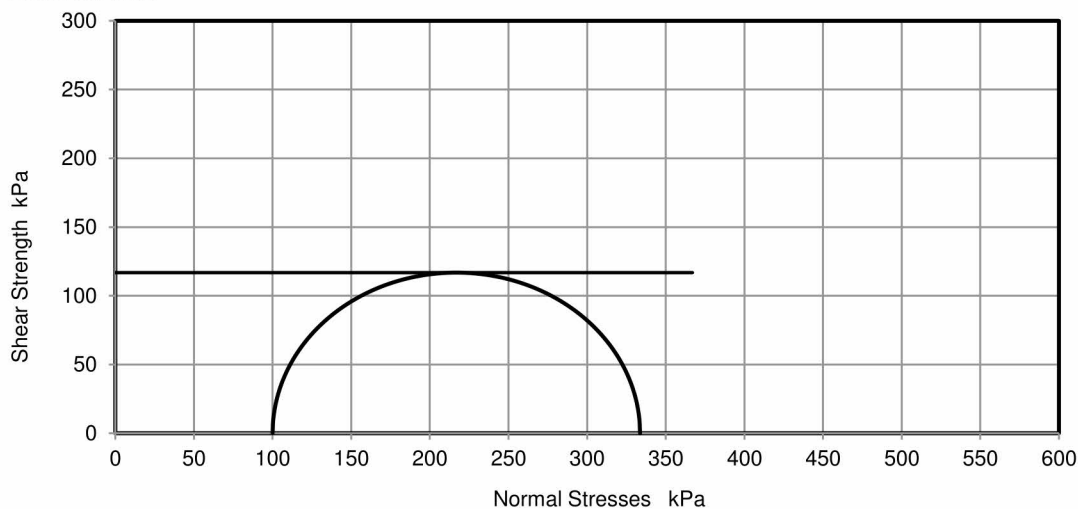
Test Number	1
Length	100.09 mm
Diameter	49.48 mm
Bulk Density	2.12 Mg/m <sup>3</sup>
Moisture Content	14 %
Dry Density	1.86 Mg/m <sup>3</sup>
Membrane Correction	1.48 kPa

Rate of Strain	2.00 %/min
Cell Pressure	100 kPa
Axial Strain at failure	17.8 %
Deviator Stress, (σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>	234 kPa
Undrained Shear Strength, c <sub>u</sub>	117 kPa ½(σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>
Mode of Failure	Compound
Membrane thickness	0.21 mm

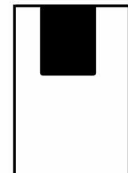
**Deviator Stress v Axial Strain**



**Mohr Circles**



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

**Remarks:**

**Signed:**



Szczepan Bielatowicz  
 PL Deputy Head of Geotechnical Section  
 for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Unconsolidated Undrained

### Triaxial Compression

Tested in Accordance with:  
BS 1377-7: 1990: Clause 8

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 09/06/2021  
Date Received: 09/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

#### Test Results:

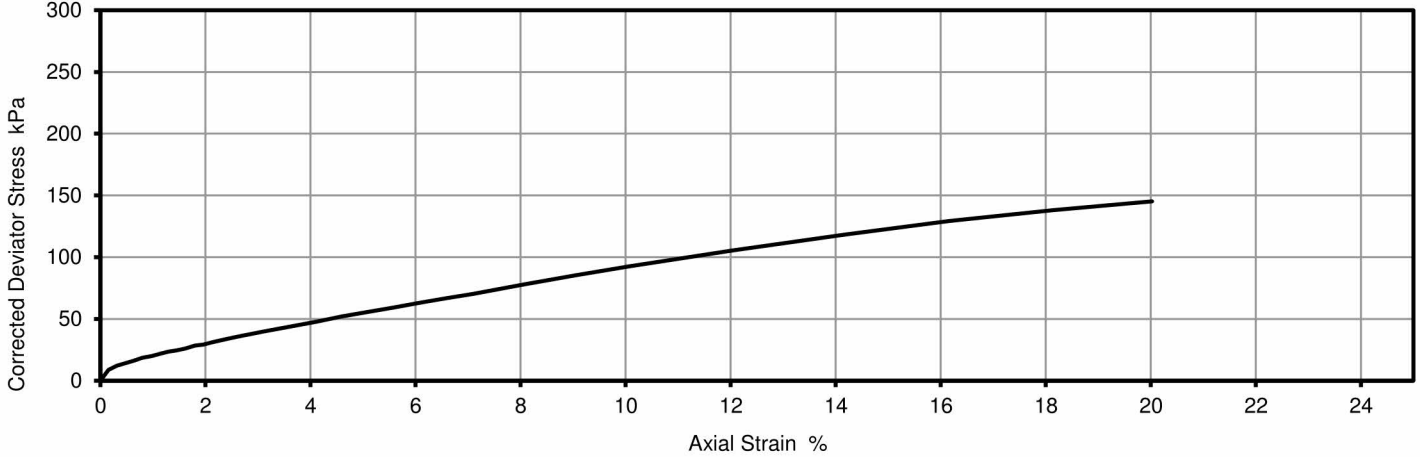
Laboratory Reference: 1906676  
Hole No.: HYDCP18  
Sample Reference: Not Given  
Sample Description: Brown slightly gravelly slightly sandy CLAY

Depth Top [m]: 4.00  
Depth Base [m]: 4.65  
Sample Type: U

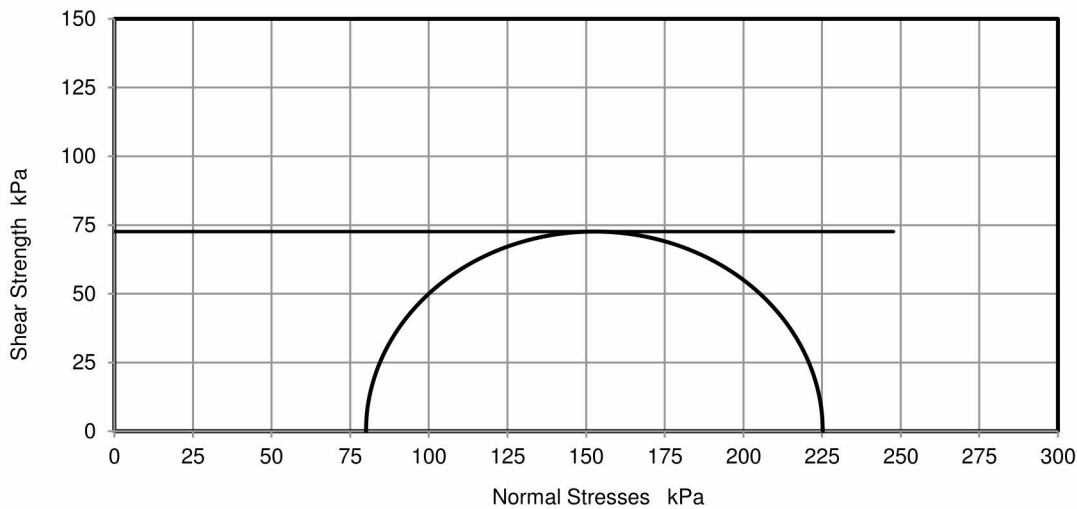
Test Number	1
Length	200.81 mm
Diameter	102.08 mm
Bulk Density	2.20 Mg/m <sup>3</sup>
Moisture Content	17 %
Dry Density	1.89 Mg/m <sup>3</sup>
Membrane Correction	1.17 kPa

Rate of Strain	1.99 %/min
Cell Pressure	80 kPa
Axial Strain at failure	20.0 %
Deviator Stress, ( $\sigma_1 - \sigma_3$ ) <sub>f</sub>	145 kPa
Undrained Shear Strength, $c_u$	73 kPa $\frac{1}{2}(\sigma_1 - \sigma_3)_f$
Mode of Failure	Compound
Membrane thickness	0.31 mm

#### Deviator Stress v Axial Strain



#### Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

#### Remarks:

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#### Signed:



Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd



# TEST CERTIFICATE

## Unconsolidated Undrained

### Triaxial Compression

Tested in Accordance with:  
BS 1377-7: 1990: Clause 8

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 09/06/2021  
Date Received: 09/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

#### Test Results:

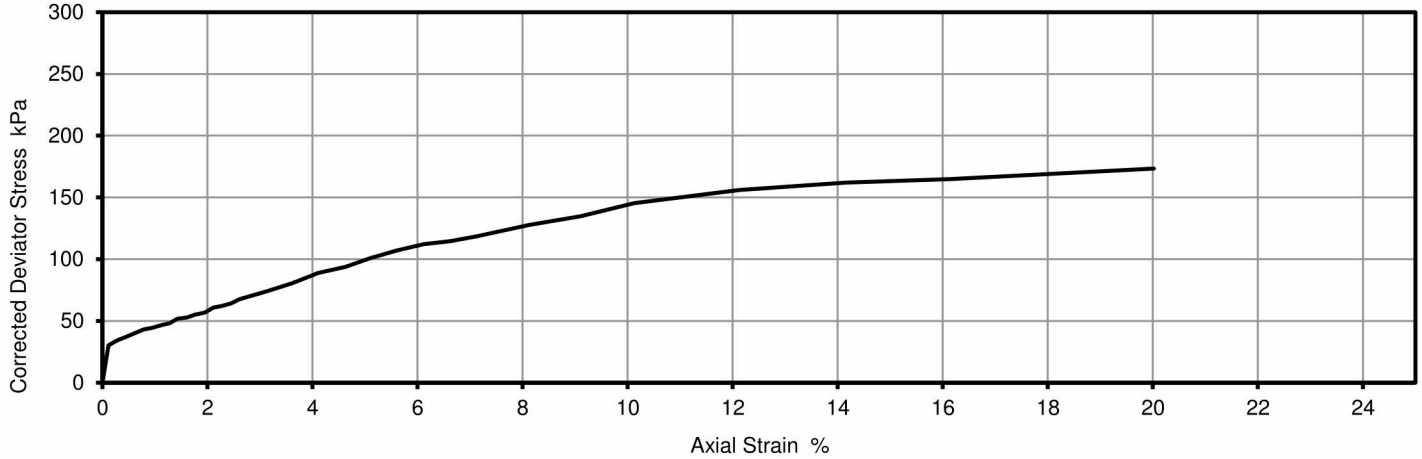
Laboratory Reference: 1906679  
Hole No.: HYDCP20  
Sample Reference: Not Given  
Sample Description: Brown gravelly slightly sandy CLAY

Depth Top [m]: 2.00  
Depth Base [m]: 2.45  
Sample Type: U

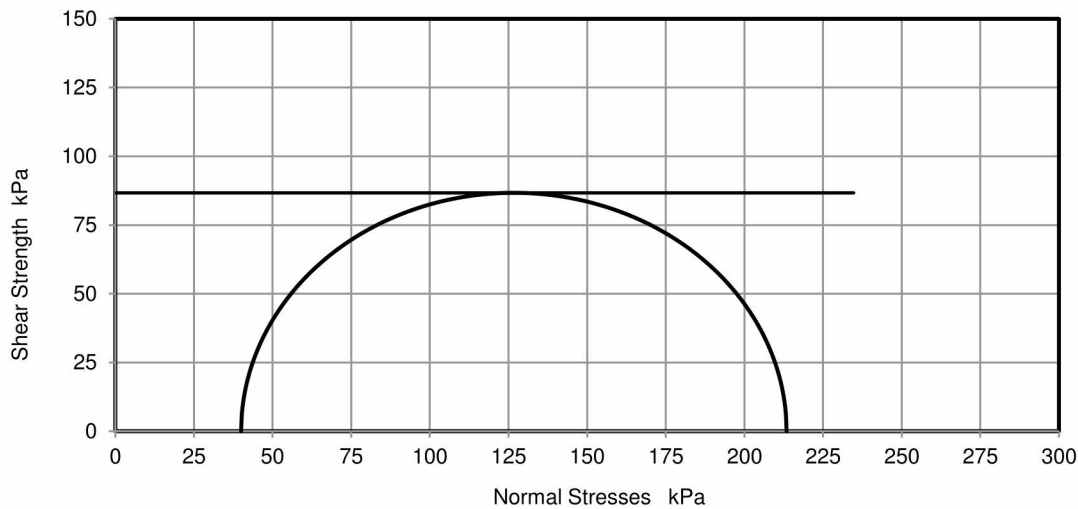
Test Number	1
Length	94.61 mm
Diameter	48.90 mm
Bulk Density	2.17 Mg/m <sup>3</sup>
Moisture Content	14 %
Dry Density	1.91 Mg/m <sup>3</sup>
Membrane Correction	1.65 kPa

Rate of Strain	2.00 %/min
Cell Pressure	40 kPa
Axial Strain at failure	20.0 %
Deviator Stress, (σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>	173 kPa
Undrained Shear Strength, c <sub>u</sub>	87 kPa ½(σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>
Mode of Failure	Compound
Membrane thickness	0.21 mm

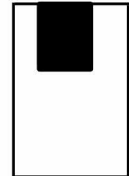
#### Deviator Stress v Axial Strain



#### Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

#### Remarks:

#### Signed:



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# TEST CERTIFICATE

## Unconsolidated Undrained

### Triaxial Compression

Tested in Accordance with:  
BS 1377-7: 1990: Clause 8

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 02/06/2021  
Date Received: 09/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

#### Test Results:

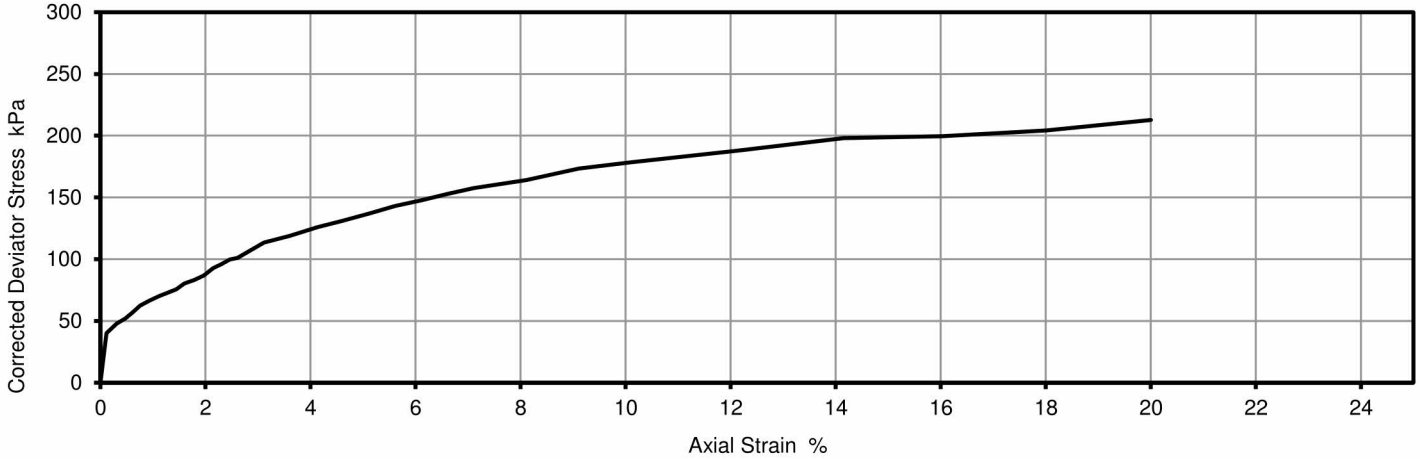
Laboratory Reference: 1906682  
Hole No.: HYDCP22  
Sample Reference: Not Given  
Sample Description: Brown slightly gravelly slightly sandy CLAY

Depth Top [m]: 4.00  
Depth Base [m]: 4.45  
Sample Type: U

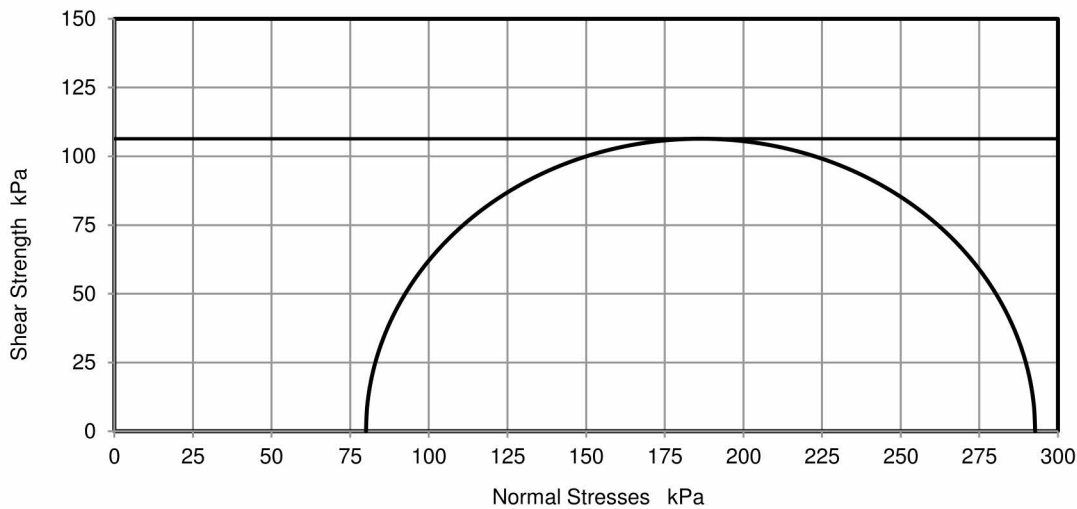
Test Number	1
Length	96.94 mm
Diameter	48.82 mm
Bulk Density	2.15 Mg/m <sup>3</sup>
Moisture Content	14 %
Dry Density	1.89 Mg/m <sup>3</sup>
Membrane Correction	1.81 kPa

Rate of Strain	2.00 %/min
Cell Pressure	80 kPa
Axial Strain at failure	20.0 %
Deviator Stress, (σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>	213 kPa
Undrained Shear Strength, c <sub>u</sub>	106 kPa ½(σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>
Mode of Failure	Compound
Membrane thickness	0.23 mm

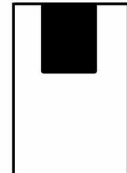
#### Deviator Stress v Axial Strain



#### Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

#### Remarks:

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#### Signed:



Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd



**TEST CERTIFICATE**  
**Unconsolidated Undrained**  
**Triaxial Compression**

i2 Analytical Ltd  
 Unit 8 Harrowden Road  
 Brackmills Industrial Estate  
 Northampton NN4 7EB



Tested in Accordance with:  
 BS 1377-7: 1990: Clause 8

Client: Hydrock Consultants Ltd  
 Client Address: 4 Lakeside, Festival Park,  
 Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
 Job Number: 21-81767  
 Date Sampled: 28/05/2021  
 Date Received: 09/06/2021  
 Date Tested: 30/06/2021  
 Sampled By: Client

Contact: Jason Bradley  
 Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**

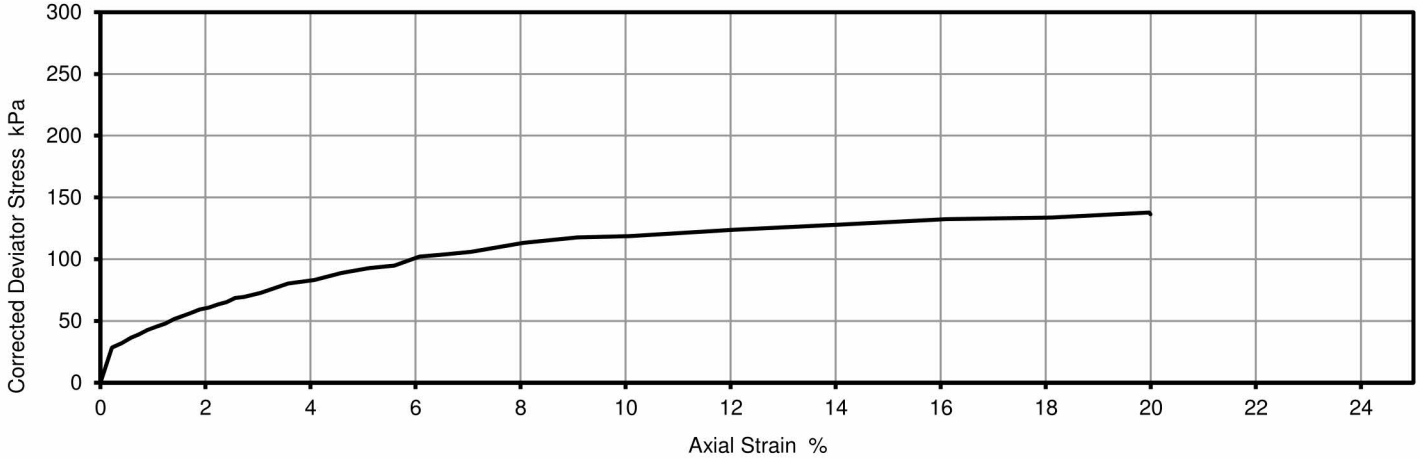
Laboratory Reference: 1906684  
 Hole No.: HYDCP23  
 Sample Reference: Not Given  
 Sample Description: Brown slightly gravelly slightly sandy CLAY

Depth Top [m]: 3.00  
 Depth Base [m]: 3.45  
 Sample Type: U

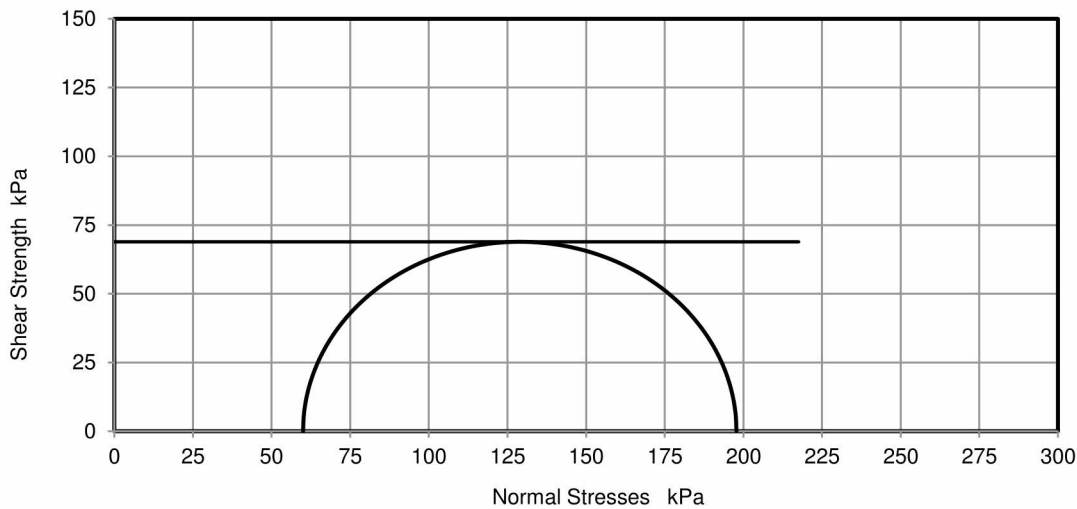
Test Number	1
Length	73.63 mm
Diameter	37.19 mm
Bulk Density	2.15 Mg/m <sup>3</sup>
Moisture Content	15 %
Dry Density	1.87 Mg/m <sup>3</sup>
Membrane Correction	2.17 kPa

Rate of Strain	2.00 %/min
Cell Pressure	60 kPa
Axial Strain at failure	20.0 %
Deviator Stress, (σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>	138 kPa
Undrained Shear Strength, c <sub>u</sub>	69 kPa ½(σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>
Mode of Failure	Compound
Membrane thickness	0.21 mm

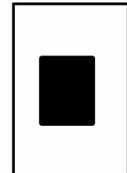
**Deviator Stress v Axial Strain**



**Mohr Circles**



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

**Remarks:**

**Signed:**



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 PL Deputy Head of Geotechnical Section  
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# TEST CERTIFICATE

## Unconsolidated Undrained

### Triaxial Compression

Tested in Accordance with:  
BS 1377-7: 1990: Clause 8

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 28/05/2021  
Date Received: 09/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

#### Test Results:

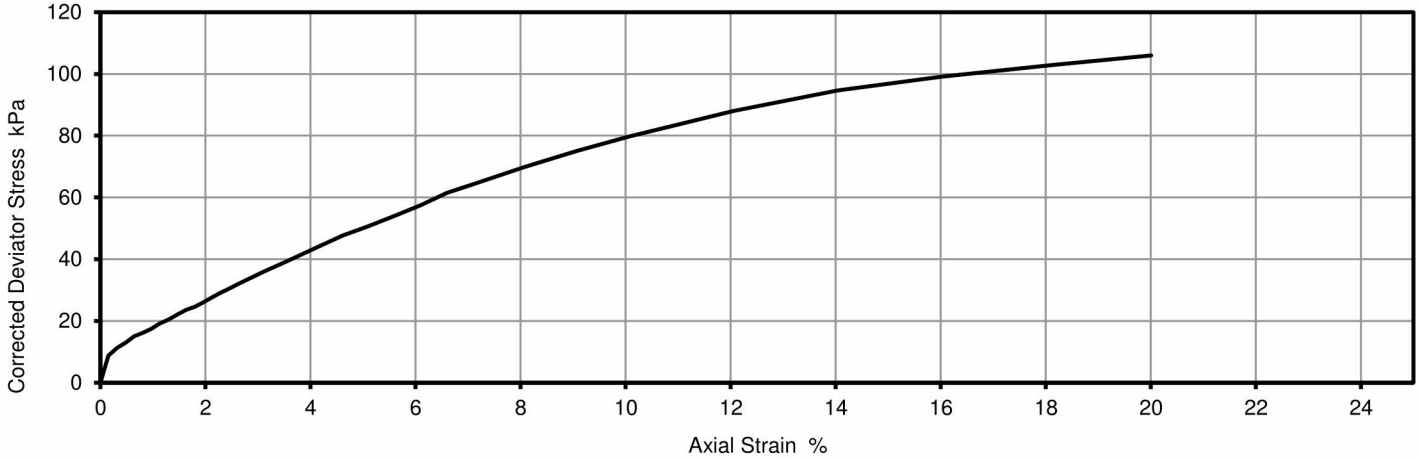
Laboratory Reference: 1906685  
Hole No.: HYDCP23  
Sample Reference: Not Given  
Sample Description: Brown slightly gravelly sandy CLAY

Depth Top [m]: 5.00  
Depth Base [m]: 5.45  
Sample Type: U

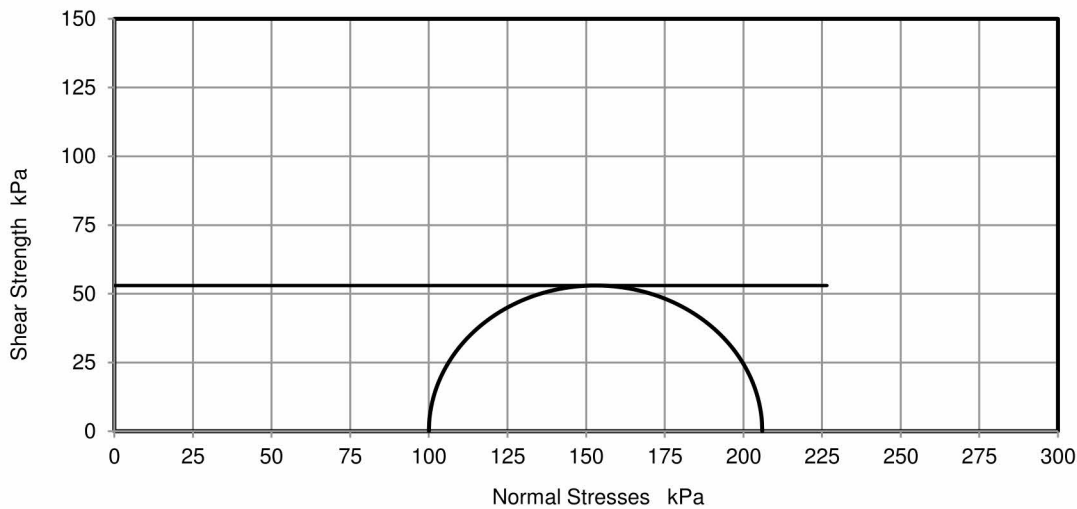
Test Number	1
Length	200.98 mm
Diameter	101.69 mm
Bulk Density	2.25 Mg/m <sup>3</sup>
Moisture Content	15 %
Dry Density	1.97 Mg/m <sup>3</sup>
Membrane Correction	1.17 kPa

Rate of Strain	1.99 %/min
Cell Pressure	100 kPa
Axial Strain at failure	20.0 %
Deviator Stress, ( $\sigma_1 - \sigma_3$ ) <sub>f</sub>	106 kPa
Undrained Shear Strength, $c_u$	53 kPa $\frac{1}{2}(\sigma_1 - \sigma_3)_f$
Mode of Failure	Plastic
Membrane thickness	0.31 mm

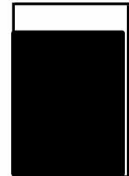
#### Deviator Stress v Axial Strain



#### Mohr Circles



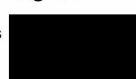
Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

#### Remarks:

#### Signed:



Szczepan Biatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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**TEST CERTIFICATE**  
**Unconsolidated Undrained**  
**Triaxial Compression**

i2 Analytical Ltd  
 Unit 8 Harrowden Road  
 Brackmills Industrial Estate  
 Northampton NN4 7EB



Tested in Accordance with:  
 BS 1377-7: 1990: Clause 8

Client: Hydrock Consultants Ltd  
 Client Address: 4 Lakeside, Festival Park,  
 Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
 Job Number: 21-81767  
 Date Sampled: 28/05/2021  
 Date Received: 09/06/2021  
 Date Tested: 30/06/2021  
 Sampled By: Client

Contact: Jason Bradley  
 Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**

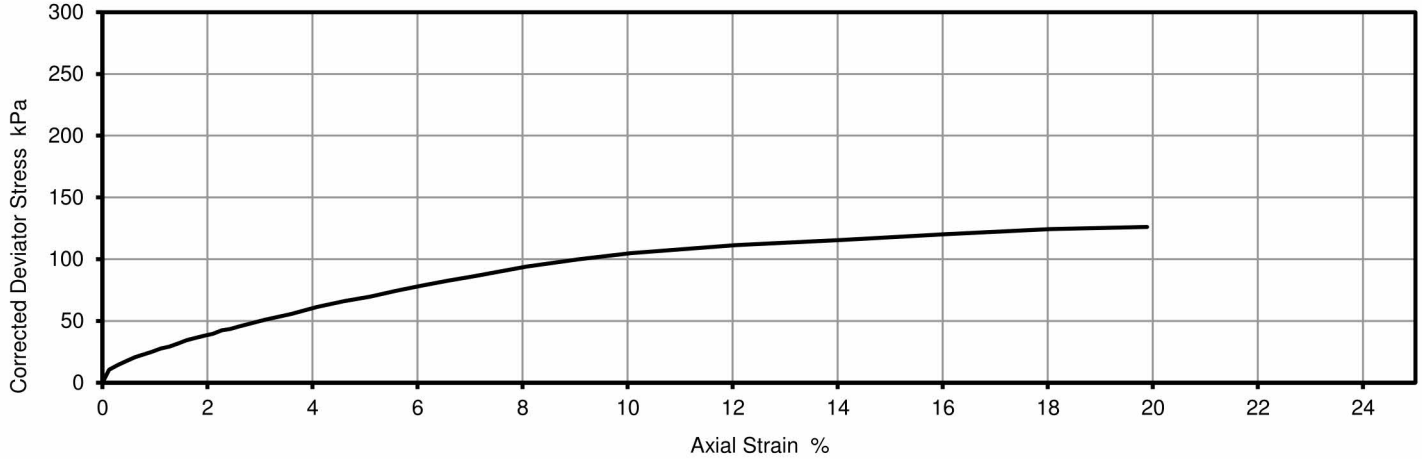
Laboratory Reference: 1906688  
 Hole No.: HYDCP25  
 Sample Reference: Not Given  
 Sample Description: Brown gravelly sandy CLAY

Depth Top [m]: 1.20  
 Depth Base [m]: 1.65  
 Sample Type: U

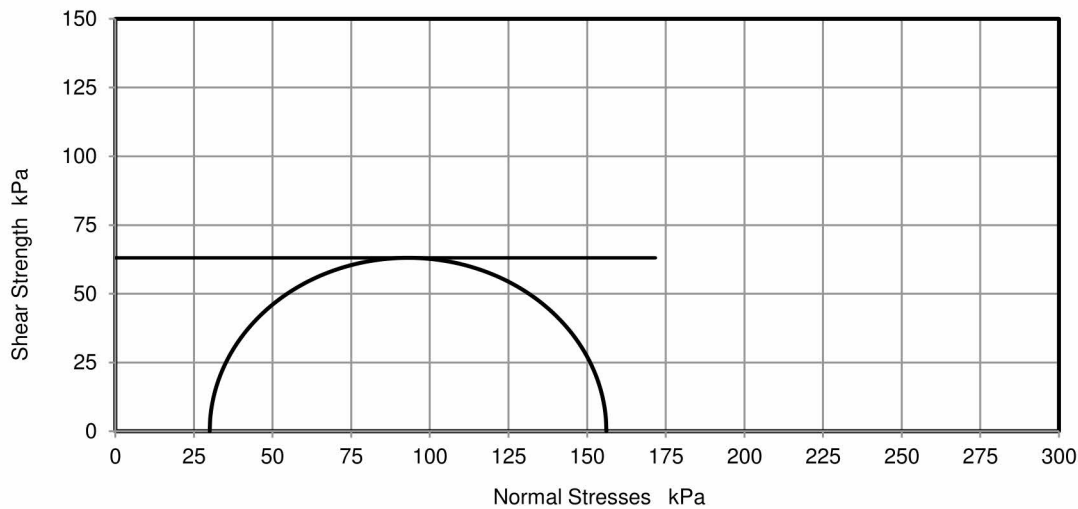
Test Number	1
Length	198.87 mm
Diameter	101.66 mm
Bulk Density	2.27 Mg/m <sup>3</sup>
Moisture Content	16 %
Dry Density	1.96 Mg/m <sup>3</sup>
Membrane Correction	1.09 kPa

Rate of Strain	2.00 %/min
Cell Pressure	30 kPa
Axial Strain at failure	19.9 %
Deviator Stress, (σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>	126 kPa
Undrained Shear Strength, c <sub>u</sub>	63 kPa ½(σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>
Mode of Failure	Compound
Membrane thickness	0.29 mm

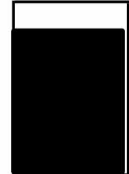
**Deviator Stress v Axial Strain**



**Mohr Circles**



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

**Remarks:**

Signed:



Szczepan Bielatowicz  
 PL Deputy Head of Geotechnical Section  
 for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Unconsolidated Undrained

### Triaxial Compression

Tested in Accordance with:  
BS 1377-7: 1990: Clause 8

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 28/05/2021  
Date Received: 09/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

#### Test Results:

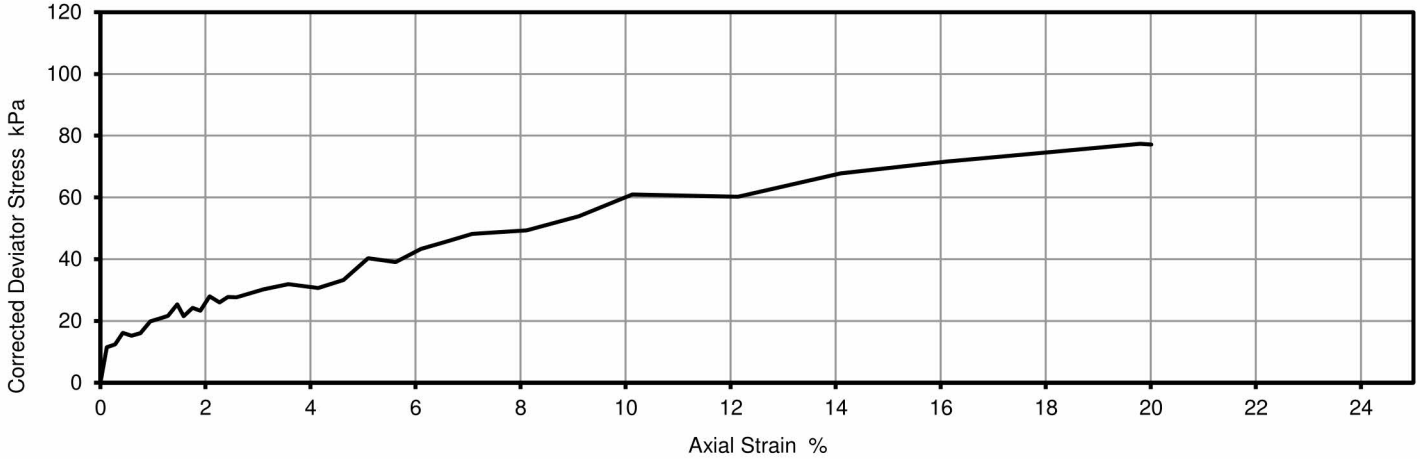
Laboratory Reference: 1906690  
Hole No.: HYDCP27  
Sample Reference: Not Given  
Sample Description: Brownish grey clayey SAND

Depth Top [m]: 1.20  
Depth Base [m]: 1.65  
Sample Type: U

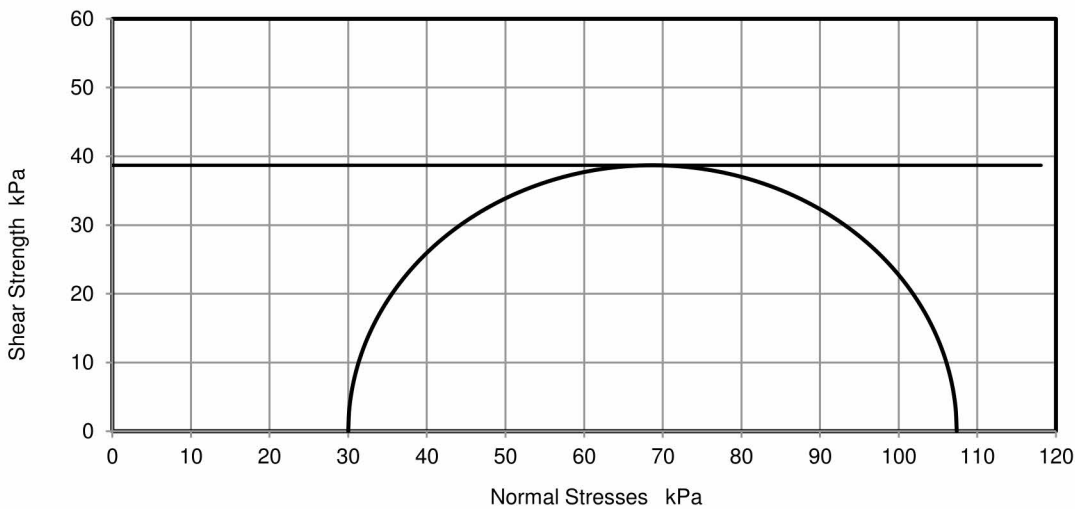
Test Number	1
Length	74.57 mm
Diameter	36.40 mm
Bulk Density	2.18 Mg/m <sup>3</sup>
Moisture Content	19 %
Dry Density	1.83 Mg/m <sup>3</sup>
Membrane Correction	1.99 kPa

Rate of Strain	2.00 %/min
Cell Pressure	30 kPa
Axial Strain at failure	19.8 %
Deviator Stress, (σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>	77 kPa
Undrained Shear Strength, c <sub>u</sub>	39 kPa ½(σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>
Mode of Failure	Compound
Membrane thickness	0.19 mm

#### Deviator Stress v Axial Strain



#### Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

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#### Signed:



Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd



# TEST CERTIFICATE

## Unconsolidated Undrained

### Triaxial Compression

Tested in Accordance with:  
BS 1377-7: 1990: Clause 8

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 27/05/2021  
Date Received: 09/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

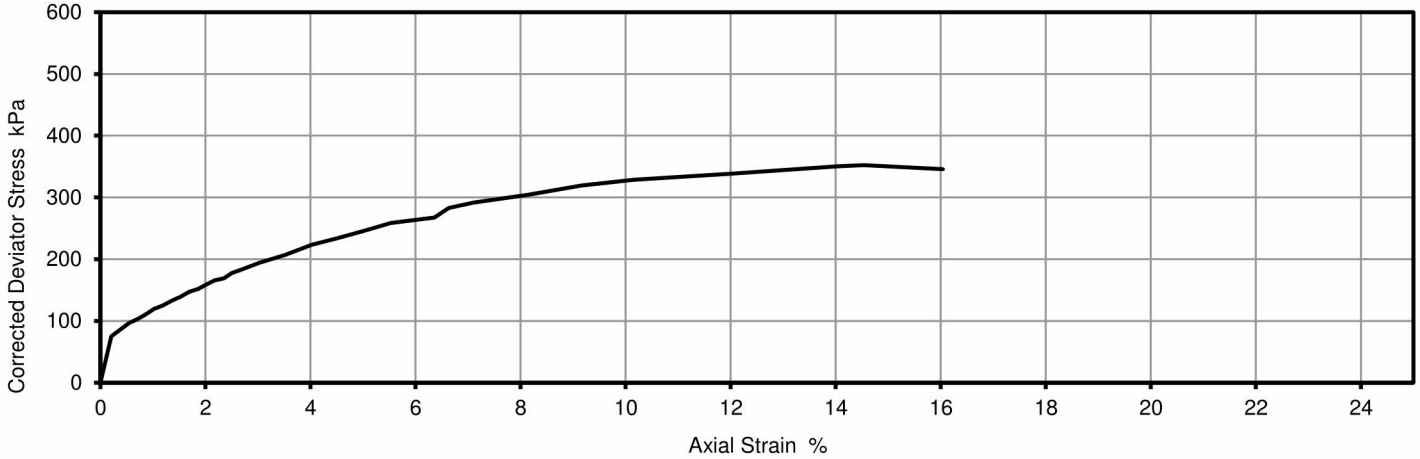
Laboratory Reference: 1906694  
Hole No.: HYDCP28  
Sample Reference: Not Given  
Sample Description: Brown gravelly sandy CLAY

Depth Top [m]: 2.00  
Depth Base [m]: 2.45  
Sample Type: U

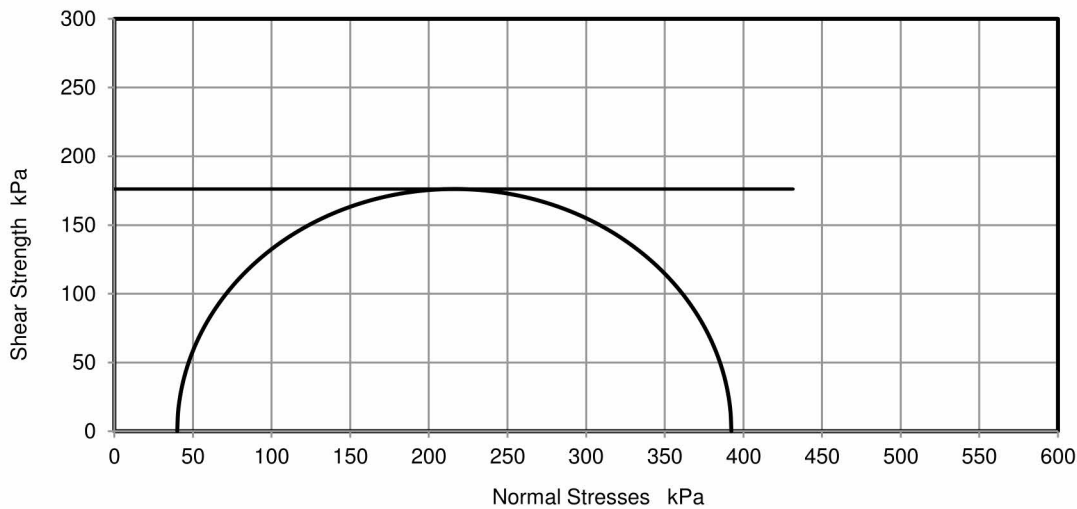
Test Number	1
Length	76.31 mm
Diameter	37.24 mm
Bulk Density	2.12 Mg/m <sup>3</sup>
Moisture Content	13 %
Dry Density	1.87 Mg/m <sup>3</sup>
Membrane Correction	1.59 kPa

Rate of Strain	2.00 %/min
Cell Pressure	40 kPa
Axial Strain at failure	14.5 %
Deviator Stress, ( $\sigma_1 - \sigma_3$ ) <sub>f</sub>	352 kPa
Undrained Shear Strength, $c_u$	176 kPa $\frac{1}{2}(\sigma_1 - \sigma_3)_f$
Mode of Failure	Compound
Membrane thickness	0.20 mm

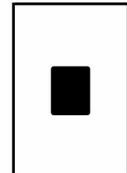
### Deviator Stress v Axial Strain



### Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

### Remarks:

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### Signed:



Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd





# TEST CERTIFICATE

i2 Analytical Ltd  
 Unit 8 Harrowden Road  
 Brackmills Industrial Estate  
 Northampton NN4 7EB



## One Dimensional Consolidation Test

Tested in Accordance with: BS 1377-5: 1990: Clause 3

Client: Hydrock Consultants Ltd  
 Client Address: 4 Lakeside, Festival Park,  
 Stoke on Trent, ST1 5RY

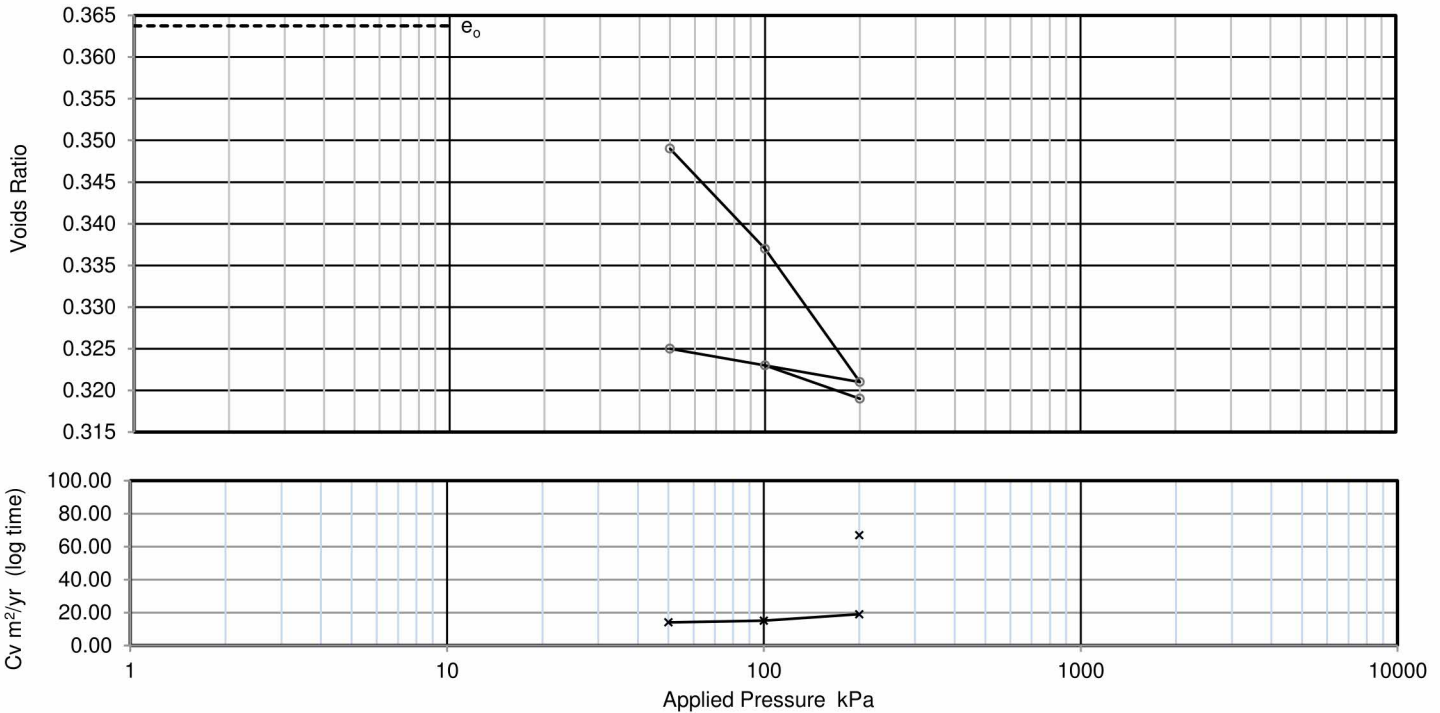
Client Reference: C-15592-C  
 Job Number: 21-81767  
 Date Sampled: 07/06/2021  
 Date Received: 09/06/2021  
 Date Tested: 30/06/2021  
 Sampled By: Client

Contact: Jason Bradley  
 Site Address: Wingates Industrial Estate, Bolton  
 Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1906666  
 Hole No.: HYDCP12  
 Sample Reference: Not Given  
 Sample Description: Brown gravelly slightly silty CLAY

Depth Top [m]: 5.00  
 Depth Base [m]: 5.45  
 Sample Type: U



Applied Pressure kPa	Voids ratio	Mv m2/MN	Cv (t50, log) m2/yr	Cv (t90, root) m2/yr	Csec
0	0.364	-	-	-	-
50	0.349	0.22	14	16	0.00035
100	0.337	0.18	15	16	0.00062
200	0.321	0.12	19	20	0.00064
50	0.325	0.021			
100	0.323	0.027	N/A	39	N/A
200	0.319	0.029	67	67	0.00037

Preparation

Index tests

Orientation of the sample

Particle density

Liquid limit

Plastic limit

Vertical		
assumed	2.65	Mg/m3
N/A		%
N/A		%

Specimen details

Diameter

Height

Moisture Content

Bulk density

Dry density

Voids Ratio

Saturation

Avg. temperature for test

Swelling Pressure

Settlement on saturation

Initial	Final	
50.00	-	mm
20.10	19.44	mm
13	13	%
2.20	2.27	Mg/m3
1.94	2.01	Mg/m3
0.364	0.319	
96	107	%
22.0		°C
Not measured		kPa
		%

Note: Cv corrected to 20°C

Remarks: Specimen contains GRAVEL particle

Signed:

Szczepan Bielatowicz  
 PL Deputy Head of Geotechnical Section  
 for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



## One Dimensional Consolidation Test

4041

Tested in Accordance with: BS 1377-5: 1990: Clause 3

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 09/06/2021  
Date Received: 09/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

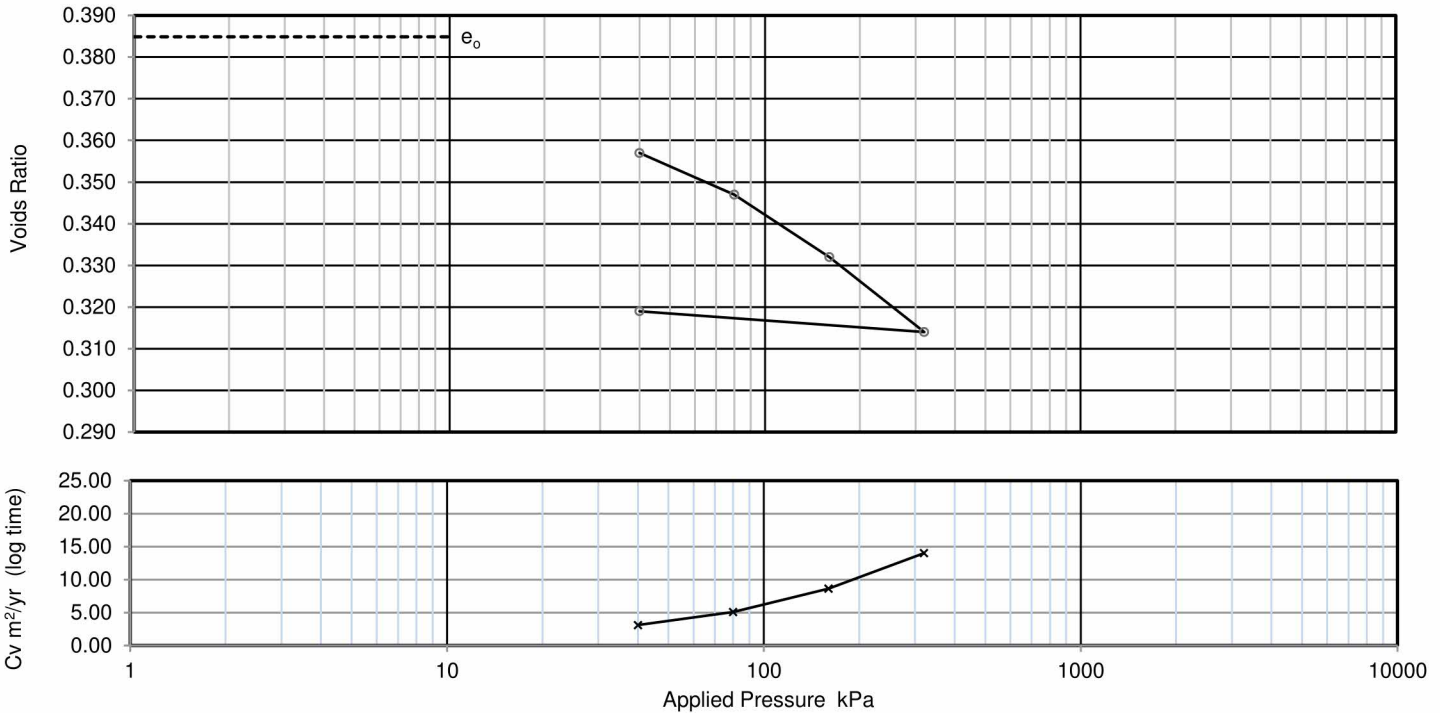
Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1906679  
Hole No.: HYDCP20  
Sample Reference: Not Given  
Sample Description: Brown gravelly CLAY

Depth Top [m]: 2.00  
Depth Base [m]: 2.45  
Sample Type: U



Applied Pressure kPa	Voids ratio	Mv m2/MN	Cv (t50, log) m2/yr	Cv (t90, root) m2/yr	Csec
0	0.385	-	-	-	-
40	0.357	0.49	3.1	3.7	0.00056
80	0.347	0.2	5.1	5.3	0.00062
160	0.332	0.14	8.6	9.5	0.00035
320	0.314	0.087	14	16	0.00088
40	0.319	0.014			

Preparation		
Index tests		
Orientation of the sample	Vertical	
Particle density	assumed	2.65 Mg/m3
Liquid limit	N/A	%
Plastic limit	N/A	%
Specimen details		
Diameter	Initial: 50.10	Final: - mm
Height	Initial: 20.00	Final: 19.04 mm
Moisture Content	Initial: 14	Final: 13 %
Bulk density	Initial: 2.19	Final: 2.28 Mg/m3
Dry density	Initial: 1.91	Final: 2.01 Mg/m3
Voids Ratio	Initial: 0.385	Final: 0.319
Saturation	Initial: 99	Final: 111 %
Avg. temperature for test	22.0 °C	
Swelling Pressure	Not measured kPa	
Settlement on saturation	%	

Note:  $C_v$  corrected to 20°C

Remarks: Specimen contains GRAVEL particle

Signed: [Signature] Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



## One Dimensional Consolidation Test

Tested in Accordance with: BS 1377-5: 1990: Clause 3

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

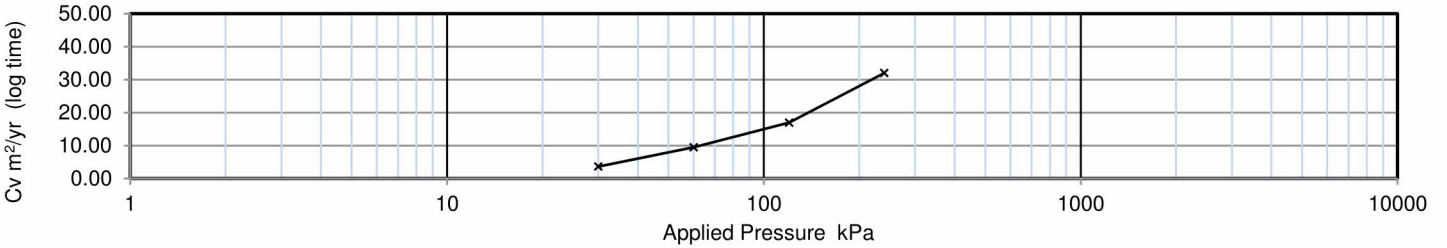
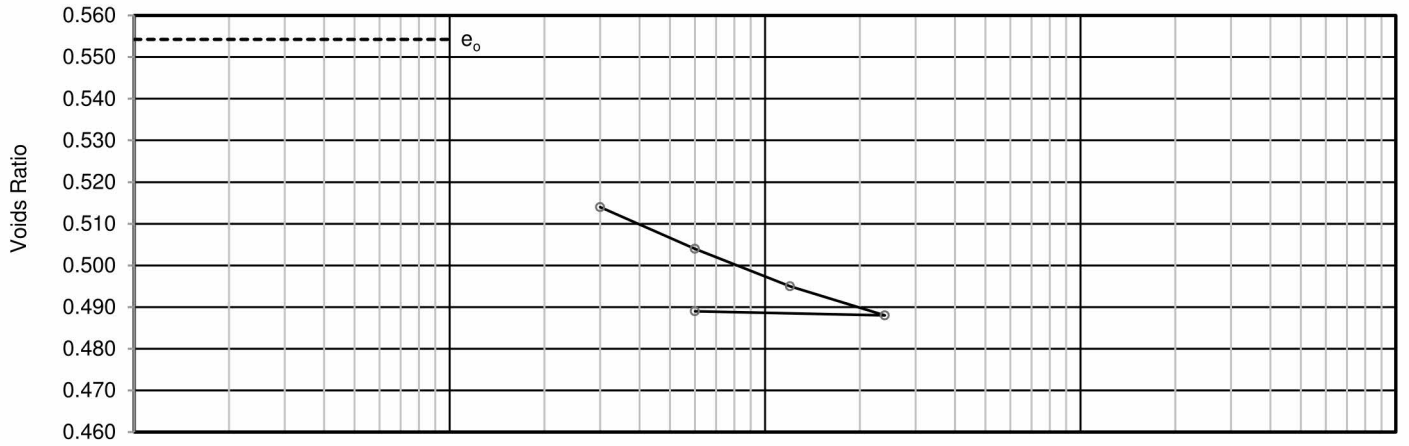
Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 28/05/2021  
Date Received: 09/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton  
*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

### Test Results:

Laboratory Reference: 1906690  
Hole No.: HYDCP27  
Sample Reference: Not Given  
Sample Description: Yellowish brown silty CLAY

Depth Top [m]: 1.20  
Depth Base [m]: 1.65  
Sample Type: U



Applied Pressure kPa	Voids ratio	Mv m2/MN	Cv (t50, log) m2/yr	Cv (t90, root) m2/yr	Csec
0	0.554	-	-	-	-
30	0.514	0.87	3.6	2.7	0.00062
60	0.504	0.22	9.5	9.7	0.00061
120	0.495	0.1	17	18	0.00064
240	0.488	0.035	32	35	0.00078
60	0.489	0.00087			

Preparation

Index tests

Orientation of the sample 

Vertical
----------

Particle density 

assumed	2.65
---------	------

 Mg/m3

Liquid limit 

N/A
-----

 %

Plastic limit 

N/A
-----

 %

Specimen details

	Initial	Final	
Diameter	50.00	-	mm
Height	20.00	19.16	mm
Moisture Content	22	18	%
Bulk density	2.08	2.10	Mg/m3
Dry density	1.71	1.78	Mg/m3
Voids Ratio	0.554	0.489	
Saturation	104	99	%
Avg. temperature for test	22.0		°C
Swelling Pressure	Not measured		kPa
Settlement on saturation			%

Note: Cv corrected to 20°C

Remarks:

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Signed: [Signature] Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd



# TEST CERTIFICATE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

## One Dimensional Consolidation Test

Tested in Accordance with: BS 1377-5: 1990: Clause 3

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

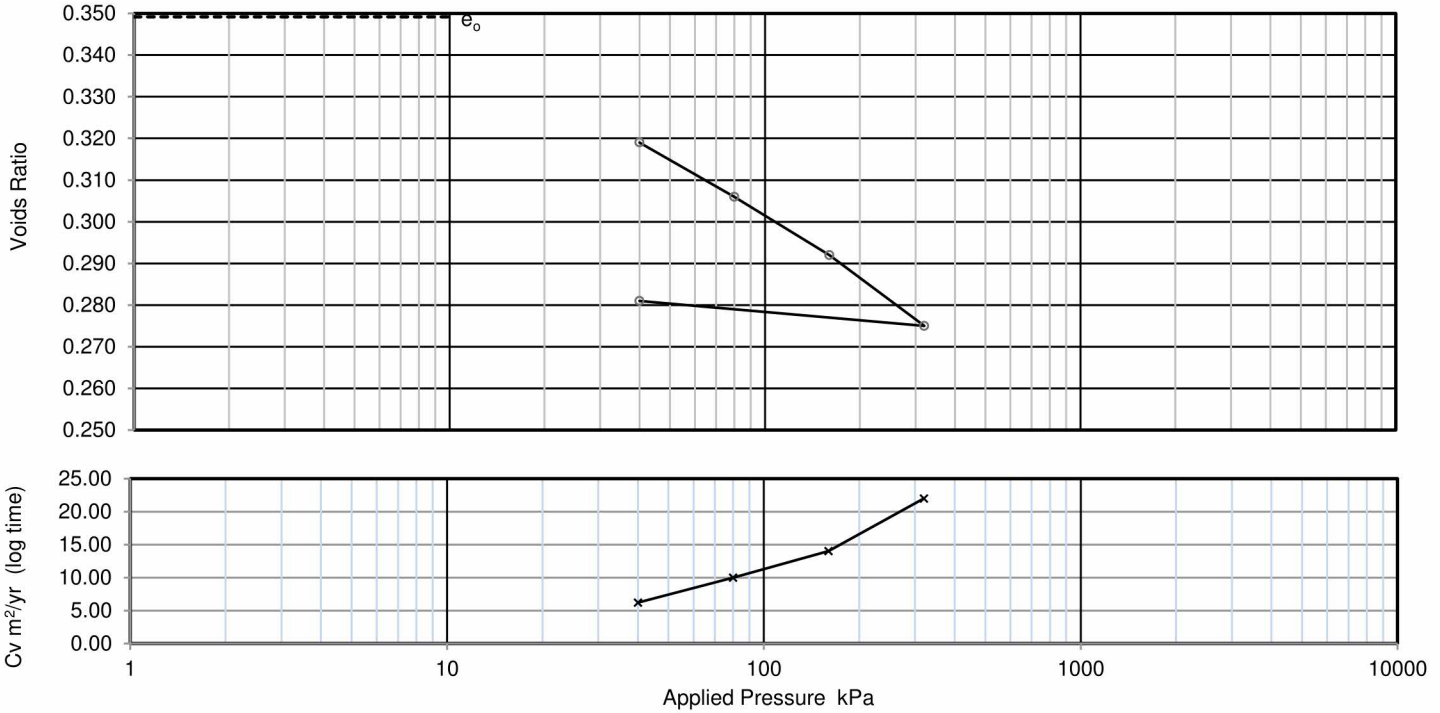
Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 27/05/2021  
Date Received: 09/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton  
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1906694  
Hole No.: HYDCP28  
Sample Reference: Not Given  
Sample Description: Brown gravelly CLAY

Depth Top [m]: 2.00  
Depth Base [m]: 2.45  
Sample Type: U



Applied Pressure kPa	Voids ratio	$M_v$ m <sup>2</sup> /MN	$C_v$ (t50, log) m <sup>2</sup> /yr	$C_v$ (t90, root) m <sup>2</sup> /yr	Csec
0	0.349	-	-	-	-
40	0.319	0.57	6.2	6.2	0.00062
80	0.306	0.23	10	11	0.00055
160	0.292	0.14	14	15	0.00064
320	0.275	0.081	22	23	0.00062
40	0.281	0.015			

Preparation

Index tests  
Orientation of the sample  
Particle density  
Liquid limit  
Plastic limit

Vertical	
assumed	2.65
N/A	
N/A	

Mg/m3  
%  
%

Specimen details

Diameter  
Height  
Moisture Content  
Bulk density  
Dry density  
Voids Ratio  
Saturation  
Avg. temperature for test  
Swelling Pressure  
Settlement on saturation

Initial	Final	
50.05	-	mm
20.09	19.07	mm
12	13	%
2.20	2.33	Mg/m3
1.96	2.07	Mg/m3
0.349	0.281	
90	118	%
22.0		°C
Not measured		kPa
		%

Note:  $C_v$  corrected to 20°C

Remarks: Specimen contains GRAVEL particle

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Consolidated Undrained Triaxial Compression Test with Measurement of Pore Pressure

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with:  
BS 1377-8: 1990: Clauses 1 to 7

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 26/05/2021  
Date Received: 09/06/2021  
Date Tested: 27/07/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

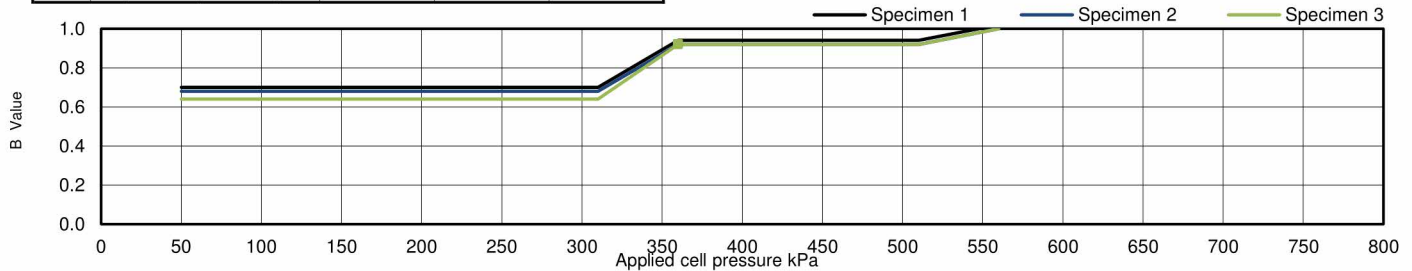
Laboratory Reference: 1906696  
Hole No.: HYDCP31  
Sample Reference: Not Given  
Sample Description: Brown slightly sandy CLAY

Depth Top [m]: 2.00  
Depth Base [m]: 2.45  
Sample Type: U

Specimen Type/Preparation	UNDISTURBED As BS 1377
---------------------------	------------------------

Specimen Details		1	2	3
Initial	Height mm	74.6	74.6	74.7
	Diameter mm	36.8	36.9	37.0
	Bulk Density Mg/m <sup>3</sup>	2.11	2.11	2.11
	Water Content %	22.8	22.5	20.7
	Dry density Mg/m <sup>3</sup>	1.72	1.73	1.74
	Membrane thickr mm	0.22	0.23	0.23
Final	Bulk Density Mg/m <sup>3</sup>	2.03	2.04	2.07
	Water Content %	22.8	22.7	20.4
	Dry density Mg/m <sup>3</sup>	1.65	1.66	1.72

Saturation Details		1	2	3
Method	Cell Pressure and Back Pressure increased simultaneously			
	Cell Pressure and Back Pressure increased simultaneously			
Cell pressure increments	kPa	50	50	50
Differential Pressure	kPa	10	10	10
Final Cell Pressure	kPa	560	560	560
Final pore water pressure	kPa	551	551	550
Final B Value		1.02	1.00	1.00



Consolidation Details	Specimen No.	1	2	3	
	Drainage Conditions	Radial+1 end	Radial+1 end	Radial+1 end	
	Cell Pressure applied	570	590	629	kPa
	Back Pressure applied	550	550	550	kPa
	Effective Pressure	20	40	80	kPa
	Pore pressure at start of consolidation	560	579	617	kPa
	Pore pressure at end of consolidation	550	551	550	kPa
	Pore pressure dissipation at end of consolidation	96	96	101	%
Consolidation parameters ( see note to BS1377 : pt 8, clause 6.3.4 )	Coefficient of Consolidation	Cvi	N/A	N/A	N/A
	Coefficient of Compressibility	Mvi	0.22	0.39	0.34
	Coefficient of Permeability ( calculated )	kvi	N/A	N/A	N/A



Note: All symbols used above are defined in BS 1377

Remarks: Deviator stresses corrected for area change, vertical side drains and up to 0.22 mm thick rubber membrane/Consolidation 1 - swelling; Bedding correction applied

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Consolidated Undrained Triaxial Compression Test with Measurement of Pore Pressure

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with:  
BS 1377-8: 1990: Clauses 1 to 7

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 26/05/2021  
Date Received: 09/06/2021  
Date Tested: 27/07/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

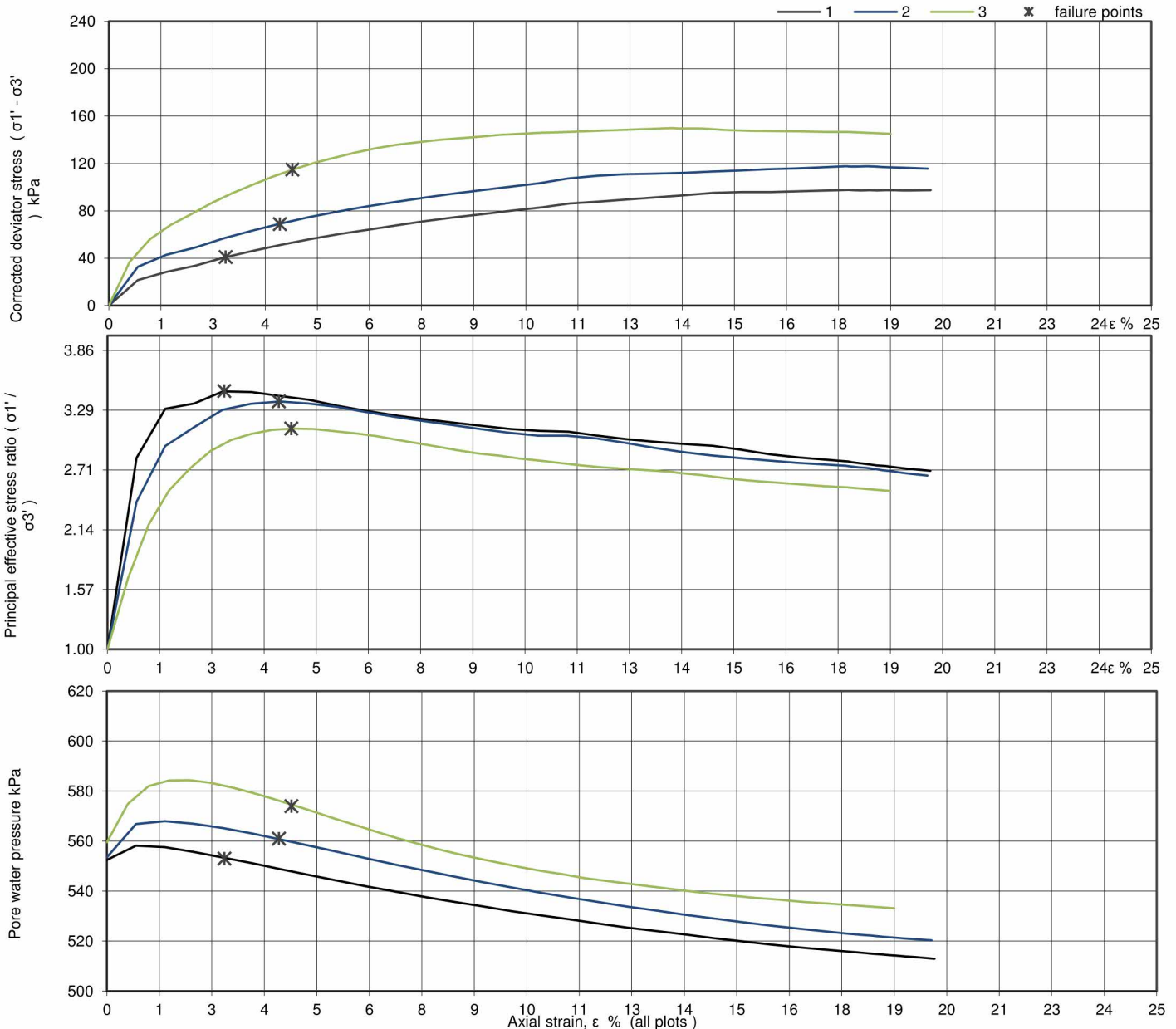
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1906696  
Hole No.: HYDCP31  
Sample Reference: Not Given  
Sample Description: Brown slightly sandy CLAY

Depth Top [m]: 2.00  
Depth Base [m]: 2.45  
Sample Type: U

### Compression stages - graphical data



Note: All symbols used above are defined in BS 1377

Remarks: Deviator stresses corrected for area change, vertical side drains and up to 0.22 mm thick rubber membrane/Consolidation 1 - swelling; Bedding correction applied

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Consolidated Undrained Triaxial Compression Test with Measurement of Pore Pressure

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Tested in Accordance with:  
BS 1377-8: 1990: Clauses 1 to 7

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 26/05/2021  
Date Received: 09/06/2021  
Date Tested: 27/07/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1906696  
Hole No.: HYDCP31  
Sample Reference: Not Given  
Sample Description: Brown slightly sandy CLAY

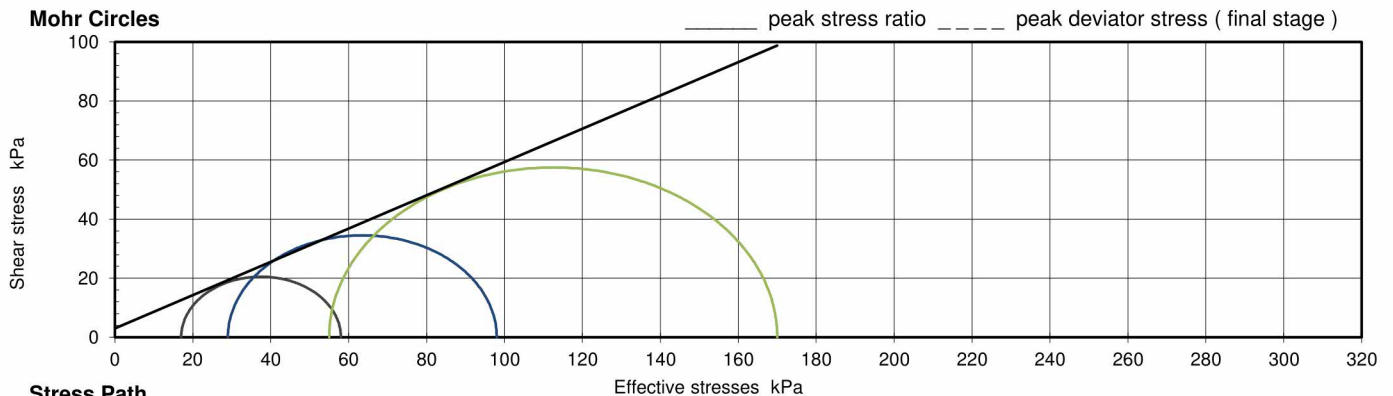
Depth Top [m]: 2.00  
Depth Base [m]: 2.45  
Sample Type: U

## Compression stages - table of results and interpretation

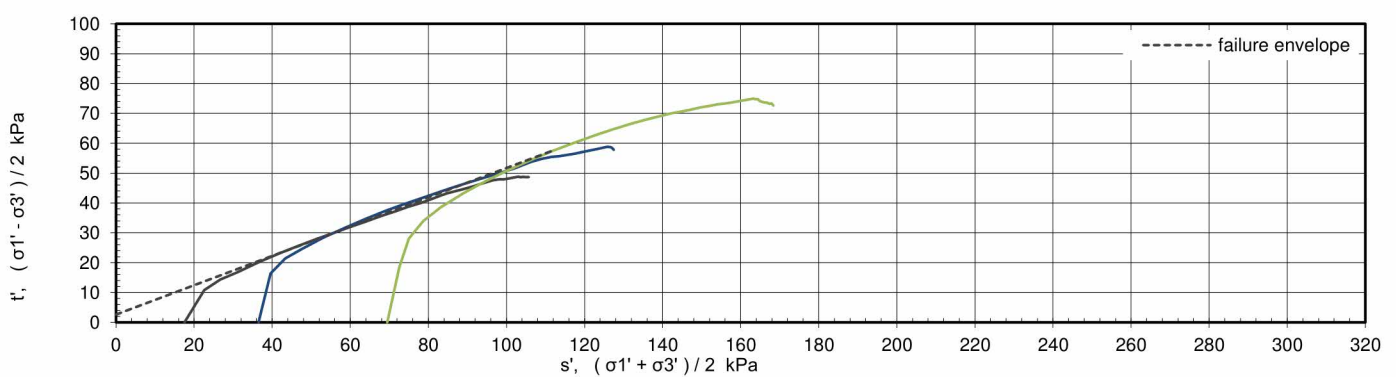
Failure criterion : Maximum effective principal stress ratio

Specimen	Cell pressure kPa	Initial pwp kPa	Initial $\sigma_3'$ kPa	Machine speed mm/min	Axial strain, $\epsilon_f$ %	$(\sigma_1' / \sigma_3')$ f	$(\sigma_1' - \sigma_3')$ f kPa	uf kPa	$\sigma_3' f$ kPa	$\sigma_1' f$ kPa	Af
1	570	550	20	0.03000	2.8	3.47	41	553	17	57	0.02
2	590	551	40	0.03000	4.1	3.37	69	561	29	99	0.10
3	629	550	80	0.03000	4.4	3.11	115	574	55	170	0.13

### Mohr Circles



### Stress Path



Shear Strength Parameters	Linear regression	Manual re-assessment
	At Maximum effective principal s	c' kPa
	$\phi'$ degrees	-

### Specimen Remarks

### Mode of failure



Plastic

Plastic

Plastic

Note: All symbols used above are defined in BS 1377

Remarks: Deviator stresses corrected for area change, vertical side drains and up to 0.22 mm thick rubber membrane/Consolidation 1 - swelling; Bedding correction applied

### Signed:

Szczepan Bialatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Consolidated Undrained Triaxial Compression Test with Measurement of Pore Pressure

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with:  
BS 1377-8: 1990: Clauses 1 to 7

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 26/05/2021  
Date Received: 09/06/2021  
Date Tested: 29/07/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

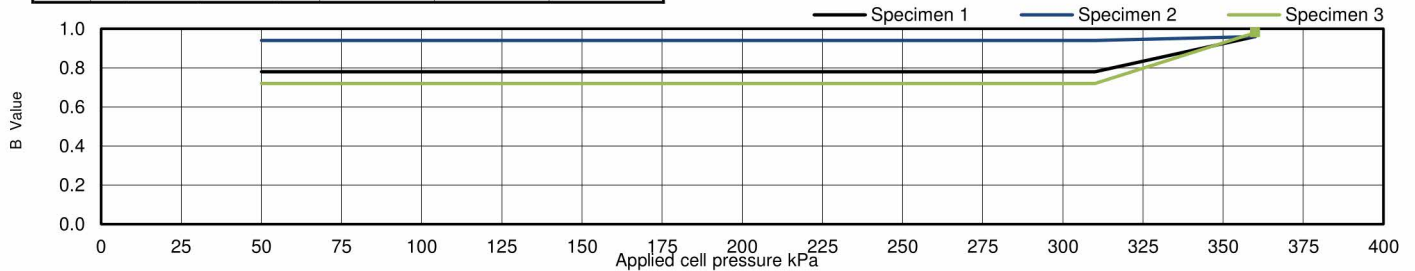
Laboratory Reference: 1906697  
Hole No.: HYDCP31  
Sample Reference: Not Given  
Sample Description: Brown slightly gravelly sandy CLAY

Depth Top [m]: 4.00  
Depth Base [m]: 4.45  
Sample Type: U

Specimen Type/Preparation	UNDISTURBED As BS 1377
---------------------------	------------------------

Specimen Details		1	2	3
Initial	Height mm	73.9	74.0	74.1
	Diameter mm	37.0	37.1	37.0
	Bulk Density Mg/m <sup>3</sup>	2.31	2.31	2.31
	Water Content %	11.9	11.7	10.6
	Dry density Mg/m <sup>3</sup>	2.06	2.06	2.08
	Membrane thickr mm	0.22	0.22	0.22
Final	Bulk Density Mg/m <sup>3</sup>	2.25	2.29	2.29
	Water Content %	12.2	11.0	10.5
	Dry density Mg/m <sup>3</sup>	2.00	2.06	2.07

Saturation Details		1	2	3
Method	Cell Pressure and Back Pressure increased simultaneously			
	Cell Pressure and Back Pressure increased simultaneously			
Cell pressure increments	kPa	50	50	50
Differential Pressure	kPa	10	10	10
Final Cell Pressure	kPa	360	360	360
Final pore water pressure	kPa	348	348	348
Final B Value		0.96	0.96	0.98



Consolidation Details	Specimen No.		1	2	3		
	Drainage Conditions		Radial+1 end	Radial+1 end	Radial+1 end		
	Cell Pressure applied		390	430	510	kPa	
	Back Pressure applied		350	350	350	kPa	
	Effective Pressure		40	80	160	kPa	
	Pore pressure at start of consolidation		378	417	497	kPa	
	Pore pressure at end of consolidation		349	349	349	kPa	
	Pore pressure dissipation at end of consolidation		102	101	100	%	
Consolidation parameters ( see note to BS1377 : pt 8, clause 6.3.4 )	Coefficient of Consolidation		Cvi	N/A	N/A	N/A	m <sup>2</sup> /year
	Coefficient of Compressibility		Mvi	0.48	0.28	0.23	m <sup>2</sup> /MN
	Coefficient of Permeability ( calculated )		kvi	N/A	N/A	N/A	m/s



Note: All symbols used above are defined in BS 1377

Remarks: Deviator stresses corrected for area change, vertical side drains and up to 0.22 mm thick rubber membrane/Bedding correction applied; Unable to interpret Mohr Circles;

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Consolidated Undrained Triaxial Compression Test with Measurement of Pore Pressure

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with:  
BS 1377-8: 1990: Clauses 1 to 7

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 26/05/2021  
Date Received: 09/06/2021  
Date Tested: 29/07/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

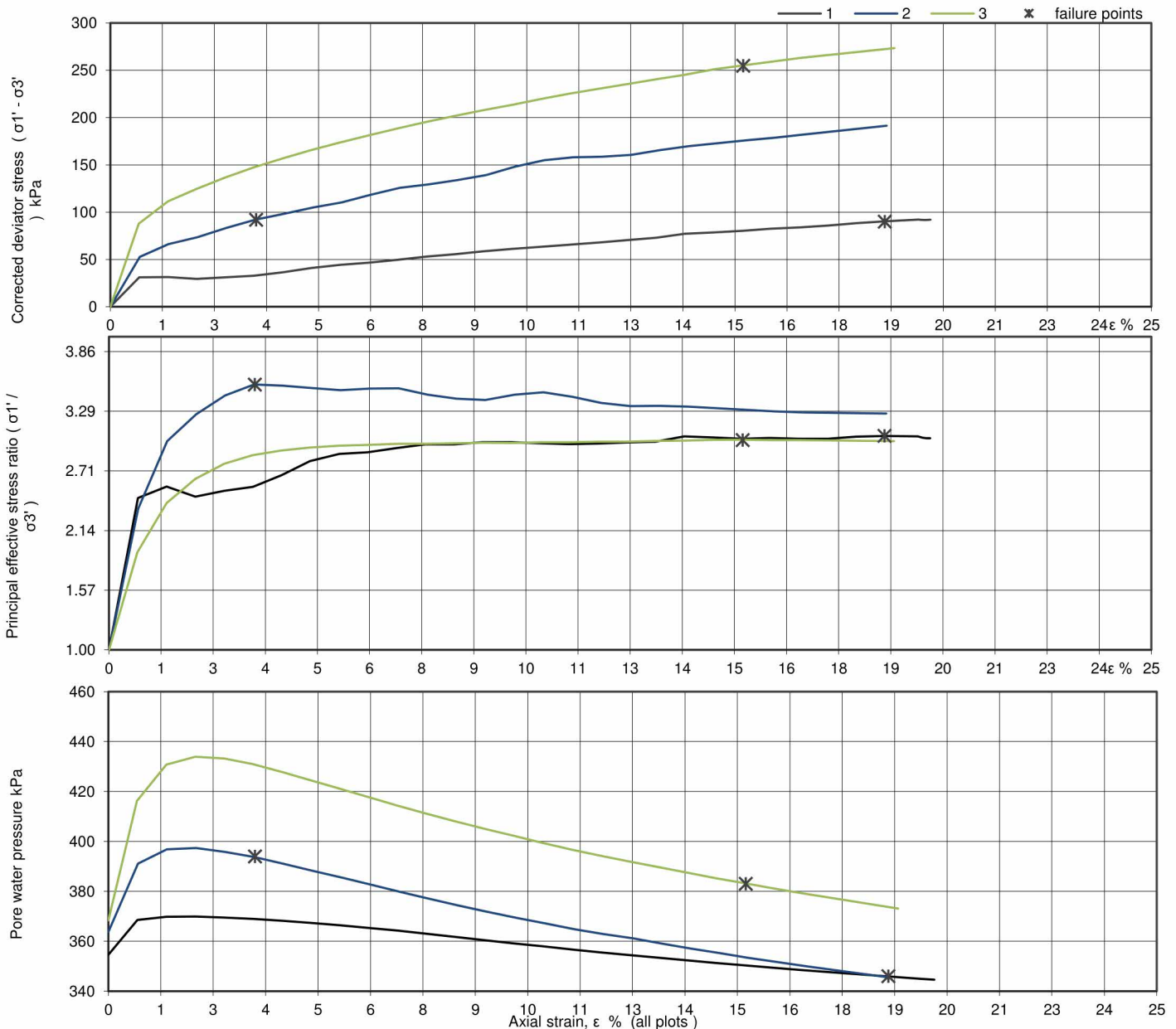
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1906697  
Hole No.: HYDCP31  
Sample Reference: Not Given  
Sample Description: Brown slightly gravelly sandy CLAY

Depth Top [m]: 4.00  
Depth Base [m]: 4.45  
Sample Type: U

### Compression stages - graphical data



Note: All symbols used above are defined in BS 1377

Remarks: Deviator stresses corrected for area change, vertical side drains and up to 0.22 mm thick rubber membrane/Bedding correction applied; Unable to interpret Mohr Circles;

Signed:



Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Consolidated Undrained Triaxial Compression Test with Measurement of Pore Pressure

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with:  
BS 1377-8: 1990: Clauses 1 to 7

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-81767  
Date Sampled: 26/05/2021  
Date Received: 09/06/2021  
Date Tested: 29/07/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1906697  
Hole No.: HYDCP31  
Sample Reference: Not Given  
Sample Description: Brown slightly gravelly sandy CLAY

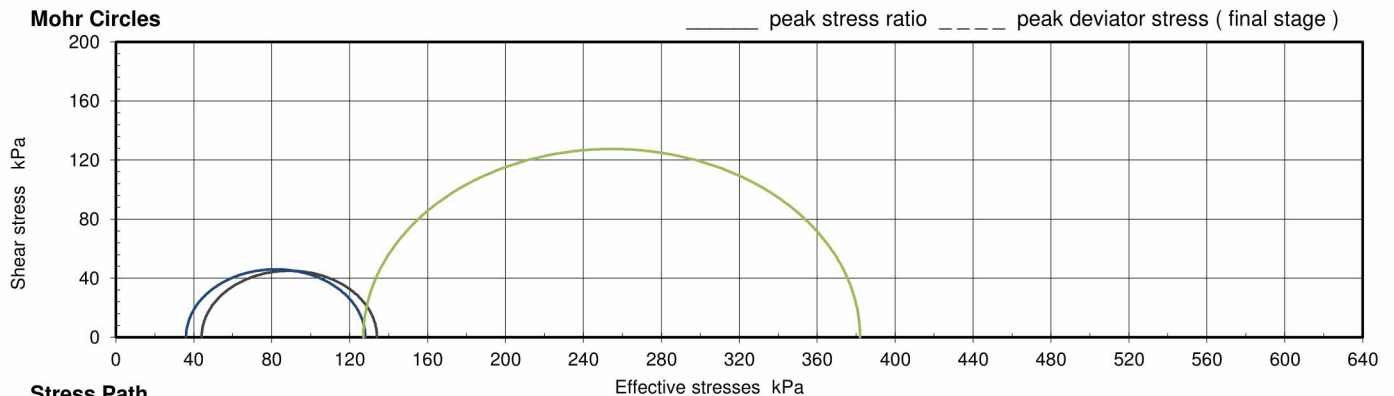
Depth Top [m]: 4.00  
Depth Base [m]: 4.45  
Sample Type: U

## Compression stages - table of results and interpretation

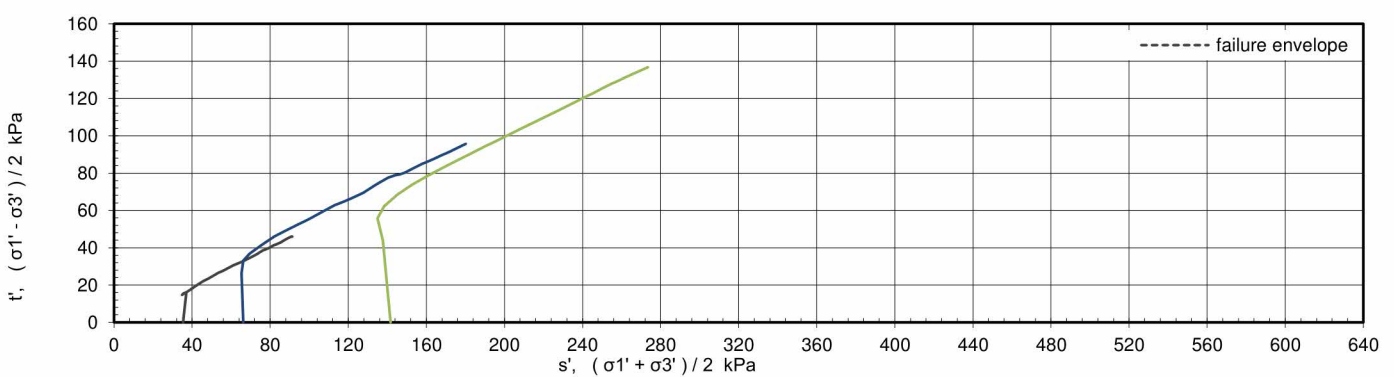
Failure criterion : Maximum effective principal stress ratio

Specimen	Cell pressure kPa	Initial pwp kPa	Initial $\sigma_3'$ kPa	Machine speed mm/min	Axial strain, $\epsilon_f$ %	$(\sigma_1' / \sigma_3')$ f	$(\sigma_1' - \sigma_3')$ f kPa	uf kPa	$\sigma_3' f$ kPa	$\sigma_1' f$ kPa	Af
1	390	349	40	0.03000	18.6	3.05	90	346	44	135	-0.10
2	430	349	80	0.03000	3.5	3.54	92	394	36	128	0.32
3	510	349	160	0.03000	15.2	3.01	255	383	127	382	0.06

### Mohr Circles



### Stress Path



Shear Strength Parameters	Linear regression	Manual re-assessment
	At Maximum effective principal s	c' kPa
	$\phi'$ degrees	-

### Specimen Remarks

### Mode of failure



Note: All symbols used above are defined in BS 1377

Remarks: Deviator stresses corrected for area change, vertical side drains and up to 0.22 mm thick rubber membrane/Bedding correction applied; Unable to interpret Mohr Circles;

### Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.





**Jason Bradley**  
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## **Analytical Report Number : 21-81821**

<b>Project / Site name:</b>	Wingates Industrial Estate, Bolton	<b>Samples received on:</b>	09/06/2021
<b>Your job number:</b>	C-15592-C	<b>Samples instructed on/ Analysis started on:</b>	17/06/2021
<b>Your order number:</b>	PO07757	<b>Analysis completed by:</b>	06/07/2021
<b>Report Issue Number:</b>	1	<b>Report issued on:</b>	06/07/2021
<b>Samples Analysed:</b>	16 soil samples		

**Signed:** ✓

Agnieszka Czerwińska  
Technical Reviewer (Reporting Team)  
**For & on behalf of i2 Analytical Ltd.**

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

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.  
Application of uncertainty of measurement would provide a range within which the true result lies.  
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-81821  
 Project / Site name: Wingates Industrial Estate, Bolton

Lab Sample Number				1906999	1907000	1907001	1907002	1907003
Sample Reference				HYDCP02	HYDCP04	HYDCP06	HYDCP06	HYDCP06
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.60	0.50-1.00	0.50-1.20	2.80	6.50
Date Sampled				25/05/2021	Deviating	04/06/2021	04/06/2021	04/06/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)								
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	19	13	11	12
Total mass of sample received	kg	0.001	NONE	0.50	0.50	0.50	0.50	0.50

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	6.9	7.3	6.1	6.2	8.3
Total Sulphate as SO4	mg/kg	50	MCERTS	220	270	490	250	410
Total Sulphate as SO4	%	0.005	MCERTS	0.022	0.027	0.049	0.025	0.041
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0051	0.025	0.040	0.019	0.090
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	5.1	24.6	40.3	19.3	89.5
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	7.6	8.8	3.2	4.8	7.5
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	3.8	4.4	1.6	2.4	3.7
Total Sulphur	mg/kg	50	MCERTS	130	200	270	360	950
Total Sulphur	%	0.005	MCERTS	0.013	0.020	0.027	0.036	0.095
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	< 0.5	< 0.5	< 0.5	< 0.5	1.0
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.10
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	26	26	27	2.4	3.6
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	13	13	14	< 5.0	< 5.0

#### Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	< 5.0	< 5.0	5.2	< 5.0	11
Magnesium (leachate equivalent)	mg/l	2.5	NONE	< 2.5	< 2.5	2.6	< 2.5	5.3

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

Analytical Report Number: 21-81821

Project / Site name: Wingates Industrial Estate, Bolton

Lab Sample Number				1907004	1907005	1907006	1907007	1907008
Sample Reference				HYDCP12	HYDCP12	HYDCP13	HYDCP14	HYDCP16
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.50	6.60	4.00-4.50	2.60	5.00-5.54
Date Sampled				07/06/2021	07/06/2021	02/06/2021	10/06/2021	04/06/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)								
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	11	10	10	11	5.5
Total mass of sample received	kg	0.001	NONE	0.50	0.50	0.50	0.50	0.50

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.0	8.3	7.5	6.1	6.8
Total Sulphate as SO4	mg/kg	50	MCERTS	260	490	200	110	480
Total Sulphate as SO4	%	0.005	MCERTS	0.026	0.049	0.020	0.011	0.048
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.042	0.16	0.030	0.017	0.046
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	42.1	156	30.2	16.5	46.4
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	7.2	14	2.2	2.2	5.2
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	3.6	6.8	1.1	1.1	2.6
Total Sulphur	mg/kg	50	MCERTS	1200	2100	560	170	1500
Total Sulphur	%	0.005	MCERTS	0.121	0.212	0.056	0.017	0.152
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	< 0.5	1.1	< 0.5	< 0.5	< 0.5
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	< 0.05	0.11	< 0.05	< 0.05	< 0.05
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	2.2	5.6	7.2	5.0	6.6
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

#### Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	8.6	20	9.4	11	13
Magnesium (leachate equivalent)	mg/l	2.5	NONE	4.3	10	4.7	5.6	6.7

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

Analytical Report Number: 21-81821

Project / Site name: Wingates Industrial Estate, Bolton

Lab Sample Number				1907009	1907010	1907011	1907012	1907013
Sample Reference				HYDCP19	HYDCP22	HYDCP24	HYDCP27	HYDCP31
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.70	2.00-2.45	2.00-2.45	8.00-8.45	5.00-5.45
Date Sampled				01/06/2021	01/06/2021	27/05/2021	28/05/2021	26/05/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)								
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	9.8	15	11	2.5	8.8
Total mass of sample received	kg	0.001	NONE	0.50	0.50	0.50	0.50	0.50

#### General Inorganics

	pH Units	N/A	MCERTS	5.9	7.1	8.3	8.2	8.5
pH - Automated								
Total Sulphate as SO4	mg/kg	50	MCERTS	300	180	530	340	570
Total Sulphate as SO4	%	0.005	MCERTS	0.030	0.018	0.053	0.034	0.057
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.045	0.020	0.13	0.11	0.11
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	45.4	20.3	133	108	113
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	3.8	2.8	6.5	3.0	3.4
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	1.9	1.4	3.3	1.5	1.7
Total Sulphur	mg/kg	50	MCERTS	170	120	1100	3600	1300
Total Sulphur	%	0.005	MCERTS	0.017	0.012	0.115	0.357	0.129
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	< 0.5	< 0.5	0.8	< 0.5	< 0.5
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	< 0.05	< 0.05	0.08	< 0.05	< 0.05
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	< 2.0	2.2	< 2.0	6.3	5.3
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

#### Heavy Metals / Metalloids

	mg/kg	5	NONE	11	5.3	15	26	18
Magnesium (water soluble)								
Magnesium (leachate equivalent)	mg/l	2.5	NONE	5.2	2.6	7.5	13	9.1

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

Analytical Report Number: 21-81821

Project / Site name: Wingates Industrial Estate, Bolton

Lab Sample Number	1907014			
Sample Reference	HYDCP31			
Sample Number	None Supplied			
Depth (m)	3.00-3.50			
Date Sampled	26/05/2021			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)				
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	13
Total mass of sample received	kg	0.001	NONE	0.50

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.5
Total Sulphate as SO4	mg/kg	50	MCERTS	1100
Total Sulphate as SO4	%	0.005	MCERTS	0.108
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.24
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	244
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	5.9
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	2.9
Total Sulphur	mg/kg	50	MCERTS	1400
Total Sulphur	%	0.005	MCERTS	0.142
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	< 0.5
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	< 0.05
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	3.5
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	< 5.0

#### Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	36
Magnesium (leachate equivalent)	mg/l	2.5	NONE	18

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



Analytical Report Number : 21-81821

Project / Site name: Wingates Industrial Estate, Bolton

\* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1906999	HYDCP02	None Supplied	0.6	Brown clay and sand.
1907000	HYDCP04	None Supplied	0.50-1.00	Brown clay and sand with vegetation.
1907001	HYDCP06	None Supplied	0.50-1.20	Brown clay and sand.
1907002	HYDCP06	None Supplied	2.8	Brown clay and sand.
1907003	HYDCP06	None Supplied	6.5	Brown sandy clay with gravel.
1907004	HYDCP12	None Supplied	3.5	Brown sandy clay with gravel.
1907005	HYDCP12	None Supplied	6.6	Brown sandy clay with gravel.
1907006	HYDCP13	None Supplied	4.00-4.50	Brown sandy clay with gravel.
1907007	HYDCP14	None Supplied	2.6	Brown sandy clay with gravel.
1907008	HYDCP16	None Supplied	5.00-5.54	Brown loam and clay with gravel.
1907009	HYDCP19	None Supplied	1.7	Brown sandy clay with gravel.
1907010	HYDCP22	None Supplied	2.00-2.45	Brown sandy clay with gravel.
1907011	HYDCP24	None Supplied	2.00-2.45	Brown loam and clay with gravel.
1907012	HYDCP27	None Supplied	8.00-8.45	Brown clay.
1907013	HYDCP31	None Supplied	5.00-5.45	Brown clay and sand.
1907014	HYDCP31	None Supplied	3.00-3.50	Brown sandy clay with vegetation and gravel

Analytical Report Number : 21-81821

Project / Site name: Wingates Industrial Estate, Bolton

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In house method.	L082-PL	D	MCERTS
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES.	In-house method based on TRL 447	L038-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Nitrate, water soluble, in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Ammonium as NH4 in soil	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method, 10:1 water extraction.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Total Sulphate in soil as %	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total Sulphur in soil as %	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Water Soluble Nitrate (leachate equivalent)	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS

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

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

## Sample Deviation Report



Analytical Report Number : 21-81821  
Project / Site name: Wingates Industrial Estate, Bolton

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
HYDCP04	None Supplied	S	1907000	a	None Supplied	None Supplied	None Supplied



# TEST CERTIFICATE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

## Liquid and Plastic Limits

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

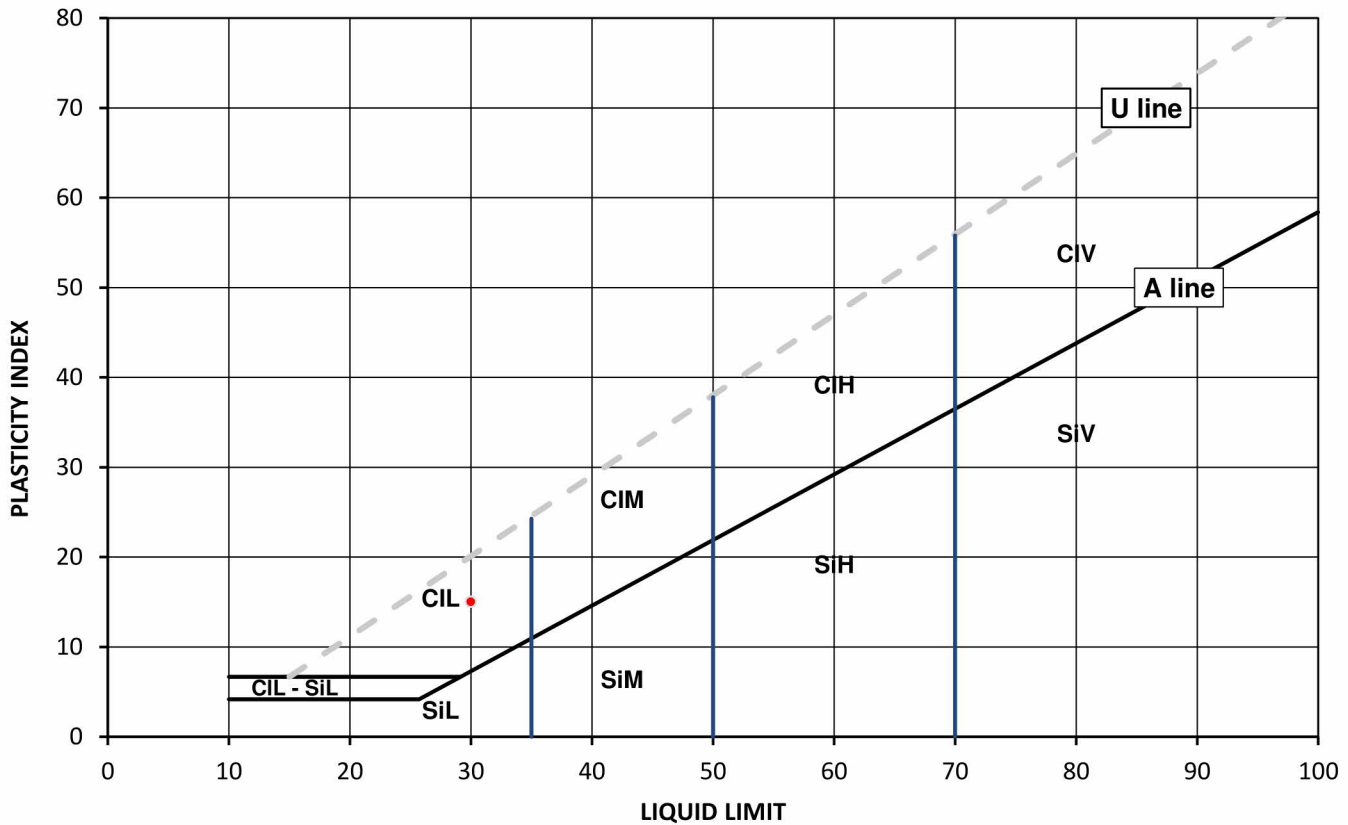
### Test Results:

Laboratory Reference: 1914504  
Hole No.: HYDTP33  
Sample Reference: Not Given  
Soil Description: Brownish grey gravelly very sandy CLAY

Depth Top [m]: 1.70  
Depth Base [m]: 1.90  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
15	30	15	15	76



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	Liquid Limit
Si	Silt	L	Low
		M	Medium
		H	High
		V	Very high
		O	Organic
			append to classification for organic material ( eg CIHO )
			below 35
			35 to 50
			50 to 70
			exceeding 70

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:



Szczepan Białowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.



# TEST CERTIFICATE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

## Liquid and Plastic Limits

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
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Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
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Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

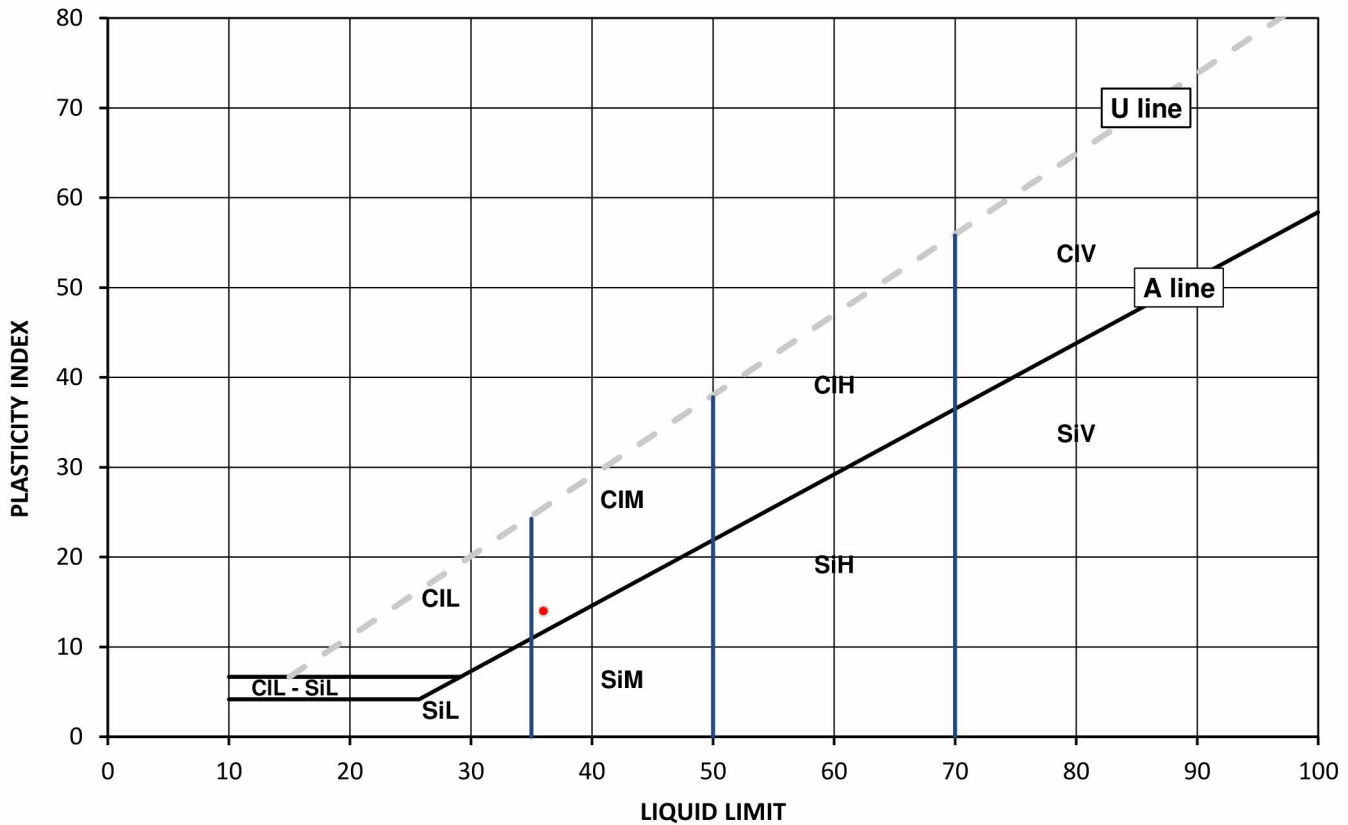
### Test Results:

Laboratory Reference: 1914506  
Hole No.: HYDTP15  
Sample Reference: Not Given  
Soil Description: Brown slightly gravelly very sandy CLAY

Depth Top [m]: 2.50  
Depth Base [m]: 2.70  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
16	36	22	14	87



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Szczepan Białowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



## Liquid and Plastic Limits

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

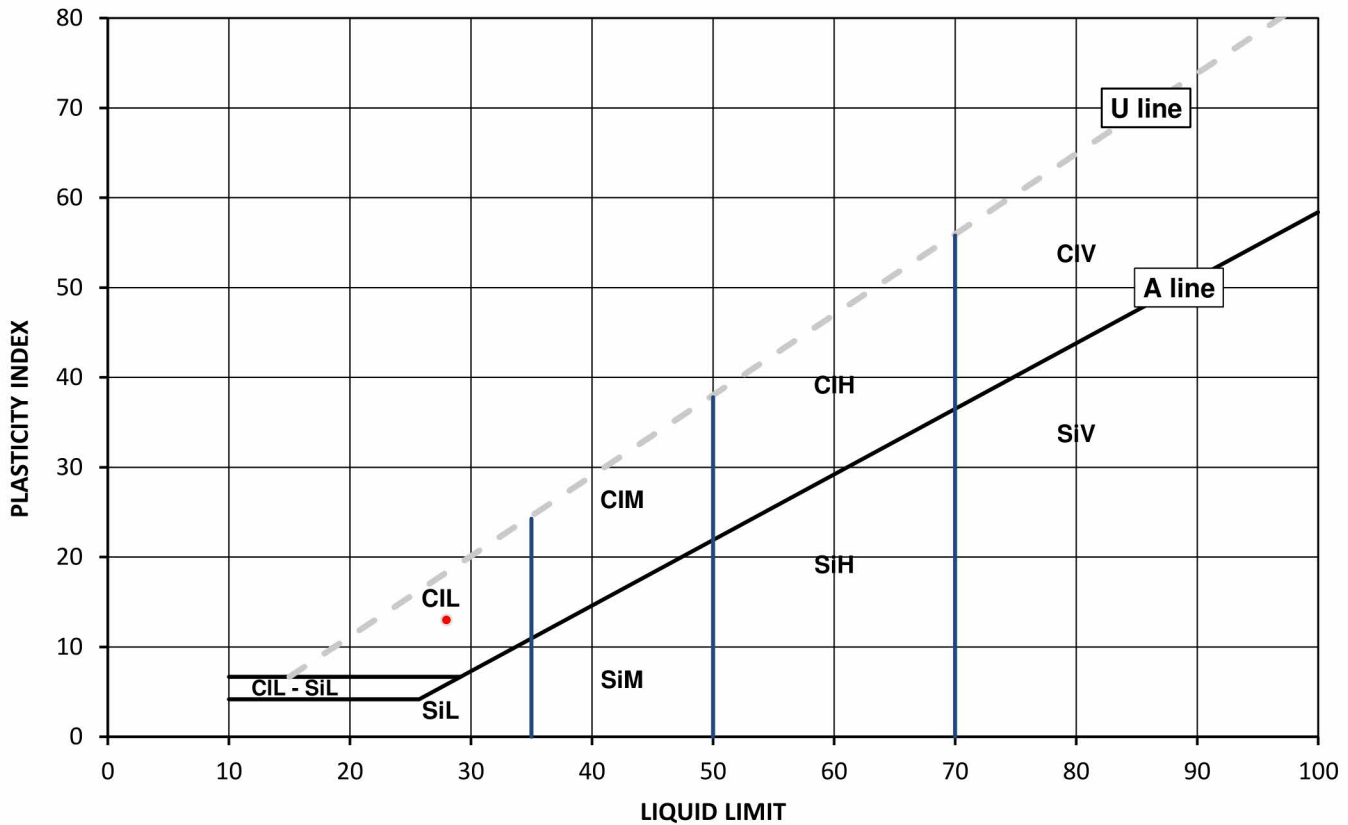
### Test Results:

Laboratory Reference: 1914508  
Hole No.: HYDTP09  
Sample Reference: Not Given  
Soil Description: Greyish brown gravelly very sandy CLAY

Depth Top [m]: 2.50  
Depth Base [m]: 2.70  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
14	28	15	13	82



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:



Szczepan Białowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



## Liquid and Plastic Limits

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

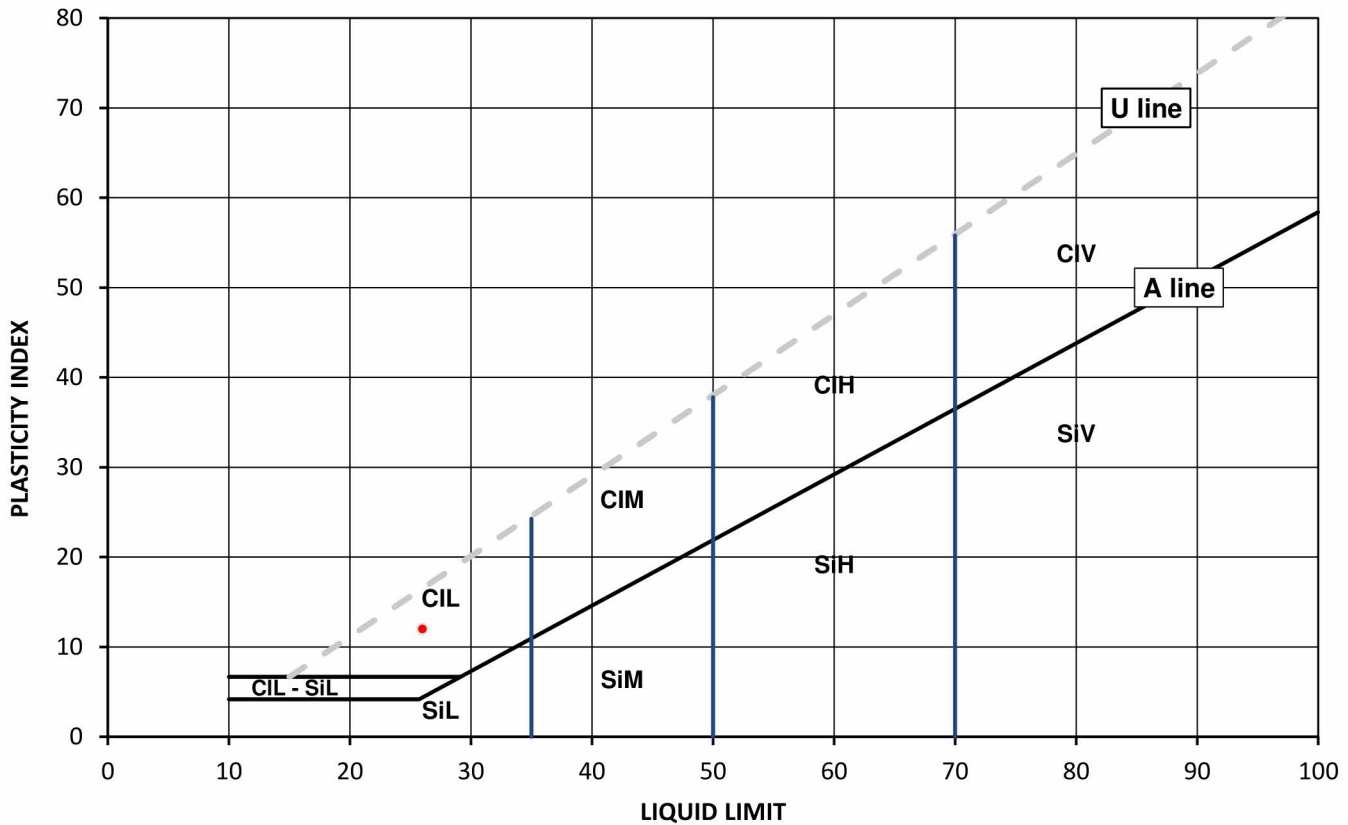
### Test Results:

Laboratory Reference: 1914510  
Hole No.: HYDTP12  
Sample Reference: Not Given  
Soil Description: Brown gravelly very sandy CLAY

Depth Top [m]: 2.00  
Depth Base [m]: 2.20  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
14	26	14	12	79



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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# TEST CERTIFICATE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



## Liquid and Plastic Limits

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

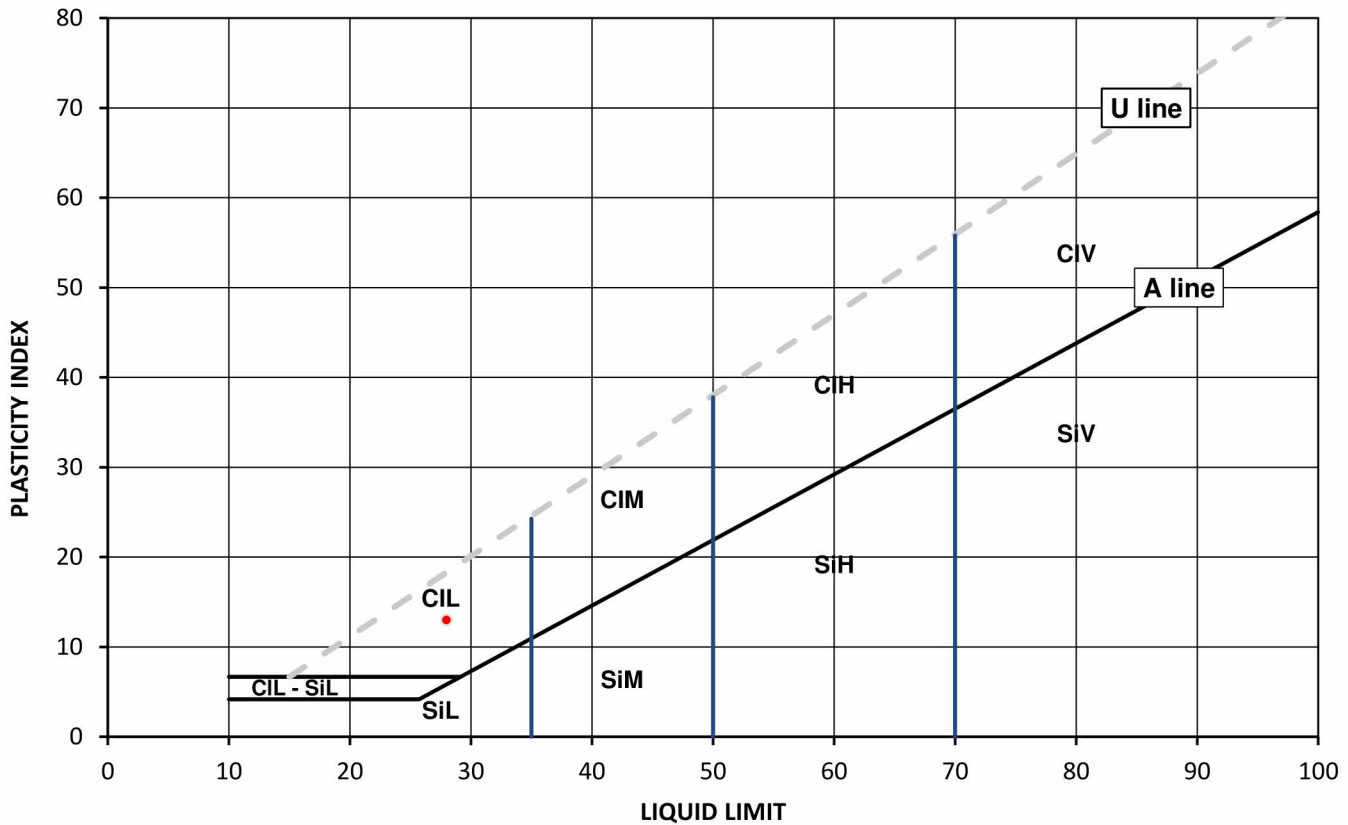
### Test Results:

Laboratory Reference: 1914512  
Hole No.: HYDTP11  
Sample Reference: Not Given  
Soil Description: Brown gravelly very clayey SAND with fragments of root

Depth Top [m]: 0.80  
Depth Base [m]: 1.00  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
14	28	15	13	77



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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# TEST CERTIFICATE

i2 Analytical Ltd  
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Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

## Liquid and Plastic Limits

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

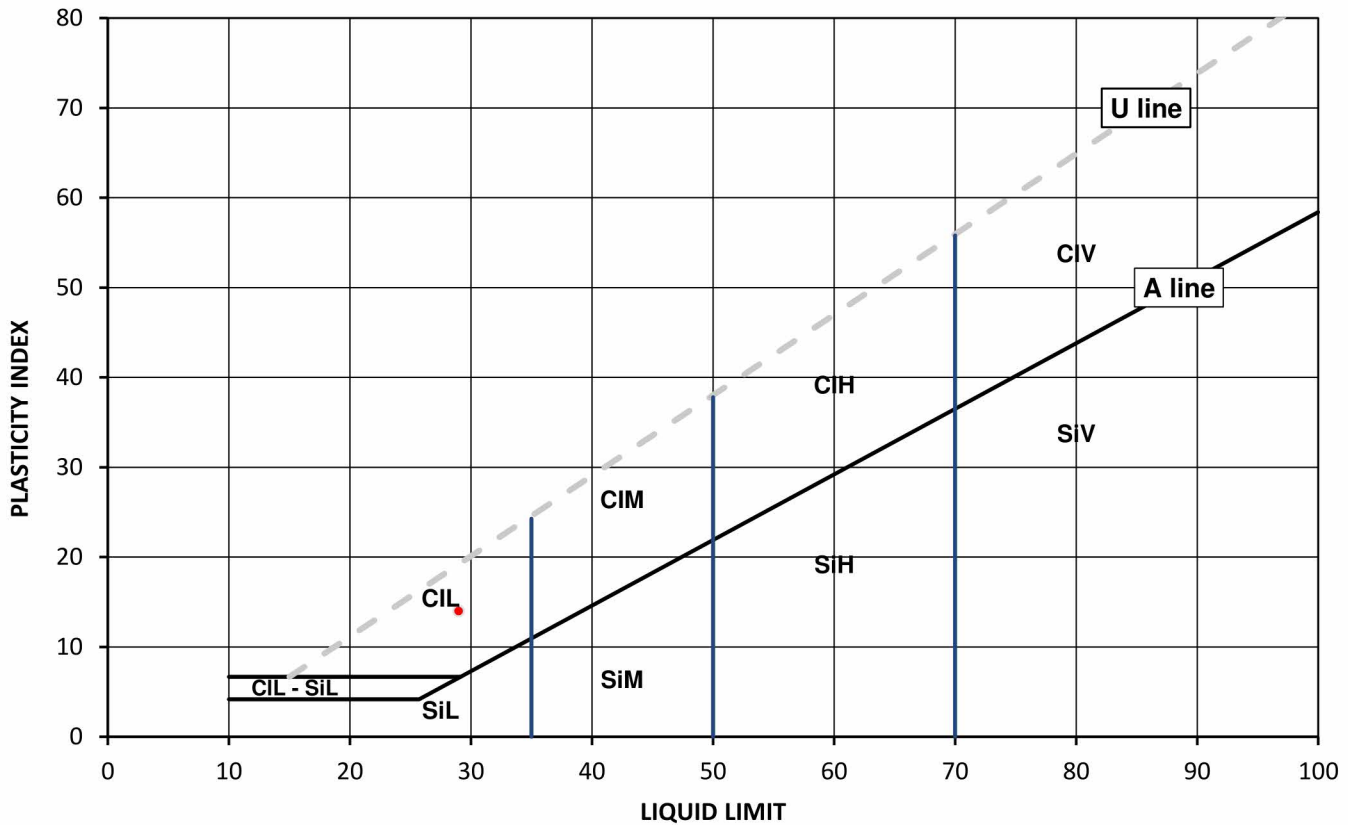
### Test Results:

Laboratory Reference: 1914514  
Hole No.: HYDTP28  
Sample Reference: Not Given  
Soil Description: Grey slightly gravelly very sandy CLAY

Depth Top [m]: 2.00  
Depth Base [m]: 2.40  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
13	29	15	14	89



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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PL Deputy Head of Geotechnical Section  
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# TEST CERTIFICATE

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Brackmills Industrial Estate  
Northampton NN4 7EB



## Liquid and Plastic Limits

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

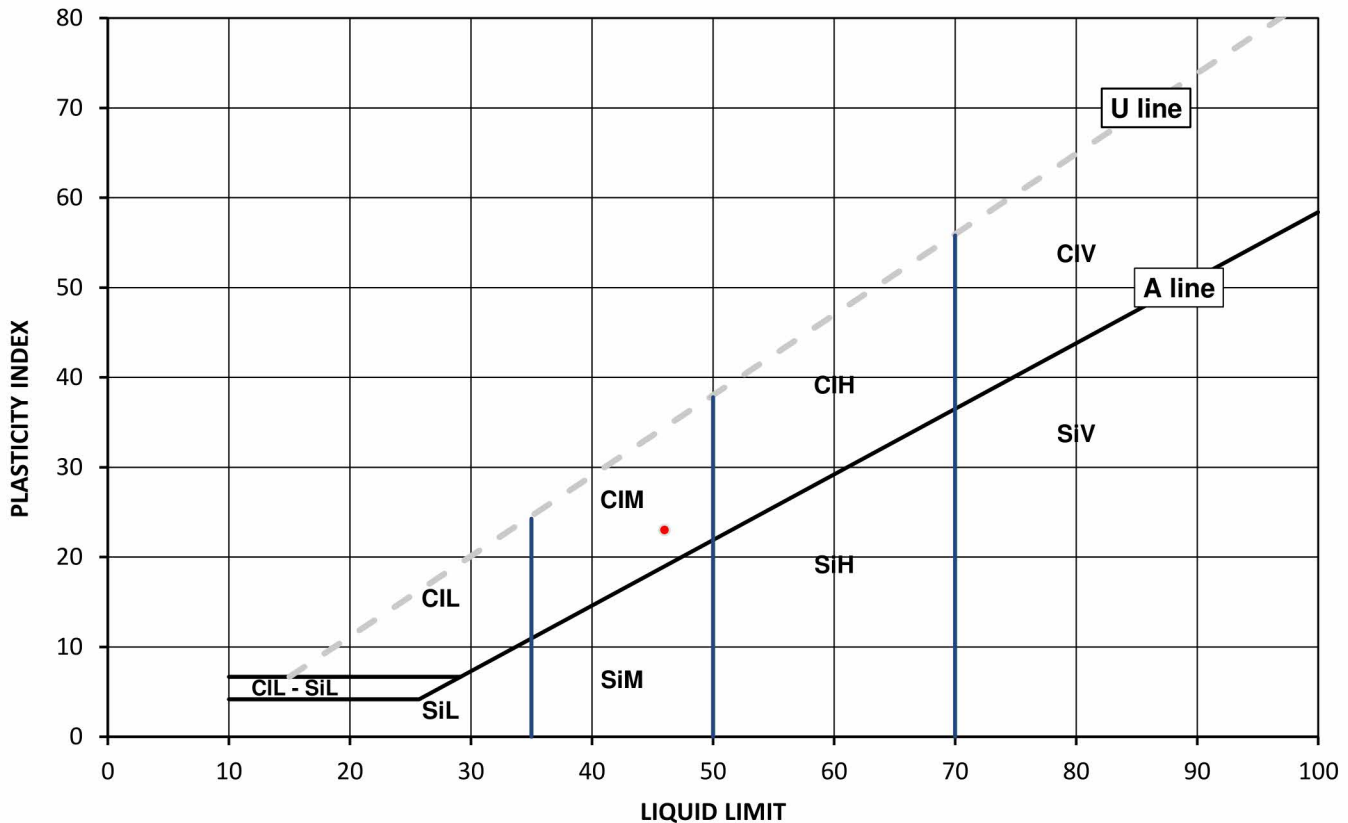
### Test Results:

Laboratory Reference: 1914516  
Hole No.: HYDTP08  
Sample Reference: Not Given  
Soil Description: Greyish brown slightly gravelly slightly sandy CLAY

Depth Top [m]: 0.50  
Depth Base [m]: 0.70  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
27	46	23	23	95



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L Low	50 to 70
	M Medium	exceeding 70
	H High	append to classification for organic material ( eg CIHO )
	V Very high	
	O Organic	

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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# TEST CERTIFICATE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

## Liquid and Plastic Limits

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

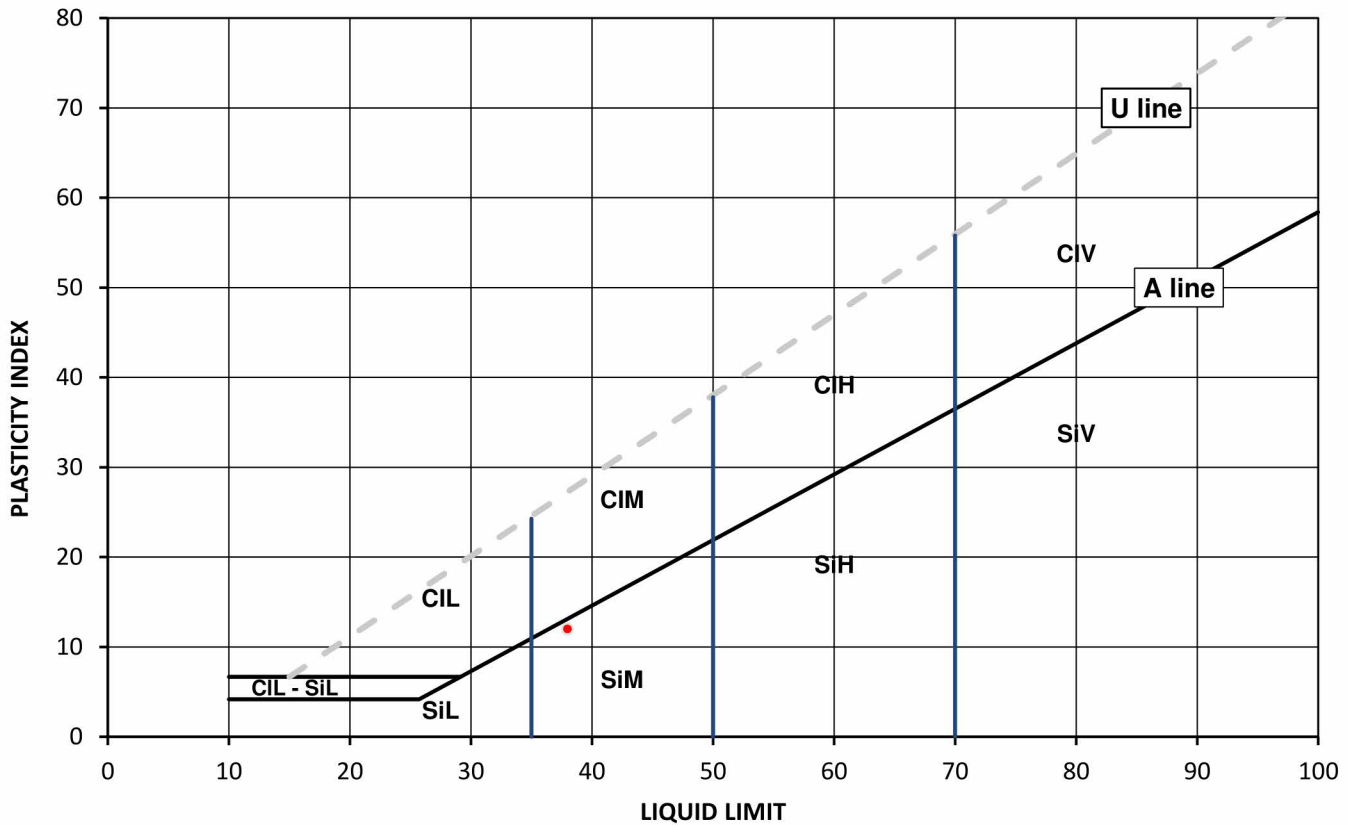
### Test Results:

Laboratory Reference: 1914517  
Hole No.: HYDTP14  
Sample Reference: Not Given  
Soil Description: Brown slightly gravelly sandy silty CLAY

Depth Top [m]: 1.00  
Depth Base [m]: 1.20  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
25	38	26	12	94



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Northampton NN4 7EB



Environmental Science

## Liquid and Plastic Limits

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

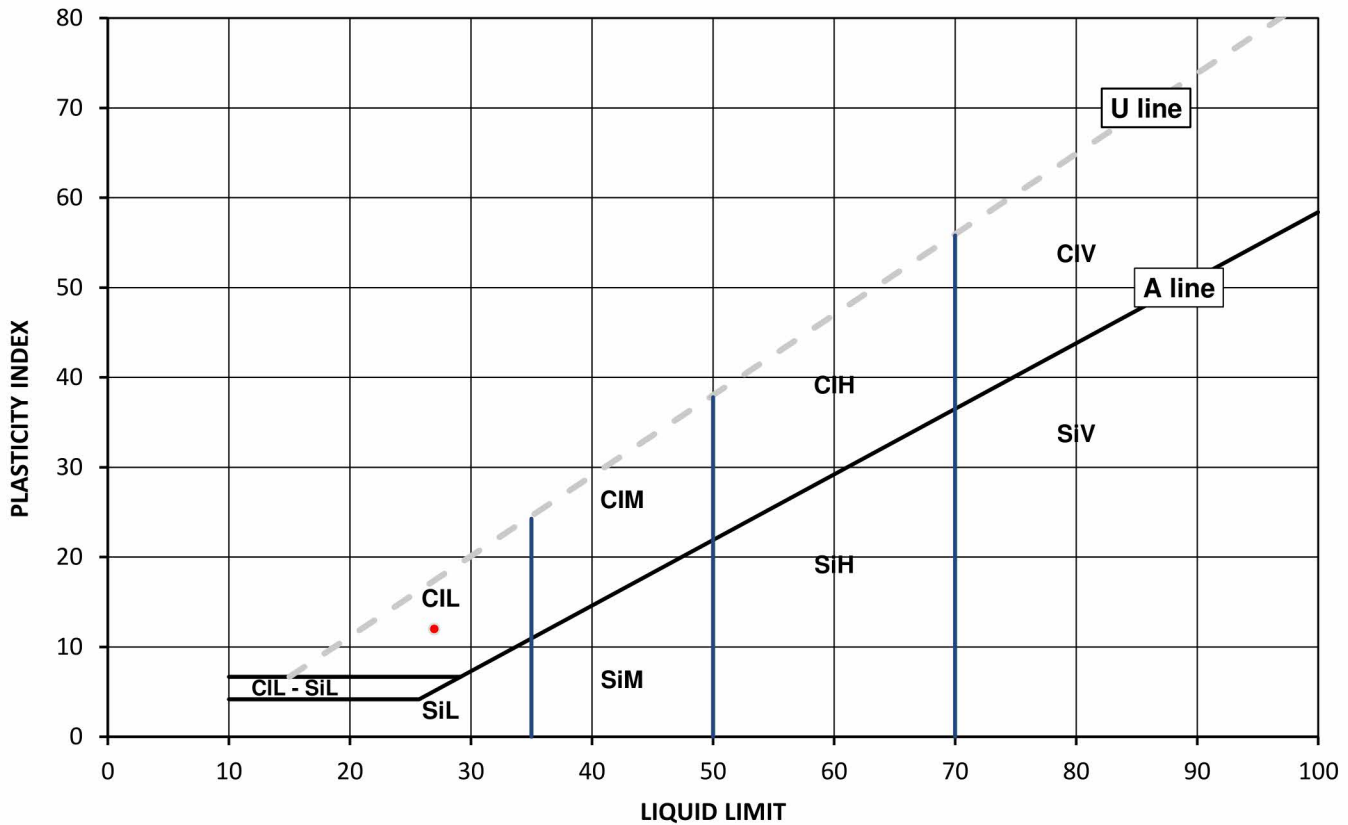
### Test Results:

Laboratory Reference: 1914518  
Hole No.: HYDTP24  
Sample Reference: Not Given  
Soil Description: Brownish grey gravelly very sandy CLAY

Depth Top [m]: 1.00  
Depth Base [m]: 1.20  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [ W ] %	Liquid Limit [ WL ] %	Plastic Limit [ Wp ] %	Plasticity Index [ Ip ] %	% Passing 425µm BS Test Sieve
15	27	15	12	83



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt		M	Medium		35 to 50
			H	High		50 to 70
			V	Very high		exceeding 70
			O	Organic		append to classification for organic material ( eg CIHO )

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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4041

Client: Hydrock Consultants Ltd  
 Client Address: 4 Lakeside, Festival Park,  
 Stoke on Trent, ST1 5RY

Contact: Jason Bradley  
 Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

# SUMMARY REPORT

## Summary of Classification Test Results

Tested in Accordance with:

Moisture Content by BS 1377-2: 1990: Clause 3.2; Water Content by BS EN 17892-1: 2014; Atterberg by BS 1377-2: 1990: Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2: 1990: Clause 8.2

i2 Analytical Ltd  
 Unit 8 Harrowden Road  
 Brackmills Industrial Estate  
 Northampton NN4 7EB



Environmental Science

Client Reference: C-15592-C  
 Job Number: 21-82986  
 Date Sampled: Not Given  
 Date Received: 15/06/2021  
 Date Tested: 30/06/2021  
 Sampled By: Client

### Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Moisture Content [ W ] %	Water Content [ W ] %	Atterberg				Density			Total Porosity# %		
		Reference	Depth Top m	Depth Base m	Type					% Passing 425um	WL %	Wp %	Ip %	bulk Mg/m3	dry Mg/m3	PD Mg/m3			
1914516	HYDTP08	Not Given	0.50	0.70	B	Greyish brown slightly gravelly slightly sandy CLAY	Atterberg 4 Point	27		95	46	23	23						
1914508	HYDTP09	Not Given	2.50	2.70	B	Greyish brown gravelly very sandy CLAY	Atterberg 4 Point	14		82	28	15	13			2.62			
1914512	HYDTP11	Not Given	0.80	1.00	B	Brown gravelly very clayey SAND with fragments of root	Atterberg 4 Point	14		77	28	15	13			2.64			
1914510	HYDTP12	Not Given	2.00	2.20	B	Brown gravelly very sandy CLAY	Atterberg 4 Point	14		79	26	14	12			2.63			
1914517	HYDTP14	Not Given	1.00	1.20	B	Brown slightly gravelly sandy silty CLAY	Atterberg 4 Point	25		94	38	26	12						
1914506	HYDTP15	Not Given	2.50	2.70	B	Brown slightly gravelly very sandy CLAY	Atterberg 4 Point	16		87	36	22	14			2.63			
1914518	HYDTP24	Not Given	1.00	1.20	B	Brownish grey gravelly very sandy CLAY	Atterberg 4 Point	15		83	27	15	12			2.65			
1914514	HYDTP28	Not Given	2.00	2.40	B	Grey slightly gravelly very sandy CLAY	Atterberg 4 Point	13		89	29	15	14			2.68			
1914504	HYDTP33	Not Given	1.70	1.90	B	Brownish grey gravelly very sandy CLAY	Atterberg 4 Point	15		76	30	15	15			2.65			

Note: # Non accredited; NP - Non plastic

Comments:

Signed:



Szczepan Bielatowicz  
 PL Deputy Head of Geotechnical Section  
 for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Tested in Accordance with: BS 1377-2: 1990

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

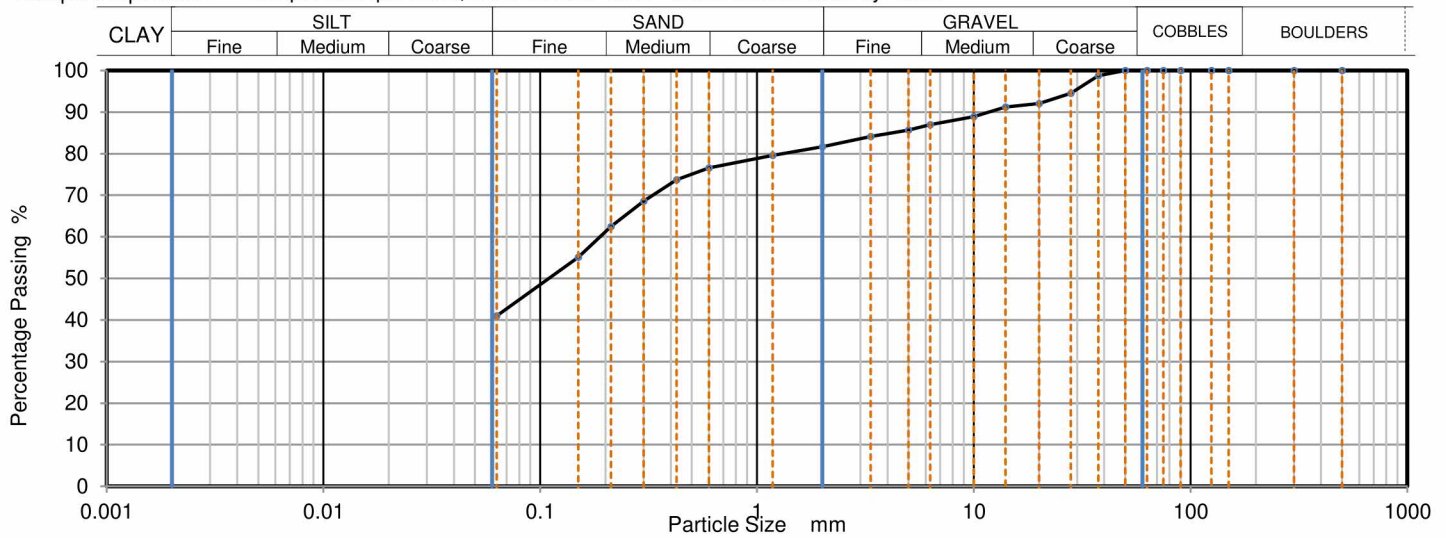
Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1914504  
Hole No.: HYDTP33  
Sample Reference: Not Given  
Sample Description: Brownish grey gravelly very sandy CLAY  
Sample Preparation: Sample was quartered, oven dried at 106.1 °C and broken down by hand.

Depth Top [m]: 1.70  
Depth Base [m]: 1.90  
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	99		
28	95		
20	92		
14	91		
10	89		
6.3	87		
5	86		
3.35	84		
2	82		
1.18	80		
0.6	77		
0.425	74		
0.3	69		
0.212	63		
0.15	55		
0.063	42		

Sample Proportions	% dry mass
Very coarse	0
Gravel	18
Sand	40
Fines <0.063mm	42

Grading Analysis		
D100	mm	50
D60	mm	0.188
D30	mm	
D10	mm	
Uniformity Coefficient		> 3
Curvature Coefficient		

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks:

Signed:



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PL Deputy Head of Geotechnical Section  
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# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
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Northampton NN4 7EB



Tested in Accordance with: BS 1377-2: 1990

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

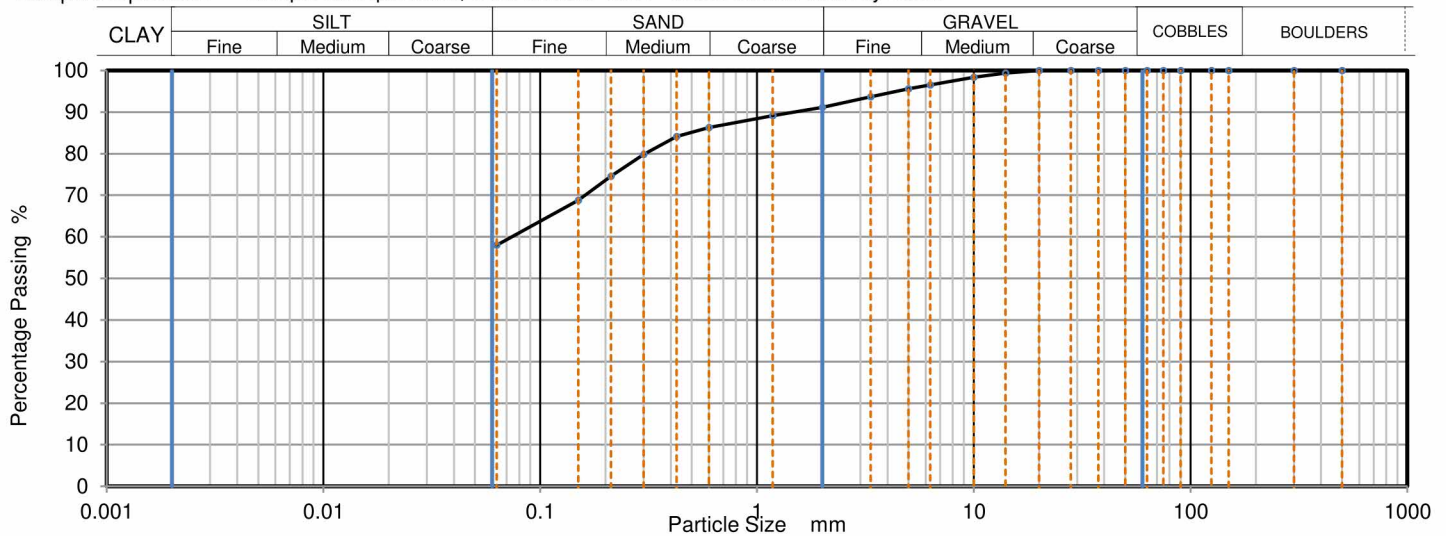
Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1914506  
Hole No.: HYDTP15  
Sample Reference: Not Given  
Sample Description: Brown slightly gravelly very sandy CLAY  
Sample Preparation: Sample was quartered, oven dried at 106.1 °C and broken down by hand.

Depth Top [m]: 2.50  
Depth Base [m]: 2.70  
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	99		
10	98		
6.3	97		
5	96		
3.35	94		
2	91		
1.18	89		
0.6	86		
0.425	84		
0.3	80		
0.212	75		
0.15	69		
0.063	59		

Sample Proportions	% dry mass
Very coarse	0
Gravel	9
Sand	32
Fines <0.063mm	59

Grading Analysis		
D100	mm	20
D60	mm	0.0692
D30	mm	
D10	mm	
Uniformity Coefficient		> 1.1
Curvature Coefficient		

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks:

Signed:



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Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
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Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

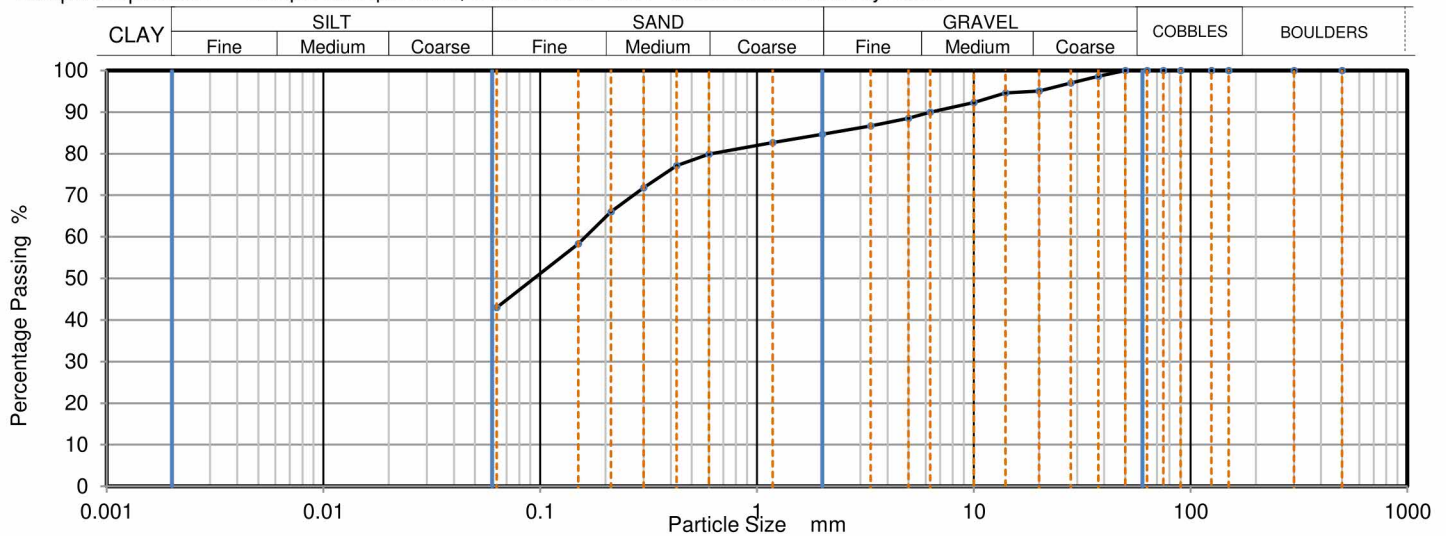
Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1914508  
Hole No.: HYDTP09  
Sample Reference: Not Given  
Sample Description: Greyish brown gravelly very sandy CLAY  
Sample Preparation: Sample was quartered, oven dried at 106.1 °C and broken down by hand.

Depth Top [m]: 2.50  
Depth Base [m]: 2.70  
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	99		
28	97		
20	95		
14	95		
10	92		
6.3	90		
5	89		
3.35	87		
2	85		
1.18	83		
0.6	80		
0.425	77		
0.3	72		
0.212	66		
0.15	58		
0.063	44		

Sample Proportions	% dry mass
Very coarse	0
Gravel	15
Sand	41
Fines <0.063mm	44

Grading Analysis		
D100	mm	50
D60	mm	0.162
D30	mm	
D10	mm	
Uniformity Coefficient		> 2.6
Curvature Coefficient		

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks:

Signed:



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Northampton NN4 7EB



Tested in Accordance with: BS 1377-2: 1990

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

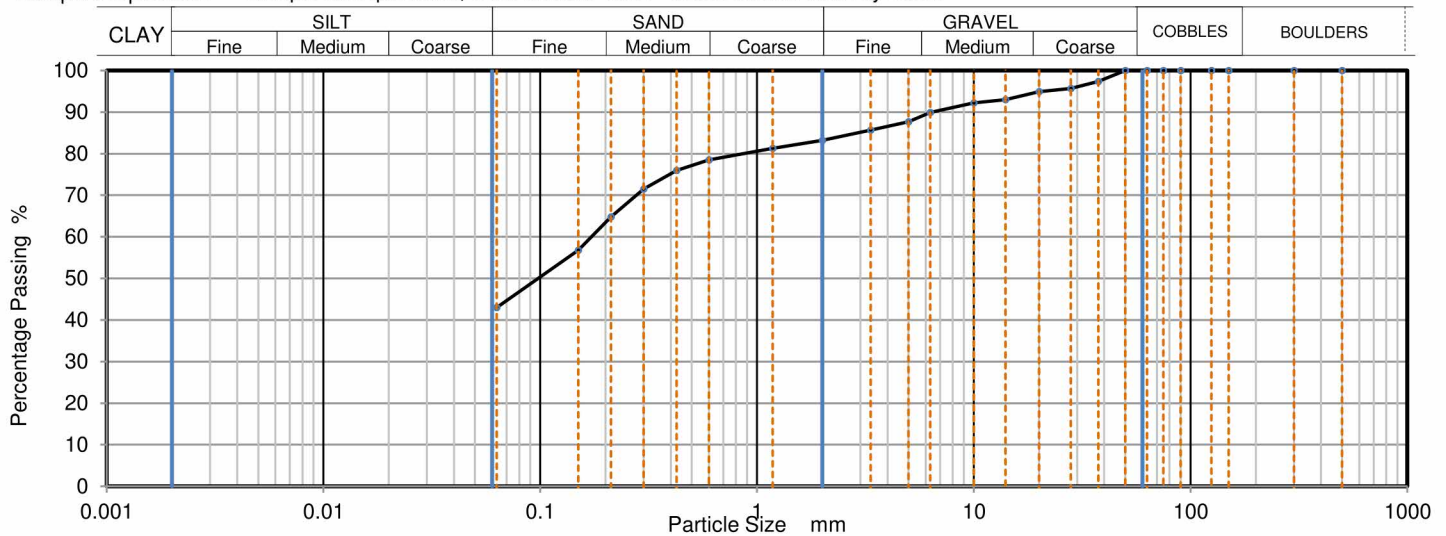
Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1914510  
Hole No.: HYDTP12  
Sample Reference: Not Given  
Sample Description: Brown gravelly very sandy CLAY  
Sample Preparation: Sample was quartered, oven dried at 106.1 °C and broken down by hand.

Depth Top [m]: 2.00  
Depth Base [m]: 2.20  
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	97		
28	96		
20	95		
14	93		
10	92		
6.3	90		
5	88		
3.35	86		
2	83		
1.18	81		
0.6	79		
0.425	76		
0.3	72		
0.212	65		
0.15	57		
0.063	43		

Sample Proportions	% dry mass
Very coarse	0
Gravel	17
Sand	40
Fines <0.063mm	43

Grading Analysis		
D100	mm	50
D60	mm	0.172
D30	mm	
D10	mm	
Uniformity Coefficient		> 2.7
Curvature Coefficient		

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks:

Signed:



Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Tested in Accordance with: BS 1377-2: 1990

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

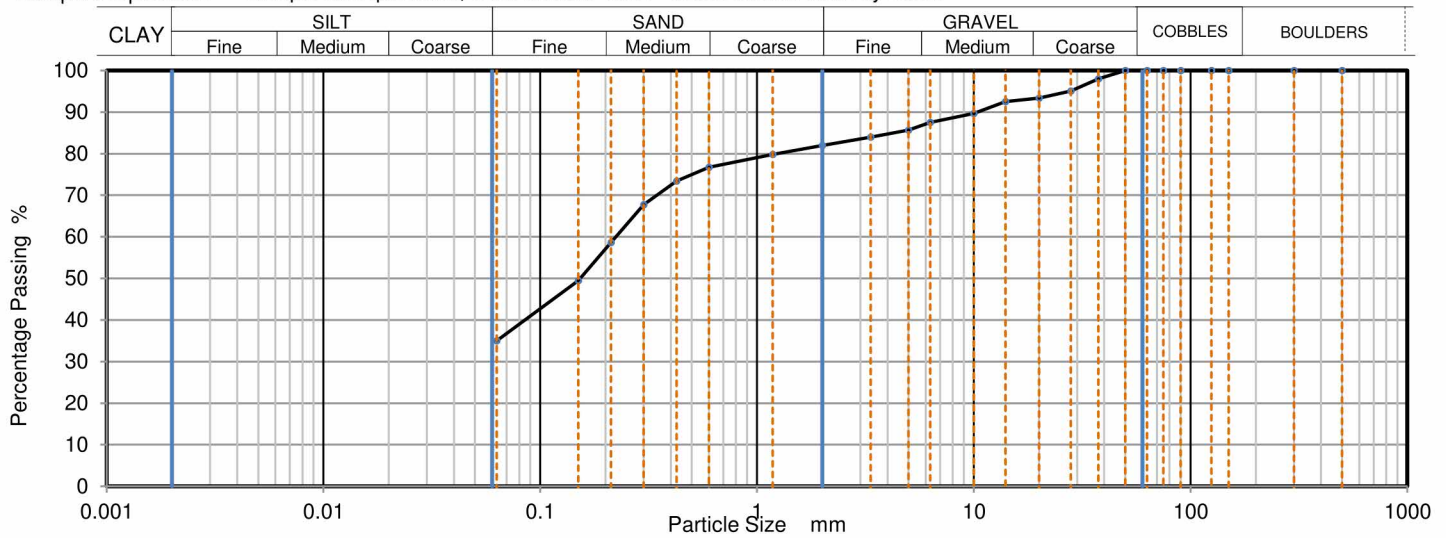
Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton  
*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

### Test Results:

Laboratory Reference: 1914512  
Hole No.: HYDTP11  
Sample Reference: Not Given  
Sample Description: Brown gravelly very clayey SAND with fragments of root  
Sample Preparation: Sample was quartered, oven dried at 106.1 °C and broken down by hand.

Depth Top [m]: 0.80  
Depth Base [m]: 1.00  
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	98		
28	95		
20	93		
14	93		
10	90		
6.3	88		
5	86		
3.35	84		
2	82		
1.18	80		
0.6	77		
0.425	73		
0.3	68		
0.212	59		
0.15	50		
0.063	35		

Sample Proportions	% dry mass
Very coarse	0
Gravel	18
Sand	47
Fines <0.063mm	35

Grading Analysis		
D100	mm	50
D60	mm	0.224
D30	mm	
D10	mm	
Uniformity Coefficient		> 3.5
Curvature Coefficient		

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks:

Signed:



Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Tested in Accordance with: BS 1377-2: 1990

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

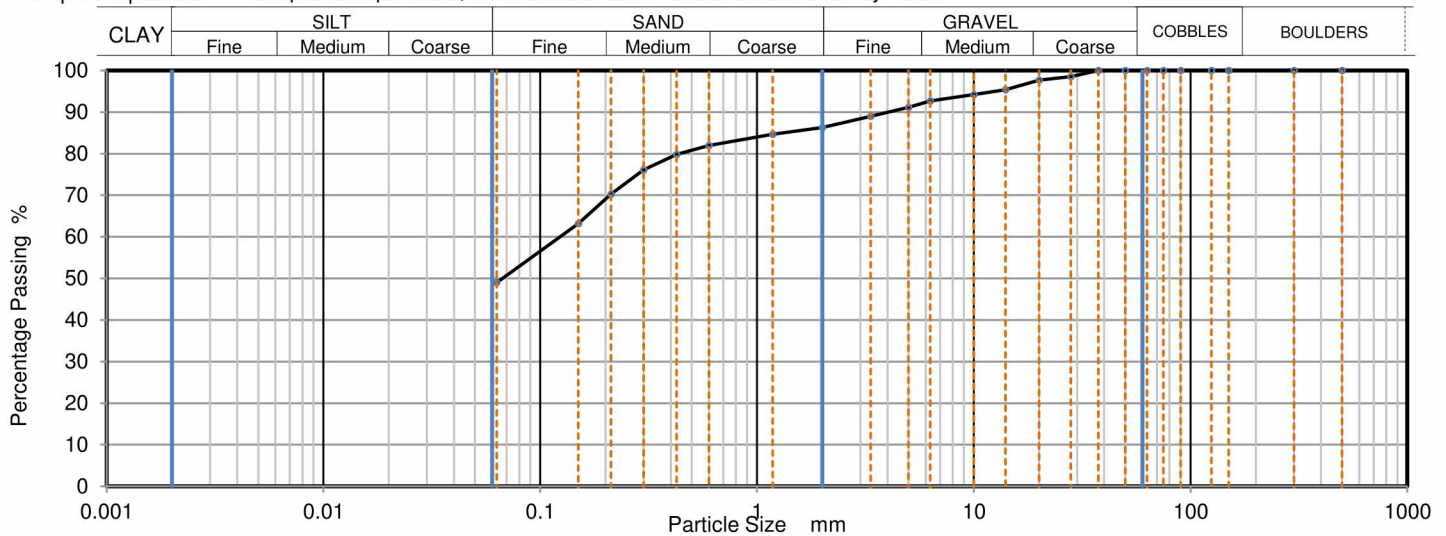
Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1914518  
Hole No.: HYDTP24  
Sample Reference: Not Given  
Sample Description: Brownish grey gravelly very sandy CLAY  
Sample Preparation: Sample was quartered, oven dried at 106.1 °C and broken down by hand.

Depth Top [m]: 1.00  
Depth Base [m]: 1.20  
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	99		
20	98		
14	95		
10	94		
6.3	93		
5	91		
3.35	89		
2	86		
1.18	85		
0.6	82		
0.425	80		
0.3	76		
0.212	70		
0.15	63		
0.063	50		

Sample Proportions	% dry mass
Very coarse	0
Gravel	14
Sand	37
Fines <0.063mm	50

Grading Analysis		
D100	mm	37.5
D60	mm	0.122
D30	mm	
D10	mm	
Uniformity Coefficient		> 1.9
Curvature Coefficient		

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks:

Signed:



Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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4041

# TEST CERTIFICATE

## Dry Density / Moisture Content

### Relationship Light Compaction

Tested in Accordance with:  
BS 1377-4: 1990

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

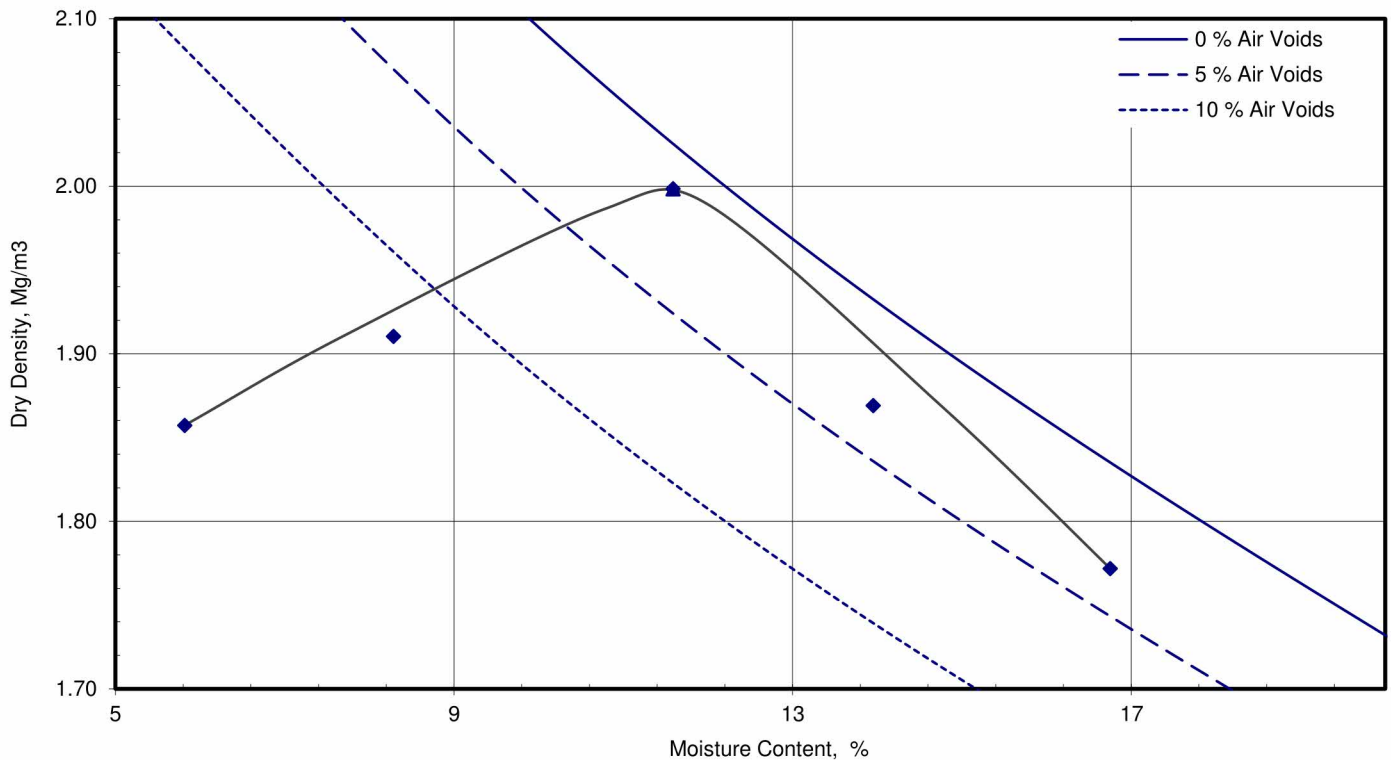
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
Date Tested: 08/07/2021  
Sampled By: Client

**Test Results:**

Laboratory Reference: 1914504  
Hole No.: HYDTP33  
Sample Reference: Not Given  
Sample Description: Brownish grey gravelly very sandy CLAY  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.

Depth Top [m]: 1.70  
Depth Base [m]: 1.90  
Sample Type: B



Compaction Point No.	1	2	3	4	5	
Moisture Content	%	5.8	8.3	12	14	17
Dry Density	Mg/m <sup>3</sup>	1.86	1.91	2.00	1.87	1.77

Mould Type	CBR	
Samples Used	Single sample tested	
Material Retained on 37.5 mm Sieve	%	1
Material Retained on 20.0 mm Sieve	%	8
Particle Density - Measured using gas jar	Mg/m <sup>3</sup>	2.65
As received Moisture Content	%	15
<b>Maximum Dry Density</b>	Mg/m <sup>3</sup>	<b>2.00</b>

<b>Optimum Moisture Content</b>	%	<b>12</b>
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Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks:

Signed:



Szczepan Biatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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**TEST CERTIFICATE**  
**Dry Density / Moisture Content**  
**Relationship Light Compaction**

Tested in Accordance with:  
 BS 1377-4: 1990

i2 Analytical Ltd  
 Unit 8 Harrowden Road  
 Brackmills Industrial Estate  
 Northampton NN4 7EB



Client: Hydrock Consultants Ltd  
 Client Address: 4 Lakeside, Festival Park,  
 Stoke on Trent, ST1 5RY

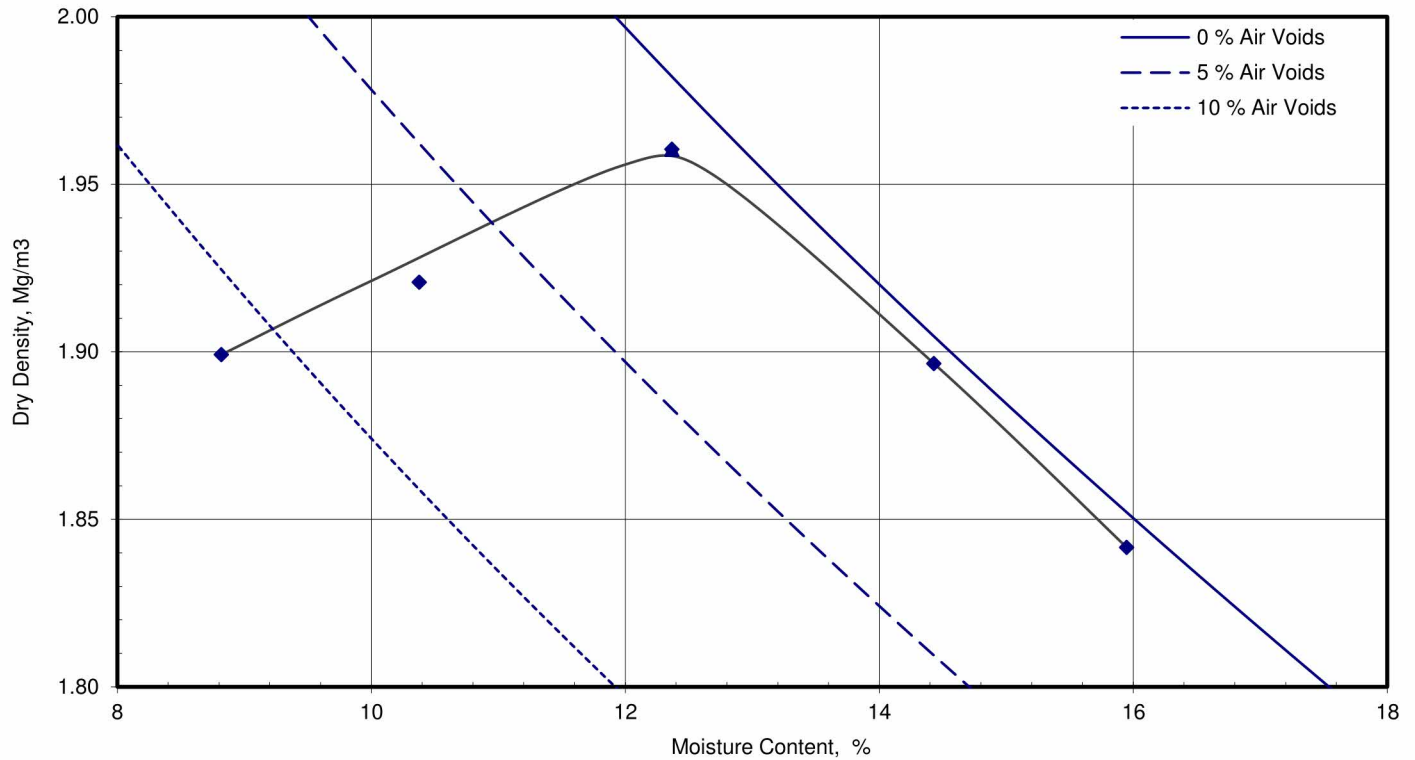
Client Reference: C-15592-C  
 Job Number: 21-82986  
 Date Sampled: Not Given  
 Date Received: 15/06/2021  
 Date Tested: 12/07/2021  
 Sampled By: Client

Contact: Jason Bradley  
 Site Address: Wingates Industrial Estate, Bolton  
 Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**

Laboratory Reference: 1914506  
 Hole No.: HYDTP15  
 Sample Reference: Not Given  
 Sample Description: Brown slightly gravelly very sandy CLAY  
 Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.

Depth Top [m]: 2.50  
 Depth Base [m]: 2.70  
 Sample Type: B



Compaction Point No.	1	2	3	4	5	
Moisture Content	%	8.8	10	12	14	16
Dry Density	Mg/m <sup>3</sup>	1.90	1.92	1.96	1.90	1.84

Mould Type	1 Litre	
Samples Used	Single sample tested	
Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	0
Particle Density - Measured using gas jar	Mg/m <sup>3</sup>	2.63
As received Moisture Content	%	16
<b>Maximum Dry Density</b>	Mg/m <sup>3</sup>	<b>1.96</b>

<b>Optimum Moisture Content</b>	%	<b>12</b>
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Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.3 using 2.5kg [light] Rammer

Remarks:

Signed:

Szczepan Bielatowicz  
 PL Deputy Head of Geotechnical Section  
 for and on behalf of i2 Analytical Ltd

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4041

# TEST CERTIFICATE

## Dry Density / Moisture Content

### Relationship Light Compaction

Tested in Accordance with:  
BS 1377-4: 1990

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

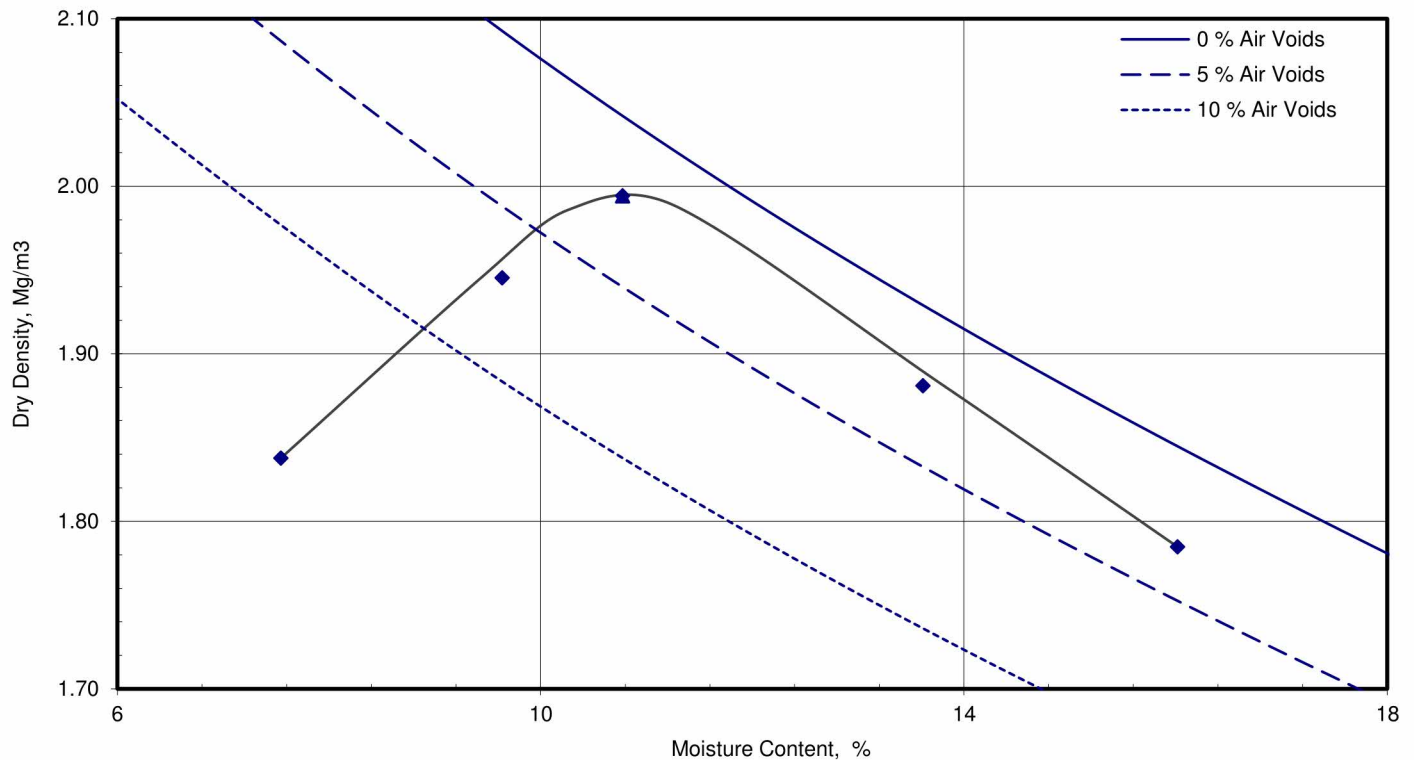
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
Date Tested: 08/07/2021  
Sampled By: Client

### Test Results:

Laboratory Reference: 1914508  
Hole No.: HYDTP09  
Sample Reference: Not Given  
Sample Description: Greyish brown gravelly very sandy CLAY  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.

Depth Top [m]: 2.50  
Depth Base [m]: 2.70  
Sample Type: B



Compaction Point No.	1	2	3	4	5	
Moisture Content	%	7.5	9.6	11	14	16
Dry Density	Mg/m <sup>3</sup>	1.84	1.95	1.99	1.88	1.78

Mould Type	CBR	
Samples Used	Single sample tested	
Material Retained on 37.5 mm Sieve	%	1
Material Retained on 20.0 mm Sieve	%	5
Particle Density - Measured using gas jar	Mg/m <sup>3</sup>	2.62
As received Moisture Content	%	14
<b>Maximum Dry Density</b>	Mg/m <sup>3</sup>	<b>1.99</b>

<b>Optimum Moisture Content</b>	%	<b>11</b>
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Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks:

Signed:



Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Dry Density / Moisture Content

### Relationship Light Compaction

Tested in Accordance with:  
BS 1377-4: 1990

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

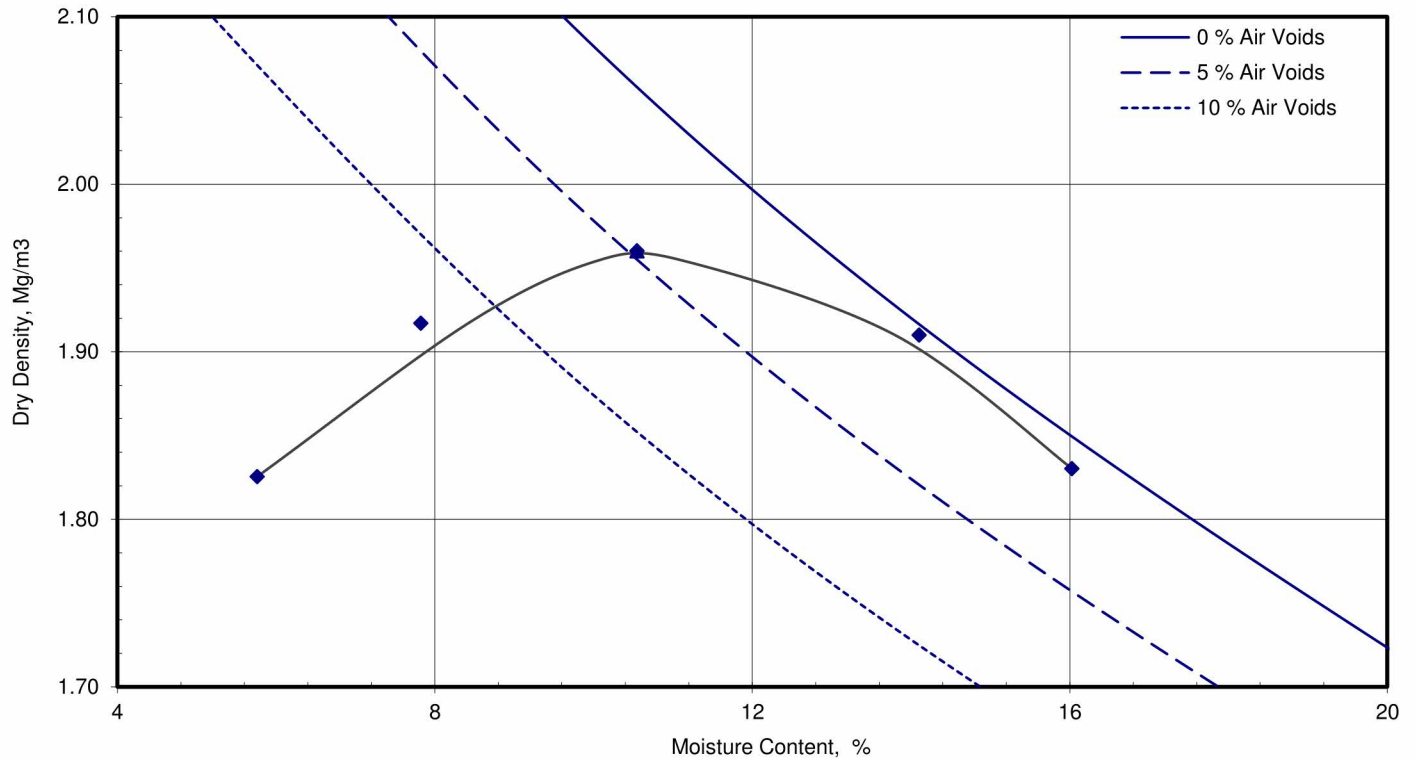
Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
Date Tested: 12/07/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton  
*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

#### Test Results:

Laboratory Reference: 1914510  
Hole No.: HYDTP12  
Sample Reference: Not Given  
Sample Description: Brown gravelly very sandy CLAY  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.

Depth Top [m]: 2.00  
Depth Base [m]: 2.20  
Sample Type: B



Compaction Point No.	1	2	3	4	5	
Moisture Content	%	5.8	7.8	11	14	16
Dry Density	Mg/m <sup>3</sup>	1.83	1.92	1.96	1.91	1.83

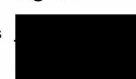
Mould Type	CBR	
Samples Used	Single sample tested	
Material Retained on 37.5 mm Sieve	%	3
Material Retained on 20.0 mm Sieve	%	5
Particle Density - Measured using gas jar	Mg/m <sup>3</sup>	2.63
As received Moisture Content	%	14
<b>Maximum Dry Density</b>	Mg/m <sup>3</sup>	<b>1.96</b>

<b>Optimum Moisture Content</b>	%	<b>11</b>
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Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks:

Signed:



Szczepan Biatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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**TEST CERTIFICATE**  
**Dry Density / Moisture Content**  
**Relationship Light Compaction**

Tested in Accordance with:  
 BS 1377-4: 1990

i2 Analytical Ltd  
 Unit 8 Harrowden Road  
 Brackmills Industrial Estate  
 Northampton NN4 7EB



Client: Hydrock Consultants Ltd  
 Client Address: 4 Lakeside, Festival Park,  
 Stoke on Trent, ST1 5RY

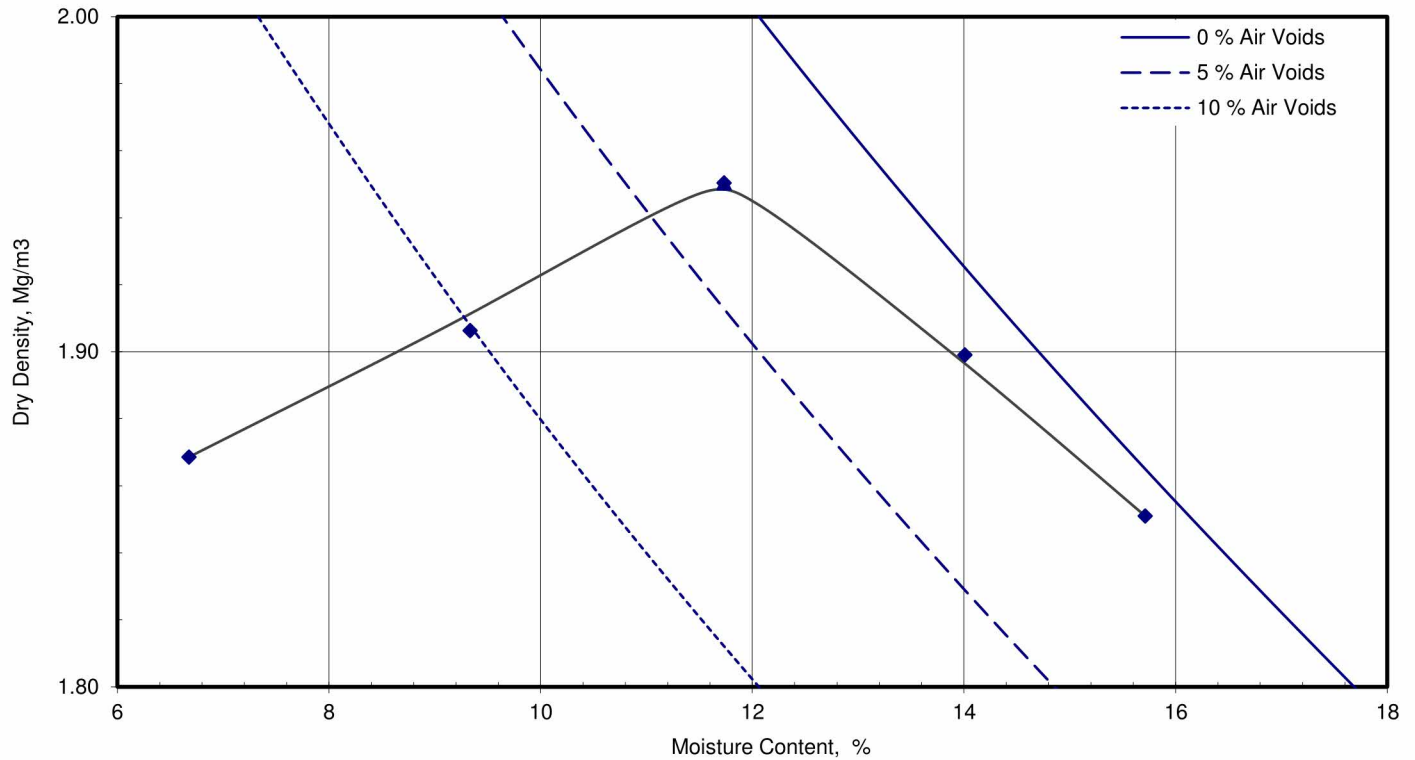
Client Reference: C-15592-C  
 Job Number: 21-82986  
 Date Sampled: Not Given  
 Date Received: 15/06/2021  
 Date Tested: 12/07/2021  
 Sampled By: Client

Contact: Jason Bradley  
 Site Address: Wingates Industrial Estate, Bolton  
*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

Laboratory Reference: 1914512  
 Hole No.: HYDTP11  
 Sample Reference: Not Given  
 Sample Description: Brown gravelly very clayey SAND with fragments of root  
 Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.

Depth Top [m]: 0.80  
 Depth Base [m]: 1.00  
 Sample Type: B



Compaction Point No.	1	2	3	4	5	
Moisture Content	%	6.7	9.3	12	14	16
Dry Density	Mg/m <sup>3</sup>	1.87	1.91	1.95	1.90	1.85

Mould Type	CBR	
Samples Used	Single sample tested	
Material Retained on 37.5 mm Sieve	%	2
Material Retained on 20.0 mm Sieve	%	7
Particle Density - Measured using gas jar	Mg/m <sup>3</sup>	2.64
As received Moisture Content	%	14
<b>Maximum Dry Density</b>	Mg/m <sup>3</sup>	<b>1.95</b>

<b>Optimum Moisture Content</b>	%	<b>12</b>
---------------------------------	---	-----------

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks:

Signed:



Szczepan Biatowicz  
 PL Deputy Head of Geotechnical Section  
**for and on behalf of i2 Analytical Ltd**

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4041

# TEST CERTIFICATE

## Dry Density / Moisture Content

### Relationship Light Compaction

Tested in Accordance with:  
BS 1377-4: 1990

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

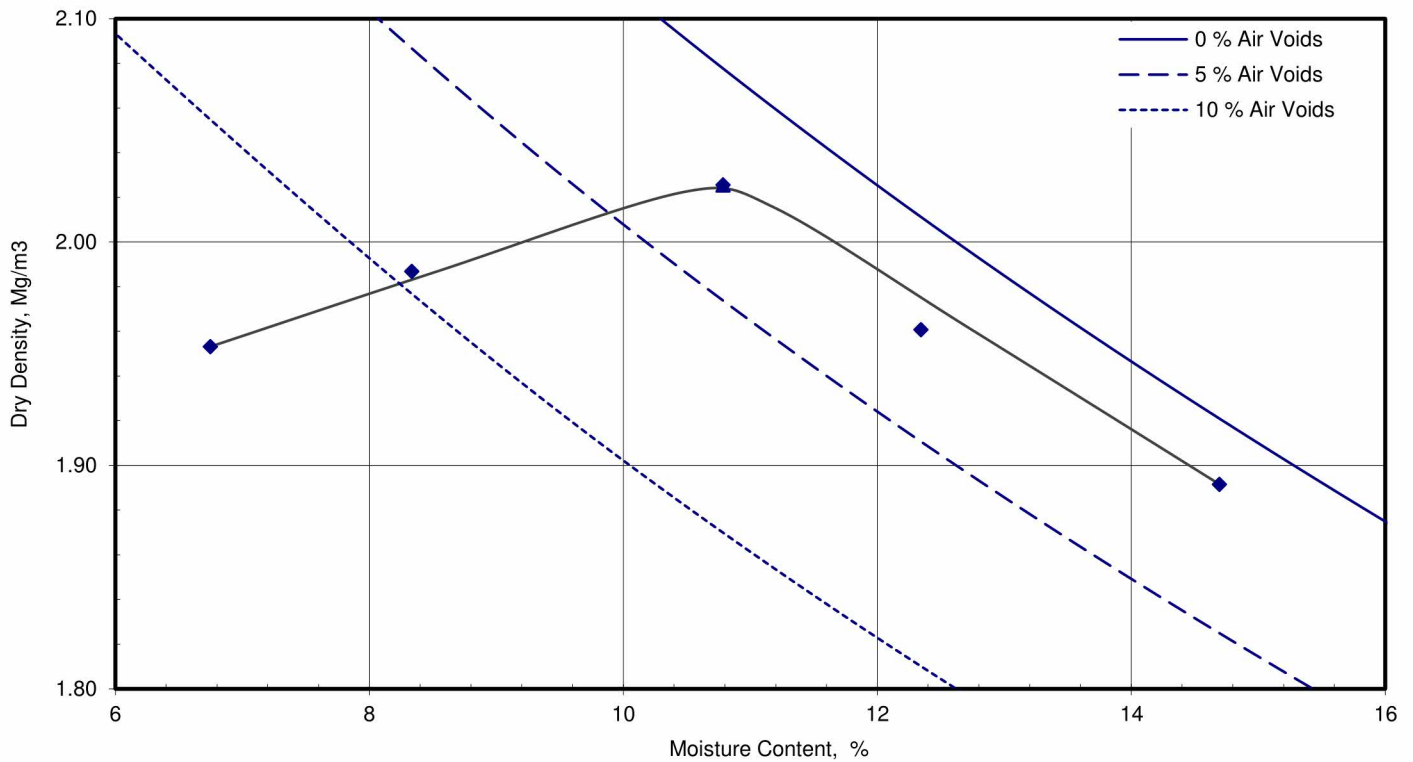
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
Date Tested: 12/07/2021  
Sampled By: Client

### Test Results:

Laboratory Reference: 1914514  
Hole No.: HYDTP28  
Sample Reference: Not Given  
Sample Description: Grey slightly gravelly very sandy CLAY  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.

Depth Top [m]: 2.00  
Depth Base [m]: 2.40  
Sample Type: B



Compaction Point No.	1	2	3	4	5	
Moisture Content	%	6.7	8.3	11	12	15
Dry Density	Mg/m <sup>3</sup>	1.95	1.99	2.03	1.96	1.89

Mould Type	CBR	
Samples Used	Single sample tested	
Material Retained on 37.5 mm Sieve	%	10
Material Retained on 20.0 mm Sieve	%	17
Particle Density - Measured using gas jar	Mg/m <sup>3</sup>	2.68
As received Moisture Content	%	11
<b>Maximum Dry Density</b>	Mg/m <sup>3</sup>	<b>2.03</b>

<b>Optimum Moisture Content</b>	%	<b>11</b>
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Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Zone X - test carried out as per client request

Signed:

Szczepan Biatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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**TEST CERTIFICATE**  
**Dry Density / Moisture Content**  
**Relationship Light Compaction**

Tested in Accordance with:  
 BS 1377-4: 1990

i2 Analytical Ltd  
 Unit 8 Harrowden Road  
 Brackmills Industrial Estate  
 Northampton NN4 7EB



Client: Hydrock Consultants Ltd  
 Client Address: 4 Lakeside, Festival Park,  
 Stoke on Trent, ST1 5RY

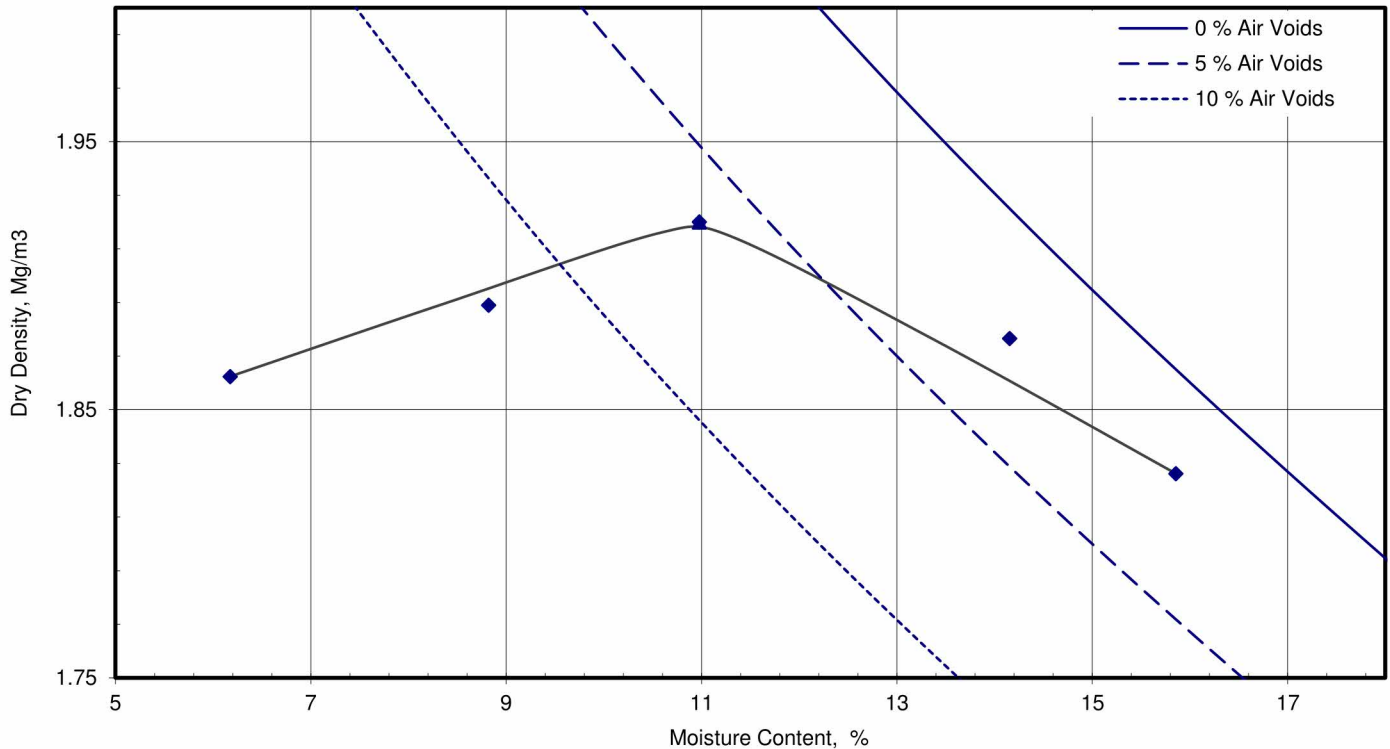
Client Reference: C-15592-C  
 Job Number: 21-82986  
 Date Sampled: Not Given  
 Date Received: 15/06/2021  
 Date Tested: 12/07/2021  
 Sampled By: Client

Contact: Jason Bradley  
 Site Address: Wingates Industrial Estate, Bolton  
*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

**Test Results:**

Laboratory Reference: 1914518  
 Hole No.: HYDTP24  
 Sample Reference: Not Given  
 Sample Description: Brownish grey gravelly very sandy CLAY  
 Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.

Depth Top [m]: 1.00  
 Depth Base [m]: 1.20  
 Sample Type: B



Compaction Point No.	1	2	3	4	5	
Moisture Content	%	6.2	8.8	11	14	16
Dry Density	Mg/m <sup>3</sup>	1.86	1.89	1.92	1.88	1.83

Mould Type	1 Litre	
Samples Used	Single sample tested	
Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	2
Particle Density - Measured using gas jar	Mg/m <sup>3</sup>	2.65
As received Moisture Content	%	15
<b>Maximum Dry Density</b>	Mg/m <sup>3</sup>	<b>1.92</b>

<b>Optimum Moisture Content</b>	%	<b>11</b>
---------------------------------	---	-----------

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.3 using 2.5kg [light] Rammer

Remarks:

Signed:



Szczepan Biatowicz  
 PL Deputy Head of Geotechnical Section  
**for and on behalf of i2 Analytical Ltd**

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# TEST CERTIFICATE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



## Determination of California Bearing Ratio

4041

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
Date Tested: 09/07/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton  
*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

### Test Results:

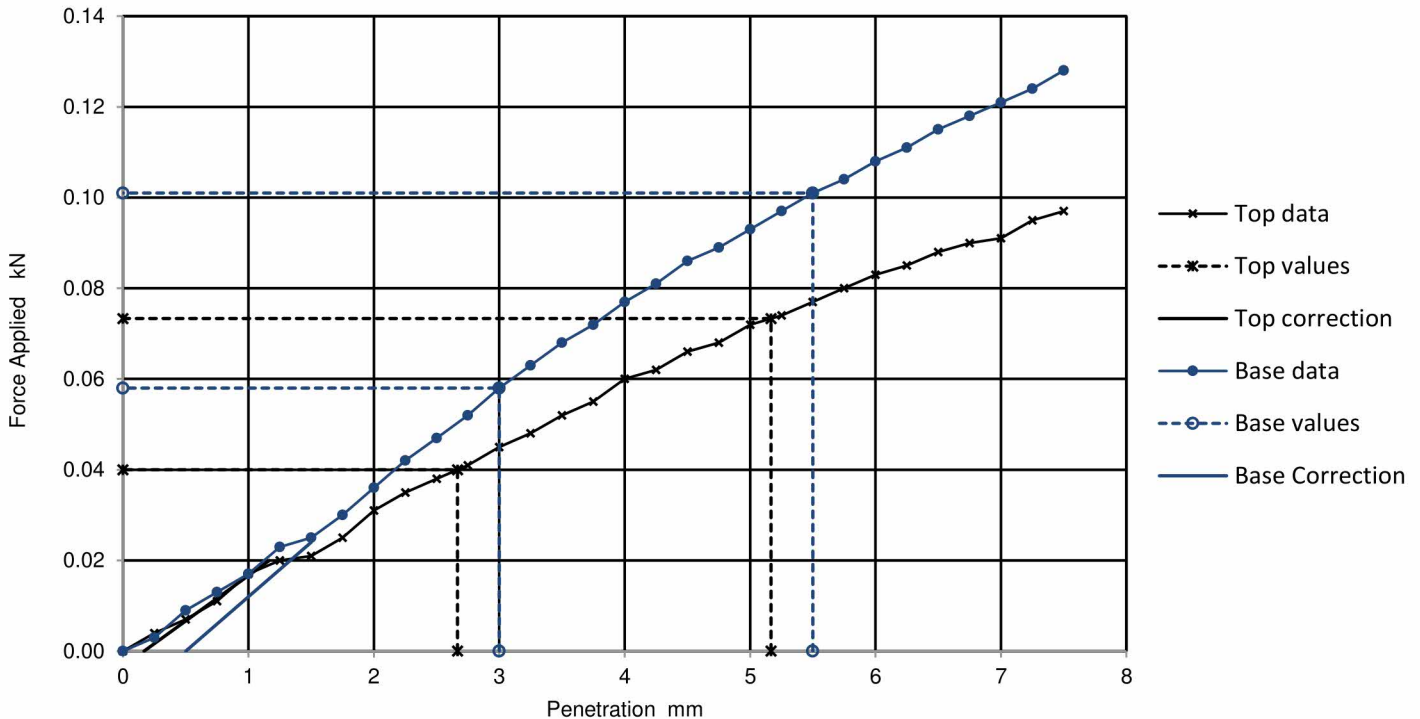
Laboratory Reference: 1914503  
Hole No.: Combined Sample 1  
Sample Reference: Not Given  
Sample Description: Combined Sample 1

Depth Top [m]: 0.50  
Depth Base [m]: 1.90  
Sample Type: B

### Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	0 %	Dry density after soaking	Mg/m3
Initial Specimen details	Bulk density 1.65 Mg/m3	Surcharge applied	8 kg
	Dry density 1.09 Mg/m3		4.9 kPa
	Moisture content 51 %		

Force v Penetration Plots



### Results

TOP  
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
Yes	0.3	0.4	0.4	
Yes	0.4	0.5	0.5	

Moisture Content %
51
51

### Remarks:

Test/ Specimen specific remarks:

Signed:



Szczepan Białowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



## Determination of California Bearing Ratio

4041

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
Date Tested: 12/07/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton  
*Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland*

### Test Results:

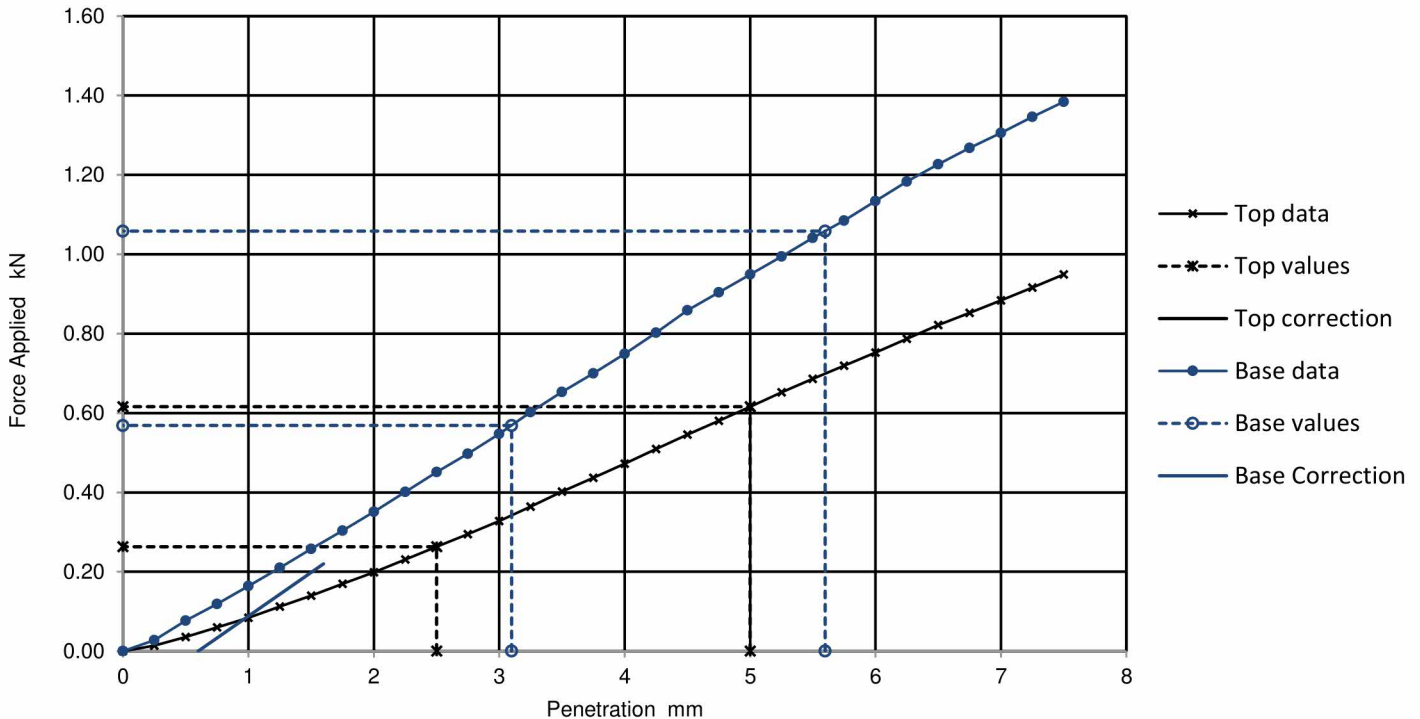
Laboratory Reference: 1914504  
Hole No.: HYDTP33  
Sample Reference: Not Given  
Sample Description: Brownish grey gravelly very sandy CLAY

Depth Top [m]: 1.70  
Depth Base [m]: 1.90  
Sample Type: B

### Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	8 %	Dry density after soaking	Mg/m3
Initial Specimen details	Bulk density 2.22 Mg/m3	Surcharge applied	8 kg
	Dry density 1.98 Mg/m3		4.9 kPa
	Moisture content 12 %		

Force v Penetration Plots



### Results

TOP  
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
No	2.0	3.1	3.1	
Yes	4.3	5.3	5.3	

Moisture Content %
12
12

### Remarks:

Test/ Specimen specific remarks:

### Signed:



Szczepan Białowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



## Determination of California Bearing Ratio

4041

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
Date Tested: 09/07/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

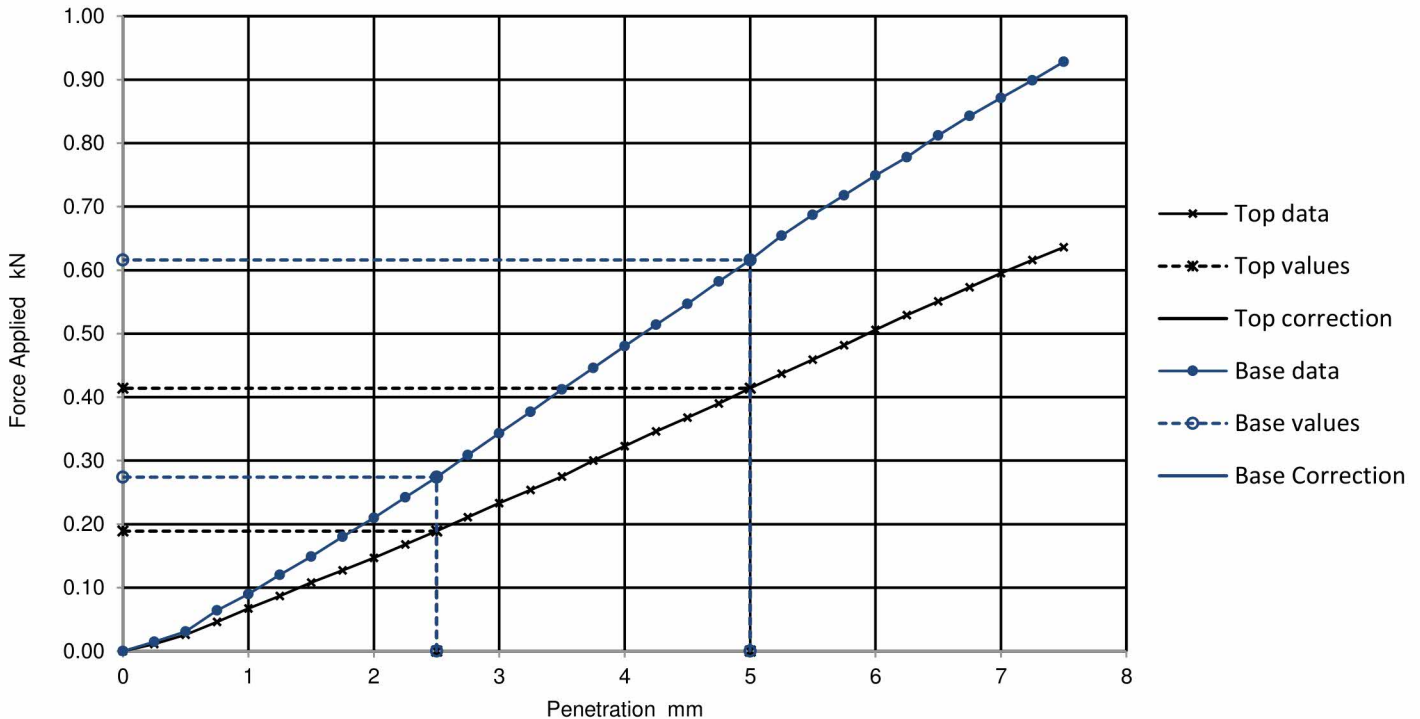
Laboratory Reference: 1914508  
Hole No.: HYDTP09  
Sample Reference: Not Given  
Sample Description: Greyish brown gravelly very sandy CLAY

Depth Top [m]: 2.50  
Depth Base [m]: 2.70  
Sample Type: B

### Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	5 %	Dry density after soaking	Mg/m3
Initial Specimen details	Bulk density 2.21 Mg/m3	Surcharge applied	8 kg
	Dry density 1.96 Mg/m3		4.9 kPa
	Moisture content 13 %		

Force v Penetration Plots



### Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	No	1.4	2.1	2.1		13
BASE	No	2.1	3.1	3.1		13

### Remarks:

Test/ Specimen specific remarks:

### Signed:



Szczepan Białowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Unconsolidated Undrained

### Triaxial Compression

Tested in Accordance with:  
BS 1377-7: 1990: Clause 8

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

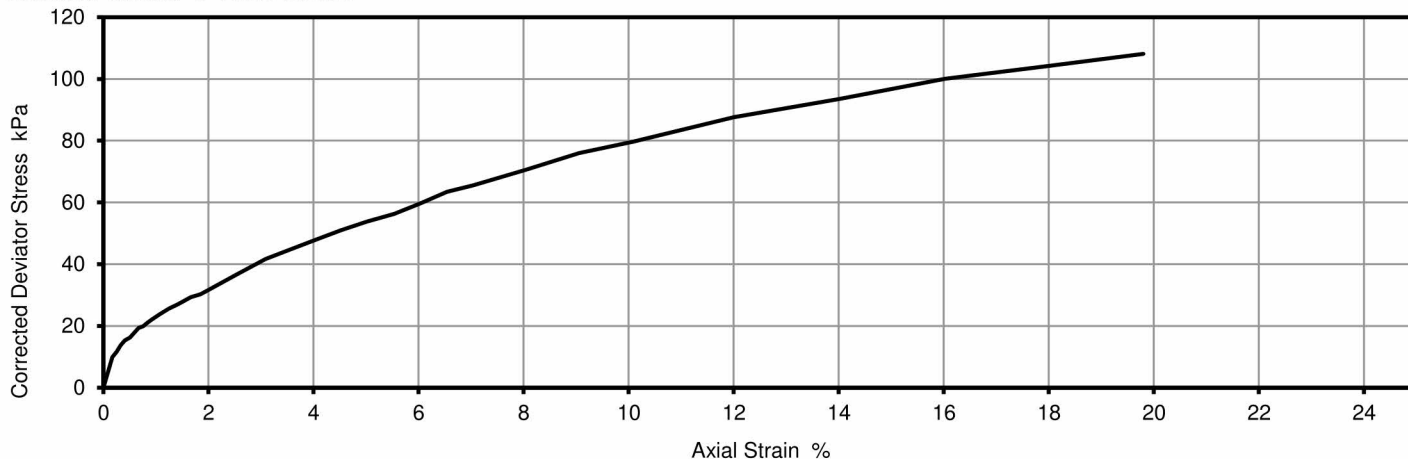
Laboratory Reference: 1914506  
Hole No.: HYDTP15  
Sample Reference: Not Given  
Sample Description: Brown slightly gravelly very sandy CLAY

Depth Top [m]: 2.50  
Depth Base [m]: 2.70  
Sample Type: B

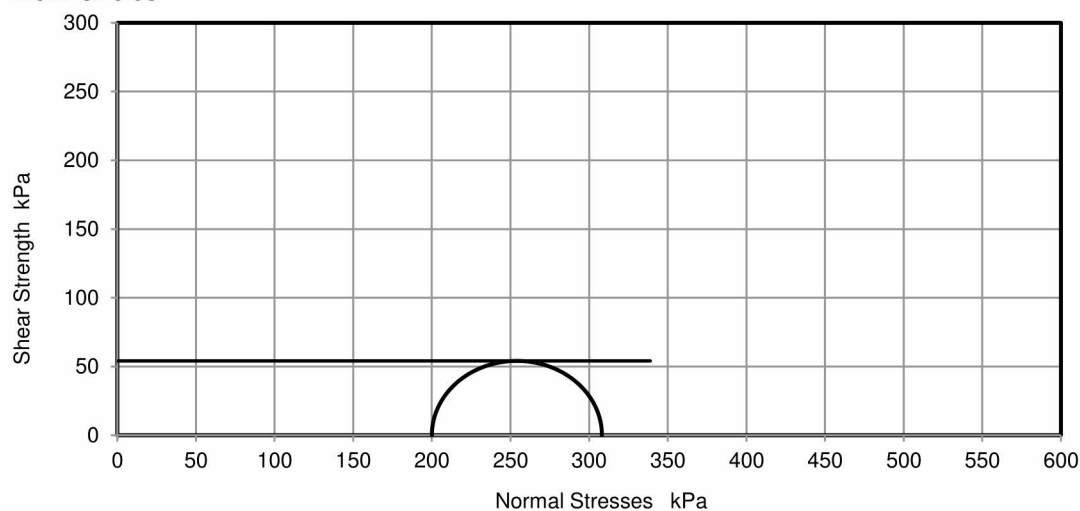
Test Number	1
Length	198.62 mm
Diameter	100.76 mm
Bulk Density	2.17 Mg/m <sup>3</sup>
Moisture Content	16 %
Dry Density	1.87 Mg/m <sup>3</sup>
Membrane Correction	1.10 kPa

Rate of Strain	1.00 %/min
Cell Pressure	200 kPa
Axial Strain at failure	19.8 %
Deviator Stress, (σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>	108 kPa
Undrained Shear Strength, c <sub>u</sub>	54 kPa ½(σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>
Mode of Failure	Compound
Membrane thickness	0.29 mm

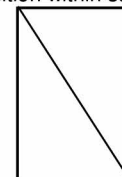
### Deviator Stress v Axial Strain



### Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks: Recompacted at NMC using 2.5kg (light) rammer

Signed:



Szczepan Białowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Unconsolidated Undrained

### Triaxial Compression

Tested in Accordance with:  
BS 1377-7: 1990: Clause 8

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

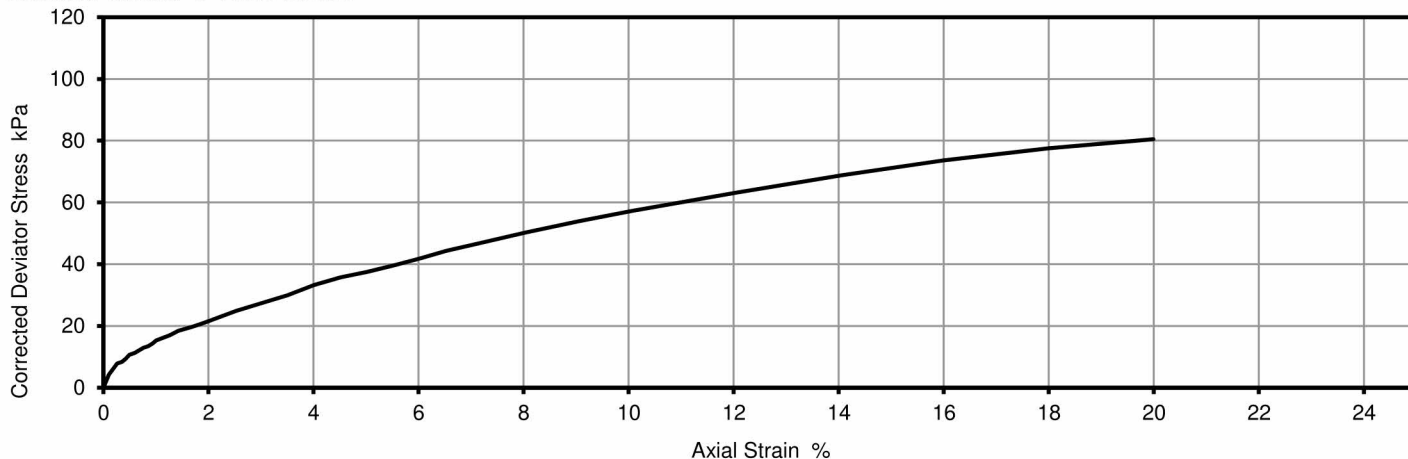
Laboratory Reference: 1914510  
Hole No.: HYDTP12  
Sample Reference: Not Given  
Sample Description: Brown gravelly very sandy CLAY

Depth Top [m]: 2.00  
Depth Base [m]: 2.20  
Sample Type: B

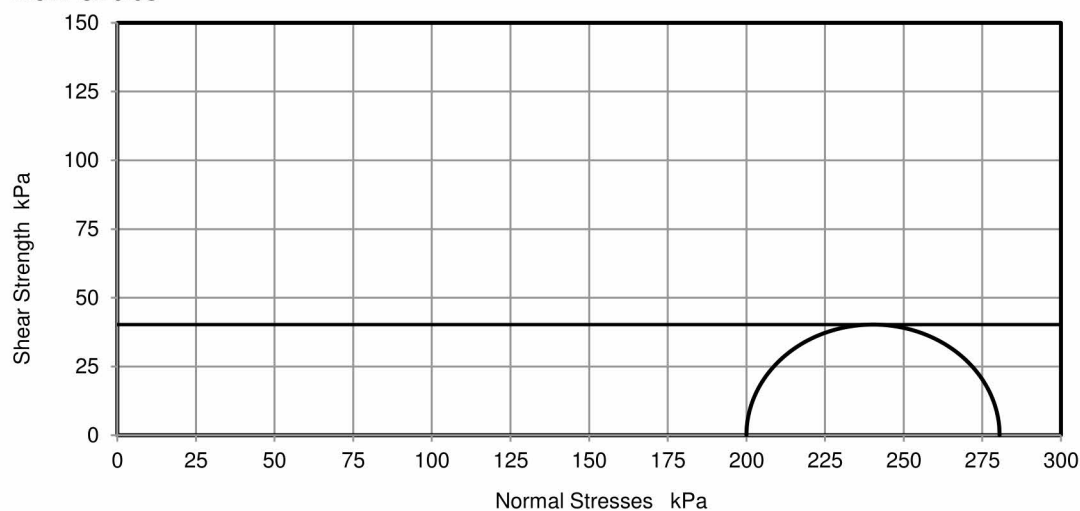
Test Number	1
Length	198.28 mm
Diameter	100.86 mm
Bulk Density	2.19 Mg/m <sup>3</sup>
Moisture Content	14 %
Dry Density	1.92 Mg/m <sup>3</sup>
Membrane Correction	1.03 kPa

Rate of Strain	1.00 %/min
Cell Pressure	200 kPa
Axial Strain at failure	20.0 %
Deviator Stress, ( $\sigma_1 - \sigma_3$ ) <sub>f</sub>	80 kPa
Undrained Shear Strength, $c_u$	40 kPa $\frac{1}{2}(\sigma_1 - \sigma_3)_f$
Mode of Failure	Compound
Membrane thickness	0.27 mm

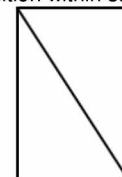
### Deviator Stress v Axial Strain



### Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks: Recompacted at NMC using 2.5kg (light) rammer

### Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Unconsolidated Undrained

### Triaxial Compression

Tested in Accordance with:  
BS 1377-7: 1990: Clause 8

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

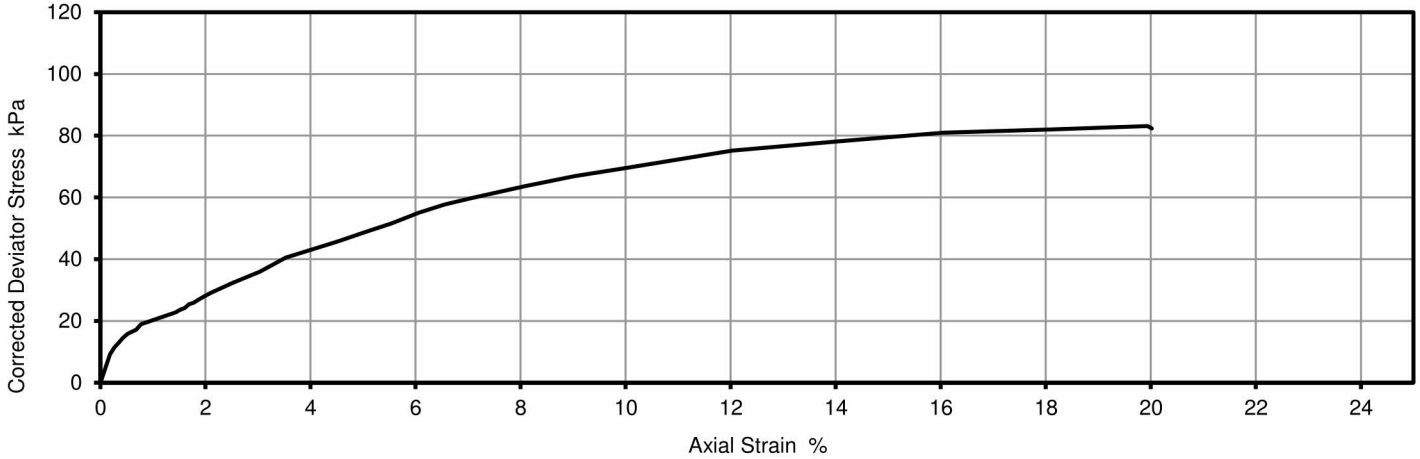
Laboratory Reference: 1914512  
Hole No.: HYDTP11  
Sample Reference: Not Given  
Sample Description: Brown gravelly very clayey SAND with fragments of root

Depth Top [m]: 0.80  
Depth Base [m]: 1.00  
Sample Type: B

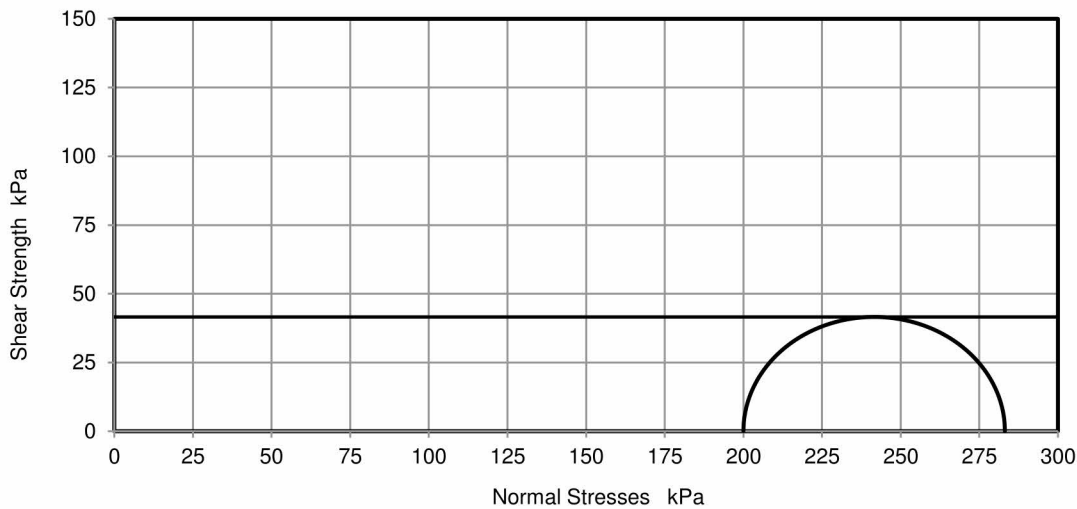
Test Number	1
Length	199.31 mm
Diameter	100.60 mm
Bulk Density	2.14 Mg/m <sup>3</sup>
Moisture Content	14 %
Dry Density	1.88 Mg/m <sup>3</sup>
Membrane Correction	1.18 kPa

Rate of Strain	1.00 %/min
Cell Pressure	200 kPa
Axial Strain at failure	19.9 %
Deviator Stress, (σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>	83 kPa
Undrained Shear Strength, c <sub>u</sub>	42 kPa ½(σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>
Mode of Failure	Compound
Membrane thickness	0.31 mm

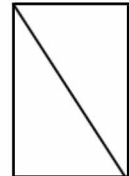
### Deviator Stress v Axial Strain



### Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks: Recompacted at NMC using 2.5kg (light) rammer

### Signed:



Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Unconsolidated Undrained

### Triaxial Compression

Tested in Accordance with:  
BS 1377-7: 1990: Clause 8

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

#### Test Results:

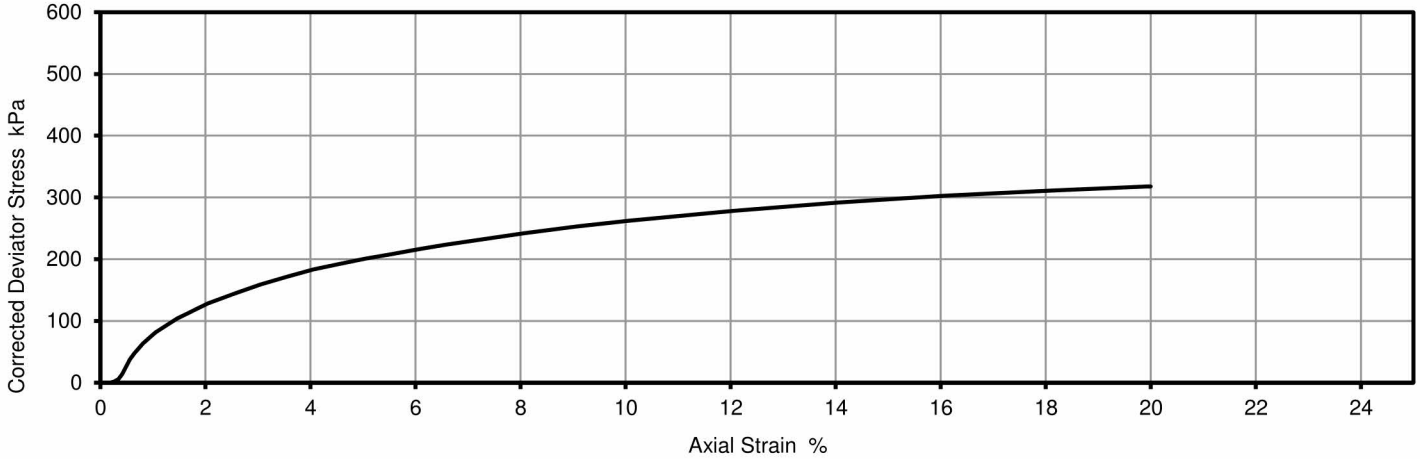
Laboratory Reference: 1914514  
Hole No.: HYDTP28  
Sample Reference: Not Given  
Sample Description: Grey slightly gravelly very sandy CLAY

Depth Top [m]: 2.00  
Depth Base [m]: 2.40  
Sample Type: B

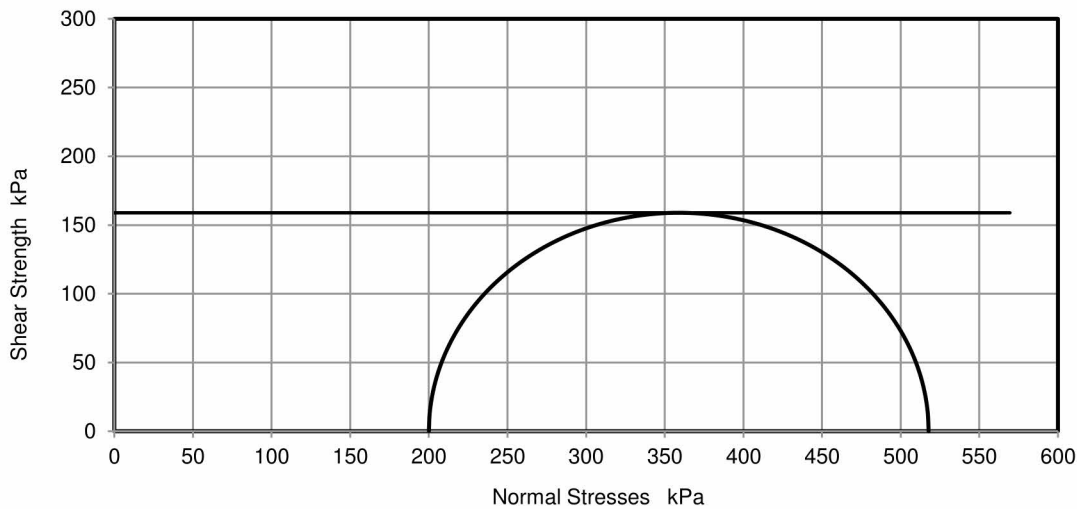
Test Number	1
Length	200.62 mm
Diameter	100.64 mm
Bulk Density	2.19 Mg/m <sup>3</sup>
Moisture Content	11 %
Dry Density	1.98 Mg/m <sup>3</sup>
Membrane Correction	1.14 kPa

Rate of Strain	1.00 %/min
Cell Pressure	200 kPa
Axial Strain at failure	19.9 %
Deviator Stress, (σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>	318 kPa
Undrained Shear Strength, c <sub>u</sub>	159 kPa ½(σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>
Mode of Failure	Compound
Membrane thickness	0.30 mm

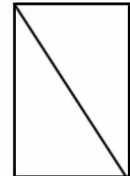
#### Deviator Stress v Axial Strain



#### Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks: Recompacted at OMC using 2.5kg (light) rammer

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Unconsolidated Undrained

### Triaxial Compression

Tested in Accordance with:  
BS 1377-7: 1990: Clause 8

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Client: Hydrock Consultants Ltd  
Client Address: 4 Lakeside, Festival Park,  
Stoke on Trent, ST1 5RY

Client Reference: C-15592-C  
Job Number: 21-82986  
Date Sampled: Not Given  
Date Received: 15/06/2021  
Date Tested: 30/06/2021  
Sampled By: Client

Contact: Jason Bradley  
Site Address: Wingates Industrial Estate, Bolton

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

#### Test Results:

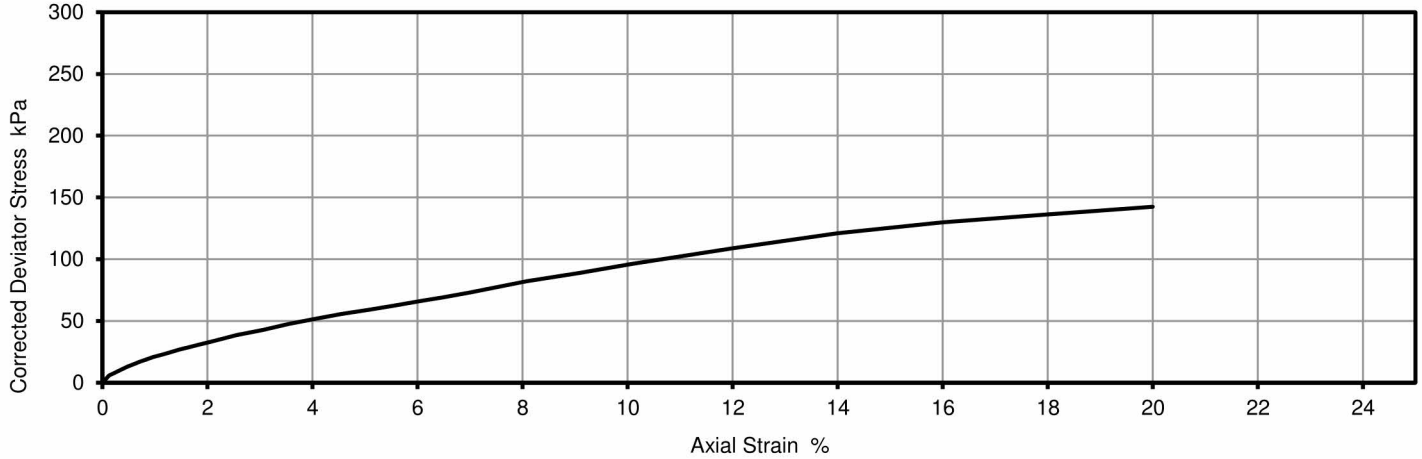
Laboratory Reference: 1914518  
Hole No.: HYDTP24  
Sample Reference: Not Given  
Sample Description: Brownish grey gravelly very sandy CLAY

Depth Top [m]: 1.00  
Depth Base [m]: 1.20  
Sample Type: B

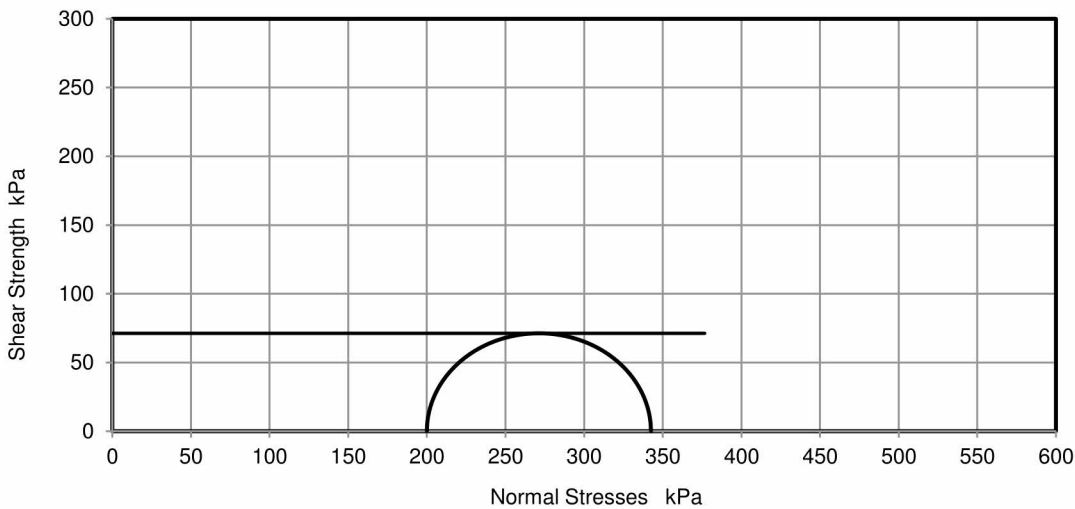
Test Number	1
Length	199.06 mm
Diameter	100.33 mm
Bulk Density	2.14 Mg/m <sup>3</sup>
Moisture Content	15 %
Dry Density	1.87 Mg/m <sup>3</sup>
Membrane Correction	1.03 kPa

Rate of Strain	1.00 %/min
Cell Pressure	200 kPa
Axial Strain at failure	20.0 %
Deviator Stress, (σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>	142 kPa
Undrained Shear Strength, c <sub>u</sub>	71 kPa ½(σ <sub>1</sub> - σ <sub>3</sub> ) <sub>f</sub>
Mode of Failure	Compound
Membrane thickness	0.27 mm

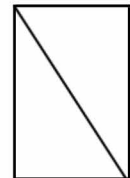
#### Deviator Stress v Axial Strain



#### Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks: Recompacted at NMC using 2.5kg (light) rammer

#### Signed:



Szczepan Białotowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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**Jason Bradley**  
Hydrock Consultants Ltd  
4 Lakeside  
Festival Park  
Stoke on Trent  
ST1 5RY

**t:** 01782 261919  
**f:** 01782 262020  
**e:** stoke@hydrock.com

i2 Analytical Ltd.  
7 Woodshots Meadow,  
Croxley Green  
Business Park,  
Watford,  
Herts,  
WD18 8YS

**t:** 01923 225404  
**f:** 01923 237404  
**e:** reception@i2analytical.com

## **Analytical Report Number : 21-83003**

<b>Project / Site name:</b>	Wingates Industrial Estate, Bolton	<b>Samples received on:</b>	15/06/2021
<b>Your job number:</b>	C-15592-C	<b>Samples instructed on/ Analysis started on:</b>	22/06/2021
<b>Your order number:</b>	PO07905	<b>Analysis completed by:</b>	13/07/2021
<b>Report Issue Number:</b>	1	<b>Report issued on:</b>	13/07/2021
<b>Samples Analysed:</b>	8 soil samples		

**Signed:**



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

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

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting  
leachates - 2 weeks from reporting  
waters - 2 weeks from reporting  
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.  
Application of uncertainty of measurement would provide a range within which the true result lies.  
An estimate of measurement uncertainty can be provided on request.



Analytical Report Number: 21-83003  
 Project / Site name: Wingates Industrial Estate, Bolton  
 Your Order No: PO07905

Lab Sample Number				1914598	1914599	1914600	1914601	1914602
Sample Reference				HYDTP03	HYDTP33	HYDTP15	HYDTP09	HYDTP12
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50-0.70	1.70-1.90	2.50-2.70	2.50-2.70	2.00-2.20
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)								
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	31	11	11	8.2	8.5
Total mass of sample received	kg	0.001	NONE	2.0	0.70	0.70	0.70	0.70

#### General Inorganics

	pH Units	N/A	MCERTS	7.1	7.9	6.0	7.1	8.2
pH - Automated								
Total Sulphate as SO4	mg/kg	50	MCERTS	500	360	410	550	300
Total Sulphate as SO4	%	0.005	MCERTS	0.050	0.036	0.041	0.055	0.030
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.056	0.017	0.022	0.098	0.050
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	56.3	16.8	22.1	97.6	50.1
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	4.8	1.2	3.7	3.4	4.3
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	2.4	0.6	1.8	1.7	2.2
Total Sulphur	mg/kg	50	MCERTS	510	100	230	1600	430
Total Sulphur	%	0.005	MCERTS	0.051	0.010	0.023	0.158	0.043
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	< 0.5	< 0.5	< 0.5	0.6	< 0.5
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.06	< 0.05
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	U/S	2.2	6.9	4.0	< 2.0
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	U/S	< 5.0	< 5.0	< 5.0	< 5.0

#### Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	7.0	9.1	< 5.0	20	7.4
Magnesium (leachate equivalent)	mg/l	2.5	NONE	3.5	4.6	< 2.5	9.9	3.7

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

Analytical Report Number: 21-83003  
 Project / Site name: Wingates Industrial Estate, Bolton  
 Your Order No: PO07905

Lab Sample Number				1914603	1914604	1914605
Sample Reference				HYDTP08	HYDTP14	HYDTP24
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				0.50-0.70	1.00-1.20	1.00-1.20
Date Sampled				Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)						
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	18	19	12
Total mass of sample received	kg	0.001	NONE	0.50	0.50	0.70

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.7	7.6	6.7
Total Sulphate as SO4	mg/kg	50	MCERTS	170	210	240
Total Sulphate as SO4	%	0.005	MCERTS	0.017	0.021	0.024
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0074	0.0017	0.041
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	7.4	1.7	41.0
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	16	13	3.0
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	8.2	6.5	1.5
Total Sulphur	mg/kg	50	MCERTS	140	170	160
Total Sulphur	%	0.005	MCERTS	0.014	0.017	0.016
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	< 0.5	< 0.5	< 0.5
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	20	17	< 2.0
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	10	8.4	< 5.0

Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	< 5.0	< 5.0	9.8
Magnesium (leachate equivalent)	mg/l	2.5	NONE	< 2.5	< 2.5	4.9

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



Analytical Report Number : 21-83003

Project / Site name: Wingates Industrial Estate, Bolton

\* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1914598	HYDTP03	None Supplied	0.50-0.70	Brown clay and loam with vegetation.
1914599	HYDTP33	None Supplied	1.70-1.90	Brown clay and loam with gravel.
1914600	HYDTP15	None Supplied	2.50-2.70	Brown clay and loam with gravel.
1914601	HYDTP09	None Supplied	2.50-2.70	Brown clay and loam with gravel.
1914602	HYDTP12	None Supplied	2.00-2.20	Brown loam and clay with gravel.
1914603	HYDTP08	None Supplied	0.50-0.70	Brown clay and sand with vegetation.
1914604	HYDTP14	None Supplied	1.00-1.20	Brown clay and sand with vegetation.
1914605	HYDTP24	None Supplied	1.00-1.20	Brown clay and sand.

Analytical Report Number : 21-83003

Project / Site name: Wingates Industrial Estate, Bolton

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In house method.	L082-PL	D	MCERTS
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES.	In-house method based on TRL 447	L038-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Nitrate, water soluble, in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Total sulphate (as SO <sub>4</sub> in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Ammonium as NH <sub>4</sub> in soil	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method, 10:1 water extraction.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Total Sulphate in soil as %	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total Sulphur in soil as %	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Water Soluble Nitrate (leachate equivalent)	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS

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

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

## Sample Deviation Report



Analytical Report Number : 21-83003  
Project / Site name: Wingates Industrial Estate, Bolton

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
HYDTP03	None Supplied	S	1914598	a	None Supplied	None Supplied	None Supplied
HYDTP08	None Supplied	S	1914603	a	None Supplied	None Supplied	None Supplied
HYDTP09	None Supplied	S	1914601	a	None Supplied	None Supplied	None Supplied
HYDTP12	None Supplied	S	1914602	a	None Supplied	None Supplied	None Supplied
HYDTP14	None Supplied	S	1914604	a	None Supplied	None Supplied	None Supplied
HYDTP15	None Supplied	S	1914600	a	None Supplied	None Supplied	None Supplied
HYDTP24	None Supplied	S	1914605	a	None Supplied	None Supplied	None Supplied
HYDTP33	None Supplied	S	1914599	a	None Supplied	None Supplied	None Supplied



# TEST CERTIFICATE

## Determination of Dynamic Plate test

Tested in accordance with In House Procedure based upon SHW Design manual IAN73/06

i2 Analytical Ltd  
7 Woodshots Meadow  
Croxley Green Business Park  
Watford Herts WD18 8YS



Client: Hydrock  
Client Address: Northen Assurance Buildings,  
9-21 Princess St,  
Albert Square, Manchester  
Client Postcode: M2 4DN  
Contact: Nick Clark

Client Reference: PO06811  
Job Number: 21-79455\_1  
Date Tested: 08/06/21  
Location: Purhill Field 1  
Tested By: OW  
Weather Conditions: Sunny  
Plate Diameter: 300

Testing Carried Out At: Westhoughton, Bolton

### Test Results:

Test Location	Client Reference	Source / Supplier	Description	Evd (MPa)	Estimated CBR (%)
HYD LWD 06	LWD 06 at 500mm	N/A	SOIL	5.8	0.2
HYD LWD 08	LWD 08 at 150mm	N/A	SOIL	10.3	0.4
HYD LWD 14	LWD 14 at 500mm	N/A	SOIL	41.7	3.8
HYD LWD 09	LWD 09 at 600mm	N/A	SOIL	12.8	0.6
HYD LWD 11	Field 2 LWD 11 at 400mm	N/A	SOIL	18.4	1.1
HYD LWD 05	Field 2 LWD 05 at 400mm	N/A	SOIL	19.9	1.2
HYD LWD 13	Field 2 LWD 13 at 400mm	N/A	SOIL	15.3	0.8

Signed:



Robin Paine  
Geotechnical Regional Manager  
for and on behalf of i2 Analytical Ltd

SSF125.3

Date Reported: 10/06/21

Page: 1 of 1

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report are representative of the samples submitted for analysis.

# TEST CERTIFICATE

## Determination of Dynamic Plate test

Tested in accordance with In House Procedure based upon SHW Design manual IAN73/06

i2 Analytical Ltd  
7 Woodshots Meadow  
Croxley Green Business Park  
Watford Herts WD18 8YS



Client: Hydrock  
Client Address: Northern Assurance Buildings,  
9-21 Princess St,  
Albert Square, Manchester  
Client Postcode: M2 4DN  
Contact: Nick Clark

Client Reference: PO06811  
Job Number: 21-79697\_1  
Date Tested: 09/06/21  
Location: Refer to  
Hydrock Site  
Tested By: NS  
Weather Conditions: Sunny  
Plate Diameter: 300

Testing Carried Out At: Westhoughton, Bolton

### Test Results:

Test Location	Client Reference	Source / Supplier	Description	Evd (MPa)	Estimated CBR (%)
HYD LWD 10	LWD 10 at 450mm	N/A	Light brown silty SAND	55.8	6.0
HYD LWD 15	LWD 15 at 600mm	N/A	Mottled CLAY	22.0	1.4
HYD LWD 18	LWD 18 at 500mm	N/A	Mottled CLAY	15.4	0.8
HYD LWD 19	LWD 19 at 500mm	N/A	Mottled CLAY	19.2	1.1
HYD LWD 22	LWD 22 at 450mm	N/A	Dark brown CLAY	21.6	1.4
HYD LWD 23	LWD 23 at 350mm	N/A	Light brown CLAY	13.8	0.7
HYD LWD 21	LWD 21 at 400mm	N/A	Mottled CLAY	13.7	0.7

Tested using Zorn LWD

Signed:



Robin Paine  
Geotechnical Regional Manager  
for and on behalf of i2 Analytical Ltd

SSF125.3

Date Reported: 10/06/21

Page: 1 of 1

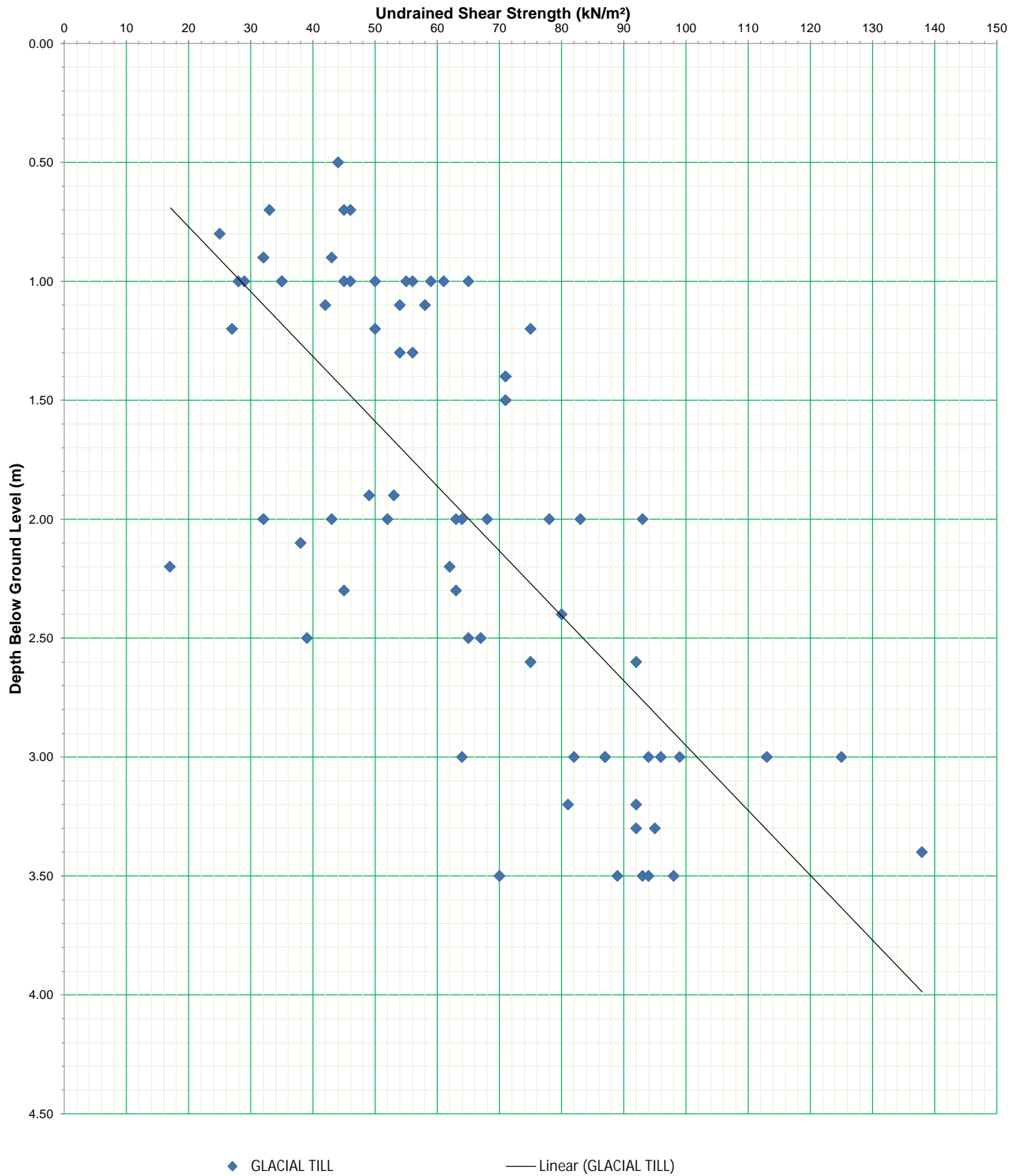
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## Geotechnical Plots

**Site:**  
Wingates Industrial Estate, Bolton

**Client:**  
Harworth Estate Property Group Ltd.

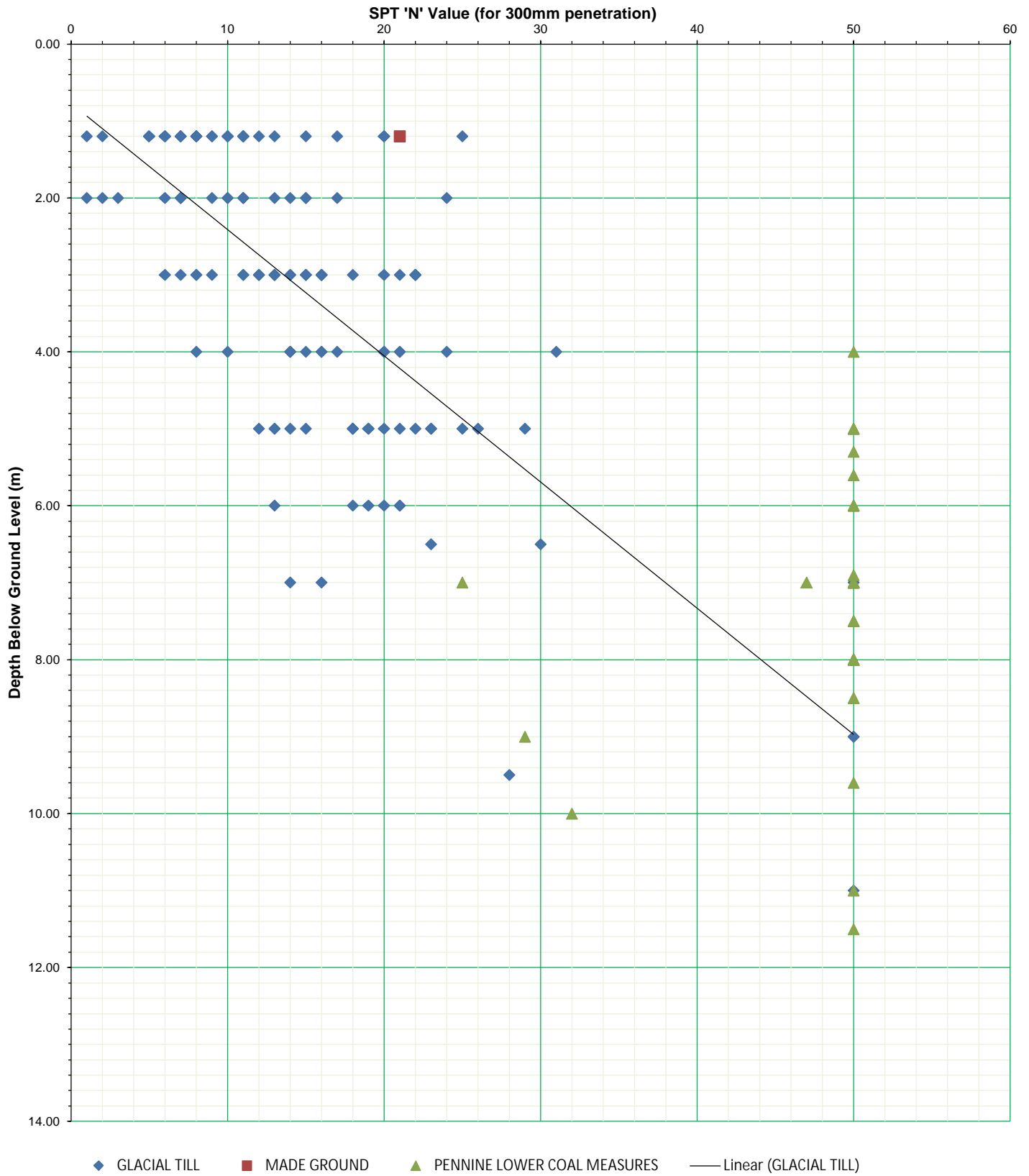
<b>Contract No.</b>	15592-GNMA
Hand Shear Vane	



Site:  
Wingates Industrial Estate, Bolton

Client:  
Harworth Estate Property Group Ltd.

Contract No.	15592-GNMA
All Data	





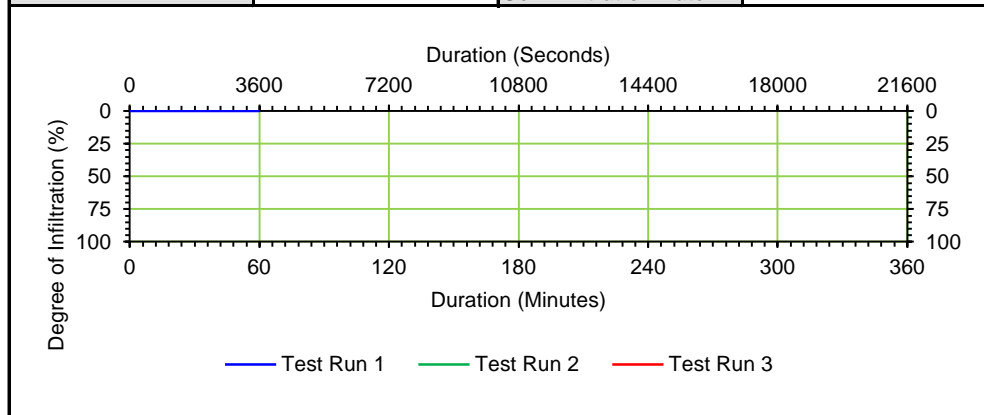




### 1 DAY INFILTRATION ASSESSMENT - WORKSHEET

Site: Wingates Ind. Estate  
 Client: Harworth Property Estates Ltd  
 Test Location: Soakaway 01 Date of start: 17/06/2021 Date at end: 17/06/2021

Test Run 1				Test Run 2				Test Run 3			
Pit Dimensions (m)				Pit Dimensions (m)				Pit Dimensions (m)			
Trial Pit Length (L)		2.500m		Trial Pit Length (L)				Trial Pit Length (L)			
Trial Pit Breadth / Width (B)		0.700m		Trial Pit Breadth / Width (B)				Trial Pit Breadth / Width (B)			
Effective Depth (D)		1.000m		Effective Depth (D)				Effective Depth (D)			
Time at Start of Filling		10.40		Time at Start of Filling				Time at Start of Filling			
Time at End of Filling		10.46		Time at End of Filling				Time at End of Filling			
Depth from Surface to Water (D <sub>TW</sub> )		0.300m		Depth below Surface to Water (D <sub>TW</sub> )				Depth below Surface to Water (D <sub>TW</sub> )			
Water Depth (W <sub>D</sub> )		0.700m		Water Depth (W <sub>D</sub> )		-		Water Depth (W <sub>D</sub> )		-	
Maximum Fill Volume (V <sub>w</sub> )		1.225m <sup>3</sup>		Maximum Fill Volume (V <sub>w</sub> )		-		Maximum Fill Volume (V <sub>w</sub> )		-	
Gravel used to backfill Test Pit		No		Gravel used to backfill Test Pit				Gravel used to backfill Test Pit			
Porosity of Gravel Backfill (P <sub>t</sub> )				Porosity of Gravel Backfill (P <sub>t</sub> )				Porosity of Gravel Backfill (P <sub>t</sub> )			
Corrected Water Volume (V <sub>wc</sub> )		1.225m <sup>3</sup>		Corrected Water Volume (V <sub>wc</sub> )		-		Corrected Water Volume (V <sub>wc</sub> )		-	
Time to soakaway				Time to soakaway				Time to soakaway			
Time		Depth to water	Duration	Time		Depth to water	Duration	Time		Depth to water	Duration
Day	Time	(m bgl)	Seconds	Day	Time	(m bgl)	Seconds	Day	Time	(m bgl)	Seconds
1	10.460	0.300	0								
1	10.465	0.300	30								
1	10.470	0.300	60								
1	10.475	0.300	90								
1	10.480	0.300	120								
1	10.500	0.300	240								
1	10.520	0.300	360								
1	10.540	0.300	480								
1	10.560	0.300	600								
1	11.010	0.300	900								
1	11.060	0.300	1200								
1	11.110	0.300	1500								
1	11.160	0.300	1800								
1	11.310	0.300	2700								
1	11.460	0.300	3600								
			3600								
			3600								
			3600								
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			3600								
			3600								
			3600								
			3600								
			3600								
			3600								
			3600								
			3600								
25% water loss (75% full)		0.475m		25% water loss (75% full)		-		25% water loss (75% full)		-	
50% water loss (50% full)		0.650m		50% water loss (50% full)		-		50% water loss (50% full)		-	
75% water loss (25% full)		0.825m		75% water loss (25% full)		-		75% water loss (25% full)		-	
25% time (seconds)		-		25% time (seconds)		-		25% time (seconds)		-	
75% time (seconds)		-		75% time (seconds)		-		75% time (seconds)		-	
Vp 75-25		0.613m <sup>3</sup>		Vp 75-25		-		Vp 75-25		-	
ap 50 (Actual area from test)		3.990m <sup>3</sup>		ap 50 (Actual area from test)		-		ap 50 (Actual area from test)		-	
tp 75 - 25				tp 75 - 25				tp 75 - 25			
Soil Infiltration Rate		-		Soil Infiltration Rate		-		Soil Infiltration Rate		-	



Form completed by		
Tested By	PRINT	
	SIGN	
	DATE	
Calculated By	PRINT	
	SIGN	
	DATE	
Checked by	PRINT	
	SIGN	
	DATE	



**1 DAY INFILTRATION ASSESSMENT - AIDE MEMOIR**

Site: Wingates Ind. Estate  
 Client: Harworth Property Estates Ltd  
 Test Location: HYDTP30      Date of start: 17/06/2021      Date at end: 17/06/2021

ANTICIPATED GROUND PROFILE FROM DESK STUDY	ACTUAL GROUND PROFILE FROM EXCAVATION
GROUND LEVEL	GROUND LEVEL
	0.00 - 0.35 Topsoil
	0.35 - 1.20 Glacial Till
BASE OF PIT	BASE OF PIT      1.20m

**INFILTRATION ASSESSMENT PIT TYPICAL DIMENSIONS**

**Cross-Section**

Typically 1.5 to 2.5m

Typically 2 to 3m

**Plan**

Typically 0.60m

Typically 2 to 3m

ACTUAL DIMENSIONS			
L			
B			
D			
D <sub>TW</sub>			
W <sub>D</sub>			

**Abbreviations:**

L: Length of Infiltration Assessment Pit.  
 B: Breadth / Width of Infiltration Assessment Pit.  
 D: Depth of Infiltration Assessment Pit.  
 D<sub>TW</sub>: Initial Depth to Top of Water.  
 W<sub>D</sub>: Calculated Water Depth.

**Notes:**

- Each Assessment shall be limited to a single stratum.
- The base of the Infiltration Assessment Pit shall be below all Made Ground.
- The water level shall not be raised above the base of the Made Ground.
- The base of the Infiltration Assessment Pit shall be at least 1m into the stratum which is to be assessed.
- The base of the Infiltration Assessment Pit shall be above the Water Table.
- Minimum target depth of water of 1.0m.
- Where any of the above conditions cannot be met, it shall be reported immediately to the Project Manager for additional guidance before the test is commenced.

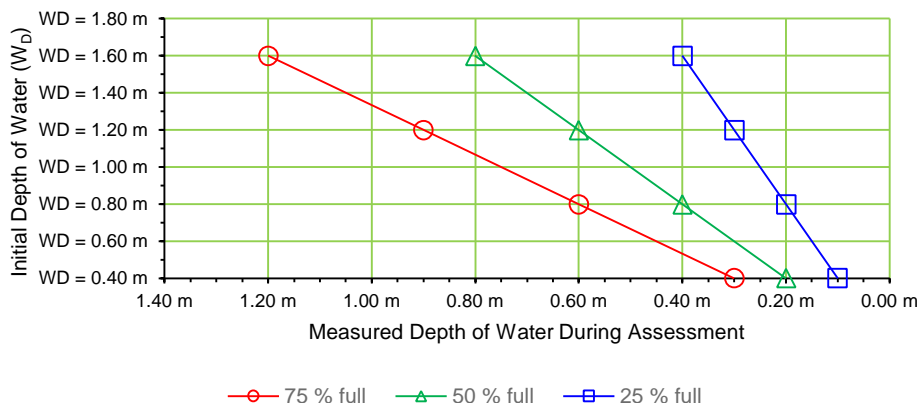
Calculated Water Depth (W<sub>D</sub>) = D - D<sub>TW</sub>

Maximum Fill Volume (V<sub>w</sub>) = W<sub>D</sub> x B x L

Corrected Water Volume (V<sub>wc</sub>) = V<sub>w</sub> x Gravel Porosity (P<sub>t</sub>)

Infiltration	RUN 1		RUN 2		RUN 3		SITE OBSERVATIONS - VOLUME LOSS	
	W <sub>D</sub>	D <sub>TW1</sub>	W <sub>D</sub>	D <sub>TW2</sub>	W <sub>D</sub>	D <sub>TW3</sub>	Test Run	Infiltration Records up to 6 Hours
75% full								Comments
25% full								

**Assessment of Degree of Infiltration**



1	<25%	Unlikely without significant attenuation
	<75%	Requires additional BRE DG365 testing
	>75%	Refer to results of Run 2
2	<25%	Unlikely without significant attenuation
	<75%	Requires additional BRE DG365 testing
	>75%	Refer to results of Run 3
3	<25%	Unlikely without significant attenuation
	<75%	Requires additional BRE DG365 testing
	>75%	Indicative Infiltration Rate achieved.





**1 DAY INFILTRATION ASSESSMENT - AIDE MEMOIR**

Site: Wingates Ind. Estate  
 Client: Harworth Property Estates Ltd  
 Test Location: HYDTP33 Date of start: 17/06/2021 Date at end: 17/06/2021

ANTICIPATED GROUND PROFILE FROM DESK STUDY		ACTUAL GROUND PROFILE FROM EXCAVATION	
GROUND LEVEL		GROUND LEVEL	
		0.00 - 0.40	Topsoil
		0.40 - 1.30	Glacial Till
BASE OF PIT		BASE OF PIT 1.30m	

**INFILTRATION ASSESSMENT PIT TYPICAL DIMENSIONS**

**Cross-Section**

Typically 1.5 to 2.5m

Typically 2 to 3m

Typically 0.60m

ACTUAL DIMENSIONS			
L			
B			
D			
D <sub>TW</sub>			
W <sub>D</sub>			

**Abbreviations:**  
 L: Length of Infiltration Assessment Pit.  
 B: Breadth / Width of Infiltration Assessment Pit.  
 D: Depth of Infiltration Assessment Pit.  
 D<sub>TW</sub>: Initial Depth to Top of Water.  
 W<sub>D</sub>: Calculated Water Depth.

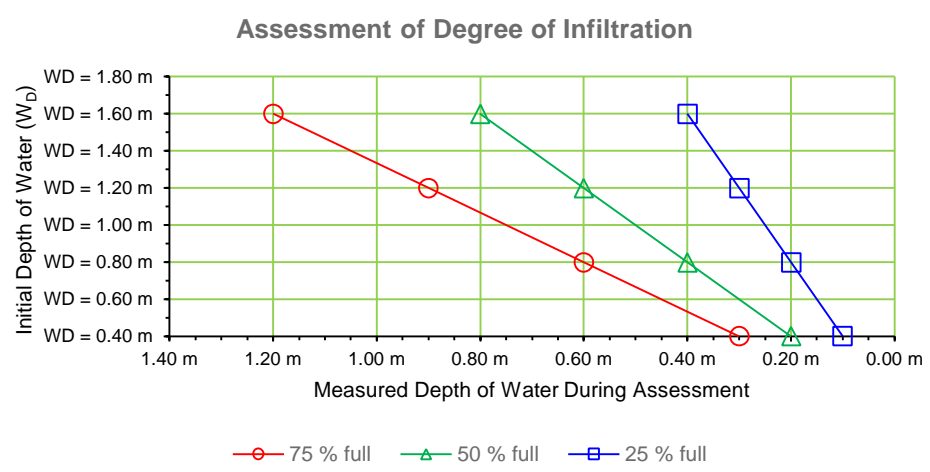
**Notes:**  
 1. Each Assessment shall be limited to a single stratum.  
 2. The base of the Infiltration Assessment Pit shall be below all Made Ground.  
 3. The water level shall not be raised above the base of the Made Ground.  
 4. The base of the Infiltration Assessment Pit shall be at least 1m into the stratum which is to be assessed.  
 5. The base of the Infiltration Assessment Pit shall be above the Water Table.  
 6. Minimum target depth of water of 1.0m.  
 7. Where any of the above conditions cannot be met, it shall be reported immediately to the Project Manager for additional guidance before the test is commenced.

Calculated Water Depth (W<sub>D</sub>) = D - D<sub>TW</sub>

Maximum Fill Volume (V<sub>w</sub>) = W<sub>D</sub> x B x L

Corrected Water Volume (V<sub>wc</sub>) = V<sub>w</sub> x Gravel Porosity (P<sub>t</sub>)

Infiltration	RUN 1		RUN 2		RUN 3		SITE OBSERVATIONS - VOLUME LOSS			
	W <sub>D</sub>	D <sub>TW1</sub>	W <sub>D</sub>	D <sub>TW2</sub>	W <sub>D</sub>	D <sub>TW3</sub>	Test Run	Infiltration Records up to 6 Hours	Comments	
75% full							1		<25%	Unlikely without significant attenuation
25% full									<75%	Requires additional BRE DG365 testing
							2		>75%	Refer to results of Run 2
									<25%	Unlikely without significant attenuation
							3		<75%	Requires additional BRE DG365 testing
									>75%	Refer to results of Run 3
									<25%	Unlikely without significant attenuation
									<75%	Requires additional BRE DG365 testing
									>75%	Indicative Infiltration Rate achieved.







## Appendix D Ground Gas Risk Assessment

Monitoring round		Borehole details			Pressure and flow				Gas concentrations								GSV		Local conditions				
Date	Time	Borehole	Depth to water or depth of hole if dry (m)	D denotes dry hole	Atmospheric pressure (hPa)	Atm pressure falling / rising / steady	Relative BH pressure (hPa)	Gas flow* (l/hr)	Gas flow* (absolute value) (l/hr)	CH <sub>4</sub> (%v/v)		CH <sub>4</sub> (%LEL)		CO <sub>2</sub> (%v/v)		O <sub>2</sub> (%v/v)		Other Gases		Gas Screening Value (CH <sub>4</sub> ) (l/hr)	Gas Screening Value (CO <sub>2</sub> ) (l/hr)	Notes on condition of borehole and surrounding ground	
										Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	CO (PPM)	H <sub>2</sub> S (PPM)				
					<b>Max. individual values:</b>				11.9	0.2	4.0	9.6	21.0	0.000	0.360								
					<b>Min. individual values:</b>				0.0	0.0	0.0	0.0	0.4	0.000	0.000								
					<b>Worst-case GSVs based on max. individual flow and max. individual conc. over the duration of this table:</b>				0.0238	1.1424													
22/06/21	AM	CP01	1.19		1010	S	0.0	0.1	0.1	0.0	0.0	0	0	0.8	0.8	19.8	19.8	3.0	1.0	0.000	0.001	base of hole: 7.56m	
22/06/21	AM	CP04	8.26		1010	S	0.0	0.1	0.1	0.0	0.0	0.0	0.0	2.2	1.6	19.1	19.3	4.0	1.0	0.000	0.002	base of hole: 9.82m	
22/06/21	AM	CP05	2.19		1010	S	0.1	0.1	0.1	0.0	0.0	0.0	0.0	2.4	2.4	18.6	18.6	1.0	0.0	0.000	0.002	base of hole: 8.17m	
22/06/21	AM	CP06	8.62		1009	S	0.2	0.1	0.1	0.0	0.0	0.0	0.0	4.9	4.9	14.8	14.8	0.0	0.0	0.000	0.005	base of hole:10.21m	
22/06/21	AM	CP07	2.44		1009	S	0.0	0.1	0.1	0.0	0.0	0.0	0.0	1.5	1.5	19.0	19.0	0.0	0.0	0.000	0.002	base of hole: 7.18m	
22/06/21	AM	CP11	6.53		1009	S	0.1	0.1	0.1	0.3	0.2	6	4	5.1	5.1	14.7	14.7	1.0	0.0	0.000	0.005	base of hole: 7.14m	
22/06/21	AM	CP12	6.67		1009	S	-0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.1	20.7	20.7	0.0	0.0	0.000	0.000	base of hole: 6.80m	
22/06/21	AM	CP13	7.95		1010	S	-5.8	-1.7	1.7	0.0	0.0	0.0	0.0	0.5	0.5	14.8	14.8	58.0	14.0	0.000	0.009	base of hole: 8.19m	
22/06/21	AM	CP15	3.79	D	1009	S	0.0	0.1	0.1	0.0	0.0	0.0	0.0	1.5	1.5	17.6	17.6	1.0	0.0	0.000	0.002	borehole dry	
22/06/21	AM	CP18	1.81		1009	S	-0.1	0.1	0.1	0.0	0.0	0.0	0.0	2.4	2.4	18.8	18.8	0.0	0.0	0.000	0.002	base of hole: 6.46m	
22/06/21	AM	CP19	7.13	D	1010	S	-0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.2	20.4	20.4	0.0	0.0	0.000	0.000	borehole dry	
22/06/21	AM	CP20	4.91		1010	S	0.1	0.1	0.1	0.1	0.1	2	2	5.6	5.6	4.3	4.3	6.0	1.0	0.000	0.006	base of hole: 5.76m	
22/06/21	AM	CP22	1.64		1011	S	0.1	0.1	0.1	0.0	0.0	0.0	0.0	4.5	4.5	16.1	16.1	1.0	0.0	0.000	0.005	base of hole: 7.24m	
22/06/21	AM	CP25	2.39		1010	S	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.4	0.4	20.2	20.2	2.0	0.0	0.000	0.000	base of hole: 8.39m	
22/06/21	AM	CP26	0.89		1012	S	-0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	20.6	20.6	0.0	0.0	0.000	0.000	base of hole: 3.84m	
22/06/21	AM	CP30	5.67		1010	S	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.5	0.4	20.6	20.6	4.0	1.0	0.000	0.000	base of hole: 7.90m	
22/06/21	AM	CP31	1.23		1011	S	-0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	20.6	20.6	0.0	0.0	0.000	0.000	base of hole: 5.24m	
22/06/21	AM	RO11	9.59		1009	S	0.0	0.1	0.1	0.1	0.1	2	2	4.5	3.5	16.0	16.5	2.0	1.0	0.000	0.004	base of hole: 16.51m. no bung/valve	
22/06/21	AM	RO14	1.03		1010	S	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	20.7	20.7	0.0	0.0	0.000	0.000	base of hole: 1.21m. open hole	
22/06/21	AM	WS01	2.19		1010	S	0.0	0.1	0.1	0.0	0.0	0.0	0.0	3.2	3.2	17.5	17.5	21.0	1.0	0.000	0.003	base of hole: 2.72m	
22/06/21	AM	WS02	1.12		1009	S	0.0	0.1	0.1	0.0	0.0	0.0	0.0	1.4	1.4	20.2	20.2	6.0	2.0	0.000	0.001	base of hole: 2.31m	
22/06/21	AM	WS03	1.44		1010	S	0.1	0.1	0.1	0.0	0.0	0.0	0.0	2.8	2.8	19.3	19.3	1.0	1.0	0.000	0.003	base of hole: 2.73m	
22/06/21	AM	WS04	1.11		1010	S	5.4	1.7	1.7	0.0	0.0	0.0	0.0	1.3	1.3	19.5	19.5	15.0	3.0	0.000	0.022	base of hole: 2.18m	
22/06/21	AM	WS05	1.39		1009	S	0.0	0.1	0.1	0.0	0.0	0.0	0.0	1.0	1.0	19.4	19.4	1.0	0.0	0.000	0.001	base of hole: 3.45m	
22/06/21	AM	WS06	2.06		1009	S	0.0	0.1	0.1	0.0	0.0	0.0	0.0	2.3	2.3	18.1	18.1	6.0	0.0	0.000	0.002	base of hole: 3.44m	

Monitoring round		Borehole details			Pressure and flow					Gas concentrations								GSV		Local conditions		
Date	Time	Borehole	Depth to water or depth of hole if dry (m)	D denotes dry hole	Atmospheric pressure (hPa)	Atm pressure falling / rising / steady	Relative BH pressure (hPa)	Gas flow* (l/hr)	Gas flow* (absolute value) (l/hr)	CH <sub>4</sub> (%v/v)		CH <sub>4</sub> (%LEL)		CO <sub>2</sub> (%v/v)		O <sub>2</sub> (%v/v)		Other Gases		Gas Screening Value (CH <sub>4</sub> ) (l/hr)	Gas Screening Value (CO <sub>2</sub> ) (l/hr)	Notes on condition of borehole and surrounding ground
										Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	CO (PPM)	H <sub>2</sub> S (PPM)			
22/06/21	AM	WS07	1.58		1010	S	0.1	0.1	0.1	0.0	0.0	0.0	0.0	3.0	3.0	18.2	18.2	0.0	0.0	0.000	0.003	base of hole: 3.95m
22/06/21	AM	WS08	2.02		1009	S	0.0	0.1	0.1	0.0	0.0	0.0	0.0	2.2	2.2	18.8	18.8	1.0	0.0	0.000	0.002	base of hole: 2.20m
22/06/21	AM	WS09	1.37		1010	S	0.2	0.1	0.1	0.0	0.0	0.0	0.0	2.5	2.5	19.1	19.1	0.0	2.0	0.000	0.003	base of hole: 3.45m
22/06/21	AM	WS10	1.02		1009	S	-0.1	0.1	0.1	0.0	0.0	0.0	0.0	3.2	3.2	18.7	18.7	0.0	0.0	0.000	0.003	base of hole: 3.93m
22/06/21	AM	WS11	1.17		1011	S	0.0	0.1	0.1	0.0	0.0	0.0	0.0	2.3	2.3	19.3	19.3	2.0	0.0	0.000	0.002	base of hole: 3.70m
06/08/21	AM	CP01	0.96		979	R	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.5	0.1	20.4	20.7	2.0	0.0	0.000	0.000	base of hole: 7.52m
06/08/21	AM	CP04	6.89		979	R	0.0	0.1	0.1	0.0	0.0	0.0	0.0	4.0	2.9	18.8	18.8	1.0	0.0	0.000	0.003	base of hole: 9.82m
06/08/21	AM	CP05	2.27		979	R	16.7	4.7	4.7	0.0	0.0	0.0	0.0	5.9	5.9	15.8	15.8	0.0	0.0	0.000	0.277	base of hole: 8.15m
06/08/21	AM	CP06	2.52		979	R	0.1	0.1	0.1	0.0	0.0	0.0	0.0	9.3	9.3	3.4	3.4	0.0	0.0	0.000	0.009	base of hole:10.21m
06/08/21	AM	CP07	2.16		979	R	0.1	0.1	0.1	0.0	0.0	0.0	0.0	3.8	3.8	18.1	18.1	0.0	0.0	0.000	0.004	base of hole: 7.17m
06/08/21	AM	CP11	6.46		979	R	0.1	0.1	0.1	0.1	0.1	2	2	8.2	8.2	11.8	11.8	0.0	0.0	0.000	0.008	base of hole: 7.13m
06/08/21	AM	CP12	6.47		979	R	7.9	2.5	2.5	0.0	0.0	0.0	0.0	4.5	4.5	4.3	4.3	0.0	0.0	0.000	0.113	base of hole: 6.80m
06/08/21	AM	CP13	8.19	D	980	R	9.5	3.0	3.0	0.0	0.0	0.0	0.0	1.8	1.8	8.2	8.2	4.0	0.0	0.000	0.054	borehole dry
06/08/21	AM	CP15	3.79	D	979	R	0.0	0.1	0.1	0.0	0.0	0.0	0.0	3.3	3.3	12.0	12.0	0.0	0.0	0.000	0.003	borehole dry
06/08/21	AM	CP18	0.95		978	R	0.1	0.1	0.1	0.0	0.0	0.0	0.0	3.9	3.9	18.3	18.3	0.0	0.0	0.000	0.004	base of hole: 6.45m
06/08/21	AM	CP19	7.13	D	980	R	2.4	0.9	0.9	0.0	0.0	0.0	0.0	1.5	1.5	2.4	2.4	0.0	0.0	0.000	0.014	borehole dry
06/08/21	AM	CP20	4.85		980	R	0.1	0.1	0.1	0.0	0.0	0.0	0.0	5.5	4.6	8.3	8.4	1.0	0.0	0.000	0.005	base of hole: 5.76m
06/08/21	AM	CP22	1.06		981	R	-0.3	0.1	0.1	0.0	0.0	0.0	0.0	4.0	4.0	17.9	17.9	3.0	0.0	0.000	0.004	base of hole: 8.27m.
06/08/21	AM	CP25	2.29		980	R	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.7	0.7	20.3	20.3	2.0	0.0	0.000	0.001	base of hole: 8.44m
06/08/21	AM	CP26	0.31		980	R	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.6	0.6	20.1	20.1	3.0	0.0	0.000	0.001	base of hole: 3.73m
06/08/21	AM	CP30	5.54		980	R	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.7	0.5	20.2	20.7	1.0	0.0	0.000	0.001	base of hole: 7.90m
06/08/21	AM	CP31	1.31		979	R	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.2	19.9	19.9	1.0	0.0	0.000	0.000	base of hole: 5.25m
06/08/21	AM	RO11	9.47		979	R	0.0	0.1	0.1	0.1	0.1	2	2	0.9	0.9	14.9	14.9	0.0	0.0	0.000	0.001	base of hole: 16.50m. no bung/valve
06/08/21	AM	RO14																				Unable to locate - open hole in long grass
06/08/21	AM	WS01	1.68		979	R	0.0	0.1	0.1	0.0	0.0	0.0	0.0	5.3	5.3	14.1	14.1	8.0	0.0	0.000	0.005	base of hole: 2.70m
06/08/21	AM	WS02	1.00		980	R	0.0	0.1	0.1	0.0	0.0	0.0	0.0	2.1	2.1	18.7	18.7	4.0	0.0	0.000	0.002	base of hole: 2.31m
06/08/21	AM	WS03	1.24		980	R	0.0	0.1	0.1	0.0	0.0	0.0	0.0	4.2	4.2	17.6	17.6	0.0	0.0	0.000	0.004	base of hole: 2.70m
06/08/21	AM	WS04	1.05		979	R	51.6	11.9	11.9	0.0	0.0	0.0	0.0	1.8	1.8	19.8	19.8	8.0	0.0	0.000	0.214	base of hole: 2.18m
06/08/21	AM	WS05	0.61		979	R	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.5	0.5	20.4	20.4	2.0	0.0	0.000	0.001	base of hole: 3.43m
06/08/21	AM	WS06	0.81		979	R	36.6	8.6	8.6	0.0	0.0	0.0	0.0	1.7	1.7	19.3	19.3	8.0	0.0	0.000	0.146	base of hole: 3.41m
06/08/21	AM	WS07	1.02		979	R	0.1	0.1	0.1	0.0	0.0	0.0	0.0	2.7	2.7	18.3	18.3	0.0	0.0	0.000	0.003	base of hole: 3.95m
06/08/21	AM	WS08	1.85		979	R	0.0	0.1	0.1	0.0	0.0	0.0	0.0	3.4	3.4	17.9	17.9	1.0	0.0	0.000	0.003	base of hole: 2.20m
06/08/21	AM	WS09	0.63		980	R	0.1	0.1	0.1	0.0	0.0	0.0	0.0	1.2	1.1	20.3	20.3	1.0	0.0	0.000	0.001	base of hole: 3.40m
06/08/21	AM	WS10	0.33		979	R	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.7	0.7	20.2	20.2	2.0	0.0	0.000	0.001	base of hole: 3.92m
06/08/21	AM	WS11	0.67		980	R	0.0	0.1	0.1	0.0	0.0	0.0	0.0	4.1	4.1	15.6	15.6	4.0	0.0	0.000	0.004	base of hole: 3.70m
13/08/21	AM	CP01	1.38		1003	S	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.2	20.6	20.6	3.0	0	0.000	0.000	base of hole: 7.51m
13/08/21	AM	CP04	7.23		1002	S	-4.9	-0.5	0.5	0.0	0.0	0.0	0.0	7.9	5.8	15.3	16.2	2.0	0	0.000	0.029	base of hole: 9.82m

Monitoring round		Borehole details			Pressure and flow					Gas concentrations							GSV		Local conditions			
Date	Time	Borehole	Depth to water or depth of hole if dry (m)	D denotes dry hole	Atmospheric pressure (hPa)	Atm pressure falling / rising / steady	Relative BH pressure (hPa)	Gas flow* (l/hr)	Gas flow* (absolute value) (l/hr)	CH <sub>4</sub> (%v/v)		CH <sub>4</sub> (%LEL)		CO <sub>2</sub> (%v/v)		O <sub>2</sub> (%v/v)		Other Gases		Gas Screening Value (CH <sub>4</sub> ) (l/hr)	Gas Screening Value (CO <sub>2</sub> ) (l/hr)	Notes on condition of borehole and surrounding ground
										Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	CO (PPM)	H <sub>2</sub> S (PPM)			
13/08/21	AM	CP05	2.15		1004	S	-0.6	-0.1	0.1	0.0	0.0	0.0	0.0	6.4	6.4	14.9	14.9	0.0	0	0.000	0.006	base of hole: 8.16m
13/08/21	AM	CP06	5.66		1003	S	-0.1	0.1	0.1	0.0	0.0	0.0	0.0	8.4	8.4	4.2	4.2	0.0	0	0.000	0.008	base of hole:10.21m
13/08/21	AM	CP07	2.21		1003	S	0.1	0.1	0.1	0.0	0.0	0.0	0.0	3.5	2.8	18.3	18.3	0.0	0	0.000	0.003	base of hole: 7.17m
13/08/21	AM	CP11	6.18		1003	S	0.0	0.1	0.1	0.2	0.1	4	2	10.1	2.8	14.2	18.0	0.0	0	0.000	0.003	base of hole: 7.14m
13/08/21	AM	CP12	6.48		1003	S	-2.6	-0.7	0.7	0.0	0.0	0.0	0.0	0.3	0.1	20.5	20.7	0.0	0	0.000	0.001	base of hole: 6.80m
13/08/21	AM	CP13	8.19	D	1003	S	-4.4	-1.1	1.1	0.0	0.0	0.0	0.0	0.2	0.1	20.4	21.0	0.0	0	0.000	0.001	borehole dry
13/08/21	AM	CP15	3.69		1003	S	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.5	0.5	19.9	19.9	1.0	0	0.000	0.001	base of hole: 3.79m
13/08/21	AM	CP18	0.46		1002	S	0.8	0.1	0.1	0.0	0.0	0.0	0.0	4.5	4.5	18.4	18.4	0.0	0	0.000	0.005	base of hole: 6.45m
13/08/21	AM	CP19	7.13	D	1004	S	-3.4	-0.8	0.8	0.0	0.0	0.0	0.0	4.9	4.9	0.6	0.6	0.0	0	0.000	0.039	borehole dry
13/08/21	AM	CP20	5.19		1004	S	0.4	0.1	0.1	0.0	0.0	0.0	0.0	2.7	2.1	16.9	17.2	1.0	0	0.000	0.002	base of hole: 5.77m
13/08/21	AM	CP22	0.83		1005	S	0.1	0.1	0.1	0.0	0.0	0.0	0.0	1.2	1.2	19.9	19.9	2.0	0	0.000	0.001	base of hole: 7.09m
13/08/21	AM	CP25	2.39		1004	S	-0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.7	0.7	20.0	20.0	3.0	0	0.000	0.001	base of hole: 8.47m
13/08/21	AM	CP26	0.29		1005	S	-4.3	-0.4	0.4	0.0	0.0	0.0	0.0	0.1	0.1	20.8	20.8	0.0	0	0.000	0.000	base of hole: 3.73m
13/08/21	AM	CP30	5.63		1004	S	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.8	0.7	20.1	20.4	2.0	0	0.000	0.001	base of hole: 7.90m
13/08/21	AM	CP31	0.63		1005	S	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.0	20.9	21.0	2.0	0	0.000	0.000	base of hole: 5.12m
13/08/21	AM	RO11	9.54		1003	S	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.3	0.3	20.5	20.5	0.0	0	0.000	0.000	base of hole: 16.47m. no bung/valve
13/08/21	AM	RO14																				Unable to locate - open hole in long grass
13/08/21	AM	WS01	1.41		1004	S	13.0	4.5	4.5	0.0	0.0	0.0	0.0	3.9	3.9	17.0	17.0	12.0	1	0.000	0.176	base of hole: 2.73m
13/08/21	AM	WS02	0.94		1003	S	0.6	0.1	0.1	0.0	0.0	0.0	0.0	1.7	1.7	19.0	19.0	1.0	0	0.000	0.002	base of hole: 2.31m
13/08/21	AM	WS03	0.85		1003	S	-17.1	-4.3	4.3	0.0	0.0	0.0	0.0	1.6	1.6	19.3	19.3	1.0	0	0.000	0.069	base of hole: 2.67m
13/08/21	AM	WS04	0.95		1003	S	46.7	10.7	10.7	0.0	0.0	0.0	0.0	1.7	1.7	19.6	19.6	7.0	0	0.000	0.182	base of hole: 2.18m
13/08/21	AM	WS05	0.50		1003	S	-16.1	-4.3	4.3	0.0	0.0	0.0	0.0	2.0	2.0	20.0	20.0	4.0	0	0.000	0.086	base of hole: 3.43m
13/08/21	AM	WS06	0.58		1003	S	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.3	0.2	20.6	20.7	1.0	0	0.000	0.000	base of hole: 3.41m
13/08/21	AM	WS07	0.77		1003	S	0.0	0.1	0.1	0.0	0.0	0.0	0.0	2.9	2.9	18.6	18.6	2.0	0	0.000	0.003	base of hole: 3.95m
13/08/21	AM	WS08	1.01		1003	S	28.0	7.0	7.0	0.0	0.0	0.0	0.0	3.1	3.1	17.9	17.9	2.0	0	0.000	0.217	base of hole: 2.20m
13/08/21	AM	WS09	0.40		1003	S	0.0	0.1	0.1	0.0	0.0	0.0	0.0	3.5	3.5	19.9	19.9	3.0	0	0.000	0.004	base of hole: 3.49m
13/08/21	AM	WS10	0.18		1003	S	3.1	0.4	0.4	0.0	0.0	0.0	0.0	4.6	4.6	18.7	18.7	4.0	0	0.000	0.018	base of hole: 3.93m
13/08/21	AM	WS11	0.93		1006	S	45.2	10.6	10.6	0.0	0.0	0.0	0.0	3.4	3.4	15.3	15.3	6.0	0	0.000	0.360	base of hole: 3.70m
18/08/21	AM	CP01	0.97		1003	F	-0.4	0.1	0.1	0.0	0.0	0	0	0.5	0.5	20.4	20.4	2.0	0	0.000	0.001	base of hole: 7.50m
18/08/21	AM	CP04	6.82		1003	F	2.1	0.1	0.1	0.0	0.0	0	0	8.5	2.9	15.6	18.6	1.0	0	0.000	0.003	base of hole: 9.82m. Peak flow 0.5l/hr
18/08/21	AM	CP05	2.16		1003	F	-2.7	-0.1	0.1	0.0	0.0	0	0	6.5	6.5	14.5	14.5	0.0	0	0.000	0.007	base of hole: 8.15m. Peak flow -0.6l/hr
18/08/21	AM	CP06	5.10		1003	F	0.1	0.1	0.1	0.0	0.0	0	0	9.5	9.5	2.3	2.3	0.0	0	0.000	0.010	base of hole: 9.85m
18/08/21	AM	CP07	2.20		1003	F	0.1	0.1	0.1	0.0	0.0	0	0	3.0	1.4	18.9	19.5	0.0	0	0.000	0.001	base of hole: 7.17m
18/08/21	AM	CP11	6.29		1003	F	-0.1	0.1	0.1	0.2	0.1	4	2	5.7	2.0	17.1	18.7	0.0	0	0.000	0.002	base of hole: 7.14m
18/08/21	AM	CP12	6.48		1003	F	0.1	0.1	0.1	0.0	0.0	0	0	0.2	0.2	20.8	20.9	0.0	0	0.000	0.000	base of hole: 6.80m
18/08/21	AM	CP13	8.03		1003	F	-0.4	0.1	0.1	0.2	0.1	4	2	2.0	2.0	7.9	7.9	2.0	0	0.000	0.002	base of hole: 8.19m
18/08/21	AM	CP15	3.80	D	1003	F	-0.1	0.1	0.1	0.0	0.0	0	0	2.0	2.0	18.3	18.3	0.0	0	0.000	0.002	borehole dry



Monitoring round		Borehole details			Pressure and flow				Gas concentrations								GSV		Local conditions			
Date	Time	Borehole	Depth to water or depth of hole if dry (m)	D denotes dry hole	Atmospheric pressure (hPa)	Atm pressure falling / rising / steady	Relative BH pressure (hPa)	Gas flow* (l/hr)	Gas flow* (absolute value) (l/hr)	CH <sub>4</sub> (%v/v)		CH <sub>4</sub> (%LEL)		CO <sub>2</sub> (%v/v)		O <sub>2</sub> (%v/v)		Other Gases		Gas Screening Value (CH <sub>4</sub> ) (l/hr)	Gas Screening Value (CO <sub>2</sub> ) (l/hr)	Notes on condition of borehole and surrounding ground
										Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	CO (PPM)	H <sub>2</sub> S (PPM)			
18/08/21	AM	CP18	0.60		1002	F	-43.2	-0.3	0.3	0.0	0.0	0	0	1.7	1.7	19.1	19.1	1.0	0	0.000	0.005	base of hole: 6.46m. Peak flow -9.8l/hr
18/08/21	AM	CP19	7.13	D	1004	F	0.5	0.1	0.1	0.0	0.0	0	0	6.3	6.3	0.7	0.7	0.0	0	0.000	0.006	borehole dry
18/08/21	AM	CP20	4.92		1004	F	0.0	0.1	0.1	0.0	0.0	0	0	5.1	5.0	13.6	13.6	1.0	0	0.000	0.005	base of hole: 5.77m
18/08/21	AM	CP22	0.82		1005	F	0.1	0.1	0.1	0.0	0.0	0	0	0.8	0.8	20.4	20.4	2.0	0	0.000	0.001	base of hole: 7.05m
18/08/21	AM	CP25	2.42		1004	F	4.8	0.1	0.1	0.0	0.0	0	0	0.7	0.7	20.5	20.5	2.0	0	0.000	0.001	base of hole: 8.46m. Peak flow 0.8l/hr
18/08/21	AM	CP26	0.27		1005	F	4.9	0.1	0.1	0.0	0.0	0	0	0.8	0.4	20.1	20.4	1.0	0	0.000	0.000	base of hole: 3.72m. Peak flow 0.3l/hr
18/08/21	AM	CP30	5.61		1004	F	0.0	0.1	0.1	0.0	0.0	0	0	1.0	1.0	20.5	20.5	2.0	0	0.000	0.001	base of hole: 7.91m
18/08/21	AM	CP31	0.65		1004	F	0.0	0.1	0.1	0.0	0.0	0	0	0.3	0.3	20.4	20.4	0.0	0	0.000	0.000	base of hole: 5.13m
18/08/21	AM	RO11	9.82		1003	F	0.0	0.1	0.1	0.0	0.0	0	0	0.1	0.1	20.7	20.8	0.0	0	0.000	0.000	base of hole: 16.79m. Bung/valve fitted
18/08/21	AM	RO13	9.39		1003	F	-0.1	0.1	0.1	0.0	0.0	0	0	6.0	6.0	9.2	9.2	0.0	0	0.000	0.006	base of hole: 14.89m. Alternative hole to RO14
18/08/21	AM	WS01	0.93		1004	F	28.4	0.1	0.1	0.0	0.0	0	0	3.7	3.7	18.0	18.0	11.0	0	0.000	0.004	base of hole: 2.70m. Peak flow 7.0l/hr
18/08/21	AM	WS02	0.66		1003	F	0.3	0.1	0.1	0.0	0.0	0	0	2.5	2.5	20.2	20.2	4.0	0	0.000	0.003	base of hole: 2.27m
18/08/21	AM	WS03	1.11		1003	F	4.3	0.1	0.1	0.0	0.0	0	0	4.1	4.1	18.1	18.1	1.0	0	0.000	0.004	base of hole: 2.66m. Peak flow 0.8l/hr
18/08/21	AM	WS04	0.87		1003	F	44.8	0.4	0.4	0.0	0.0	0	0	1.7	1.7	19.7	19.7	7.0	0	0.000	0.007	base of hole: 2.18m. Peak flow 10.2l/hr
18/08/21	AM	WS05	0.57		1004	F	0.0	0.0	0.1	0.0	0.0	0	0	0.9	0.9	20.4	20.4	1.0	0	0.000	0.000	base of hole: 3.33m
18/08/21	AM	WS06	0.48		1004	F	-0.1	0.0	0.1	0.0	0.0	0	0	0.2	0.2	20.5	20.6	0.0	0	0.000	0.000	base of hole: 3.39m
18/08/21	AM	WS07	0.70		1003	F	4.9	0.0	0.1	0.0	0.0	0	0	2.1	2.1	19.3	19.3	3.0	0	0.000	0.000	base of hole: 3.94m. Peak flow 0.8l/hr
18/08/21	AM	WS08	1.11		1003	F	-16.6	0.0	0.1	0.0	0.0	0	0	2.5	2.5	18.2	18.2	3.0	0	0.000	0.000	base of hole: 2.20m. Peak flow -4.4l/hr
18/08/21	AM	WS09	0.56		1003	F	4.9	0.2	0.2	0.0	0.0	0	0	2.1	1.8	20.4	20.4	2.0	0	0.000	0.004	base of hole: 3.49m. Peak flow 0.5l/hr
18/08/21	AM	WS10	0.22		1003	F	-4.2	-0.1	0.1	0.0	0.0	0	0	0.2	0.2	20.6	20.6	0.0	0	0.000	0.000	base of hole: 3.92m. Peak flow -0.8l/hr
18/08/21	AM	WS11	1.01		1004	F	-6.2	-0.2	0.2	0.0	0.0	0	0	2.8	2.8	16.0	16.0	4.0	0	0.000	0.006	base of hole: 3.70m. Peak flow -1.0l/hr
26/08/21	AM	CP01	0.96		1009	S	0.0	0.1	0.1	0.0	0.0	0	0	0.4	0.2	20.7	20.8	1.0	1	0.000	0.000	base of hole: 7.51m
26/08/21	AM	CP04	6.84		1010	S	-0.1	0.1	0.1	0.0	0.0	0	0	6.2	2.7	17.5	19.1	1.0	0	0.000	0.003	base of hole: 9.82m
26/08/21	AM	CP05	2.19		1009	S	-4.1	-0.3	0.3	0.0	0.0	0	0	6.8	6.7	14.1	14.1	0.0	0	0.000	0.020	base of hole: 8.16m. Peak flow -0.9l/hr
26/08/21	AM	CP06	6.30		1009	S	-3.4	-0.2	0.2	0.0	0.0	0	0	8.8	8.8	2.2	2.2	0.0	0	0.000	0.018	base of hole: 9.78m. Peak flow -0.7l/hr
26/08/21	AM	CP07	2.21		1009	S	-0.1	0.1	0.1	0.0	0.0	0	0	2.6	1.4	19.3	19.7	0.0	0	0.000	0.001	base of hole: 7.17m
26/08/21	AM	CP11	6.41		1009	S	0.0	0.1	0.1	0.3	0.1	6	2	10.4	2.7	14.8	18.5	0.0	0	0.000	0.003	base of hole: 7.14m
26/08/21	AM	CP12	6.48		1009	S	0.7	0.1	0.1	0.0	0.0	0	0	1.4	1.4	17.0	17.0	0.0	0	0.000	0.001	base of hole: 6.80m
26/08/21	AM	CP13	7.99		1010	S	0.6	0.1	0.1	0.0	0.0	0	0	2.1	2.1	8.1	8.1	1.0	1	0.000	0.002	base of hole: 8.19m
26/08/21	AM	CP15	3.80	D	1009	S	0.1	0.1	0.1	0.0	0.0	0	0	3.5	3.5	15.8	15.8	0.0	0	0.000	0.004	borehole dry
26/08/21	AM	CP18	0.78		1008	S	-34.1	-0.2	0.2	0.0	0.0	0	0	4.0	4.0	18.0	18.0	0.0	0	0.000	0.008	base of hole: 6.45m. Peak flow -7.8l/hr
26/08/21	AM	CP19	7.14	D	1011	S	0.3	0.1	0.1	0.0	0.0	0	0	6.4	6.4	0.8	0.8	0.0	0	0.000	0.006	borehole dry
26/08/21	AM	CP20	4.92		1010	S	0.1	0.1	0.1	0.0	0.0	0	0	5.0	4.5	14.7	14.7	2.0	1	0.000	0.005	base of hole: 5.77m
26/08/21	AM	CP22	0.96		1012	S	-13.9	0.1	0.1	0.0	0.0	0	0	0.7	0.7	20.4	20.4	1.0	0	0.000	0.001	base of hole: 7.05m. Peak flow -3.9l/hr
26/08/21	AM	CP25	2.41		1011	S	-0.1	0.1	0.1	0.0	0.0	0	0	1.0	1.0	20.3	20.3	3.0	1	0.000	0.001	base of hole: 8.47m
26/08/21	AM	CP26	0.36		1012	S	0.1	0.1	0.1	0.0	0.0	0	0	0.4	0.3	20.6	20.6	0.0	0	0.000	0.000	base of hole: 3.68m
26/08/21	AM	CP30	5.59		1011	S	1.9	0.1	0.1	0.0	0.0	0	0	1.3	1.3	20.3	20.3	1.0	0	0.000	0.001	base of hole: 7.90m

Monitoring round		Borehole details			Pressure and flow				Gas concentrations								GSV		Local conditions			
Date	Time	Borehole	Depth to water or depth of hole if dry (m)	D denotes dry hole	Atmospheric pressure (hPa)	Atm pressure falling / rising / steady	Relative BH pressure (hPa)	Gas flow* (l/hr)	Gas flow* (absolute value) (l/hr)	CH <sub>4</sub> (%v/v)		CH <sub>4</sub> (%LEL)		CO <sub>2</sub> (%v/v)		O <sub>2</sub> (%v/v)		Other Gases		Gas Screening Value (CH <sub>4</sub> ) (l/hr)	Gas Screening Value (CO <sub>2</sub> ) (l/hr)	Notes on condition of borehole and surrounding ground
										Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	CO (PPM)	H <sub>2</sub> S (PPM)			
26/08/21	AM	CP31	0.74		1012	S	0.1	0.1	0.1	0.0	0.0	0	0	0.2	0.0	20.7	20.9	1.0	1	0.000	0.000	base of hole: 5.10m
26/08/21	AM	RO11	7.81		1009	S	0.1	0.1	0.1	0.0	0.0	0	0	0.1	0.1	20.9	20.9	0.0	0	0.000	0.000	base of hole: 16.80m. Bung/valve missing/retrieved/refitted
26/08/21	AM	RO13	9.20		1009	S	5.1	0.2	0.2	0.0	0.0	0	0	6.5	6.5	7.8	7.8	1.0	0	0.000	0.013	base of hole: 14.29m. Peak flow 1.8l/hr. Alternative hole to RO14
26/08/21	AM	WS01	0.87		1010	S	9.4	0.2	0.2	0.0	0.0	0	0	3.3	3.3	18.4	18.4	12.0	1	0.000	0.007	base of hole: 2.69m. Peak flow 2.6l/hr
26/08/21	AM	WS02	0.69		1010	S	0.1	0.1	0.1	0.0	0.0	0	0	1.9	1.8	20.1	20.4	3.0	1	0.000	0.002	base of hole: 2.26m
26/08/21	AM	WS03	1.04		1010	S	5.0	0.2	0.2	0.0	0.0	0	0	5.1	5.1	17.6	17.6	0.0	0	0.000	0.010	base of hole: 2.67m. Peak flow 0.7l/hr
26/08/21	AM	WS04	0.81		1009	S	22.4	0.1	0.1	0.0	0.0	0	0	1.7	1.7	19.9	19.9	7.0	1	0.000	0.002	base of hole: 2.18m. Peak flow 5.2l/hr
26/08/21	AM	WS05	0.71		1009	S	0.1	0.1	0.1	0.0	0.0	0	0	0.6	0.6	20.6	20.6	1.0	1	0.000	0.001	base of hole: 3.33m
26/08/21	AM	WS06	0.70		1009	S	-0.1	0.1	0.1	0.0	0.0	0	0	0.3	0.2	20.7	20.7	0.0	0	0.000	0.000	base of hole: 3.40m
26/08/21	AM	WS07	0.70		1009	S	-1.2	-0.1	0.1	0.0	0.0	0	0	2.2	2.2	19.8	19.8	4.0	1	0.000	0.002	base of hole: 3.94m. Peak flow 0.2l/hr
26/08/21	AM	WS08	1.19		1009	S	-12.6	-0.2	0.2	0.0	0.0	0	0	2.1	2.1	18.9	18.9	5.0	1	0.000	0.004	base of hole: 2.20m. Peak flow -3.5l/hr
26/08/21	AM	WS09	0.57		1010	S	-0.2	0.1	0.1	0.0	0.0	0	0	2.0	1.9	20.1	20.4	4.0	1	0.000	0.002	base of hole: 3.40m
26/08/21	AM	WS10	0.46		1009	S	-21.0	-0.2	0.2	0.0	0.0	0	0	2.6	2.6	20.2	20.2	0.0	1	0.000	0.005	base of hole: 3.92m. Peak flow -4.9l/hr
26/08/21	AM	WS11	0.84		1011	S	30.0	0.3	0.3	0.0	0.0	0	0	3.4	3.4	14.7	14.7	5.0	1	0.000	0.010	base of hole: 3.70m. Peak flow 7.7/hr
08/09/21	AM	CP01	0.91		1000	F	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	20.5	20.6	0.0	1	0.000	0.000	base of hole: 7.50m
08/09/21	AM	CP04	6.76		1000	F	0.2	0.0	0.0	0.0	0.0	0.0	0.0	4.4	2.2	18.5	19.5	0.0	0	0.000	0.000	base of hole: 9.75m
08/09/21	AM	CP05	2.20		1000	F	-9.5	-0.1	0.1	0.0	0.0	0.0	0.0	7.3	7.3	12.4	12.4	0.0	0	0.000	0.007	base of hole: 8.15m. Peak flow -3.5l/hr
08/09/21	AM	CP06	8.15		1000	F	2.9	0.0	0.0	0.0	0.0	0.0	0.0	9.6	9.6	0.4	0.4	0.0	0	0.000	0.000	base of hole: 9.78m. Peak flow 0.8l/hr
08/09/21	AM	CP07	2.34		1000	F	0.2	0.0	0.0	0.0	0.0	0.0	0.0	4.6	3.5	17.0	17.3	0.0	1	0.000	0.000	base of hole: 7.17m
08/09/21	AM	CP11	6.65		1000	F	0.0	0.0	0.0	0.3	0.0	6	0.0	12.5	2.3	12.4	18.6	0.0	0	0.000	0.000	base of hole: 7.13m
08/09/21	AM	CP12	6.50		999	F	4.6	0.2	0.2	0.0	0.0	0.0	0.0	4.4	4.4	3.0	3.0	0.0	0	0.000	0.009	base of hole: 6.80m. Peak flow 1.7l/hr
08/09/21	AM	CP13	8.19		1001	F	0.2	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	19.1	19.1	1.0	1	0.000	0.000	borehole dry
08/09/21	AM	CP15	3.80		1000	F	9.2	0.2	0.2	0.0	0.0	0.0	0.0	4.8	4.8	12.5	12.5	0.0	0	0.000	0.010	borehole dry. Peak flow 3.5l/hr
08/09/21	AM	CP18	1.08		999	F	-61.8	-0.3	0.3	0.0	0.0	0.0	0.0	5.2	5.2	15.9	15.9	0.0	0	0.000	0.016	base of hole: 6.45m. Peak flow -14.9l/hr
08/09/21	AM	CP19	7.14		1002	F	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	20.7	20.7	0.0	0	0.000	0.000	borehole dry
08/09/21	AM	CP20	4.93		1001	F	0.2	0.0	0.0	0.0	0.0	0.0	0.0	4.3	3.2	14.2	15.0	1.0	0	0.000	0.000	base of hole: 5.70m
08/09/21	AM	CP22	1.40		1002	F	-1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.9	20.9	1.0	1	0.000	0.000	base of hole: 7.06m. Peak flow -0.4l/hr
08/09/21	AM	CP25	2.31		1001	F	8.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	19.8	19.8	4.0	1	0.000	0.000	base of hole: 8.42m. Peak flow 3.1l/hr
08/09/21	AM	CP26	0.70		1002	F	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	20.5	20.6	0.0	0	0.000	0.000	base of hole: 3.65m
08/09/21	AM	CP30	5.55		1001	F	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	20.6	20.7	1.0	0	0.000	0.000	base of hole: 7.81m
08/09/21	AM	CP31	0.98		1002	F	-12.0	-0.1	0.1	0.0	0.0	0.0	0.0	3.1	3.1	15.0	15.0	2.0	1	0.000	0.003	base of hole: 5.07m. Peak flow -3.1l/hr
08/09/21	AM	RO11	9.48		1000	F	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.3	18.6	18.6	0.0	0	0.000	0.000	base of hole: 16.80m. Valve missing
08/09/21	AM	RO13	9.23		1000	F	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	3.0	2.8	15.0	15.2	1.0	0	0.000	0.000	base of hole: 14.26m. Alternative hole to RO14
08/09/21	AM	WS01	1.08		1001	F	-18.3	-0.2	0.2	0.0	0.0	0.0	0.0	3.5	3.5	17.1	17.1	11.0	1	0.000	0.007	base of hole: 2.65m. Peak flow -5.8l/hr
08/09/21	AM	WS02	0.90		1000	F	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	20.4	20.4	1.0	0	0.000	0.000	base of hole: 2.21m
08/09/21	AM	WS03	1.27		1000	F	0.1	0.0	0.0	0.0	0.0	0.0	0.0	5.8	5.8	17.7	17.7	0.0	0	0.000	0.000	base of hole: 2.61m
08/09/21	AM	WS04	0.86		1000	F	-4.9	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	19.5	19.5	8.0	1	0.000	0.000	base of hole: 2.14m. Peak flow -1.8l/hr

Monitoring round		Borehole details			Pressure and flow				Gas concentrations								GSV		Local conditions			
Date	Time	Borehole	Depth to water or depth of hole if dry (m)	D denotes dry hole	Atmospheric pressure (hPa)	Atm pressure falling / rising / steady	Relative BH pressure (hPa)	Gas flow* (l/hr)	Gas flow* (absolute value) (l/hr)	CH <sub>4</sub> (%v/v)		CH <sub>4</sub> (%LEL)		CO <sub>2</sub> (%v/v)		O <sub>2</sub> (%v/v)		Other Gases		Gas Screening Value (CH <sub>4</sub> ) (l/hr)	Gas Screening Value (CO <sub>2</sub> ) (l/hr)	Notes on condition of borehole and surrounding ground
										Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	CO (PPM)	H <sub>2</sub> S (PPM)			
08/09/21	AM	WS05	0.89		1000	F	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.5	20.4	20.4	1.0	1	0.000	0.000	base of hole: 3.32m
08/09/21	AM	WS06	1.04		1000	F	-2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	20.5	20.5	0.0	0	0.000	0.000	base of hole: 3.40m. Peak flow -0.3l/hr
08/09/21	AM	WS07	1.18		999	F	0.1	0.0	0.0	0.0	0.0	0.0	0.0	7.9	7.9	3.0	3.0	1.0	1	0.000	0.000	base of hole: 3.94m
08/09/21	AM	WS08	1.85		999	F	0.1	0.0	0.0	0.0	0.0	0.0	0.0	4.9	4.9	17.8	17.8	1.0	2	0.000	0.000	base of hole: 2.20m
08/09/21	AM	WS09	0.95		1000	F	1.0	0.1	0.1	0.0	0.0	0.0	0.0	6.3	6.3	0.5	0.5	1.0	1	0.000	0.006	base of hole: 3.39m
08/09/21	AM	WS10	0.73		999	F	-29.8	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	20.1	20.1	0.0	1	0.000	0.000	base of hole: 3.92m. Peak flow -7.8l/hr
08/09/21	AM	WS11	0.95		1001	F	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	20.7	20.8	1.0	1	0.000	0.000	base of hole: 3.61m

# Appendix E Contamination Test Results and Statistical Analysis

## Contamination Test Results





**Jason Bradley**  
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## **Analytical Report Number : 21-81116**

<b>Project / Site name:</b>	Wingates	<b>Samples received on:</b>	14/06/2021
<b>Your job number:</b>	15592	<b>Samples instructed on/ Analysis started on:</b>	15/06/2021
<b>Your order number:</b>	PO07757	<b>Analysis completed by:</b>	22/06/2021
<b>Report Issue Number:</b>	1	<b>Report issued on:</b>	22/06/2021
<b>Samples Analysed:</b>	19 soil samples		

**Signed:** 

Izabela Wójcik  
Technical Reviewer (Reporting Team)  
**For & on behalf of i2 Analytical Ltd.**

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

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-81116  
Project / Site name: Wingates

Lab Sample Number				1903415	1903416	1903417	1903418	1903419
Sample Reference				HYDTP06	HYDTP05	HYDTP33	HYDTP31	HYDTP26
Sample Number				ES	ES	ES	ES	ES
Depth (m)				0.30	0.20	0.20	0.20	0.30
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)								
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	25	20	16	16
Total mass of sample received	kg	0.001	NONE	1.0	1.0	1.0	1.0	1.0

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	6.6	5.8	6.2	6.3	6.7
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0035	0.0056	0.0092	0.0049	0.013
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	0.029	0.047	0.028	0.028	0.034

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

#### Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.29	0.60	< 0.05	0.26
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.14	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.46	0.84	0.31	0.40
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.55	1.0	0.36	0.50
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.25	0.40	< 0.05	0.23
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.29	0.53	< 0.05	0.31
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.22	0.41	< 0.05	0.26
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.18	0.24	< 0.05	0.13
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.25	0.35	< 0.05	0.18
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.20	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.27	< 0.05	< 0.05

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	2.49	5.00	< 0.80	2.27

#### Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8.5	21	24	19	17
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.44	0.87	1.2	1.2	0.98
Boron (water soluble)	mg/kg	0.2	MCERTS	0.3	0.6	< 0.2	< 0.2	0.8
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (III)	mg/kg	1	NONE	17	17	30	20	17
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	17	17	30	20	18
Copper (aqua regia extractable)	mg/kg	1	MCERTS	13	43	53	65	38
Lead (aqua regia extractable)	mg/kg	1	MCERTS	30	110	100	88	70
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	15	16	22	20	18
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	21	31	37	34	30
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	38	100	94	98	76

Analytical Report Number: 21-81116  
Project / Site name: Wingates

Lab Sample Number	1903415	1903416	1903417	1903418	1903419
Sample Reference	HYDTP06	HYDTP05	HYDTP33	HYDTP31	HYDTP26
Sample Number	ES	ES	ES	ES	ES
Depth (m)	0.30	0.20	0.20	0.20	0.30
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)					

**Monoaromatics & Oxygenates**

Compound	µg/kg	Limit	MCERTS	1903415	1903416	1903417	1903418	1903419
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	-	-
o-xylene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-

**Petroleum Hydrocarbons**

Compound	mg/kg	Limit	MCERTS	1903415	1903416	1903417	1903418	1903419
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC35	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	-	-	-	-	-

Compound	mg/kg	Limit	MCERTS	1903415	1903416	1903417	1903418	1903419
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	-	-	-	-	-

TPH Total C5 - C44	mg/kg	10	NONE	-	-	-	-	-
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**VOCs**

Compound	µg/kg	Limit	MCERTS	1903415	1903416	1903417	1903418	1903419
Chloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	1	NONE	-	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	-

Analytical Report Number: 21-81116  
Project / Site name: Wingates

Lab Sample Number				1903415	1903416	1903417	1903418	1903419
Sample Reference				HYDTP06	HYDTP05	HYDTP33	HYDTP31	HYDTP26
Sample Number				ES	ES	ES	ES	ES
Depth (m)				0.30	0.20	0.20	0.20	0.30
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)								
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
Styrene	µg/kg	1	MCERTS	-	-	-	-	-
Tribromomethane	µg/kg	1	NONE	-	-	-	-	-
o-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-

VOCs TICs

VOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
VOC % Match	%	N/A	NONE	-	-	-	-	-

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-

Analytical Report Number: 21-81116  
Project / Site name: Wingates

Lab Sample Number				1903415	1903416	1903417	1903418	1903419
Sample Reference				HYDTP06	HYDTP05	HYDTP33	HYDTP31	HYDTP26
Sample Number				ES	ES	ES	ES	ES
Depth (m)				0.30	0.20	0.20	0.20	0.30
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)								
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	-

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-

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



Analytical Report Number: 21-81116  
Project / Site name: Wingates

Lab Sample Number				1903420	1903421	1903422	1903423	1903424
Sample Reference				HYDTP19	HYDTP23	HYDTP16	HYDTP13	HYDTP11
Sample Number				ES	ES	ES	ES	ES
Depth (m)				0.20	0.40	0.50	0.50	0.45
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)								
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	15	15	14	14
Total mass of sample received	kg	0.001	NONE	1.0	1.1	1.1	1.1	1.2

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.5	7.8	7.7	6.3	7.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.015	0.0049	0.0048	0.0058	0.0056
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	0.030	0.016	0.0059	0.011	0.021

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

#### Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.30	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.59	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	0.71	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.34	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.39	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.47	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.15	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.39	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.25	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.31	< 0.05	< 0.05	< 0.05	< 0.05

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	3.90	< 0.80	< 0.80	< 0.80	< 0.80

#### Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	17	6.5	8.9	5.7	14
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.87	0.40	0.63	0.59	0.70
Boron (water soluble)	mg/kg	0.2	MCERTS	0.7	0.2	0.3	< 0.2	0.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (III)	mg/kg	1	NONE	33	17	22	20	17
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	33	18	23	21	17
Copper (aqua regia extractable)	mg/kg	1	MCERTS	43	7.5	16	18	26
Lead (aqua regia extractable)	mg/kg	1	MCERTS	97	13	13	11	47
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	17	12	15	13	16
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	29	24	26	25	27
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	79	29	33	27	58

Analytical Report Number: 21-81116  
Project / Site name: Wingates

Lab Sample Number				1903420	1903421	1903422	1903423	1903424
Sample Reference				HYDTP19	HYDTP23	HYDTP16	HYDTP13	HYDTP11
Sample Number				ES	ES	ES	ES	ES
Depth (m)				0.20	0.40	0.50	0.50	0.45
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)								
<b>Monoaromatics &amp; Oxygenates</b>								
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	-	-
o-xylene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-

**Petroleum Hydrocarbons**

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC35	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	-	-	-	-	-

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	-	-	-	-	-

TPH Total C5 - C44	mg/kg	10	NONE	-	-	-	-	-
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**VOCs**

Chloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	1	NONE	-	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	-

Analytical Report Number: 21-81116  
Project / Site name: Wingates

Lab Sample Number				1903420	1903421	1903422	1903423	1903424
Sample Reference				HYDTP19	HYDTP23	HYDTP16	HYDTP13	HYDTP11
Sample Number				ES	ES	ES	ES	ES
Depth (m)				0.20	0.40	0.50	0.50	0.45
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)								
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
Styrene	µg/kg	1	MCERTS	-	-	-	-	-
Tribromomethane	µg/kg	1	NONE	-	-	-	-	-
o-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-

VOCs TICs

VOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
VOC % Match	%	N/A	NONE	-	-	-	-	-

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-

Analytical Report Number: 21-81116  
Project / Site name: Wingates

Lab Sample Number				1903420	1903421	1903422	1903423	1903424
Sample Reference				HYDTP19	HYDTP23	HYDTP16	HYDTP13	HYDTP11
Sample Number				ES	ES	ES	ES	ES
Depth (m)				0.20	0.40	0.50	0.50	0.45
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)								
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	-

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-

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

Analytical Report Number: 21-81116  
Project / Site name: Wingates

Lab Sample Number				1903425	1903426	1903427	1903428	1903429
Sample Reference				HYDTP25	HYDTP28	HYDTP13	HYDTP11	HYDTP10
Sample Number				ES	ES	ES	ES	ES
Depth (m)				0.50	0.40	0.75	0.30	0.30
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)								
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	16	17	15	16	9.9
Total mass of sample received	kg	0.001	NONE	1.0	1.2	1.2	1.1	1.3

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.1	6.6	7.2	7.1	8.1
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.013	0.0050	0.0060	0.015	0.020
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	0.017	0.0088	0.028	0.022	0.023

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	6.4	10	9.7	17	7.5
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.68	0.61	0.86	0.98	0.49
Boron (water soluble)	mg/kg	0.2	MCERTS	0.3	0.3	0.5	0.8	< 0.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (III)	mg/kg	1	NONE	16	18	17	17	15
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	17	18	17	18	15
Copper (aqua regia extractable)	mg/kg	1	MCERTS	16	17	35	37	12
Lead (aqua regia extractable)	mg/kg	1	MCERTS	24	25	390	67	15
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	15	12	15	17	13
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	21	29	26	31	19
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	38	37	45	70	31



Analytical Report Number: 21-81116  
Project / Site name: Wingates

Lab Sample Number				1903425	1903426	1903427	1903428	1903429
Sample Reference				HYDTP25	HYDTP28	HYDIT13	HYDIT11	HYDIT10
Sample Number				ES	ES	ES	ES	ES
Depth (m)				0.50	0.40	0.75	0.30	0.30
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)								
<b>Monoaromatics &amp; Oxygenates</b>								
Benzene	µg/kg	1	MCERTS	-	-	< 1.0	-	< 1.0
Toluene	µg/kg	1	MCERTS	-	-	< 1.0	-	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	-	< 1.0
p & m-xylene	µg/kg	1	MCERTS	-	-	< 1.0	-	< 1.0
o-xylene	µg/kg	1	MCERTS	-	-	< 1.0	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	< 1.0	-	< 1.0

**Petroleum Hydrocarbons**

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	-	< 0.001	-	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	-	< 0.001	-	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	< 0.001	-	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	< 1.0	-	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	< 2.0	-	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	-	< 8.0	-	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	-	< 8.0	-	< 8.0
TPH-CWG - Aliphatic >EC16 - EC35	mg/kg	10	MCERTS	-	-	< 10	-	< 10
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	-	-	< 8.4	-	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	< 10	-	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	-	-	< 10	-	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	-	< 0.001	-	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	-	< 0.001	-	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	< 0.001	-	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	< 1.0	-	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	< 2.0	-	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	-	24	-	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	-	77	-	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	-	-	120	-	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	100	-	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	-	-	220	-	< 10

TPH Total C5 - C44	mg/kg	10	NONE	-	-	220	-	< 10
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**VOCs**

Chloromethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Chloroethane	µg/kg	1	NONE	-	-	-	-	< 1.0
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	-	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	< 1.0
Benzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0

Analytical Report Number: 21-81116  
Project / Site name: Wingates

Lab Sample Number				1903425	1903426	1903427	1903428	1903429
Sample Reference				HYDTP25	HYDTP28	HYDTP13	HYDTP11	HYDTP10
Sample Number				ES	ES	ES	ES	ES
Depth (m)				0.50	0.40	0.75	0.30	0.30
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)								
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Toluene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Styrene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Tribromomethane	µg/kg	1	NONE	-	-	-	-	< 1.0
o-Xylene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0

VOCs TICs

VOCs TICs Compound Name		N/A	NONE	-	-	-	-	ND
VOC % Match	%	N/A	NONE	-	-	-	-	0

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	-	-	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3

Analytical Report Number: 21-81116  
Project / Site name: Wingates

Lab Sample Number				1903425	1903426	1903427	1903428	1903429
Sample Reference				HYDTP25	HYDTP28	HYDTP13	HYDTP11	HYDTP10
Sample Number				ES	ES	ES	ES	ES
Depth (m)				0.50	0.40	0.75	0.30	0.30
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)								
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	< 0.2
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	-	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	-	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	ND
SVOC % Match	%	N/A	NONE	-	-	-	-	0

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

Analytical Report Number: 21-81116  
Project / Site name: Wingates

Lab Sample Number				1903430	1903431	1903432	1903433
Sample Reference				HYDIT07	HYDIT14	HYDIT16	HYDIT15
Sample Number				ES	ES	ES	ES
Depth (m)				1.00	0.80	1.00	0.50
Date Sampled				Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)							
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	12	11	13
Total mass of sample received	kg	0.001	NONE	1.3	1.3	1.3	1.3

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.1	7.7	8.2	8.1
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0025	0.0085	0.081	0.044
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	0.0044	0.015	0.0063	0.020

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0

#### Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.90	1.2
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.27	0.35
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	2.0	2.4
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	2.2	2.7
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.72	1.0
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.90	1.2
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.75	1.1
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.34	0.42
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.71	0.97
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.35	0.59
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.49	0.70

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	9.60	12.6

#### Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8.4	7.9	7.5	10
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.73	0.83	0.66	0.69
Boron (water soluble)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	0.4	0.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (III)	mg/kg	1	NONE	18	18	19	17
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	19	18	20	17
Copper (aqua regia extractable)	mg/kg	1	MCERTS	18	17	19	29
Lead (aqua regia extractable)	mg/kg	1	MCERTS	11	11	27	49
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	14	17	20	17
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	22	22	22	25
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	33	36	47	58

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Lab Sample Number				1903430	1903431	1903432	1903433
Sample Reference				HYDIT07	HYDIT14	HYDIT16	HYDIT15
Sample Number				ES	ES	ES	ES
Depth (m)				1.00	0.80	1.00	0.50
Date Sampled				Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)							
<b>Monoaromatics &amp; Oxygenates</b>							
Benzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0

**Petroleum Hydrocarbons**

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	2.1	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	-	8.8	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	-	30	16
TPH-CWG - Aliphatic >EC16 - EC35	mg/kg	10	MCERTS	-	-	39	16
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	-	-	8.9	11
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	41	16
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	-	-	50	27

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	-	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	-	< 10	19
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	-	-	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	< 10	28
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	-	-	< 10	28

TPH Total C5 - C44	mg/kg	10	NONE	-	-	50	55
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**VOCs**

Chloromethane	µg/kg	1	ISO 17025	-	-	-	-
Chloroethane	µg/kg	1	NONE	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-
1,1,1,1-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-
Benzene	µg/kg	1	MCERTS	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-



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Lab Sample Number				1903430	1903431	1903432	1903433
Sample Reference				HYDIT07	HYDIT14	HYDIT16	HYDIT15
Sample Number				ES	ES	ES	ES
Depth (m)				1.00	0.80	1.00	0.50
Date Sampled				Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)							
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	-
Styrene	µg/kg	1	MCERTS	-	-	-	-
Tribromomethane	µg/kg	1	NONE	-	-	-	-
o-Xylene	µg/kg	1	MCERTS	-	-	-	-
1,1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-

VOCs TICs

VOCs TICs Compound Name		N/A	NONE	-	-	-	-
VOC % Match	%	N/A	NONE	-	-	-	-

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-

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Lab Sample Number				1903430	1903431	1903432	1903433
Sample Reference				HYDIT07	HYDIT14	HYDIT16	HYDIT15
Sample Number				ES	ES	ES	ES
Depth (m)				1.00	0.80	1.00	0.50
Date Sampled				Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)							
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-

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

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\* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1903415	HYDTP06	ES	0.3	Brown clay with gravel and vegetation.
1903416	HYDTP05	ES	0.2	Brown loam with vegetation.
1903417	HYDTP33	ES	0.2	Brown loam with vegetation.
1903418	HYDTP31	ES	0.2	Brown loam with vegetation.
1903419	HYDTP26	ES	0.3	Brown loam with vegetation.
1903420	HYDTP19	ES	0.2	Brown loam with vegetation.
1903421	HYDTP23	ES	0.4	Brown sandy clay.
1903422	HYDTP16	ES	0.5	Brown clay with gravel.
1903423	HYDTP13	ES	0.5	Brown clay with gravel.
1903424	HYDTP11	ES	0.45	Brown loam with vegetation.
1903425	HYDTP25	ES	0.5	Brown loam with vegetation.
1903426	HYDTP28	ES	0.4	Brown clay with vegetation.
1903427	HYDTP13	ES	0.75	Brown loam and clay with vegetation.
1903428	HYDTP11	ES	0.3	Brown loam and clay with vegetation and gravel
1903429	HYDTP10	ES	0.3	Brown loam and clay with vegetation.
1903430	HYDTP07	ES	1	Brown clay.
1903431	HYDTP14	ES	0.8	Brown clay with vegetation.
1903432	HYDTP16	ES	1	Brown clay with gravel.
1903433	HYDTP15	ES	0.5	Brown loam and clay with gravel and vegetation.

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil (Lower Level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Fraction of Organic Carbon in soil	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Tentatively identified compounds (SVOC) in soil	Determination of semi-volatile organic compounds total ion count in soil by extraction with dichloromethane and hexane followed by GC-MS followed by a full library scan.	In-house method based on USEPA 8270	L064-PL	D	NONE
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Tentatively identified compounds (VOC) in soil	Determination of volatile organic compounds total ion count in soil by headspace GC-MS followed by a full library scan.	In-house method based on USEPA8260	L073-PL	W	NONE
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS



Analytical Report Number : 21-81116  
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Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
TPH Chromatogram in Soil	TPH Chromatogram in Soil.	In-house method	L064-PL	D	NONE
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE

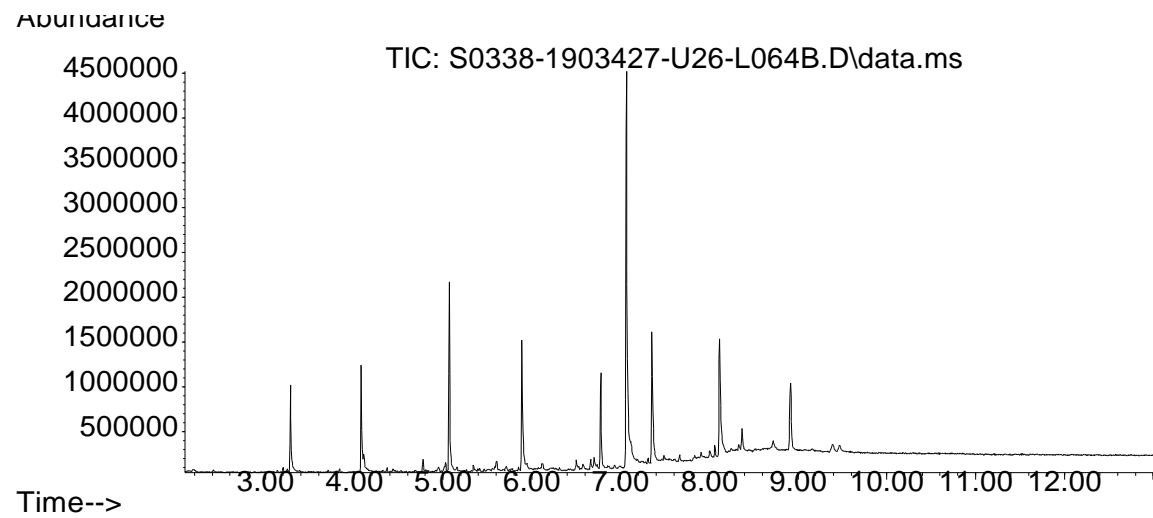
For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

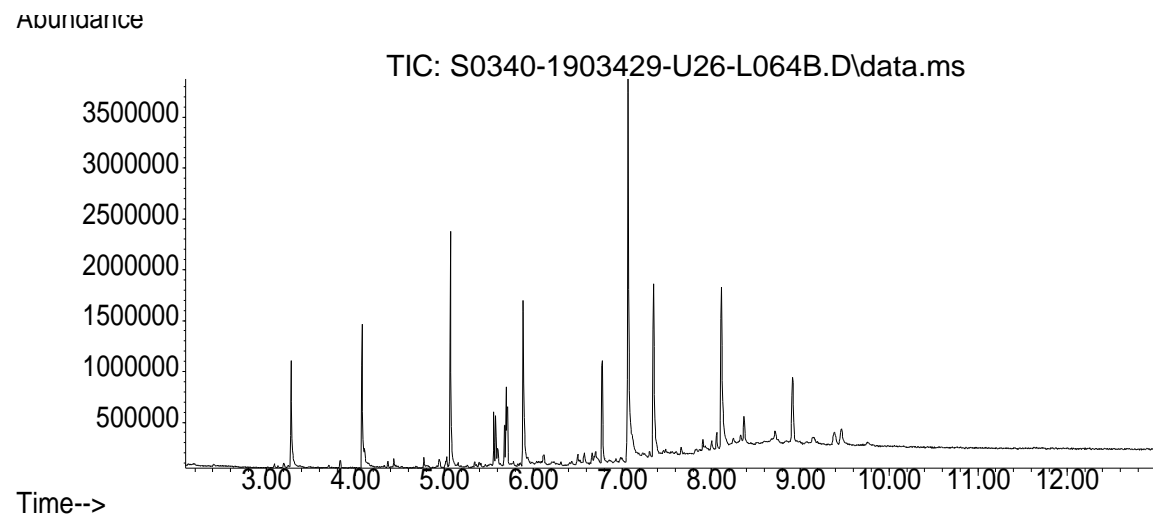
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

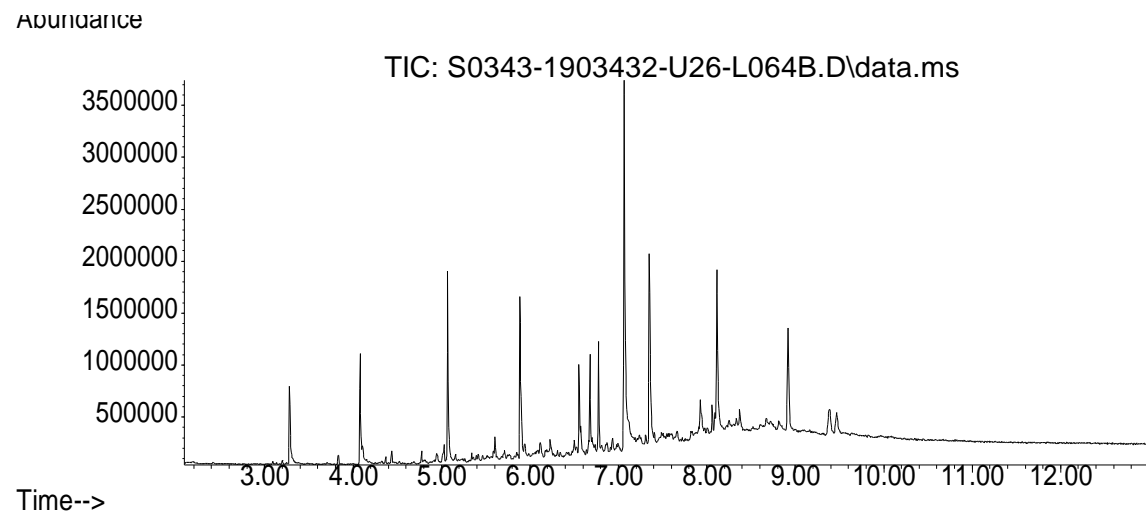
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

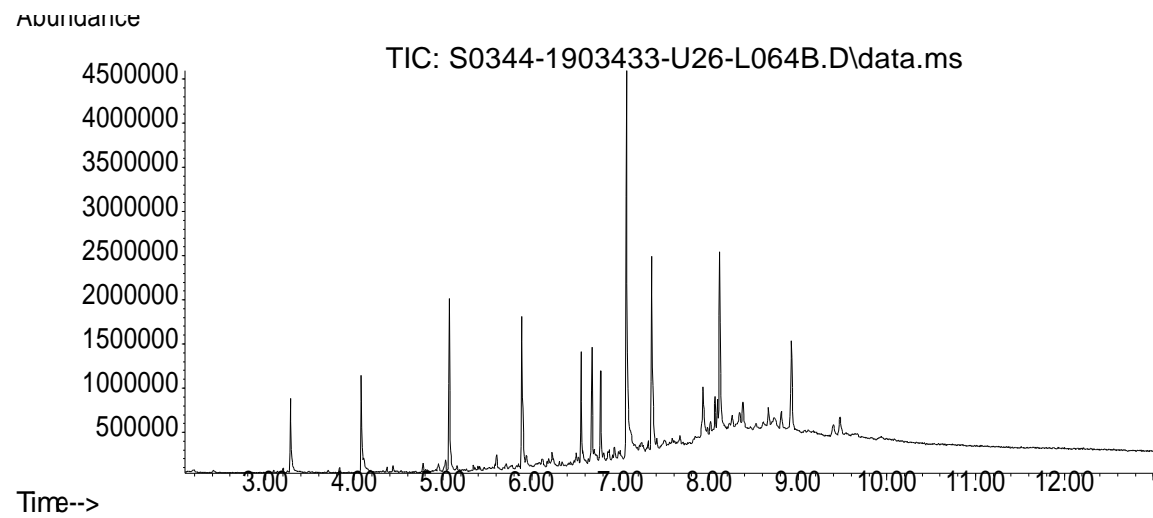
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.











## Sample Deviation Report



Analytical Report Number : 21-81116  
 Project / Site name: Wingates

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
HYDTP05	ES	S	1903416	a	None Supplied	None Supplied	None Supplied
HYDTP06	ES	S	1903415	a	None Supplied	None Supplied	None Supplied
HYDTP11	ES	S	1903424	a	None Supplied	None Supplied	None Supplied
HYDTP13	ES	S	1903423	a	None Supplied	None Supplied	None Supplied
HYDTP16	ES	S	1903422	a	None Supplied	None Supplied	None Supplied
HYDTP19	ES	S	1903420	a	None Supplied	None Supplied	None Supplied
HYDTP23	ES	S	1903421	a	None Supplied	None Supplied	None Supplied
HYDTP25	ES	S	1903425	a	None Supplied	None Supplied	None Supplied
HYDTP26	ES	S	1903419	a	None Supplied	None Supplied	None Supplied
HYDTP28	ES	S	1903426	a	None Supplied	None Supplied	None Supplied
HYDTP31	ES	S	1903418	a	None Supplied	None Supplied	None Supplied
HYDTP33	ES	S	1903417	a	None Supplied	None Supplied	None Supplied
HYDTT07	ES	S	1903430	a	None Supplied	None Supplied	None Supplied
HYDTT10	ES	S	1903429	a	None Supplied	None Supplied	None Supplied
HYDTT11	ES	S	1903428	a	None Supplied	None Supplied	None Supplied
HYDTT13	ES	S	1903427	a	None Supplied	None Supplied	None Supplied
HYDTT14	ES	S	1903431	a	None Supplied	None Supplied	None Supplied
HYDTT15	ES	S	1903433	a	None Supplied	None Supplied	None Supplied
HYDTT16	ES	S	1903432	a	None Supplied	None Supplied	None Supplied





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## **Analytical Report Number : 21-81339**

<b>Project / Site name:</b>	Wingates	<b>Samples received on:</b>	15/06/2021
<b>Your job number:</b>	15592	<b>Samples instructed on/ Analysis started on:</b>	15/06/2021
<b>Your order number:</b>		<b>Analysis completed by:</b>	22/06/2021
<b>Report Issue Number:</b>	1	<b>Report issued on:</b>	22/06/2021
<b>Samples Analysed:</b>	7 soil samples		

**Signed:**



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

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

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting  
leachates - 2 weeks from reporting  
waters - 2 weeks from reporting  
asbestos - 6 months from reporting

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

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-81339  
Project / Site name: Wingates

Lab Sample Number				1904445	1904446	1904447	1904448	1904449
Sample Reference				HYDTT17	HYDTT03	HYDTT03	HYDTT01	HYDTT05
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	0.70	4.80	0.30	1.20
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)								
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	17	26	19	28
Total mass of sample received	kg	0.001	NONE	1.3	1.2	1.2	1.0	1.1

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.6	7.8	6.5	7.7	7.2
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.27	0.098	0.14	0.014	0.72
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	0.013	0.022	0.038	0.024	0.032

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	0.26	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	0.23	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	1.9	< 0.05	0.40	0.42
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.33	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	2.6	< 0.05	0.59	0.24
Pyrene	mg/kg	0.05	MCERTS	< 0.05	2.6	< 0.05	0.55	0.25
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	1.5	< 0.05	0.30	0.22
Chrysene	mg/kg	0.05	MCERTS	< 0.05	1.4	< 0.05	0.34	0.19
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	1.4	< 0.05	0.31	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.76	< 0.05	0.20	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	1.5	< 0.05	0.29	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.60	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.20	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.75	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	15.9	< 0.80	2.98	1.32

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	10	40	8.8	20	29
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.83	0.98	0.77	1.0	1.2
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	0.8	0.6	0.7	0.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (III)	mg/kg	1	NONE	26	19	18	19	15
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	26	19	18	19	15
Copper (aqua regia extractable)	mg/kg	1	MCERTS	19	58	25	49	64
Lead (aqua regia extractable)	mg/kg	1	MCERTS	24	140	31	93	160
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	1.4	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	21	23	18	21	24
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	1.2	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	32	27	21	34	48
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	50	93	60	110	80

Analytical Report Number: 21-81339  
Project / Site name: Wingates

Lab Sample Number	1904445				1904446	1904447	1904448	1904449
Sample Reference	HYDTT17				HYDTT03	HYDTT03	HYDTT01	HYDTT05
Sample Number	None Supplied				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	1.00				0.70	4.80	0.30	1.20
Date Sampled	Deviating				Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)								

**Monoaromatics & Oxygenates**

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0

**Petroleum Hydrocarbons**

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	-	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	-	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	-	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	-	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	-	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	-	< 8.0
TPH-CWG - Aliphatic >EC16 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	-	< 10
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	-	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	-	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10	-	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	-	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	-	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	-	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	-	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	15	< 10	-	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	30	< 10	-	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	-	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	46	< 10	-	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	< 10	46	< 10	-	< 10

TPH Total C5 - C44	mg/kg	10	NONE	< 10	46	< 10	-	< 10
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Analytical Report Number: 21-81339  
Project / Site name: Wingates

Lab Sample Number	1904445	1904446	1904447	1904448	1904449
Sample Reference	HYDTT17	HYDTT03	HYDTT03	HYDTT01	HYDTT05
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	1.00	0.70	4.80	0.30	1.20
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)					

VOCs

Compound	Unit	Method	Standard	1904445	1904446	1904447	1904448	1904449
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	-
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	-	-
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	-
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	-	-
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	-	-
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	-	-
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	-
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	-
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	-
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	-	-
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-

Analytical Report Number: 21-81339  
 Project / Site name: Wingates

Lab Sample Number				1904445	1904446	1904447	1904448	1904449
Sample Reference				HYDIT17	HYDIT03	HYDIT03	HYDIT01	HYDIT05
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	0.70	4.80	0.30	1.20
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)								
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	-

VOCs TICs

VOCs TICs Compound Name		N/A	NONE	ND	ND	ND	-	-

Analytical Report Number: 21-81339  
Project / Site name: Wingates

Lab Sample Number	1904445	1904446	1904447	1904448	1904449
Sample Reference	HYDTT17	HYDTT03	HYDTT03	HYDTT01	HYDTT05
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	1.00	0.70	4.80	0.30	1.20
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)					

SVOCs

Compound	Unit	Limit	Method	1904445	1904446	1904447	1904448	1904449
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	-	-
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	-
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	-
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	-	-
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	-	-
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	-
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	-
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	-	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	0.26	< 0.05	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	-	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	0.23	< 0.05	-	-
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	-
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	1.9	< 0.05	-	-
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.33	< 0.05	-	-
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	-	-
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	-
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	2.6	< 0.05	-	-
Pyrene	mg/kg	0.05	MCERTS	< 0.05	2.6	< 0.05	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	1.5	< 0.05	-	-
Chrysene	mg/kg	0.05	MCERTS	< 0.05	1.4	< 0.05	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	1.4	< 0.05	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.76	< 0.05	-	-



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Lab Sample Number				1904445	1904446	1904447	1904448	1904449
Sample Reference				HYDIT17	HYDIT03	HYDIT03	HYDIT01	HYDIT05
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	0.70	4.80	0.30	1.20
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)								
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	1.5	< 0.05	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.60	< 0.05	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.20	< 0.05	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.75	< 0.05	-	-

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	ND	Benz[e]acephenanthrylene	ND	-	-
SVOC % Match	%	N/A	NONE		99		-	-
SVOCs TICs Compound Name		N/A	NONE		Phenanthrene, 2-methyl-		-	-
SVOC % Match	%	N/A	NONE		98		-	-
SVOCs TICs Compound Name		N/A	NONE		0		-	-
SVOC % Match	%	N/A	NONE		0		-	-
SVOCs TICs Compound Name		N/A	NONE		Chrysene, 6-methyl-		-	-
SVOC % Match	%	N/A	NONE		97		-	-
SVOCs TICs Compound Name		N/A	NONE		Naphthalene, 1,4-dimethyl-		-	-
SVOC % Match	%	N/A	NONE		96		-	-
SVOCs TICs Compound Name		N/A	NONE		11H-Benzo[b]fluorene		-	-
SVOC % Match	%	N/A	NONE		96		-	-
SVOCs TICs Compound Name		N/A	NONE		Benzo[e]pyrene		-	-
SVOC % Match	%	N/A	NONE		96		-	-
SVOCs TICs Compound Name		N/A	NONE		2,5-Cyclohexadiene-1,4-dione, 2-(phenylthio)-		-	-
SVOC % Match	%	N/A	NONE		95		-	-
SVOCs TICs Compound Name		N/A	NONE		Hexadecane		-	-
SVOC % Match	%	N/A	NONE		95		-	-
SVOCs TICs Compound Name		N/A	NONE		Anthracene, 9-methyl-		-	-
SVOC % Match	%	N/A	NONE		94		-	-

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

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Lab Sample Number				1904450	1904451
Sample Reference				HYDTP04	HYDTP14
Sample Number				None Supplied	None Supplied
Depth (m)				0.40	0.40
Date Sampled				Deviating	Deviating
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)					
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	15
Total mass of sample received	kg	0.001	NONE	1.1	1.0

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected
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#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.6	7.4
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.011	0.028
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	0.031	0.030

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0
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#### Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.48
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.45
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.37
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.21
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.19
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	1.70
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#### Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12	12
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.72	0.91
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	0.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2
Chromium (III)	mg/kg	1	NONE	16	22
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	16	22
Copper (aqua regia extractable)	mg/kg	1	MCERTS	25	26
Lead (aqua regia extractable)	mg/kg	1	MCERTS	45	48
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	14	22
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	25	27
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	51	67

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Lab Sample Number				1904450	1904451
Sample Reference				HYDTP04	HYDTP14
Sample Number				None Supplied	None Supplied
Depth (m)				0.40	0.40
Date Sampled				Deviating	Deviating
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)					
<b>Monoaromatics &amp; Oxygenates</b>					
Benzene	µg/kg	1	MCERTS	-	-
Toluene	µg/kg	1	MCERTS	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-
o-xylene	µg/kg	1	MCERTS	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-

**Petroleum Hydrocarbons**

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	-
TPH-CWG - Aliphatic >EC16 - EC35	mg/kg	10	MCERTS	-	-
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	-	-
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	-	-

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	-
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	-	-
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	-	-

TPH Total C5 - C44	mg/kg	10	NONE	-	-
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 Project / Site name: Wingates

Lab Sample Number				1904450	1904451
Sample Reference				HYDTP04	HYDTP14
Sample Number				None Supplied	None Supplied
Depth (m)				0.40	0.40
Date Sampled				Deviating	Deviating
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)					
<b>VOCs</b>					
Chloromethane	µg/kg	1	ISO 17025	-	-
Chloroethane	µg/kg	1	NONE	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-
Benzene	µg/kg	1	MCERTS	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-
Toluene	µg/kg	1	MCERTS	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	-
Styrene	µg/kg	1	MCERTS	-	-
Tribromomethane	µg/kg	1	NONE	-	-
o-Xylene	µg/kg	1	MCERTS	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-



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Lab Sample Number				1904450	1904451
Sample Reference				HYDTP04	HYDTP14
Sample Number				None Supplied	None Supplied
Depth (m)				0.40	0.40
Date Sampled				Deviating	Deviating
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)					
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-

VOCs TICs

VOCs TICs Compound Name		N/A	NONE	-	-
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Lab Sample Number				1904450	1904451
Sample Reference				HYDTP04	HYDTP14
Sample Number				None Supplied	None Supplied
Depth (m)				0.40	0.40
Date Sampled				Deviating	Deviating
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)					
SVOCs					
Aniline	mg/kg	0.1	NONE	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-
Hexachloroethane	mg/kg	0.05	MCERTS	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-
Naphthalene	mg/kg	0.05	MCERTS	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-
Azobenzene	mg/kg	0.3	MCERTS	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-
Anthraquinone	mg/kg	0.3	MCERTS	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-





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Lab Sample Number				1904450	1904451
Sample Reference				HYDTP04	HYDTP14
Sample Number				None Supplied	None Supplied
Depth (m)				0.40	0.40
Date Sampled				Deviating	Deviating
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)					
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	-
SVOC % Match	%	N/A	NONE	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-
SVOC % Match	%	N/A	NONE	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-
SVOC % Match	%	N/A	NONE	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-
SVOC % Match	%	N/A	NONE	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-
SVOC % Match	%	N/A	NONE	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-
SVOC % Match	%	N/A	NONE	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-
SVOC % Match	%	N/A	NONE	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-
SVOC % Match	%	N/A	NONE	-	-

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



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\* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1904445	HYDTT17	None Supplied	1	Brown clay and sand with gravel.
1904446	HYDTT03	None Supplied	0.7	Brown clay and sand with gravel and vegetation.
1904447	HYDTT03	None Supplied	4.8	Brown clay and sand with vegetation and gravel
1904448	HYDTT01	None Supplied	0.3	Brown loam and clay with vegetation and gravel
1904449	HYDTT05	None Supplied	1.2	Brown clay and sand with gravel and vegetation.
1904450	HYDTP04	None Supplied	0.4	Brown loam and clay with vegetation and gravel
1904451	HYDTP14	None Supplied	0.4	Brown loam and clay with vegetation and gravel

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil (Lower Level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Fraction of Organic Carbon in soil	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Tentatively identified compounds (SVOC) in soil	Determination of semi-volatile organic compounds total ion count in soil by extraction with dichloromethane and hexane followed by GC-MS followed by a full library scan.	In-house method based on USEPA 8270	L064-PL	D	NONE
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Tentatively identified compounds (VOC) in soil	Determination of volatile organic compounds total ion count in soil by headspace GC-MS followed by a full library scan.	In-house method based on USEPA8260	L073-PL	W	NONE
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS



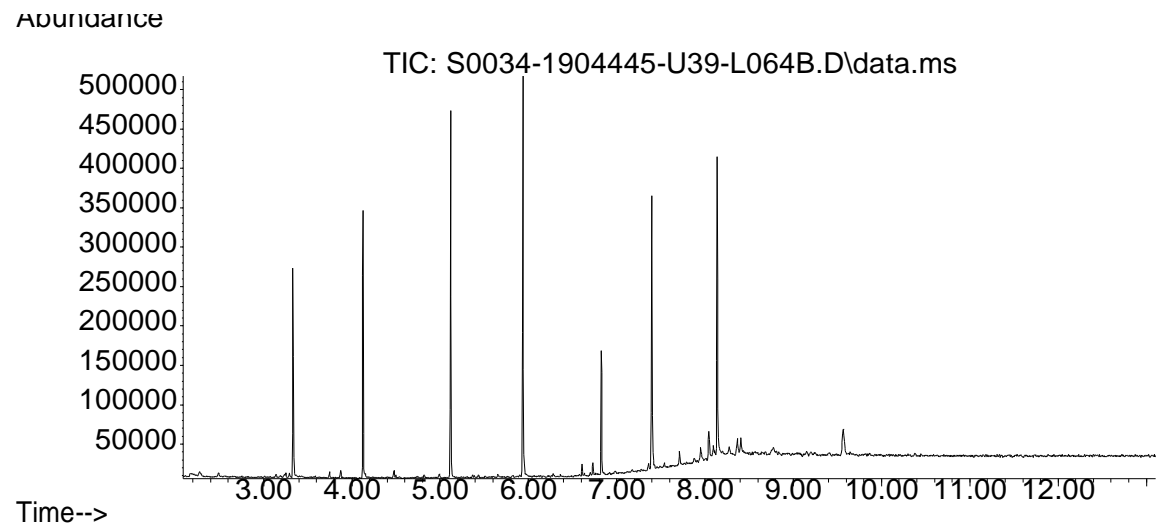
Analytical Report Number : 21-81339  
 Project / Site name: Wingates

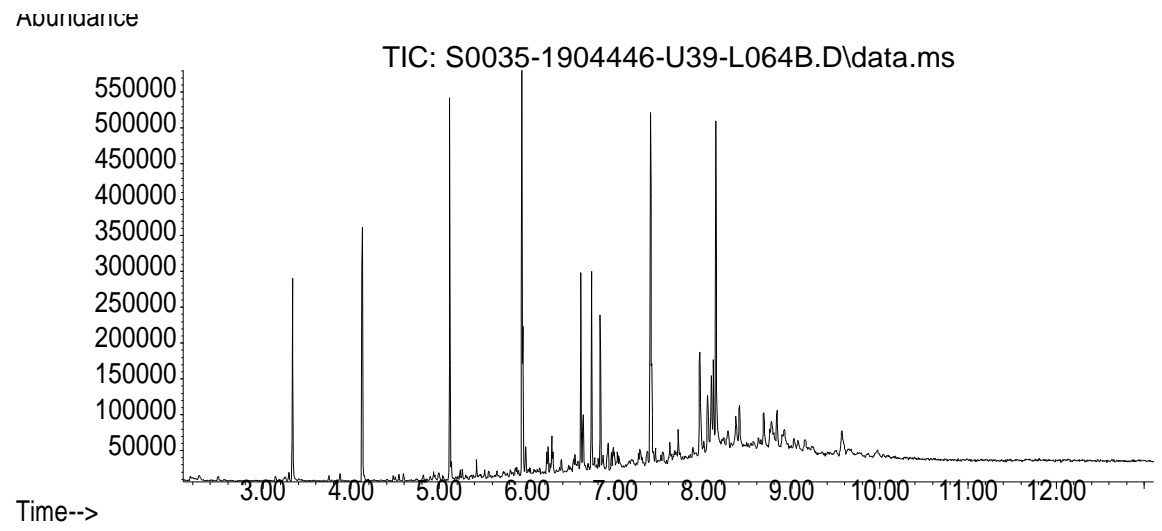
Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
TPH Chromatogram in Soil	TPH Chromatogram in Soil.	In-house method	L064-PL	D	NONE
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE

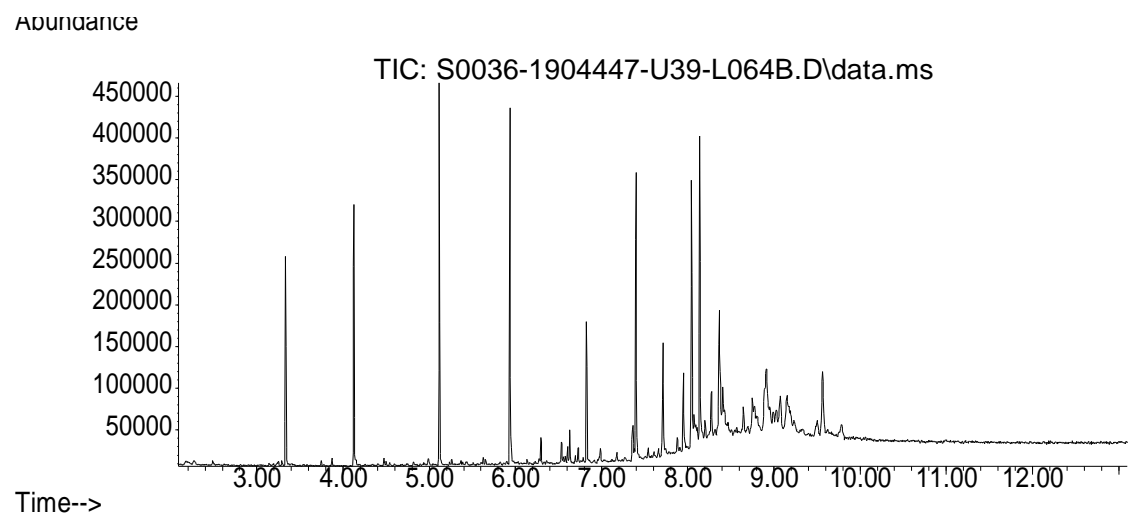
For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.  
 For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.  
 Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

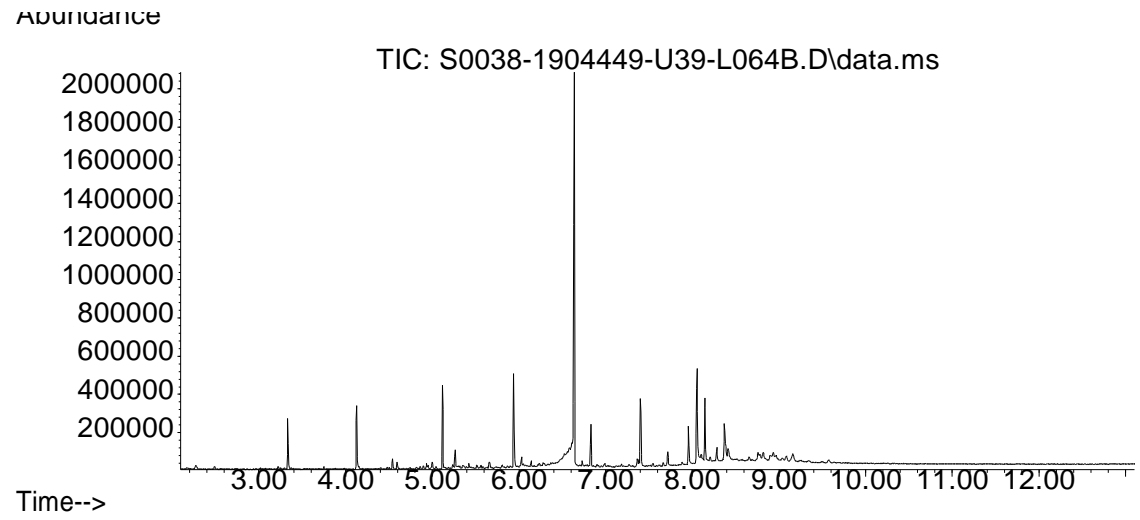
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.











## Sample Deviation Report



Analytical Report Number : 21-81339  
Project / Site name: Wingates

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
HYDTP04	None Supplied	S	1904450	a	None Supplied	None Supplied	None Supplied
HYDTP14	None Supplied	S	1904451	a	None Supplied	None Supplied	None Supplied
HYDTP01	None Supplied	S	1904448	a	None Supplied	None Supplied	None Supplied
HYDTP03	None Supplied	S	1904446	a	None Supplied	None Supplied	None Supplied
HYDTP03	None Supplied	S	1904447	a	None Supplied	None Supplied	None Supplied
HYDTP05	None Supplied	S	1904449	a	None Supplied	None Supplied	None Supplied
HYDTP17	None Supplied	S	1904445	a	None Supplied	None Supplied	None Supplied

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## **Analytical Report Number : 22-85728**

<b>Project / Site name:</b>	Wingates	<b>Samples received on:</b>	23/09/2022
<b>Your job number:</b>	15592	<b>Samples instructed on/ Analysis started on:</b>	23/09/2022
<b>Your order number:</b>	PO20233	<b>Analysis completed by:</b>	30/09/2022
<b>Report Issue Number:</b>	1	<b>Report issued on:</b>	30/09/2022
<b>Samples Analysed:</b>	8 soil samples		

**Signed:**

Dominika Warjan  
Junior Reporting Specialist  
**For & on behalf of i2 Analytical Ltd.**

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

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 22-85728  
 Project / Site name: Wingates  
 Your Order No: PO20233

Lab Sample Number	2433551		2433552		2433553		2433554		2433555	
Sample Reference	HP01		HP03		HP04		HP05		HP05	
Sample Number	1		1		1		1		2	
Depth (m)	0.15-0.30		0.30-0.30		0.10-0.10		0.30-0.30		0.70-0.70	
Date Sampled	20/09/2022		20/09/2022		20/09/2022		20/09/2022		20/09/2022	
Time Taken	None Supplied		None Supplied		None Supplied		None Supplied		None Supplied	
Analytical Parameter (Soil Analysis)										
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	22	16	18	18	22	22
Total mass of sample received	kg	0.001	NONE	0.3	0.3	0.4	1	1	1.1	1.1

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SFS	SFS	SFS	SFS	SFS

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.7	7.1	8.1	7	6.3
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0043	0.0089	0.0087	0.019	0.0082
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.024	0.043	0.039	0.052	0.0082

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.39	0.31	0.64	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.06	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.44	0.4	0.59	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.42	0.4	0.61	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.22	0.22	0.37	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.29	0.27	0.43	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.29	0.25	0.43	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.13	0.13	0.17	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.23	0.21	0.35	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	2.41	2.25	3.59	< 0.80

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	13	10	19	36	9.4
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.98	0.95	1.3	0.81	0.6
Boron (water soluble)	mg/kg	0.2	MCERTS	0.6	1	0.9	0.7	0.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	2.1	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	17	11	19	16	18
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	18	13	19	17	19
Copper (aqua regia extractable)	mg/kg	1	MCERTS	28	27	51	57	16
Lead (aqua regia extractable)	mg/kg	1	MCERTS	47	40	87	76	13
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	19	15	21	18	14
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	27	19	34	41	29
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	56	51	80	54	33

Analytical Report Number: 22-85728  
 Project / Site name: Wingates  
 Your Order No: PO20233

Lab Sample Number	2433551	2433552	2433553	2433554	2433555
Sample Reference	HP01	HP03	HP04	HP05	HP05
Sample Number	1	1	1	1	2
Depth (m)	0.15-0.30	0.30-0.30	0.10-0.10	0.30-0.30	0.70-0.70
Date Sampled	20/09/2022	20/09/2022	20/09/2022	20/09/2022	20/09/2022
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)					

**Monoaromatics & Oxygenates**

Compound	Unit	Limit	MCERTS	2433551	2433552	2433553	2433554	2433555
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-

**Petroleum Hydrocarbons**

Parameter	Unit	Limit	MCERTS	2433551	2433552	2433553	2433554	2433555
TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	-
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	-
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	-
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	< 2.0	< 2.0	-	< 2.0	-
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	-	< 8.0	-
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	-	< 8.0	-
TPH-CWG - Aliphatic >EC16 - EC35 EH_CU_1D_AL	mg/kg	10	MCERTS	< 10	< 10	-	< 10	-
TPH-CWG - Aliphatic > EC35 - EC44 EH_CU_1D_AL	mg/kg	8.4	NONE	< 8.4	< 8.4	-	< 8.4	-
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_1D_AL	mg/kg	10	MCERTS	< 10	< 10	-	< 10	-
TPH-CWG - Aliphatic (EC5 - EC44) EH_CU+HS_1D_AL	mg/kg	10	NONE	< 10	< 10	-	< 10	-

Parameter	Unit	Limit	MCERTS	2433551	2433552	2433553	2433554	2433555
TPH-CWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	-
TPH-CWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	-
TPH-CWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	-
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	< 2.0	< 2.0	-	< 2.0	-
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	< 10	-	< 10	-
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	< 10	-	< 10	-
TPH-CWG - Aromatic > EC35 - EC44 EH_CU_1D_AR	mg/kg	8.4	NONE	< 8.4	< 8.4	-	< 8.4	-
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_1D_AR	mg/kg	10	MCERTS	< 10	< 10	-	< 10	-
TPH-CWG - Aromatic (EC5 - EC44) EH_CU+HS_1D_AR	mg/kg	10	NONE	< 10	< 10	-	< 10	-

TPH Total C5 - C44 EH_CU+HS_1D_TOTAL	mg/kg	10	NONE	< 10	< 10	-	< 10	-
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U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 22-85728  
 Project / Site name: Wingates  
 Your Order No: PO20233

Lab Sample Number	2433556			2433557			2433558		
Sample Reference	HP06			HP07			HP08		
Sample Number	1			1			1		
Depth (m)	0.20-0.20			0.20-0.20			0.10-0.10		
Date Sampled	20/09/2022			20/09/2022			20/09/2022		
Time Taken	None Supplied			None Supplied			None Supplied		
Analytical Parameter (Soil Analysis)									
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	21	16	14			
Total mass of sample received	kg	0.001	NONE	1.1	0.4	1			

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SFS	SFS	SFS

#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.7	7.8	6.8
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.021	0.0077	0.01
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.033	0.032	0.021

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0

#### Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.31	0.24	0.42
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.12
Fluoranthene	mg/kg	0.05	MCERTS	0.23	0.28	0.44
Pyrene	mg/kg	0.05	MCERTS	0.24	0.27	0.4
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.24
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.25
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	1.87

#### Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	15	20	15
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.68	0.93	0.44
Boron (water soluble)	mg/kg	0.2	MCERTS	0.7	0.4	0.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	17	18	14
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	17	19	14
Copper (aqua regia extractable)	mg/kg	1	MCERTS	36	42	27
Lead (aqua regia extractable)	mg/kg	1	MCERTS	50	70	43
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	15	19	12
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	28	30	21
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	48	61	39

Analytical Report Number: 22-85728  
 Project / Site name: Wingates  
 Your Order No: PO20233

Lab Sample Number	2433556	2433557	2433558
Sample Reference	HP06	HP07	HP08
Sample Number	1	1	1
Depth (m)	0.20-0.20	0.20-0.20	0.10-0.10
Date Sampled	20/09/2022	20/09/2022	20/09/2022
Time Taken	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)			

**Monoaromatics & Oxygenates**

Compound	µg/kg	1	MCERTS	-	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	-	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	-	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	-	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	< 1.0

**Petroleum Hydrocarbons**

TPH-CWG - Aliphatic > EC5 - EC6	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001
TPH-CWG - Aliphatic > EC6 - EC8	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001
TPH-CWG - Aliphatic > EC8 - EC10	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001
TPH-CWG - Aliphatic > EC10 - EC12	mg/kg	1	MCERTS	-	< 1.0	< 1.0
TPH-CWG - Aliphatic > EC12 - EC16	mg/kg	2	MCERTS	-	< 2.0	< 2.0
TPH-CWG - Aliphatic > EC16 - EC21	mg/kg	8	MCERTS	-	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC21 - EC35	mg/kg	8	MCERTS	-	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC16 - EC35	mg/kg	10	MCERTS	-	< 10	< 10
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	-	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	-	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	-	< 10	< 10

TPH-CWG - Aromatic > EC5 - EC7	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001
TPH-CWG - Aromatic > EC7 - EC8	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001
TPH-CWG - Aromatic > EC8 - EC10	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001
TPH-CWG - Aromatic > EC10 - EC12	mg/kg	1	MCERTS	-	< 1.0	< 1.0
TPH-CWG - Aromatic > EC12 - EC16	mg/kg	2	MCERTS	-	< 2.0	< 2.0
TPH-CWG - Aromatic > EC16 - EC21	mg/kg	10	MCERTS	-	< 10	< 10
TPH-CWG - Aromatic > EC21 - EC35	mg/kg	10	MCERTS	-	< 10	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	-	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	-	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	-	< 10	< 10

TPH Total C5 - C44	mg/kg	10	NONE	-	< 10	< 10
TPH Total C5 - C44	mg/kg	10	NONE	-	< 10	< 10

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

Analytical Report Number : 22-85728  
Project / Site name: Wingates

\* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2433551	HP01	1	0.15-0.30	Brown clay and loam with gravel and vegetation.
2433552	HP03	1	0.30-0.30	Brown clay and sand with gravel and vegetation.
2433553	HP04	1	0.10-0.10	Brown clay and sand with gravel and vegetation.
2433554	HP05	1	0.30-0.30	Brown clay and sand with gravel and vegetation.
2433555	HP05	2	0.70-0.70	Brown clay and sand with gravel.
2433556	HP06	1	0.20-0.20	Brown clay and sand with gravel and vegetation.
2433557	HP07	1	0.20-0.20	Brown clay and sand with gravel and vegetation.
2433558	HP08	1	0.10-0.10	Brown clay and sand with gravel and vegetation.

Analytical Report Number : 22-85728  
Project / Site name: Wingates

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
TPH Chromatogram in Soil	TPH Chromatogram in Soil.	In-house method	L064-PL	D	NONE
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
Fraction Organic Carbon FOC Automated	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method	L009	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS

Analytical Report Number : 22-85728  
 Project / Site name: Wingates

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

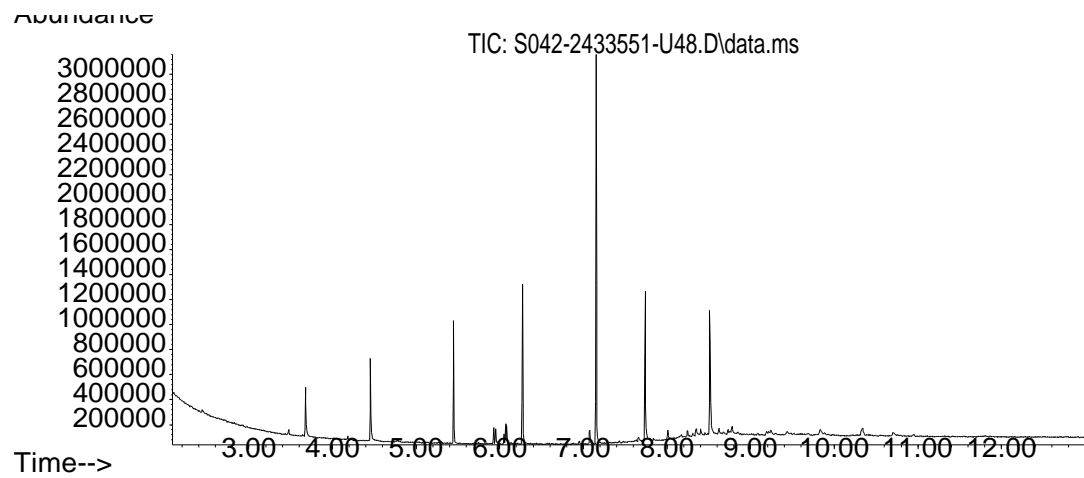
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

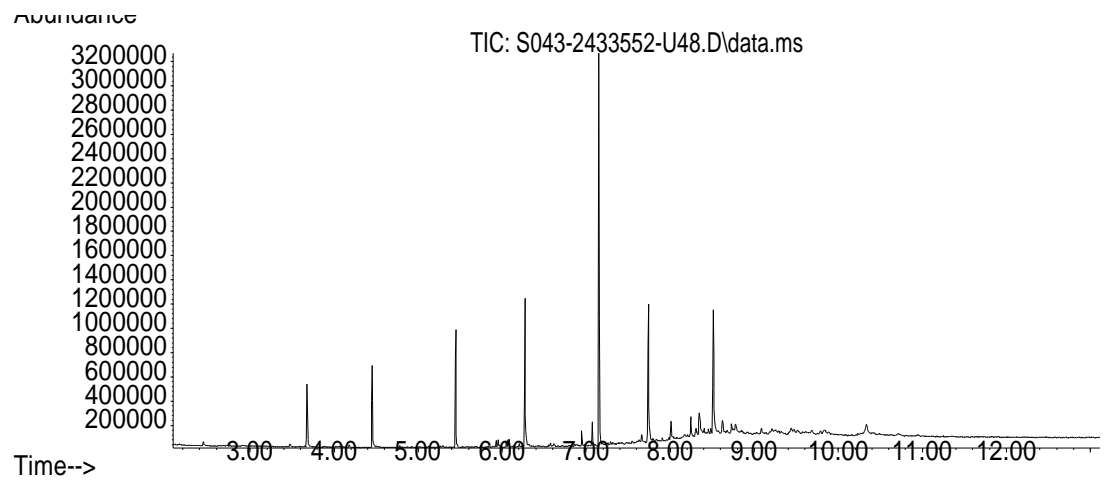
### Information in Support of Analytical Results

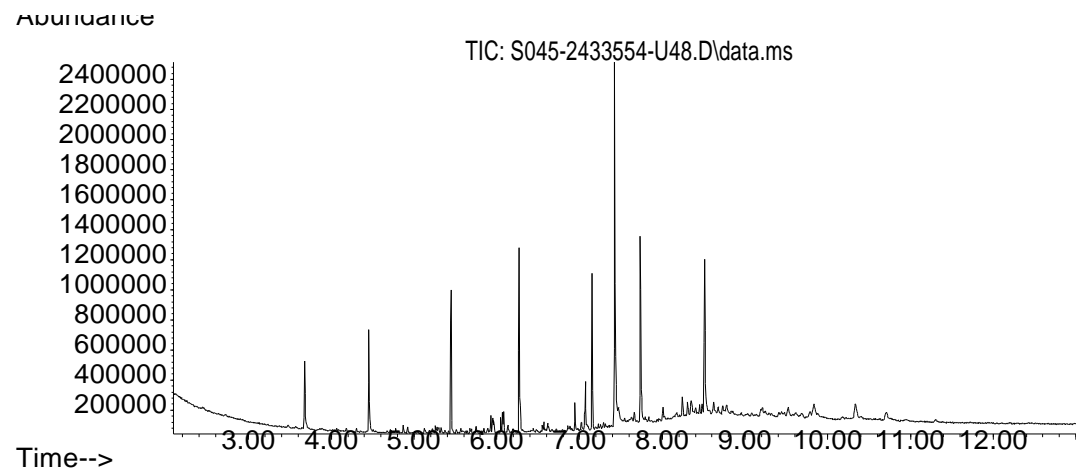
#### List of HWOL Acronyms and Operators

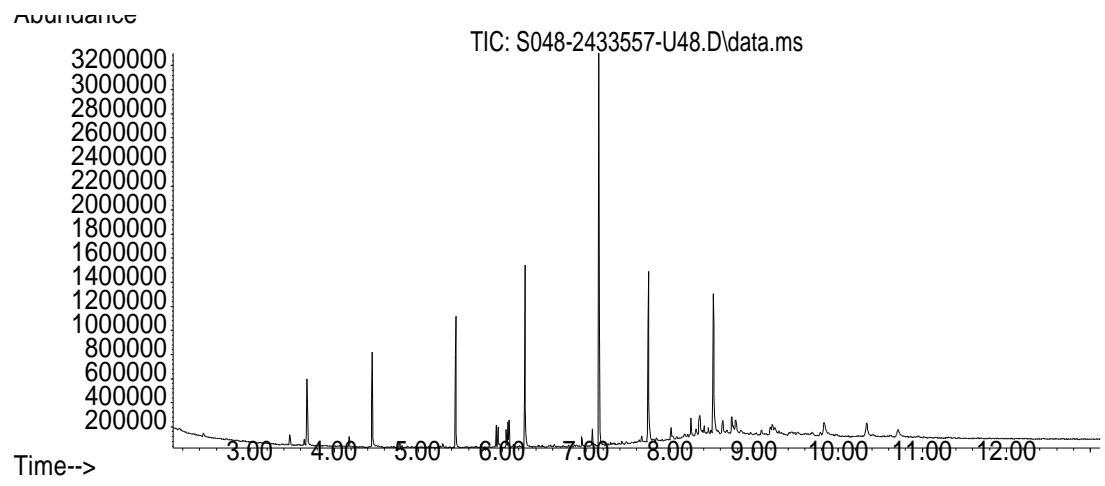
Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

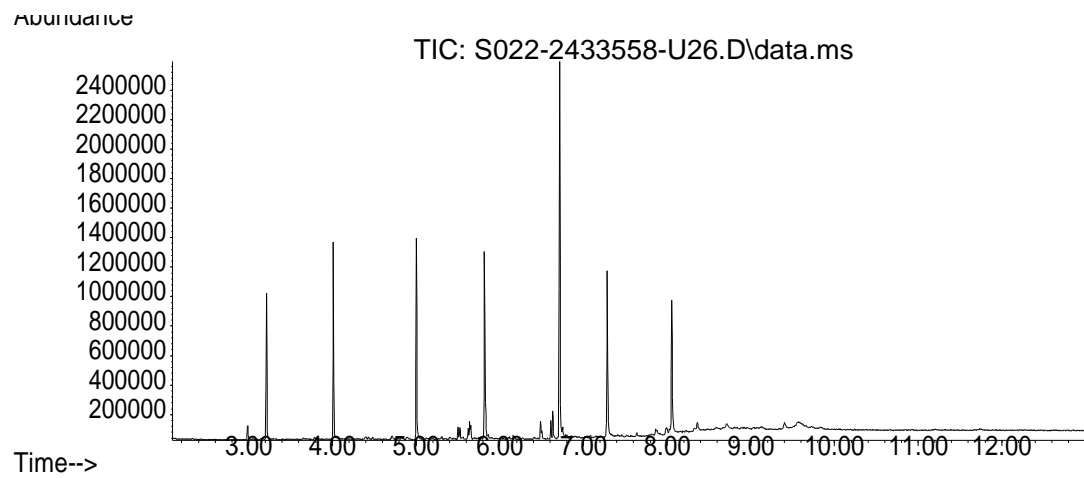














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## **Analytical Report Number : 21-20638**

<b>Project / Site name:</b>	Wingates	<b>Samples received on:</b>	03/11/2021
<b>Your job number:</b>	C-15592	<b>Samples instructed on/ Analysis started on:</b>	03/11/2021
<b>Your order number:</b>	PO11355	<b>Analysis completed by:</b>	10/11/2021
<b>Report Issue Number:</b>	1	<b>Report issued on:</b>	10/11/2021
<b>Samples Analysed:</b>	5 soil samples		

**Signed** 

Izabela Wójcik  
Technical Reviewer (Reporting Team)  
**For & on behalf of i2 Analytical Ltd.**

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

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-20638  
 Project / Site name: Wingates  
 Your Order No: PO11355

Lab Sample Number	2070889		2070890		2070891		2070892		2070893	
Sample Reference	HYDTP39		HYDTP38		HYDTP37		HYDTP34		HYSTP36	
Sample Number	1		1		1		1		1	
Depth (m)	0.20		0.80		0.20		0.20		1.00	
Date Sampled	02/11/2021		02/11/2021		02/11/2021		02/11/2021		02/11/2021	
Time Taken	None Supplied		None Supplied		None Supplied		None Supplied		None Supplied	
Analytical Parameter (Soil Analysis)										
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	30	19	28	21	17		
Total mass of sample received	kg	0.001	NONE	1.2	1.2	1.2	1.2	1.2		

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected

#### General Inorganics

Parameter	Units	N/A	MCERTS	2070889	2070890	2070891	2070892	2070893
pH - Automated	pH Units	N/A	MCERTS	6.2	7.4	5.6	7.2	7.2
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.017	0.0052	0.011	0.0089	0.0059
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.039	0.0077	0.033	0.022	0.0070

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

#### Speciated PAHs

Parameter	mg/kg	0.05	MCERTS	2070889	2070890	2070891	2070892	2070893
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.33	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.25	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	3.2	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.89	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	4.6	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	3.9	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.8	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.4	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.6	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.90	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.5	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.80	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.27	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.92	< 0.05	< 0.05

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	22.4	< 0.80	< 0.80



Analytical Report Number: 21-20638  
 Project / Site name: Wingates  
 Your Order No: PO11355

Lab Sample Number	2070889	2070890	2070891	2070892	2070893
Sample Reference	HYDTP39	HYDTP38	HYDTP37	HYDTP34	HYSTP36
Sample Number	1	1	1	1	1
Depth (m)	0.20	0.80	0.20	0.20	1.00
Date Sampled	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)					

Heavy Metals / Metalloids

	mg/kg	1	MCERTS	14	12	19	9.1	7.6
Arsenic (aqua regia extractable)	mg/kg	0.06	MCERTS	0.68	0.52	1.0	0.60	1.1
Beryllium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	0.5	< 0.2
Boron (water soluble)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Cadmium (aqua regia extractable)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	4.9	12
Chromium (hexavalent)	mg/kg	1	NONE	18	18	16	9.2	7.6
Chromium (III)	mg/kg	1	MCERTS	18	18	16	14	19
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	25	15	44	19	12
Copper (aqua regia extractable)	mg/kg	1	MCERTS	54	10	73	34	10
Lead (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Mercury (aqua regia extractable)	mg/kg	1	MCERTS	13	11	18	13	18
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	29	23	30	21	32
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	62	23	82	42	29
Zinc (aqua regia extractable)	mg/kg	1	MCERTS					

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



Analytical Report Number : 21-20638  
 Project / Site name: Wingates

\* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2070889	HYDTP39	1	0.2	Brown clay and loam with gravel and vegetation.
2070890	HYDTP38	1	0.8	Brown clay and sand.
2070891	HYDTP37	1	0.2	Brown loam and clay with gravel and vegetation.
2070892	HYDTP34	1	0.2	Brown loam and clay with gravel and vegetation.
2070893	HYSTP36	1	1	Brown clay and sand with gravel.

Analytical Report Number : 21-20638  
Project / Site name: Wingates

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil (Lower Level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
Fraction Organic Carbon FOC Automated	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method	L009	D	MCERTS

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

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

## Statistical Analysis

Assessment of Chemicals of Potential Concern to Human Health



Risk parameter: Human health - commercial (2.5%SOM) Client: Harworth Property Estates Ltd Site: Wingates Ind. Estate Job no.: 15592 Lab. report no(s): 21-81116 & 21-81339													Data Filters Zone ALL Strata ALL Depth Min (m bgl) 0.3 Depth Max (m bgl) 1																					
All values in mg/kg unless otherwise stated													Dataset mean SOM% 2.96		Scenario SOM% 2.5		Upper Confidence Limit			Date														
CAS No / P Code	Chemical of Potential Concern	Units	LoD	No. Samples	Min. Value	Max. Value	Mean	Median	Standard Deviation	No. Samples >= GAC & > LoD	GAC	Central Limit Theorem Assessment	80%	95%	99%	Results of Significance Test	Location & Depth (m bgl)																	
																	Date Zone Strata Location & Depth (m bgl)																	
																	15/06/21	15/06/21	15/06/21	15/06/21	15/06/21	15/06/21	15/06/21	15/06/21	15/06/21	15/06/21	15/06/21	15/06/21	15/06/21	15/06/21	15/06/21	15/06/21		
																	NAT	NAT	NAT	NAT	NAT	NAT	NAT	NAT	NAT	NAT	NAT	NAT	NAT	NAT	NAT	NAT	NAT	
																	HYDTP06	HYDTP23	HYDTP16	HYDTP13	HYDTP11	HYDTP25	HYDTP28	HYDTP07	HYDTP14	HYDTP04	HYDTP14	HYDTP14	HYDTP14	HYDTP14	HYDTP14	HYDTP14	HYDTP14	HYDTP14
																	0.3	0.4	0.5	0.5	0.45	0.5	0.4	1	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
P1020	Asbestos Identified	Y/N	Y/N	11	-	-	-	-	No. of detects:	0	-	-	-	-	-	-	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
	Asbestos Screen Name	text		0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
P1432	Asbestos Quant. (Stage 2)	%	0.001	0	-	-	-	-	No. > LOD:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
P1935	Asbestos Quant. Total	%	0.001	0	-	-	-	-	No. > LOD:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
P1826	Asbestos Quant. (Stage 3)	%	0.001	0	-	-	-	-	No. > LOD:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Asbestos Quant. Total (Stages 2+3)	%	0.001	0	-	-	-	-	No. > LOD:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Asbestos Containing Material Types Detected (ACM)	text		0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Hydrock Default Suite - FOC / SOM / pH																																	
P1085	FOC (dimensionless)	[ ]	0.001	11	0.004	0.031	0.017	0.016	0.01	-	-	-	-	-	-	-	0.029	0.016	0.0059	0.011	0.021	0.017	0.0088	0.0044	0.015	0.031	0.03							
	SOM (calculated)	%	0.1724	11	0.76	5.34	2.96	2.76	1.65	-	-	-	-	-	-	-	4.9996	2.7584	1.01716	1.8964	3.6204	2.9308	1.51712	0.75856	2.586	5.3444	5.172							
P1334	pH (su)	pH Units	0.1	11	6.30	7.80	7.17	7.10	0.51	-	-	-	-	-	-	-	6.6	7.8	7.7	6.3	7	7.1	6.6	7.1	7.7	7.6	7.4							
	Hydrock Default Suite - Metals & PAH																																	
7440-38-2	Arsenic	mg/kg	1	11	5.70	14.00	9.12	8.50	2.64	0	640	Y	10.21	10.89	11.64	Potentially Suitable for Use	8.5	6.5	8.9	5.7	14	6.4	10	8.4	7.9	12	12							
7440-41-7	Beryllium	mg/kg	0.06	11	0.40	0.91	0.66	0.68	0.15	0	390	Y	0.72	0.76	0.80	Potentially Suitable for Use	0.44	0.4	0.63	0.59	0.7	0.68	0.61	0.73	0.83	0.72	0.91							
7440-42-8	Boron	mg/kg	0.2	11	0.20	0.70	0.31	0.30	0.16	0	190000	Y	0.37	0.42	0.46	Potentially Suitable for Use	0.3	0.2	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.5	0.7							
7440-43-9	Cadmium	mg/kg	0.2	11	0.20	0.20	0.20	0.20	0.00	0	220	Y	0.20	0.20	0.20	Potentially Suitable for Use	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2							
16065-83-1	Chromium (III)	mg/kg	24	11	16.00	22.00	18.27	18.00	2.15	0	8400	Y	19.16	19.72	20.33	Potentially Suitable for Use	17	17	22	20	17	16	18	18	18	16	22							
18540-29-9	Chromium (VI)	mg/kg	1.2	11	1.20	1.20	1.20	1.20	0.00	0	300	Y	1.20	1.20	1.20	Potentially Suitable for Use	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2							
7440-47-3	Chromium (Total)	mg/kg	1	11	16.00	23.00	18.73	18.00	2.28	0	-	Y	19.67	20.26	20.91	-	17	18	23	21	17	17	18	19	18	16	22							
7440-50-8	Copper	mg/kg	1	11	7.50	26.00	18.14	17.00	5.67	0	69000	Y	20.48	21.95	23.56	Potentially Suitable for Use	13	7.5	16	18	26	16	17	18	17	25	26							
7439-92-1	Lead	mg/kg	1	11	11.00	48.00	25.27	24.00	15.21	0	2300	Y	31.57	35.49	39.81	Potentially Suitable for Use	30	13	13	11	47	24	25	11	11	45	48							
7439-97-6	Mercury, inorganic	mg/kg	0.3	11	0.30	0.30	0.30	0.30	0.00	0	1100	Y	0.30	0.30	0.30	Potentially Suitable for Use	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3							
7440-02-0	Nickel	mg/kg	1	11	12.00	22.00	15.00	15.00	2.79	0	1700	Y	16.16	16.88	17.67	Potentially Suitable for Use	15	12	15	13	16	15	12	14	17	14	22							
7782-49-2	Selenium	mg/kg	1	11	1.00	1.00	1.00	1.00	0.00	0	13000	Y	1.00	1.00	1.00	Potentially Suitable for Use	1	1	1	1	1	1	1	1	1	1	1							
7440-62-2	Vanadium	mg/kg	1	11	21.00	29.00	24.45	25.00	2.70	0	9000	Y	25.57	26.27	27.03	Potentially Suitable for Use	21	24	26	25	27	21	29	22	22	25	27							
7440-66-6	Zinc	mg/kg	1	11	27.00	67.00	40.64	37.00	12.61	0	670000	Y	45.85	49.11	52.69	Potentially Suitable for Use	38	29	33	27	58	38	37	33	36	51	67							
P1095	Cyanide (free)	mg/kg	1	11	1.00	1.00	1.00	1.00	0.00	0	16000	Y	1.00	1.00	1.00	Potentially Suitable for Use	1	1	1	1	1	1	1	1	1	1	1							
P1186	Phenol	mg/kg	1	11	1.00	1.00	1.00	1.00	0.00	0	1500	Y	1.00	1.00	1.00	Potentially Suitable for Use	1	1	1	1	1	1	1	1	1	1	1							
83-32-9	Acenaphthene	mg/kg	0.05	11	0.05	0.05	0.05	0.05	0.00	0	97000	Y	0.05	0.05	0.05	Potentially Suitable for Use	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05							
208-96-8	Acenaphthylene	mg/kg	0.05	11	0.05	0.05	0.05	0.05	0.00	0	97000	Y	0.05	0.05	0.05	Potentially Suitable for Use	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05							
120-12-7	Anthracene	mg/kg	0.05	11	0.05	0.05	0.05	0.05	0.00	0	540000	Y	0.05	0.05	0.05	Potentially Suitable for Use	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05							
56-55-3	Benz(a)anthracene	mg/kg	0.05	11	0.05	0.05	0.05	0.05	0.00	0	91	Y	0.05	0.05	0.05	Potentially Suitable for Use	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05							
50-32-8	Benzo(a)pyrene	mg/kg	0.05	11	0.05	0.05	0.05	0.05	0.00	0	14	Y	0.05	0.05	0.05	Potentially Suitable for Use	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05							
205-99-2	Benzo(b)fluoranthene	mg/kg	0.05	11	0.05	0.05	0.05	0.05	0.00	0	98	Y	0.05	0.05	0.05	Potentially Suitable for Use	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05							
191-24-2	Benzo(ghi)perylene	mg/kg	0.05	11	0.05	0.05	0.05	0.05	0.00	0	640	Y	0.05	0.05	0.05	Potentially Suitable for Use	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05							
207-08-9	Benzo(k)fluoranthene	mg/kg	0.05	11	0.05	0.05	0.05	0.05	0.00	0	140	Y	0.05	0.05	0.05	Potentially Suitable for Use	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05							
218-01-9	Chrysene	mg/kg	0.05	11	0.05	0.05	0.05	0.05	0.00	0	140	Y	0.05	0.05	0.05	Potentially Suitable for Use	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05							
53-70-3	Dibenz(a,h)anthracene	mg/kg	0.05	11	0.05	0.05	0.05	0.05	0.00	0	12	Y	0.05	0.05	0.05	Potentially Suitable for Use	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05							
206-44-0	Fluoranthene	mg/kg	0.05	11	0.05	0.05	0.05	0.05	0.00	0	23000	Y	0.05	0.05	0.05	Potentially Suitable for Use	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05							
86-73-7	Fluorene	mg/kg	0.05																															





Assessment of Chemicals of Potential Concern to Human Health



Risk parameter: Human health - commercial (2.5% SOM)													Date									
Client: Harworth Estates Property Group													15/06/21	15/06/21	15/06/21	15/06/21	15/06/21	15/06/21				
Site: Wingates Ind. Estate													Zone ALL									
Job no.: 15592													Strata ALL									
Lab. report no(s): 21-81116-1 & 21-81339-1													Depth Min (m bgl) 0.2									
													Depth Max (m bgl) 0.3									
All values in mg/kg unless otherwise stated													Dataset mean SOM% 5.26									
													Scenario SOM% 2.5									
													Upper Confidence Limit									
													Location & Depth (m bgl)									
													HYDTP05 HYDTP33 HYDTP31 HYDTP26 HYDTP11 HYDTP01									
													0.2 0.2 0.2 0.3 0.3 0.3									
CAS No / P Code	Chemical of Potential Concern	Units	LoD	No. Samples	Min. Value	Max. Value	Mean	Median	Standard Deviation	No. Samples >= GAC & > LoD	GAC	Central Limit Theorem Assessment	80%	95%	99%	Results of Significance Test						
-	Asbestos	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P1020	Asbestos Identified	Y/N	Y/N	6	-	-	-	-	No. of detects:	0	-	-	-	-	-	-	N	N	N	N	N	N
-	Asbestos Screen Name	text		0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P1432	Asbestos Quant. (Stage 2)	%	0.001	0	-	-	-	-	No. > LOD:	-	-	-	-	-	-	-	-	-	-	-	-	-
P1935	Asbestos Quant. Total	%	0.001	0	-	-	-	-	No. > LOD:	-	-	-	-	-	-	-	-	-	-	-	-	-
P1826	Asbestos Quant. (Stage 3)	%	0.001	0	-	-	-	-	No. > LOD:	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Asbestos Quant. Total (Stages 2+3)	%	0.001	0	-	-	-	-	No. > LOD:	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Asbestos Containing Material Types Detected (ACM)	text		0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hydrock Default Suite - FOC / SOM / pH																						
P1085	FOC (dimensionless)	[ ]	0.001	6	0.022	0.047	0.031	0.028	0.01	-	-	-	-	-	-	-	0.047	0.028	0.028	0.034	0.022	0.024
-	SOM (calculated)	%	0.1724	6	3.79	8.10	5.26	4.83	1.56	-	-	-	-	-	-	-	8.1028	4.8272	4.8272	5.8616	3.7928	4.1376
P1334	pH (su)	pH Units	0.1	6	5.80	7.70	6.63	6.50	0.69	-	-	-	-	-	-	-	5.8	6.2	6.3	6.7	7.1	7.7
Hydrock Default Suite - Metals & PAH																						
7440-38-2	Arsenic	mg/kg	1	6	17.00	24.00	19.67	19.50	2.66	0	640	Y	21.27	22.46	24.04	Potentially Suitable for Use	21	24	19	17	17	20
7440-41-7	Beryllium	mg/kg	0.06	6	0.87	1.20	1.04	0.99	0.13	0	390	Y	1.12	1.18	1.26	Potentially Suitable for Use	0.87	1.2	1.2	0.98	0.98	1
7440-42-8	Boron	mg/kg	0.2	6	0.20	0.80	0.55	0.65	0.28	0	190000	Y	0.72	0.84	1.01	Potentially Suitable for Use	0.6	0.2	0.2	0.8	0.8	0.7
7440-43-9	Cadmium	mg/kg	0.2	6	0.20	0.20	0.20	0.20	0.00	0	220	Y	0.20	0.20	0.20	Potentially Suitable for Use	0.2	0.2	0.2	0.2	0.2	0.2
16065-83-1	Chromium (III)	mg/kg	24	6	17.00	30.00	20.00	18.00	5.06	0	8400	Y	23.05	25.31	28.33	Potentially Suitable for Use	17	30	20	17	17	19
18540-29-9	Chromium (VI)	mg/kg	1.2	6	1.20	1.20	1.20	1.20	0.00	0	33	Y	1.20	1.20	1.20	Potentially Suitable for Use	1.2	1.2	1.2	1.2	1.2	1.2
7440-47-3	Chromium (Total)	mg/kg	1	6	17.00	30.00	20.33	18.50	4.84	-	-	Y	23.25	25.42	28.31	-	17	30	20	18	18	19
7440-50-8	Copper	mg/kg	1	6	37.00	65.00	47.50	46.00	10.58	0	69000	Y	53.87	58.60	64.91	Potentially Suitable for Use	43	53	65	38	37	49
7439-92-1	Lead	mg/kg	1	6	67.00	110.00	88.00	90.50	16.84	0	2300	Y	98.15	105.67	115.72	Potentially Suitable for Use	110	100	88	70	67	93
7439-97-6	Mercury, inorganic	mg/kg	0.3	6	0.30	0.30	0.30	0.30	0.00	0	1100	Y	0.30	0.30	0.30	Potentially Suitable for Use	0.3	0.3	0.3	0.3	0.3	0.3
7440-02-0	Nickel	mg/kg	1	6	16.00	22.00	19.00	19.00	2.37	0	1700	Y	20.43	21.48	22.90	Potentially Suitable for Use	16	22	20	18	17	21
7482-49-2	Selenium	mg/kg	1	6	1.00	1.00	1.00	1.00	0.00	0	13000	Y	1.00	1.00	1.00	Potentially Suitable for Use	1	1	1	1	1	1
7440-62-2	Vanadium	mg/kg	1	6	30.00	37.00	32.83	32.50	2.64	0	9000	Y	34.42	35.60	37.18	Potentially Suitable for Use	31	37	34	30	31	34
7440-66-6	Zinc	mg/kg	1	6	70.00	110.00	91.33	96.00	15.27	0	670000	Y	100.53	107.35	116.46	Potentially Suitable for Use	100	94	98	76	70	110
P1095	Cyanide (free)	mg/kg	1	6	1.00	1.00	1.00	1.00	0.00	0	16000	Y	1.00	1.00	1.00	Potentially Suitable for Use	1	1	1	1	1	1
P1186	Phenol	mg/kg	1	6	1.00	1.00	1.00	1.00	0.00	0	1500	Y	1.00	1.00	1.00	Potentially Suitable for Use	1	1	1	1	1	1
83-32-9	Acenaphthene	mg/kg	0.05	6	0.05	0.05	0.05	0.05	0.00	0	97000	Y	0.05	0.05	0.05	Potentially Suitable for Use	0.05	0.05	0.05	0.05	0.05	0.05
208-96-8	Acenaphthylene	mg/kg	0.05	6	0.05	0.05	0.05	0.05	0.00	0	97000	Y	0.05	0.05	0.05	Potentially Suitable for Use	0.05	0.05	0.05	0.05	0.05	0.05
120-12-7	Anthracene	mg/kg	0.05	6	0.05	0.14	0.07	0.05	0.04	0	540000	Y	0.09	0.10	0.13	Potentially Suitable for Use	0.05	0.14	0.05	0.05	0.05	0.05
56-55-3	Benz(a)anthracene	mg/kg	0.05	6	0.05	0.40	0.21	0.24	0.14	0	91	Y	0.30	0.36	0.44	Potentially Suitable for Use	0.25	0.4	0.05	0.23	0.05	0.3
50-32-8	Benzo(a)pyrene	mg/kg	0.05	6	0.05	0.35	0.20	0.22	0.13	0	14	Y	0.27	0.33	0.40	Potentially Suitable for Use	0.25	0.35	0.05	0.18	0.05	0.29
205-99-2	Benzo(b)fluoranthene	mg/kg	0.05	6	0.05	0.41	0.22	0.24	0.14	0	98	Y	0.30	0.37	0.45	Potentially Suitable for Use	0.22	0.41	0.05	0.26	0.05	0.31
191-24-2	Benzo(g,h)perylene	mg/kg	0.05	6	0.05	0.27	0.09	0.05	0.09	0	640	Y	0.14	0.18	0.23	Potentially Suitable for Use	0.05	0.27	0.05	0.05	0.05	0.05
207-08-9	Benzo(k)fluoranthene	mg/kg	0.05	6	0.05	0.24	0.14	0.16	0.08	0	140	Y	0.19	0.22	0.27	Potentially Suitable for Use	0.18	0.24	0.05	0.13	0.05	0.2
218-01-9	Chrysene	mg/kg	0.05	6	0.05	0.53	0.26	0.30	0.18	0	140	Y	0.37	0.46	0.57	Potentially Suitable for Use	0.29	0.53	0.05	0.31	0.05	0.34
53-70-3	Dibenz(a,h)anthracene	mg/kg	0.05	6	0.05	0.05	0.05	0.05	0.00	0	12	Y	0.05	0.05	0.05	Potentially Suitable for Use	0.05	0.05	0.05	0.05	0.05	0.05
206-44-0	Fluoranthene	mg/kg	0.05	6	0.05	0.84	0.44	0.43	0.27	0	23000	Y	0.60	0.72	0.88	Potentially Suitable for Use	0.46	0.84	0.31	0.4	0.05	0.59
86-73-7	Fluorene	mg/kg	0.05	6	0.05	0.05	0.05	0.05	0.00	0	68000	Y	0.05	0.05	0.05	Potentially Suitable for Use	0.05	0.05	0.05	0.05	0.05	0.05
193-39-5	Indeno(1,2,3-cd)pyrene	mg/kg	0.05	6	0.05	0.20	0.08	0.05	0.06	0	59	Y	0.11	0.14	0.18	Potentially Suitable for Use	0.05	0.2	0.05	0.05	0.05	0.05
91-20-3	Naphthalene	mg/kg	0.05	6	0.05	0.05	0.05	0.05	0.00	0	460	Y	0.05	0.05	0.05	Potentially Suitable for Use	0.05	0.05	0.05	0.05	0.05	0.05
85-01-8	Phenanthrene	mg/kg	0.05	6	0.05	0.60	0.28	0.28	0.21	0	22000	Y	0.40	0.50	0.62	Potentially Suitable for Use	0.29	0.6	0.05	0.26	0.05	0.4
129-00-0	Pyrene	mg/kg	0.05	6	0.05	1.00	0.50	0.53	0.31	0	54000	Y	0.69	0.83	1.01	Potentially Suitable for Use	0.55	1	0.36	0.5	0.05	0.55
P1874	PAH 16 Total	mg/kg	0.05	6	0.80	5.00	2.39	2.38	1.56	-	-	Y	3.33	4.03	4.97	-	2.49	5	0.8	2.27	0.8	2.98

Risk parameter:	Default - Human Health - POSpark (1%SOM)
Client:	Harworth Estates Property Group Ltd.
Site:	Wingates
Job no.:	15592
Lab. report no(s).:	22-85728-1

1  
 ALL  
 0.1  
 0.7

All values in mg/kg unless otherwise stated

CAS No / P Code	Chemical of Potential Concern	Units	LoD	No. Samples	Min. Value	Max. Value	Mean	Median	No. Samples >= GAC & > LoD	GAC	GAC Source	Date	20/09/22	20/09/22	20/09/22	20/09/22	20/09/22	20/09/22	20/09/22			
												Zone	1	1	1	1	1	1	1	1	1	
												Location	HP01	HP03	HP04	HP05	HP05	HP06	HP07			
												Depth (m bgl)	0.1	0.3	0.1	0.3	0.7	0.2	0.2			
												Strata	NAT	NAT	NAT	NAT	NAT	NAT	NAT			
Asbestos																						
P1020	Asbestos Identified	Y/N	Y/N	8	-	-	-	-	0	-	-	N	N	N	N	N	N	N	N			
	Asbestos Screen Name	text		0	-	-	-	-														
P1889	Asbestos Quant. (Stage 2)	%	0.001	0																		
P1935	Asbestos Quant. Total	%	0.001	0																		
Hydrock Default Suite - FOC / SOM / pH																						
P1085	FOC (dimensionless)	[]	0.001	8	0.008	0.052	0.032	0.033				0.024	0.043	0.039	0.052	0.0082	0.033	0.032				
-	SOM (calculated)	%	0.1724	8	1.41	8.96	5.43	5.60				4.1376	7.4132	6.7236	8.9648	1.41368	5.6892	5.5168				
P1334	pH (su)	pH Units	0.1	8	6.30	8.10	7.31	7.40				7.7	7.1	8.1	7	6.3	7.7	7.8				
Hydrock Default Suite - Metals & PAH																						
7440-38-2	Arsenic	mg/kg	1	8	9.40	36.00	17.18	15.00	0	170	C4SL - CLAIRE 2014	13	10	19	36	9.4	15	20				
7440-41-7	Beryllium	mg/kg	0.06	8	0.44	1.30	0.84	0.87	0	63	Hydrock Derived	0.98	0.95	1.3	0.81	0.6	0.68	0.93				
7440-42-8	Boron	mg/kg	0.2	8	0.30	1.00	0.64	0.65	0	46000	Hydrock Derived	0.6	1	0.9	0.7	0.3	0.7	0.4				
7440-43-9	Cadmium	mg/kg	0.2	8	0.20	0.20	0.20	0.20	0	880	C4SL - CLAIRE 2014	0.2	0.2	0.2	0.2	0.2	0.2	0.2				
16065-83-1	Chromium (III)	mg/kg	1	8	11.00	19.00	16.25	17.00	0	27000	Hydrock Derived	17	11	19	16	18	17	18				
18540-29-9	Chromium (VI)	mg/kg	1.2	8	1.80	2.10	1.84	1.80	0	250	C4SL - CLAIRE 2014	1.8	2.1	1.8	1.8	1.8	1.8	1.8				
7440-47-3	Chromium (Total)	mg/kg	1	8	13.00	19.00	17.00	17.50				18	13	19	17	19	17	19				
7440-50-8	Copper	mg/kg	1	8	16.00	57.00	35.50	32.00	0	44000	Hydrock Derived	28	27	51	57	16	36	42				
7439-92-1	Lead	mg/kg	1	8	13.00	87.00	53.25	48.50	0	1300	C4SL - CLAIRE 2014	47	40	87	76	13	50	70				
7439-97-6	Mercury, inorganic	mg/kg	0.3	8	0.30	0.30	0.30	0.30	0	240	Hydrock Derived	0.3	0.3	0.3	0.3	0.3	0.3	0.3				
7440-02-0	Nickel	mg/kg	1	8	12.00	21.00	16.63	16.50	0	800	Hydrock Derived	19	15	21	18	14	15	19				
7782-49-2	Selenium	mg/kg	1	8	1.00	1.00	1.00	1.00	0	1800	Hydrock Derived	1	1	1	1	1	1	1				
7440-62-2	Vanadium	mg/kg	1	8	19.00	41.00	28.63	28.50	0	5000	Hydrock Derived	27	19	34	41	29	28	30				
7440-66-6	Zinc	mg/kg	1	8	33.00	80.00	52.75	52.50	0	170000	Hydrock Derived	56	51	80	54	33	48	61				
P1095	Cyanide (free)	mg/kg	1	8	1.00	1.00	1.00	1.00	0	24	Acute Risk - SoBRA 2020	1	1	1	1	1	1	1				
P1186	Total Phenols (Monohydric)	mg/kg	1	8	1.00	1.00	1.00	1.00	0	440	Hydrock Derived	1	1	1	1	1	1	1				
83-32-9	Acenaphthene	mg/kg	0.05	8	0.05	0.05	0.05	0.05	0	29000	Hydrock Derived	0.05	0.05	0.05	0.05	0.05	0.05	0.05				
208-96-8	Acenaphthylene	mg/kg	0.05	8	0.05	0.05	0.05	0.05	0	29000	Hydrock Derived	0.05	0.05	0.05	0.05	0.05	0.05	0.05				
120-12-7	Anthracene	mg/kg	0.05	8	0.05	0.12	0.06	0.05	0	150000	Hydrock Derived	0.05	0.05	0.06	0.05	0.05	0.05	0.05				
56-55-3	Benz(a)anthracene	mg/kg	0.05	8	0.05	0.37	0.16	0.14	0	49	Hydrock Derived	0.05	0.22	0.22	0.37	0.05	0.05	0.05				
50-32-8	Benzo(a)pyrene	mg/kg	0.05	8	0.05	0.35	0.13	0.05	0	21	C4SL - CLAIRE 2014	0.05	0.23	0.21	0.35	0.05	0.05	0.05				
205-99-2	Benzo(b)fluoranthene	mg/kg	0.05	8	0.05	0.43	0.15	0.05	0	13	Hydrock Derived	0.05	0.29	0.25	0.43	0.05	0.05	0.05				
191-24-2	Benzo(ghi)perylene	mg/kg	0.05	8	0.05	0.05	0.05	0.05	0	1400	Hydrock Derived	0.05	0.05	0.05	0.05	0.05	0.05	0.05				
207-08-9	Benzo(k)fluoranthene	mg/kg	0.05	8	0.05	0.17	0.09	0.05	0	370	Hydrock Derived	0.05	0.13	0.13	0.17	0.05	0.05	0.05				
218-01-9	Chrysene	mg/kg	0.05	8	0.05	0.43	0.18	0.15	0	93	Hydrock Derived	0.05	0.29	0.27	0.43	0.05	0.05	0.05				
53-70-3	Dibenz(ah)anthracene	mg/kg	0.05	8	0.05	0.05	0.05	0.05	0	1.1	Hydrock Derived	0.05	0.05	0.05	0.05	0.05	0.05	0.05				
206-44-0	Fluoranthene	mg/kg	0.05	8	0.05	0.59	0.31	0.34	0	6300	Hydrock Derived	0.05	0.44	0.4	0.59	0.05	0.23	0.28				
86-73-7	Fluorene	mg/kg	0.05	8	0.05	0.05	0.05	0.05	0	20000	Hydrock Derived	0.05	0.05	0.05	0.05	0.05	0.05	0.05				
193-39-5	Indeno(123cd)pyrene	mg/kg	0.05	8	0.05	0.05	0.05	0.05	0	150	Hydrock Derived	0.05	0.05	0.05	0.05	0.05	0.05	0.05				
91-20-3	Naphthalene	mg/kg	0.05	8	0.05	0.05	0.05	0.05	0	1100	Hydrock Derived	0.05	0.05	0.05	0.05	0.05	0.05	0.05				
85-01-8	Phenanthrene	mg/kg	0.05	8	0.05	0.64	0.30	0.31	0	6200	Hydrock Derived	0.05	0.39	0.31	0.64	0.05	0.31	0.24				
129-00-0	Pyrene	mg/kg	0.05	8	0.05	0.61	0.31	0.34	0	15000	Hydrock Derived	0.05	0.42	0.4	0.61	0.05	0.24	0.27				
P1310	PAH 16 Total	mg/kg	0.8	0																		
TPH fractions																						
P1407	TPH ali EC05-EC06	mg/kg	0.001	5	0.00	0.00	0.00	0.00	0	95000	Hydrock Derived	0.001	0.001		0.001			0.001				
P1408	TPH ali >EC06-EC08	mg/kg	0.001	5	0.00	0.00	0.00	0.00	0	150000	Hydrock Derived	0.001	0.001		0.001			0.001				
P1409	TPH ali >EC08-EC10	mg/kg	0.001	5	0.00	0.00	0.00	0.00	0	14000	Hydrock Derived	0.001	0.001		0.001			0.001				
P1410	TPH ali >EC10-EC12	mg/kg	1	5	1.00	1.00	1.00	1.00	0	21000	Hydrock Derived	1	1		1			1				
P1411	TPH ali >EC12-EC16	mg/kg	2	5	2.00	2.00	2.00	2.00	0	25000	Hydrock Derived	2	2		2			2				
P1412	TPH ali >EC16-EC21	mg/kg	8	0																		
P1413	TPH ali >EC21-EC35	mg/kg	8	0																		
P1938	TPH ali >EC16-EC35	mg/kg	10	5	10.00	10.00	10.00	10.00	0	450000	Hydrock Derived	10	10		10			10				
P1415	TPH ali >EC35-EC44	mg/kg	8.4	5	8.40	8.40	8.40	8.40	0	450000	Hydrock Derived	8.4	8.4		8.4			8.4				
P1418	TPH ali >EC5-EC35	mg/kg	10	0																		
P1420	TPH ali >EC5-EC44	mg/kg	10	0																		
P1441	TPH aro EC05-EC07	mg/kg	0.001	5	0.00	0.00	0.00	0.00	0	76000	Hydrock Derived	0.001	0.001		0.001			0.001				
P1355	TPH aro >EC07-EC08	mg/kg	0.001	5	0.00	0.00	0.00	0.00	0	87000	Hydrock Derived	0.001	0.001		0.001			0.001				
P1356	TPH aro >EC08-EC10	mg/kg	0.001	5	0.00	0.00	0.00	0.00	0	7200	Hydrock Derived	0.001	0.001		0.001			0.001				
P1357	TPH aro >EC10-EC12	mg/kg	1	5	1.00	1.00	1.00	1.00	0	9200	Hydrock Derived	1	1		1			1				
P1358	TPH aro >EC12-EC16	mg/kg	2	5	2.00	2.00	2.00	2.00	0	10000	Hydrock Derived	2	2		2			2				
P1359	TPH aro >EC16-EC21	mg/kg	10	5	10.00	10.00	10.00	10.00	0	7600	Hydrock Derived	10	10		10			10				
P1360	TPH aro >EC21-EC35	mg/kg	10	5	10.00	10.00	10.00	10.00	0	7800	Hydrock Derived	10	10		10			10				
P1362	TPH aro >EC35-EC44	mg/kg	8.4	5	8.40	8.40	8.40	8.40	0	7800	Hydrock Derived	8.4	8.4		8.4			8.4				
P1365	TPH aro >EC5-EC35	mg/kg	10	0																		
P1941	TPH aro >EC5-EC44	mg/kg	10	0																		
P1373	Total TPH >EC5-EC44	mg/kg	10	0																		
VOCs - BTEX & MTBE																						
71-43-2	Benzene	mg/kg	0.001	5	0.00	0.00	0.00	0.00	0	190	C4SL - CLAIRE 2014	0.001	0.001		0.001			0.001				
108-88-3	Toluene	mg/kg	0.001	5	0.00	0.00	0.00	0.00	0	87000	Hydrock Derived	0.001	0.001		0.001							

Risk parameter:	Default - Human Health - POSpark (1% SOM)
Client:	Harworth Estates Property Group Ltd.
Site:	Wingates
Job no.:	15592
Lab. report no(s).:	22-85728-1

1  
ALL  
0.1  
0.7

5.43  
1

All values in mg/kg unless otherwise stated

Chemical of Potential Concern	Units	LoD	No. Samples	Min. Value	Max. Value	Mean	Median	No. Samples ≥ GAC & > LoD	GAC	GAC Source
<b>Asbestos</b>										
Asbestos Identified	Y/N	Y/N	8	-	-	-	-	0	-	-
Asbestos Screen Name	text		0	-	-	-	-			-
Asbestos Quant. (Stage 2)	%	0.001	0							-
Asbestos Quant. Total	%	0.001	0							-
<b>Hydrock Default Suite - FOC / SOM / pH</b>										
FOC (dimensionless)	[]	0.001	8	0.008	0.052	0.032	0.033		-	-
SOM (calculated)	%	0.1724	8	1.41	8.96	5.43	5.60		-	-
pH (su)	pH Units	0.1	8	6.30	8.10	7.31	7.40		-	-
<b>Hydrock Default Suite - Metals &amp; PAH</b>										
Arsenic	mg/kg	1	8	9.40	36.00	17.18	15.00	0	170	C4SL - CL-AIRE 2014
Beryllium	mg/kg	0.06	8	0.44	1.30	0.84	0.87	0	63	Hydrock Derived
Boron	mg/kg	0.2	8	0.30	1.00	0.64	0.65	0	46000	Hydrock Derived
Cadmium	mg/kg	0.2	8	0.20	0.20	0.20	0.20	0	880	C4SL - CL-AIRE 2014
Chromium (III)	mg/kg	1	8	11.00	19.00	16.25	17.00	0	27000	Hydrock Derived
Chromium (VI)	mg/kg	1.2	8	1.80	2.10	1.84	1.80	0	250	C4SL - CL-AIRE 2014
Chromium (Total)	mg/kg	1	8	13.00	19.00	17.00	17.50		-	
Copper	mg/kg	1	8	16.00	57.00	35.50	32.00	0	44000	Hydrock Derived
Lead	mg/kg	1	8	13.00	87.00	53.25	48.50	0	1300	C4SL - CL-AIRE 2014
Mercury, inorganic	mg/kg	0.3	8	0.30	0.30	0.30	0.30	0	240	Hydrock Derived
Nickel	mg/kg	1	8	12.00	21.00	16.63	16.50	0	800	Hydrock Derived
Selenium	mg/kg	1	8	1.00	1.00	1.00	1.00	0	1800	Hydrock Derived
Vanadium	mg/kg	1	8	19.00	41.00	28.63	28.50	0	5000	Hydrock Derived
Zinc	mg/kg	1	8	33.00	80.00	52.75	52.50	0	170000	Hydrock Derived
Cyanide (free)	mg/kg	1	8	1.00	1.00	1.00	1.00	0	24	Acute Risk - SoBRA 2020
Total Phenols (Monohydric)	mg/kg	1	8	1.00	1.00	1.00	1.00	0	440	Hydrock Derived
Acenaphthene	mg/kg	0.05	8	0.05	0.05	0.05	0.05	0	29000	Hydrock Derived
Acenaphthylene	mg/kg	0.05	8	0.05	0.05	0.05	0.05	0	29000	Hydrock Derived
Anthracene	mg/kg	0.05	8	0.05	0.12	0.06	0.05	0	150000	Hydrock Derived
Benz(a)anthracene	mg/kg	0.05	8	0.05	0.37	0.16	0.14	0	49	Hydrock Derived
Benzo(a)pyrene	mg/kg	0.05	8	0.05	0.35	0.13	0.05	0	21	C4SL - CL-AIRE 2014
Benzo(b)fluoranthene	mg/kg	0.05	8	0.05	0.43	0.15	0.05	0	13	Hydrock Derived
Benzo(ghi)perylene	mg/kg	0.05	8	0.05	0.05	0.05	0.05	0	1400	Hydrock Derived
Benzo(k)fluoranthene	mg/kg	0.05	8	0.05	0.17	0.09	0.05	0	370	Hydrock Derived
Chrysene	mg/kg	0.05	8	0.05	0.43	0.18	0.15	0	93	Hydrock Derived
Dibenz(ah)anthracene	mg/kg	0.05	8	0.05	0.05	0.05	0.05	0	1.1	Hydrock Derived
Fluoranthene	mg/kg	0.05	8	0.05	0.59	0.31	0.34	0	6300	Hydrock Derived
Fluorene	mg/kg	0.05	8	0.05	0.05	0.05	0.05	0	20000	Hydrock Derived
Indeno(123cd)pyrene	mg/kg	0.05	8	0.05	0.05	0.05	0.05	0	150	Hydrock Derived
Naphthalene	mg/kg	0.05	8	0.05	0.05	0.05	0.05	0	1100	Hydrock Derived
Phenanthrene	mg/kg	0.05	8	0.05	0.64	0.30	0.31	0	6200	Hydrock Derived
Pyrene	mg/kg	0.05	8	0.05	0.61	0.31	0.34	0	15000	Hydrock Derived
PAH 16 Total	mg/kg	0.8	0							
<b>TPH fractions</b>										
TPH ali > EC05-EC06	mg/kg	0.001	5	0.00	0.00	0.00	0.00	0	95000	Hydrock Derived
TPH ali > EC06-EC08	mg/kg	0.001	5	0.00	0.00	0.00	0.00	0	150000	Hydrock Derived
TPH ali > EC08-EC10	mg/kg	0.001	5	0.00	0.00	0.00	0.00	0	14000	Hydrock Derived
TPH ali > EC10-EC12	mg/kg	1	5	1.00	1.00	1.00	1.00	0	21000	Hydrock Derived
TPH ali > EC12-EC16	mg/kg	2	5	2.00	2.00	2.00	2.00	0	25000	Hydrock Derived
TPH ali > EC16-EC21	mg/kg	8	0							
TPH ali > EC21-EC35	mg/kg	8	0							
TPH ali > EC16-EC35	mg/kg	10	5	10.00	10.00	10.00	10.00	0	450000	Hydrock Derived
TPH ali > EC35-EC44	mg/kg	8.4	5	8.40	8.40	8.40	8.40	0	450000	Hydrock Derived
TPH ali > EC5-EC35	mg/kg	10	0							
TPH ali > EC5-EC44	mg/kg	10	0							
TPH aro > EC05-EC07	mg/kg	0.001	5	0.00	0.00	0.00	0.00	0	76000	Hydrock Derived
TPH aro > EC07-EC08	mg/kg	0.001	5	0.00	0.00	0.00	0.00	0	87000	Hydrock Derived
TPH aro > EC08-EC10	mg/kg	0.001	5	0.00	0.00	0.00	0.00	0	7200	Hydrock Derived
TPH aro > EC10-EC12	mg/kg	1	5	1.00	1.00	1.00	1.00	0	9200	Hydrock Derived
TPH aro > EC12-EC16	mg/kg	2	5	2.00	2.00	2.00	2.00	0	10000	Hydrock Derived
TPH aro > EC16-EC21	mg/kg	10	5	10.00	10.00	10.00	10.00	0	7600	Hydrock Derived
TPH aro > EC21-EC35	mg/kg	10	5	10.00	10.00	10.00	10.00	0	7800	Hydrock Derived
TPH aro > EC35-EC44	mg/kg	8.4	5	8.40	8.40	8.40	8.40	0	7800	Hydrock Derived
TPH aro > EC5-EC35	mg/kg	10	0							
TPH aro > EC5-EC44	mg/kg	10	0							
Total TPH > EC5-EC44	mg/kg	10	0							
<b>VOCS - BTEX &amp; MTBE</b>										
Benzene	mg/kg	0.001	5	0.00	0.00	0.00	0.00	0	190	C4SL - CL-AIRE 2014
Toluene	mg/kg	0.001	5	0.00	0.00	0.00	0.00	0	87000	Hydrock Derived
Ethylbenzene	mg/kg	0.001	5	0.00	0.00	0.00	0.00	0	17000	Hydrock Derived
Xylene, o-	mg/kg	0.001	5	0.00	0.00	0.00	0.00	0	17000	Hydrock Derived
Xylene, p- (use this for combined m & p)	mg/kg	0.001	5	0.00	0.00	0.00	0.00	0	17000	Hydrock Derived
MTBE	mg/kg	0.001	5	0.00	0.00	0.00	0.00	0	98000	Hydrock Derived
<b>VOCS - other benzenes</b>										

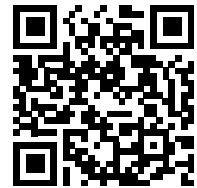
<b>Legend:</b>	NAT	NATURAL GROUND	<0.02	Value below the laboratory reporting limit and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
			0.02	Value greater than, or equal to, the generic assessment criterion (GAC).
			* <10	Value excluded from statistical analysis
			Y	Text result
			-	Represents a determinand that was not tested.
			+	represents a data point that is not included in the current filter column

## Appendix F Waste Assessment

# 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)



B47GK-MUNPU-I4FQR

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

## Job name

Wingates Industrial Estate, Bolton

## Description/Comments

Lab reports: 21-81116 & 21-81339

## Project

C-15592

## Site

Wingates Industrial Estate, Bolton

## Classified by

Name: **Will Swinnerton**  
 Date: **09 Aug 2021 10:40 GMT**  
 Telephone: **(01782) 261919**

Company: **Hydrock Consultants Ltd**  
**4 Lakeside, Festival Park, Stoke-on-Trent.**  
**ST1 5RY**

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**  
 08 Sep 2020

Next 3 year Refresher due by Sep 2023

## Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	HYDTP06-ES--0.30		Non Hazardous		3
2	HYDTP05-ES--0.20		Non Hazardous		5
3	HYDTP33-ES--0.20		Non Hazardous		7
4	HYDTP31-ES--0.20		Non Hazardous		9
5	HYDTP26-ES--0.30		Non Hazardous		11
6	HYDTP19-ES--0.20		Non Hazardous		13
7	HYDTP23-ES--0.40		Non Hazardous		15
8	HYDTP16-ES--0.50		Non Hazardous		17
9	HYDTP13-ES--0.50		Non Hazardous		19
10	HYDTP11-ES--0.45		Non Hazardous		21
11	HYDTP25-ES--0.50		Non Hazardous		23
12	HYDTP28-ES--0.40		Non Hazardous		25
13	HYDTP13-ES--0.75		Non Hazardous		27
14	HYDTP11-ES--0.30		Non Hazardous		30
15	HYDTP10-ES--0.30		Non Hazardous		32
16	HYDTP07-ES--1.00		Non Hazardous		38
17	HYDTP14-ES--0.80		Non Hazardous		40
18	HYDTP16-ES--1.00		Non Hazardous		42
19	HYDTP15-ES--0.50		Non Hazardous		45
20	HYDTP17---1.00		Non Hazardous		48
21	HYDTP03---0.70		Non Hazardous		54
22	HYDTP03---4.80		Non Hazardous		60
23	HYDTP01---0.30		Non Hazardous		66
24	HYDTP05---1.20		Non Hazardous		68
25	HYDTP04---0.40		Non Hazardous		71
26	HYDTP14---0.40		Non Hazardous		73

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**Related documents**

#	Name	Description
1	21-81116_HWOL_Results.hwol	.hwol file used to create the Job
2	21-81339_HWOL_Results.hwol	.hwol file used to create the Job
3	Hydrock Standard plus Cresol (ammended Lead)	waste stream template used to create this Job

**Report**

Created by: Will Swinnerton


Created date: 09 Aug 2021 10:40 GMT

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Classification of sample: HYDTP06-ES--0.30

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

**Sample details**

Sample name:	LoW Code:
<b>HYDTP06-ES--0.30</b>	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)
<b>13%</b> (wet weight correction)	

**Hazard properties**

None identified

**Determinands**

Moisture content: 13% Wet Weight Moisture Correction applied (MC)


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	8.5 mg/kg	1.32	9.764 mg/kg	0.000976 %	✓	
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.44 mg/kg	2.775	1.062 mg/kg	0.000106 %	✓	
11	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.3 mg/kg	13.43	3.505 mg/kg	0.000351 %	✓	
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		17 mg/kg	1.462	21.616 mg/kg	0.00216 %	✓	
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
15	chrysene	601-048-00-0	205-923-4	218-01-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
16	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	13 mg/kg	1.126	12.734 mg/kg	0.00127 %	✓	

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
18	dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
19	fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0									
20	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7									
21	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5									
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	30	mg/kg		26.1	mg/kg	0.00261 %	✓	
	082-001-00-6											
23	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
24	naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
25	nickel { nickel dihydroxide }				15	mg/kg	1.579	20.612	mg/kg	0.00206 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26	pH				6.6	pH		6.6	pH	6.6 pH		
			PH									
27	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8									
28	pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0									
29	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
	034-002-00-8											
30	zinc { zinc oxide }				38	mg/kg	1.245	41.15	mg/kg	0.00412 %	✓	
	030-013-00-7	215-222-5	1314-13-2									
31	monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			P1186									
32	vanadium { divanadium pentaoxide; vanadium pentoxide }				21	mg/kg	1.785	32.615	mg/kg	0.00326 %	✓	
	023-001-00-8	215-239-8	1314-62-1									
Total:										0.0177 %		

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
- ND** Not detected
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: HYDTP05-ES--0.20

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

**Sample details**

Sample name:	LoW Code:
<b>HYDTP05-ES--0.20</b>	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)
<b>25%</b> (wet weight correction)	

**Hazard properties**

None identified

**Determinands**

Moisture content: 25% Wet Weight Moisture Correction applied (MC)


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	21 mg/kg	1.32	20.795 mg/kg	0.00208 %	✓	
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.25 mg/kg		0.188 mg/kg	0.0000187 %	✓	
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.25 mg/kg		0.188 mg/kg	0.0000187 %	✓	
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	0.22 mg/kg		0.165 mg/kg	0.0000165 %	✓	
8	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.18 mg/kg		0.135 mg/kg	0.0000135 %	✓	
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.87 mg/kg	2.775	1.811 mg/kg	0.000181 %	✓	
11	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.6 mg/kg	13.43	6.044 mg/kg	0.000604 %	✓	
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		17 mg/kg	1.462	18.635 mg/kg	0.00186 %	✓	
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
15	chrysene	601-048-00-0	205-923-4	218-01-9	0.29 mg/kg		0.218 mg/kg	0.0000218 %	✓	
16	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	43 mg/kg	1.126	36.31 mg/kg	0.00363 %	✓	

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
18	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
19	fluoranthene				0.46 mg/kg		0.345 mg/kg	0.0000345 %		✓	
		205-912-4	206-44-0								
20	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
21	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-893-2	193-39-5								
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	110 mg/kg		82.5 mg/kg	0.00825 %		✓	
	082-001-00-6										
23	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
25	nickel { nickel dihydroxide }				16 mg/kg	1.579	18.954 mg/kg	0.0019 %		✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
26	pH				5.8 pH		5.8 pH	5.8 pH			
			PH								
27	phenanthrene				0.29 mg/kg		0.218 mg/kg	0.0000218 %		✓	
		201-581-5	85-01-8								
28	pyrene				0.55 mg/kg		0.413 mg/kg	0.0000413 %		✓	
		204-927-3	129-00-0								
29	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
	034-002-00-8										
30	zinc { zinc oxide }				100 mg/kg	1.245	93.354 mg/kg	0.00934 %		✓	
	030-013-00-7	215-222-5	1314-13-2								
31	monohydric phenols				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
			P1186								
32	vanadium { divanadium pentaoxide; vanadium pentoxide }				31 mg/kg	1.785	41.506 mg/kg	0.00415 %		✓	
	023-001-00-8	215-239-8	1314-62-1								
Total:									0.0329 %		

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
- ND** Not detected
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: HYDTP33-ES--0.20

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

**Sample details**

Sample name:	LoW Code:	
<b>HYDTP33-ES--0.20</b>	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)
<b>20%</b> (wet weight correction)		

**Hazard properties**

None identified

**Determinands**

Moisture content: 20% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene	204-371-1	120-12-7		0.14 mg/kg		0.112 mg/kg	0.0000112 %	✓	
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	24 mg/kg	1.32	25.35 mg/kg	0.00254 %	✓	
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.4 mg/kg		0.32 mg/kg	0.000032 %	✓	
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.35 mg/kg		0.28 mg/kg	0.000028 %	✓	
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	0.41 mg/kg		0.328 mg/kg	0.0000328 %	✓	
8	benzo[ghi]perylene	205-883-8	191-24-2		0.27 mg/kg		0.216 mg/kg	0.0000216 %	✓	
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.24 mg/kg		0.192 mg/kg	0.0000192 %	✓	
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	1.2 mg/kg	2.775	2.664 mg/kg	0.000266 %	✓	
11	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		<0.2 mg/kg	13.43	<2.686 mg/kg	<0.000269 %		<LOD
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		30 mg/kg	1.462	35.077 mg/kg	0.00351 %	✓	
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
15	chrysene	601-048-00-0	205-923-4	218-01-9	0.53 mg/kg		0.424 mg/kg	0.0000424 %	✓	
16	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	53 mg/kg	1.126	47.738 mg/kg	0.00477 %	✓	


#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
18	dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
19	fluoranthene				0.84	mg/kg		0.672	mg/kg	0.0000672 %	✓	
		205-912-4	206-44-0									
20	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7									
21	indeno[123-cd]pyrene				0.2	mg/kg		0.16	mg/kg	0.000016 %	✓	
		205-893-2	193-39-5									
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	100	mg/kg		80	mg/kg	0.008 %	✓	
	082-001-00-6											
23	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
24	naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
25	nickel { nickel dihydroxide }				22	mg/kg	1.579	27.799	mg/kg	0.00278 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26	pH				6.2	pH		6.2	pH	6.2 pH		
			PH									
27	phenanthrene				0.6	mg/kg		0.48	mg/kg	0.000048 %	✓	
		201-581-5	85-01-8									
28	pyrene				1	mg/kg		0.8	mg/kg	0.00008 %	✓	
		204-927-3	129-00-0									
29	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
	034-002-00-8											
30	zinc { zinc oxide }				94	mg/kg	1.245	93.602	mg/kg	0.00936 %	✓	
	030-013-00-7	215-222-5	1314-13-2									
31	monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			P1186									
32	vanadium { divanadium pentaoxide; vanadium pentoxide }				37	mg/kg	1.785	52.841	mg/kg	0.00528 %	✓	
	023-001-00-8	215-239-8	1314-62-1									
Total:										0.0379 %		

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
- ND** Not detected
- CLP: Note 1 Only the metal concentration has been used for classification



Classification of sample: HYDTP31-ES--0.20

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

**Sample details**

Sample name:	LoW Code:	
<b>HYDTP31-ES--0.20</b>	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)
<b>16%</b> (wet weight correction)		

**Hazard properties**

None identified

**Determinands**

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


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	19 mg/kg	1.32	21.072 mg/kg	0.00211 %	✓	
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	1.2 mg/kg	2.775	2.798 mg/kg	0.00028 %	✓	
11	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		<0.2 mg/kg	13.43	<2.686 mg/kg	<0.000269 %		<LOD
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		20 mg/kg	1.462	24.554 mg/kg	0.00246 %	✓	
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
15	chrysene	601-048-00-0	205-923-4	218-01-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
16	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	65 mg/kg	1.126	61.474 mg/kg	0.00615 %	✓	

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
18	dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
19	fluoranthene				0.31	mg/kg		0.26	mg/kg	0.000026 %	✓	
		205-912-4	206-44-0									
20	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7									
21	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5									
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	88	mg/kg		73.92	mg/kg	0.00739 %	✓	
	082-001-00-6											
23	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
24	naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
25	nickel { nickel dihydroxide }				20	mg/kg	1.579	26.536	mg/kg	0.00265 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26	pH				6.3	pH		6.3	pH	6.3 pH		
			PH									
27	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8									
28	pyrene				0.36	mg/kg		0.302	mg/kg	0.0000302 %	✓	
		204-927-3	129-00-0									
29	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
	034-002-00-8											
30	zinc { zinc oxide }				98	mg/kg	1.245	102.465	mg/kg	0.0102 %	✓	
	030-013-00-7	215-222-5	1314-13-2									
31	monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			P1186									
32	vanadium { divanadium pentaoxide; vanadium pentoxide }				34	mg/kg	1.785	50.985	mg/kg	0.0051 %	✓	
	023-001-00-8	215-239-8	1314-62-1									
Total:										0.0375 %		

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
- ND** Not detected
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: HYDTP26-ES--0.30

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

**Sample details**

Sample name:	LoW Code:	
<b>HYDTP26-ES--0.30</b>	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)
<b>16%</b> (wet weight correction)		

**Hazard properties**

None identified

**Determinands**

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


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	17 mg/kg	1.32	18.854 mg/kg	0.00189 %	✓	
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.23 mg/kg		0.193 mg/kg	0.0000193 %	✓	
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.18 mg/kg		0.151 mg/kg	0.0000151 %	✓	
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	0.26 mg/kg		0.218 mg/kg	0.0000218 %	✓	
8	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.13 mg/kg		0.109 mg/kg	0.0000109 %	✓	
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.98 mg/kg	2.775	2.285 mg/kg	0.000228 %	✓	
11	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.8 mg/kg	13.43	9.025 mg/kg	0.000902 %	✓	
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		17 mg/kg	1.462	20.871 mg/kg	0.00209 %	✓	
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
15	chrysene	601-048-00-0	205-923-4	218-01-9	0.31 mg/kg		0.26 mg/kg	0.000026 %	✓	
16	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	38 mg/kg	1.126	35.938 mg/kg	0.00359 %	✓	

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
18	dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
19	fluoranthene				0.4	mg/kg		0.336	mg/kg	0.0000336 %	✓	
		205-912-4	206-44-0									
20	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7									
21	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5									
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	70	mg/kg		58.8	mg/kg	0.00588 %	✓	
	082-001-00-6											
23	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
24	naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
25	nickel { nickel dihydroxide }				18	mg/kg	1.579	23.882	mg/kg	0.00239 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26	pH				6.7	pH		6.7	pH	6.7 pH		
			PH									
27	phenanthrene				0.26	mg/kg		0.218	mg/kg	0.0000218 %	✓	
		201-581-5	85-01-8									
28	pyrene				0.5	mg/kg		0.42	mg/kg	0.000042 %	✓	
		204-927-3	129-00-0									
29	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
	034-002-00-8											
30	zinc { zinc oxide }				76	mg/kg	1.245	79.463	mg/kg	0.00795 %	✓	
	030-013-00-7	215-222-5	1314-13-2									
31	monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			P1186									
32	vanadium { divanadium pentaoxide; vanadium pentoxide }				30	mg/kg	1.785	44.987	mg/kg	0.0045 %	✓	
	023-001-00-8	215-239-8	1314-62-1									
Total:										0.0304 %		

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
- ND** Not detected
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: HYDTP19-ES--0.20

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

**Sample details**

Sample name:	LoW Code:
<b>HYDTP19-ES--0.20</b>	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)
<b>14%</b> (wet weight correction)	

**Hazard properties**

None identified

**Determinands**

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	17 mg/kg	1.32	19.303 mg/kg	0.00193 %	✓	
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.34 mg/kg		0.292 mg/kg	0.0000292 %	✓	
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.39 mg/kg		0.335 mg/kg	0.0000335 %	✓	
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	0.47 mg/kg		0.404 mg/kg	0.0000404 %	✓	
8	benzo[ghi]perylene	205-883-8	191-24-2		0.31 mg/kg		0.267 mg/kg	0.0000267 %	✓	
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.15 mg/kg		0.129 mg/kg	0.0000129 %	✓	
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.87 mg/kg	2.775	2.077 mg/kg	0.000208 %	✓	
11	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.7 mg/kg	13.43	8.085 mg/kg	0.000808 %	✓	
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		33 mg/kg	1.462	41.479 mg/kg	0.00415 %	✓	
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
15	chrysene	601-048-00-0	205-923-4	218-01-9	0.39 mg/kg		0.335 mg/kg	0.0000335 %	✓	
16	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	43 mg/kg	1.126	41.635 mg/kg	0.00416 %	✓	


#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
18	dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
19	fluoranthene				0.59	mg/kg		0.507	mg/kg	0.0000507 %	✓	
		205-912-4	206-44-0									
20	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7									
21	indeno[123-cd]pyrene				0.25	mg/kg		0.215	mg/kg	0.0000215 %	✓	
		205-893-2	193-39-5									
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	97	mg/kg		83.42	mg/kg	0.00834 %	✓	
	082-001-00-6											
23	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
24	naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
25	nickel { nickel dihydroxide }				17	mg/kg	1.579	23.092	mg/kg	0.00231 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26	pH				7.5	pH		7.5	pH	7.5 pH		
			PH									
27	phenanthrene				0.3	mg/kg		0.258	mg/kg	0.0000258 %	✓	
		201-581-5	85-01-8									
28	pyrene				0.71	mg/kg		0.611	mg/kg	0.0000611 %	✓	
		204-927-3	129-00-0									
29	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
	034-002-00-8											
30	zinc { zinc oxide }				79	mg/kg	1.245	84.566	mg/kg	0.00846 %	✓	
	030-013-00-7	215-222-5	1314-13-2									
31	monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			P1186									
32	vanadium { divanadium pentaoxide; vanadium pentoxide }				29	mg/kg	1.785	44.523	mg/kg	0.00445 %	✓	
	023-001-00-8	215-239-8	1314-62-1									
Total:										0.0359 %		

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
- ND** Not detected
- CLP: Note 1 Only the metal concentration has been used for classification



Classification of sample: HYDTP23-ES--0.40

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

**Sample details**

Sample name:	LoW Code:
<b>HYDTP23-ES--0.40</b>	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)
<b>15%</b> (wet weight correction)	

**Hazard properties**

None identified

**Determinands**

Moisture content: 15% Wet Weight Moisture Correction applied (MC)


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	6.5 mg/kg	1.32	7.295 mg/kg	0.000729 %	✓	
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.4 mg/kg	2.775	0.944 mg/kg	0.0000944 %	✓	
11	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.2 mg/kg	13.43	2.283 mg/kg	0.000228 %	✓	
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		17 mg/kg	1.462	21.119 mg/kg	0.00211 %	✓	
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
15	chrysene	601-048-00-0	205-923-4	218-01-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
16	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	7.5 mg/kg	1.126	7.178 mg/kg	0.000718 %	✓	

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
18	dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
19	fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0									
20	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7									
21	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5									
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	13	mg/kg		11.05	mg/kg	0.00111 %	✓	
	082-001-00-6											
23	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
24	naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
25	nickel { nickel dihydroxide }				12	mg/kg	1.579	16.111	mg/kg	0.00161 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26	pH				7.8	pH		7.8	pH	7.8 pH		
			PH									
27	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8									
28	pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0									
29	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
	034-002-00-8											
30	zinc { zinc oxide }				29	mg/kg	1.245	30.682	mg/kg	0.00307 %	✓	
	030-013-00-7	215-222-5	1314-13-2									
31	monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			P1186									
32	vanadium { divanadium pentaoxide; vanadium pentoxide }				24	mg/kg	1.785	36.418	mg/kg	0.00364 %	✓	
	023-001-00-8	215-239-8	1314-62-1									
Total:										0.0141 %		

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
- ND** Not detected
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: HYDTP16-ES--0.50

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

**Sample details**

Sample name:	LoW Code:
<b>HYDTP16-ES--0.50</b>	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)
<b>15%</b> (wet weight correction)	

**Hazard properties**

None identified

**Determinands**

Moisture content: 15% Wet Weight Moisture Correction applied (MC)


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	8.9 mg/kg	1.32	9.988 mg/kg	0.000999 %	✓	
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.63 mg/kg	2.775	1.486 mg/kg	0.000149 %	✓	
11	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.3 mg/kg	13.43	3.425 mg/kg	0.000342 %	✓	
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		22 mg/kg	1.462	27.331 mg/kg	0.00273 %	✓	
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
15	chrysene	601-048-00-0	205-923-4	218-01-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
16	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	16 mg/kg	1.126	15.312 mg/kg	0.00153 %	✓	

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
18	dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
19	fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0									
20	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7									
21	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5									
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	13	mg/kg		11.05	mg/kg	0.00111 %	✓	
	082-001-00-6											
23	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
24	naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
25	nickel { nickel dihydroxide }				15	mg/kg	1.579	20.139	mg/kg	0.00201 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26	pH				7.7	pH		7.7	pH	7.7 pH		
			PH									
27	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8									
28	pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0									
29	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
	034-002-00-8											
30	zinc { zinc oxide }				33	mg/kg	1.245	34.914	mg/kg	0.00349 %	✓	
	030-013-00-7	215-222-5	1314-13-2									
31	monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			P1186									
32	vanadium { divanadium pentaoxide; vanadium pentoxide }				26	mg/kg	1.785	39.453	mg/kg	0.00395 %	✓	
	023-001-00-8	215-239-8	1314-62-1									
Total:										0.0171 %		

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
- ND** Not detected
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: HYDTP13-ES--0.50

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

**Sample details**

Sample name:	LoW Code:
<b>HYDTP13-ES--0.50</b>	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)
<b>14%</b> (wet weight correction)	

**Hazard properties**

None identified

**Determinands**

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	5.7 mg/kg	1.32	6.472 mg/kg	0.000647 %	✓	
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.59 mg/kg	2.775	1.408 mg/kg	0.000141 %	✓	
11	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		<0.2 mg/kg	13.43	<2.686 mg/kg	<0.000269 %		<LOD
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		20 mg/kg	1.462	25.139 mg/kg	0.00251 %	✓	
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
15	chrysene	601-048-00-0	205-923-4	218-01-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
16	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	18 mg/kg	1.126	17.429 mg/kg	0.00174 %	✓	


#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
18	dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
19	fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0									
20	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7									
21	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5									
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	11	mg/kg		9.46	mg/kg	0.000946 %	✓	
	082-001-00-6											
23	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
24	naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
25	nickel { nickel dihydroxide }				13	mg/kg	1.579	17.659	mg/kg	0.00177 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26	pH				6.3	pH		6.3	pH	6.3 pH		
			PH									
27	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8									
28	pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0									
29	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
	034-002-00-8											
30	zinc { zinc oxide }				27	mg/kg	1.245	28.902	mg/kg	0.00289 %	✓	
	030-013-00-7	215-222-5	1314-13-2									
31	monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			P1186									
32	vanadium { divanadium pentaoxide; vanadium pentoxide }				25	mg/kg	1.785	38.381	mg/kg	0.00384 %	✓	
	023-001-00-8	215-239-8	1314-62-1									
Total:										0.0156 %		

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
- ND** Not detected
- CLP: Note 1 Only the metal concentration has been used for classification



Classification of sample: HYDTP11-ES--0.45

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

**Sample details**

Sample name:	LoW Code:
<b>HYDTP11-ES--0.45</b>	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)
<b>14%</b> (wet weight correction)	

**Hazard properties**

None identified

**Determinands**

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


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	14 mg/kg	1.32	15.897 mg/kg	0.00159 %	✓	
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.7 mg/kg	2.775	1.671 mg/kg	0.000167 %	✓	
11	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.2 mg/kg	13.43	2.31 mg/kg	0.000231 %	✓	
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		17 mg/kg	1.462	21.368 mg/kg	0.00214 %	✓	
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
15	chrysene	601-048-00-0	205-923-4	218-01-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
16	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	26 mg/kg	1.126	25.175 mg/kg	0.00252 %	✓	

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
18	dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
19	fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0									
20	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7									
21	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5									
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	47	mg/kg		40.42	mg/kg	0.00404 %	✓	
	082-001-00-6											
23	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
24	naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
25	nickel { nickel dihydroxide }				16	mg/kg	1.579	21.734	mg/kg	0.00217 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26	pH				7	pH		7	pH	7pH		
			PH									
27	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8									
28	pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0									
29	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
	034-002-00-8											
30	zinc { zinc oxide }				58	mg/kg	1.245	62.086	mg/kg	0.00621 %	✓	
	030-013-00-7	215-222-5	1314-13-2									
31	monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			P1186									
32	vanadium { divanadium pentaoxide; vanadium pentoxide }				27	mg/kg	1.785	41.452	mg/kg	0.00415 %	✓	
	023-001-00-8	215-239-8	1314-62-1									
Total:										0.024 %		

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
- ND** Not detected
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: HYDTP25-ES--0.50

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

Sample details

Sample name:	LoW Code:
<b>HYDTP25-ES--0.50</b>	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)
<b>16%</b> (wet weight correction)	

Hazard properties

None identified

Determinands

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


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	6.4 mg/kg	1.32	7.098 mg/kg	0.00071 %	✓	
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.68 mg/kg	2.775	1.585 mg/kg	0.000159 %	✓	
11	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.3 mg/kg	13.43	3.384 mg/kg	0.000338 %	✓	
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		16 mg/kg	1.462	19.643 mg/kg	0.00196 %	✓	
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
15	chrysene	601-048-00-0	205-923-4	218-01-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
16	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	16 mg/kg	1.126	15.132 mg/kg	0.00151 %	✓	

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
18	dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
19	fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0									
20	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7									
21	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5									
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	24	mg/kg		20.16	mg/kg	0.00202 %	✓	
	082-001-00-6											
23	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
24	naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
25	nickel { nickel dihydroxide }				15	mg/kg	1.579	19.902	mg/kg	0.00199 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26	pH				7.1	pH		7.1	pH	7.1 pH		
			PH									
27	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8									
28	pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0									
29	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
	034-002-00-8											
30	zinc { zinc oxide }				38	mg/kg	1.245	39.731	mg/kg	0.00397 %	✓	
	030-013-00-7	215-222-5	1314-13-2									
31	monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			P1186									
32	vanadium { divanadium pentaoxide; vanadium pentoxide }				21	mg/kg	1.785	31.491	mg/kg	0.00315 %	✓	
	023-001-00-8	215-239-8	1314-62-1									
Total:										0.0166 %		

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
- ND** Not detected
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: HYDTP28-ES--0.40

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

Sample details

Sample name:	LoW Code:
<b>HYDTP28-ES--0.40</b>	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)
<b>17%</b> (wet weight correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	10 mg/kg	1.32	10.959 mg/kg	0.0011 %	✓	
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.61 mg/kg	2.775	1.405 mg/kg	0.000141 %	✓	
11	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.3 mg/kg	13.43	3.344 mg/kg	0.000334 %	✓	
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		18 mg/kg	1.462	21.836 mg/kg	0.00218 %	✓	
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
15	chrysene	601-048-00-0	205-923-4	218-01-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
16	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	17 mg/kg	1.126	15.886 mg/kg	0.00159 %	✓	


#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
18	dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
19	fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0									
20	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7									
21	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5									
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	25	mg/kg		20.75	mg/kg	0.00208 %	✓	
	082-001-00-6											
23	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
24	naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
25	nickel { nickel dihydroxide }				12	mg/kg	1.579	15.732	mg/kg	0.00157 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26	pH				6.6	pH		6.6	pH	6.6 pH		
			PH									
27	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8									
28	pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0									
29	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
	034-002-00-8											
30	zinc { zinc oxide }				37	mg/kg	1.245	38.225	mg/kg	0.00382 %	✓	
	030-013-00-7	215-222-5	1314-13-2									
31	monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			P1186									
32	vanadium { divanadium pentaoxide; vanadium pentoxide }				29	mg/kg	1.785	42.969	mg/kg	0.0043 %	✓	
	023-001-00-8	215-239-8	1314-62-1									
Total:										0.0179 %		

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
- ND** Not detected
- CLP: Note 1 Only the metal concentration has been used for classification



Classification of sample: HYDTT13-ES--0.75

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

**Sample details**

Sample name:	LoW Code:	
<b>HYDTT13-ES--0.75</b>	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)
<b>15%</b> (wet weight correction)		

**Hazard properties**

None identified

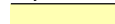



**Determinands**

Moisture content: 15% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	9.7 mg/kg	1.32	10.886 mg/kg	0.00109 %	✓	
5	benzene	601-020-00-8	200-753-7	71-43-2	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
6	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
10	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
11	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.86 mg/kg	2.775	2.029 mg/kg	0.000203 %	✓	
12	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.5 mg/kg	13.43	5.708 mg/kg	0.000571 %	✓	
13	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		17 mg/kg	1.462	21.119 mg/kg	0.00211 %	✓	
15	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
16	chrysene	601-048-00-0	205-923-4	218-01-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
17	copper { dicopper oxide; copper (I) oxide }				35	mg/kg	1.126	33.495	mg/kg	0.00335 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
19	dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
20	ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
21	fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0									
22	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7									
23	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5									
24	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	390	mg/kg		331.5	mg/kg	0.0331 %	✓	
	082-001-00-6											
25	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
26	naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
27	nickel { nickel dihydroxide }				15	mg/kg	1.579	20.139	mg/kg	0.00201 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
28	pH				7.2	pH		7.2	pH	7.2 pH		
			PH									
29	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8									
30	pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0									
31	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
	034-002-00-8											
32	toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
33	TPH (C6 to C40) petroleum group				220	mg/kg		187	mg/kg	0.0187 %	✓	
			TPH									
34	xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<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]									
35	zinc { zinc oxide }				45	mg/kg	1.245	47.61	mg/kg	0.00476 %	✓	
	030-013-00-7	215-222-5	1314-13-2									
36	monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			P1186									
37	vanadium { divanadium pentaoxide; vanadium pentoxide }				26	mg/kg	1.785	39.453	mg/kg	0.00395 %	✓	
	023-001-00-8	215-239-8	1314-62-1									
38	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
Total:										0.0707 %		

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
<b>&lt;LOD</b>	Below limit of detection
<b>ND</b>	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

**Supplementary Hazardous Property Information**

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

Force this Hazardous property to non hazardous because **Sample is not wet and unlikely to be flammable**

Hazard Statements hit:

**Fam. Liq. 3; H226** "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0187%)

Classification of sample: HYDTT11-ES--0.30

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

Sample details

Sample name:	LoW Code:
<b>HYDTT11-ES--0.30</b>	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)
<b>16%</b> (wet weight correction)	

Hazard properties

None identified

Determinands

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


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
		201-469-6	83-32-9								
2	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
		205-917-1	208-96-8								
3	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
		204-371-1	120-12-7								
4	arsenic { arsenic trioxide }				17 mg/kg	1.32	18.854 mg/kg	0.00189 %	✓		
	033-003-00-0	215-481-4	1327-53-3								
5	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
	601-033-00-9	200-280-6	56-55-3								
6	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
	601-032-00-3	200-028-5	50-32-8								
7	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
	601-034-00-4	205-911-9	205-99-2								
8	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
		205-883-8	191-24-2								
9	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
	601-036-00-5	205-916-6	207-08-9								
10	beryllium { beryllium oxide }				0.98 mg/kg	2.775	2.285 mg/kg	0.000228 %	✓		
	004-003-00-8	215-133-1	1304-56-9								
11	boron { boron tribromide/trichloride/trifluoride (combined) }				0.8 mg/kg	13.43	9.025 mg/kg	0.000902 %	✓		
			10294-33-4, 10294-34-5, 7637-07-2								
12	cadmium { cadmium sulfide }			1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD	
	048-010-00-4	215-147-8	1306-23-6								
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				17 mg/kg	1.462	20.871 mg/kg	0.00209 %	✓		
		215-160-9	1308-38-9								
14	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD	
	024-001-00-0	215-607-8	1333-82-0								
15	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
	601-048-00-0	205-923-4	218-01-9								
16	copper { dicopper oxide; copper (I) oxide }				37 mg/kg	1.126	34.993 mg/kg	0.0035 %	✓		
	029-002-00-X	215-270-7	1317-39-1								

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
18	dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
19	fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0									
20	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7									
21	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5									
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	67	mg/kg		56.28	mg/kg	0.00563 %	✓	
	082-001-00-6											
23	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
24	naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
25	nickel { nickel dihydroxide }				17	mg/kg	1.579	22.555	mg/kg	0.00226 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26	pH				7.1	pH		7.1	pH	7.1 pH		
			PH									
27	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8									
28	pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0									
29	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
	034-002-00-8											
30	zinc { zinc oxide }				70	mg/kg	1.245	73.189	mg/kg	0.00732 %	✓	
	030-013-00-7	215-222-5	1314-13-2									
31	monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			P1186									
32	vanadium { divanadium pentaoxide; vanadium pentoxide }				31	mg/kg	1.785	46.486	mg/kg	0.00465 %	✓	
	023-001-00-8	215-239-8	1314-62-1									
Total:										0.0293 %		

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
- ND** Not detected
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: HYDTT10-ES--0.30

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

Sample details

Sample name:	LoW Code:
<b>HYDTT10-ES--0.30</b>	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)
<b>9.9%</b> (wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 9.9% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.002 mg/kg		<0.002 mg/kg	<0.000002 %		<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3							
2	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
3	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
4	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
5	arsenic { arsenic trioxide }				7.5 mg/kg	1.32	8.922 mg/kg	0.000892 %	✓	
		033-003-00-0 215-481-4	1327-53-3							
6	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		601-020-00-8 200-753-7	71-43-2							
7	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		601-033-00-9 200-280-6	56-55-3							
8	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		601-032-00-3 200-028-5	50-32-8							
9	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		601-034-00-4 205-911-9	205-99-2							
10	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
11	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		601-036-00-5 205-916-6	207-08-9							
12	beryllium { beryllium oxide }				0.49 mg/kg	2.775	1.225 mg/kg	0.000123 %	✓	
		004-003-00-8 215-133-1	1304-56-9							
13	boron { boron tribromide/trichloride/trifluoride (combined) }				<0.2 mg/kg	13.43	<2.686 mg/kg	<0.000269 %		<LOD
			10294-33-4, 10294-34-5, 7637-07-2							
14	cadmium { cadmium sulfide }			1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
		048-010-00-4 215-147-8	1306-23-6							
15	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				15 mg/kg	1.462	19.753 mg/kg	0.00198 %	✓	
		215-160-9	1308-38-9							
16	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
		024-001-00-0 215-607-8	1333-82-0							



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
17	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
18	copper { dicopper oxide; copper (I) oxide }				12 mg/kg	1.126	12.173 mg/kg	0.00122 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
	006-007-00-5									
20	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
21	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
22	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
23	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
24	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
25	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	15 mg/kg		13.515 mg/kg	0.00135 %	✓	
	082-001-00-6									
26	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
27	naphthalene				<0.0001 mg/kg		<0.0001 mg/kg	<0.00000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
28	nickel { nickel dihydroxide }				13 mg/kg	1.579	18.501 mg/kg	0.00185 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]							
29	pH				8.1 pH		8.1 pH	8.1 pH		
30	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
31	phenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
32	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
33	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
	034-002-00-8									
34	tetrachloroethylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-028-00-4	204-825-9	127-18-4							
35	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
36	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
37	trichloroethylene; trichloroethene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
38	xylene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<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]							
39	zinc { zinc oxide }				31 mg/kg	1.245	34.766 mg/kg	0.00348 %	✓	
	030-013-00-7	215-222-5	1314-13-2							
40	hexachlorobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
41	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	604-004-00-9	203-577-9 [1] 202-423-8 [2]	108-39-4 [1] 95-48-7 [2]							





#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
		203-398-6 [3] 215-293-2 [4]	106-44-5 [3] 1319-77-3 [4]							
42	●	monohydric phenols			<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
			P1186							
43	●	vanadium { divanadium pentaoxide; vanadium pentoxide }			19 mg/kg	1.785	30.561 mg/kg	0.00306 %	✓	
		023-001-00-8	215-239-8							
			1314-62-1							
44		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1							
			1634-04-4							
45		1,1,1-trichloroethane; methyl chloroform			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3							
			71-55-6							
46		1,1,2,2-tetrachloroethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8							
			79-34-5							
47		1,1,2-trichloroethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9							
			79-00-5							
48		1,1-dichloroethylene; vinylidene chloride			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-025-00-8	200-864-0							
			75-35-4							
49		1,1-dichloropropene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3							
			563-58-6							
50	●	1,2,3-trichlorobenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			201-757-1							
			87-61-6							
51		1,2,4-trimethylbenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		601-043-00-3	202-436-9							
			95-63-6							
52		1,2-dibromoethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5							
			106-93-4							
53		1,2-dichlorobenzene; o-dichlorobenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-034-00-7	202-425-9							
			95-50-1							
54		1,2-dichloropropane; propylene dichloride			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2							
			78-87-5							
55		1,3-dichlorobenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-067-00-7	208-792-1							
			541-73-1							
56	●	1,3-dichloropropane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			205-531-3							
			142-28-9							
57		1,4-dichlorobenzene; p-dichlorobenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-035-00-2	203-400-5							
			106-46-7							
58	●	2,2-dichloropropane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			209-832-0							
			594-20-7							
59	●	bromodichloromethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			200-856-7							
			75-27-4							
60		bromomethane; methylbromide			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-002-00-2	200-813-2							
			74-83-9							
61		bromobenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8							
			108-86-1							
62	●	n-butylbenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			203-209-7							
			104-51-8							
63		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]							
			542-75-6 [1] 10061-01-5 [2]							
64		chlorobenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5							
			108-90-7							
65		carbon tetrachloride; tetrachloromethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8							
			56-23-5							
66		chloroethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-009-00-0	200-830-5							
			75-00-3							
67		chloroform; trichloromethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8							
			67-66-3							
68		chloromethane; methyl chloride			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-001-00-7	200-817-4							
			74-87-3							
69	●	dibromochloromethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			204-704-0							
			124-48-1							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
70	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
71	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-003-00-8	200-824-2	74-95-3							
72	hexachlorobutadiene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		201-765-5	87-68-3							
73	4-isopropyltoluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		202-796-7	99-87-6							
74	sec-butylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		205-227-0	135-98-8							
75	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-026-00-0	202-851-5	100-42-5							
76	trans-1,3-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		431-460-4	10061-02-6							
77	tert-butylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		202-632-4	98-06-6							
78	bromoform; tribromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-007-00-X	200-854-6	75-25-2							
79	1,2,4-trichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
80	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		211-135-1	630-20-6							
81	trichlorofluoromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		200-892-3	75-69-4							
82	mesitylene; 1,3,5-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-025-00-5	203-604-4	108-67-8							
83	vinyl chloride; chloroethylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
84	aniline				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	612-008-00-7	200-539-3	62-53-3							
85	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<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]							
86	bis(2-chloroethyl) ether				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	603-029-00-2	203-870-1	111-44-4							
87	hexachloroethane				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		200-666-4	67-72-1							
88	nitrobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	609-003-00-7	202-716-0	98-95-3							
89	3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	606-012-00-8	201-126-0	78-59-1							
90	2-nitrophenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		201-857-5	88-75-5							
91	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<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]							
92	bis(2-chloroethoxy)methane				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		203-920-2	111-91-1							
93	2,4-dichlorophenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	604-011-00-7	204-429-6	120-83-2							
94	4-chloroaniline				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	612-137-00-9	203-401-0	106-47-8							


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
95	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-014-00-3	200-431-6	59-50-7							
96	2,4,6-trichlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-018-00-5	201-795-9	88-06-2							
97	2,4,5-trichlorophenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-017-00-X	202-467-8	95-95-4							
98	2-methyl naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		202-078-3	91-57-6							
99	2-chloronaphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		202-079-9	91-58-7							
100	dimethyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-011-6	131-11-3							
101	2,6-dinitrotoluene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	609-049-00-8	210-106-0	606-20-2							
102	2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]							
103	dibenzofuran				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		205-071-3	132-64-9							
104	4-chlorophenylphenylether				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		230-281-7	7005-72-3							
105	diethyl phthalate				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		201-550-6	84-66-2							
106	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<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]							
107	azobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	611-001-00-6	203-102-5	103-33-3							
108	4-bromophenylphenylether				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		202-952-4	101-55-3							
109	carbazole				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		201-696-0	86-74-8							
110	dibutyl phthalate; DBP				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	607-318-00-4	201-557-4	84-74-2							
111	anthraquinone				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	606-151-00-4	201-549-0	84-65-1							
112	BBP; benzyl butyl phthalate				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	607-430-00-3	201-622-7	85-68-7							
113	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<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]							
114	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]							
115	cumene; [1] propylbenzene [2]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]							
Total:								0.0167 %		

Key

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	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
<b>&lt;LOD</b>	Below limit of detection
<b>ND</b>	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: HYDTT07-ES--1.00

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

Sample details

Sample name:	LoW Code:
<b>HYDTT07-ES--1.00</b>	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)
<b>14%</b> (wet weight correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
2	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
3	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
4	arsenic { arsenic trioxide }				8.4 mg/kg	1.32	9.538 mg/kg	0.000954 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
5	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
6	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
7	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
8	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
9	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
10	beryllium { beryllium oxide }				0.73 mg/kg	2.775	1.742 mg/kg	0.000174 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
11	boron { boron tribromide/trichloride/trifluoride (combined) }				<0.2 mg/kg	13.43	<2.686 mg/kg	<0.000269 %		<LOD
			10294-33-4, 10294-34-5, 7637-07-2							
12	cadmium { cadmium sulfide }			1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
	048-010-00-4	215-147-8	1306-23-6							
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				18 mg/kg	1.462	22.625 mg/kg	0.00226 %	✓	
		215-160-9	1308-38-9							
14	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
15	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
16	copper { dicopper oxide; copper (I) oxide }				18 mg/kg	1.126	17.429 mg/kg	0.00174 %	✓	
	029-002-00-X	215-270-7	1317-39-1							




#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
18	dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
19	fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0									
20	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7									
21	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5									
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	11	mg/kg		9.46	mg/kg	0.000946 %	✓	
	082-001-00-6											
23	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
24	naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
25	nickel { nickel dihydroxide }				14	mg/kg	1.579	19.017	mg/kg	0.0019 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26	pH				7.1	pH		7.1	pH	7.1 pH		
			PH									
27	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8									
28	pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0									
29	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
	034-002-00-8											
30	zinc { zinc oxide }				33	mg/kg	1.245	35.325	mg/kg	0.00353 %	✓	
	030-013-00-7	215-222-5	1314-13-2									
31	monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			P1186									
32	vanadium { divanadium pentaoxide; vanadium pentoxide }				22	mg/kg	1.785	33.776	mg/kg	0.00338 %	✓	
	023-001-00-8	215-239-8	1314-62-1									
Total:										0.016 %		

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
- ND** Not detected
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: HYDTT14-ES--0.80

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

Sample details

Sample name:	LoW Code:
<b>HYDTT14-ES--0.80</b>	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)
<b>12%</b> (wet weight correction)	

Hazard properties

None identified

Determinands

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


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
2	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
3	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
4	arsenic { arsenic trioxide }				7.9 mg/kg	1.32	9.179 mg/kg	0.000918 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
5	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
6	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
7	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
8	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
9	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
10	beryllium { beryllium oxide }				0.83 mg/kg	2.775	2.027 mg/kg	0.000203 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
11	boron { boron tribromide/trichloride/trifluoride (combined) }				<0.2 mg/kg	13.43	<2.686 mg/kg	<0.000269 %		<LOD
			10294-33-4, 10294-34-5, 7637-07-2							
12	cadmium { cadmium sulfide }			1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
	048-010-00-4	215-147-8	1306-23-6							
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				18 mg/kg	1.462	23.151 mg/kg	0.00232 %	✓	
		215-160-9	1308-38-9							
14	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
15	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
16	copper { dicopper oxide; copper (I) oxide }				17 mg/kg	1.126	16.843 mg/kg	0.00168 %	✓	
	029-002-00-X	215-270-7	1317-39-1							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
18	dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
19	fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0									
20	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7									
21	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5									
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	11	mg/kg		9.68	mg/kg	0.000968 %	✓	
	082-001-00-6											
23	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
24	naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
25	nickel { nickel dihydroxide }				17	mg/kg	1.579	23.629	mg/kg	0.00236 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26	pH				7.7	pH		7.7	pH	7.7 pH		
			PH									
27	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8									
28	pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0									
29	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
	034-002-00-8											
30	zinc { zinc oxide }				36	mg/kg	1.245	39.433	mg/kg	0.00394 %	✓	
	030-013-00-7	215-222-5	1314-13-2									
31	monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			P1186									
32	vanadium { divanadium pentaoxide; vanadium pentoxide }				22	mg/kg	1.785	34.561	mg/kg	0.00346 %	✓	
	023-001-00-8	215-239-8	1314-62-1									
Total:										0.0169 %		

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
- ND** Not detected
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: HYDTT16-ES--1.00

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

Sample details

Sample name:	LoW Code:
<b>HYDTT16-ES--1.00</b>	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)
<b>11%</b> (wet weight correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
2	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
3	anthracene				0.27 mg/kg		0.24 mg/kg	0.000024 %	✓	
		204-371-1	120-12-7							
4	arsenic { arsenic trioxide }				7.5 mg/kg	1.32	8.813 mg/kg	0.000881 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
5	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
6	benzo[a]anthracene				0.72 mg/kg		0.641 mg/kg	0.0000641 %	✓	
	601-033-00-9	200-280-6	56-55-3							
7	benzo[a]pyrene; benzo[def]chrysene				0.71 mg/kg		0.632 mg/kg	0.0000632 %	✓	
	601-032-00-3	200-028-5	50-32-8							
8	benzo[b]fluoranthene				0.75 mg/kg		0.668 mg/kg	0.0000668 %	✓	
	601-034-00-4	205-911-9	205-99-2							
9	benzo[ghi]perylene				0.49 mg/kg		0.436 mg/kg	0.0000436 %	✓	
		205-883-8	191-24-2							
10	benzo[k]fluoranthene				0.34 mg/kg		0.303 mg/kg	0.0000303 %	✓	
	601-036-00-5	205-916-6	207-08-9							
11	beryllium { beryllium oxide }				0.66 mg/kg	2.775	1.63 mg/kg	0.000163 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
12	boron { boron tribromide/trichloride/trifluoride (combined) }				0.4 mg/kg	13.43	4.781 mg/kg	0.000478 %	✓	
			10294-33-4, 10294-34-5, 7637-07-2							
13	cadmium { cadmium sulfide }			1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
	048-010-00-4	215-147-8	1306-23-6							
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				19 mg/kg	1.462	24.715 mg/kg	0.00247 %	✓	
		215-160-9	1308-38-9							
15	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
16	chrysene				0.9 mg/kg		0.801 mg/kg	0.0000801 %	✓	
	601-048-00-0	205-923-4	218-01-9							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
17	copper { dicopper oxide; copper (I) oxide }				19 mg/kg	1.126	19.039 mg/kg	0.0019 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
	006-007-00-5									
19	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
20	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
21	fluoranthene				2 mg/kg		1.78 mg/kg	0.000178 %	✓	
		205-912-4	206-44-0							
22	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
23	indeno[123-cd]pyrene				0.35 mg/kg		0.312 mg/kg	0.0000311 %	✓	
		205-893-2	193-39-5							
24	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	27 mg/kg		24.03 mg/kg	0.0024 %	✓	
	082-001-00-6									
25	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
26	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
27	nickel { nickel dihydroxide }				20 mg/kg	1.579	28.115 mg/kg	0.00281 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]							
28	pH				8.2 pH		8.2 pH	8.2 pH		
			PH							
29	phenanthrene				0.9 mg/kg		0.801 mg/kg	0.0000801 %	✓	
		201-581-5	85-01-8							
30	pyrene				2.2 mg/kg		1.958 mg/kg	0.000196 %	✓	
		204-927-3	129-00-0							
31	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
	034-002-00-8									
32	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
33	TPH (C6 to C40) petroleum group				50 mg/kg		44.5 mg/kg	0.00445 %	✓	
			TPH							
34	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<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]							
35	zinc { zinc oxide }				47 mg/kg	1.245	52.066 mg/kg	0.00521 %	✓	
	030-013-00-7	215-222-5	1314-13-2							
36	monohydric phenols				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
			P1186							
37	vanadium { divanadium pentaoxide; vanadium pentoxide }				22 mg/kg	1.785	34.954 mg/kg	0.0035 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
38	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0259 %		

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
ND Not detected
CLP: Note 1 Only the metal concentration has been used for classification

**Supplementary Hazardous Property Information**

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

Force this Hazardous property to non hazardous because Sample is not wet and unlikely to be flammable

Hazard Statements hit:


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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00445%)



Classification of sample: HYDTT15-ES--0.50

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

**Sample details**

Sample name:	LoW Code:	
<b>HYDTT15-ES--0.50</b>	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)
<b>13%</b> (wet weight correction)		

**Hazard properties**

None identified

**Determinands**

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene	204-371-1	120-12-7		0.35 mg/kg		0.305 mg/kg	0.0000305 %	✓	
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	10 mg/kg	1.32	11.487 mg/kg	0.00115 %	✓	
5	benzene	601-020-00-8	200-753-7	71-43-2	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
6	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	1 mg/kg		0.87 mg/kg	0.000087 %	✓	
7	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.97 mg/kg		0.844 mg/kg	0.0000844 %	✓	
8	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	1.1 mg/kg		0.957 mg/kg	0.0000957 %	✓	
9	benzo[ghi]perylene		205-883-8	191-24-2	0.7 mg/kg		0.609 mg/kg	0.0000609 %	✓	
10	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.42 mg/kg		0.365 mg/kg	0.0000365 %	✓	
11	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.69 mg/kg	2.775	1.666 mg/kg	0.000167 %	✓	
12	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2	0.5 mg/kg	13.43	5.842 mg/kg	0.000584 %	✓	
13	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9	17 mg/kg	1.462	21.616 mg/kg	0.00216 %	✓	
15	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
16	chrysene	601-048-00-0	205-923-4	218-01-9	1.2 mg/kg		1.044 mg/kg	0.000104 %	✓	

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
17	copper { dicopper oxide; copper (I) oxide }				29	mg/kg	1.126	28.406	mg/kg	0.00284 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
19	dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
20	ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
21	fluoranthene				2.4	mg/kg		2.088	mg/kg	0.000209 %	✓	
		205-912-4	206-44-0									
22	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7									
23	indeno[123-cd]pyrene				0.59	mg/kg		0.513	mg/kg	0.0000513 %	✓	
		205-893-2	193-39-5									
24	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	49	mg/kg		42.63	mg/kg	0.00426 %	✓	
	082-001-00-6											
25	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
26	naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
27	nickel { nickel dihydroxide }				17	mg/kg	1.579	23.361	mg/kg	0.00234 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
28	pH				8.1	pH		8.1	pH	8.1 pH		
			PH									
29	phenanthrene				1.2	mg/kg		1.044	mg/kg	0.000104 %	✓	
		201-581-5	85-01-8									
30	pyrene				2.7	mg/kg		2.349	mg/kg	0.000235 %	✓	
		204-927-3	129-00-0									
31	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
	034-002-00-8											
32	toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
33	TPH (C6 to C40) petroleum group				55	mg/kg		47.85	mg/kg	0.00479 %	✓	
			TPH									
34	xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<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]									
35	zinc { zinc oxide }				58	mg/kg	1.245	62.808	mg/kg	0.00628 %	✓	
	030-013-00-7	215-222-5	1314-13-2									
36	monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			P1186									
37	vanadium { divanadium pentaoxide; vanadium pentoxide }				25	mg/kg	1.785	38.828	mg/kg	0.00388 %	✓	
	023-001-00-8	215-239-8	1314-62-1									
38	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
Total:										0.0303 %		

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
<b>&lt;LOD</b>	Below limit of detection
<b>ND</b>	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

**Supplementary Hazardous Property Information**

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

Force this Hazardous property to non hazardous because Sample is not wet and unlikely to be flammable

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00479%)

Classification of sample: HYDTT17---1.00

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

Sample details

Sample name:	LoW Code:
<b>HYDTT17---1.00</b>	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)
<b>15%</b> (wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 15% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.002 mg/kg		<0.002 mg/kg	<0.000002 %		<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3							
2	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
3	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
4	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
5	arsenic { arsenic trioxide }				10 mg/kg	1.32	11.223 mg/kg	0.00112 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
6	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
7	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
8	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
9	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
10	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
11	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
12	beryllium { beryllium oxide }				0.83 mg/kg	2.775	1.958 mg/kg	0.000196 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
13	boron { boron tribromide/trichloride/trifluoride (combined) }				0.5 mg/kg	13.43	5.708 mg/kg	0.000571 %	✓	
			10294-33-4, 10294-34-5, 7637-07-2							
14	cadmium { cadmium sulfide }			1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
	048-010-00-4	215-147-8	1306-23-6							
15	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				26 mg/kg	1.462	32.3 mg/kg	0.00323 %	✓	
		215-160-9	1308-38-9							
16	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
17	chrysene 601-048-00-0 205-923-4 218-01-9				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
18	copper { dicopper oxide; copper (I) oxide } 029-002-00-X 215-270-7 1317-39-1				19 mg/kg	1.126	18.183 mg/kg	0.00182 %	✓	
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	dibenz[a,h]anthracene 601-041-00-2 200-181-8 53-70-3				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
21	ethylbenzene 601-023-00-4 202-849-4 100-41-4				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
22	fluoranthene 205-912-4 206-44-0				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	fluorene 201-695-5 86-73-7				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	indeno[123-cd]pyrene 205-893-2 193-39-5				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	lead { lead compounds with the exception of those specified elsewhere in this Annex } 082-001-00-6			1	24 mg/kg		20.4 mg/kg	0.00204 %	✓	
26	mercury { mercury dichloride } 080-010-00-X 231-299-8 7487-94-7				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
27	naphthalene 601-052-00-2 202-049-5 91-20-3				<0.0001 mg/kg		<0.0001 mg/kg	<0.00000001 %		<LOD
28	nickel { nickel dihydroxide } 028-008-00-X 235-008-5 [1] 12054-48-7 [1] 234-348-1 [2] 11113-74-9 [2]				21 mg/kg	1.579	28.194 mg/kg	0.00282 %	✓	
29	pH PH				7.6 pH		7.6 pH	7.6 pH		
30	phenanthrene 201-581-5 85-01-8				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	phenol 604-001-00-2 203-632-7 108-95-2				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
32	pyrene 204-927-3 129-00-0				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } 034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
34	tetrachloroethylene 602-028-00-4 204-825-9 127-18-4				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
35	toluene 601-021-00-3 203-625-9 108-88-3				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
36	TPH (C6 to C40) petroleum group TPH				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
37	trichloroethylene; trichloroethene 602-027-00-9 201-167-4 79-01-6				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
38	xylene 601-022-00-9 202-422-2 [1] 95-47-6 [1] 203-396-5 [2] 106-42-3 [2] 203-576-3 [3] 108-38-3 [3] 215-535-7 [4] 1330-20-7 [4]				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
39	zinc { zinc oxide } 030-013-00-7 215-222-5 1314-13-2				50 mg/kg	1.245	52.9 mg/kg	0.00529 %	✓	
40	hexachlorobenzene 602-065-00-6 204-273-9 118-74-1				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
41	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4] 604-004-00-9 203-577-9 [1] 108-39-4 [1] 202-423-8 [2] 95-48-7 [2]				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
		203-398-6 [3] 215-293-2 [4]	106-44-5 [3] 1319-77-3 [4]							
42	•	monohydric phenols	P1186		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
43	•	vanadium { divanadium pentaoxide; vanadium pentoxide }			32 mg/kg	1.785	48.557 mg/kg	0.00486 %	✓	
		023-001-00-8	215-239-8							
44		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1							
45		1,1,1-trichloroethane; methyl chloroform			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3							
46		1,1,2,2-tetrachloroethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8							
47		1,1,2-trichloroethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9							
48		1,1-dichloroethylene; vinylidene chloride			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-025-00-8	200-864-0							
49		1,1-dichloropropene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3							
50	•	1,2,3-trichlorobenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			201-757-1							
51		1,2,4-trimethylbenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		601-043-00-3	202-436-9							
52		1,2-dibromoethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5							
53		1,2-dichlorobenzene; o-dichlorobenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-034-00-7	202-425-9							
54		1,2-dichloropropane; propylene dichloride			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2							
55		1,3-dichlorobenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-067-00-7	208-792-1							
56	•	1,3-dichloropropane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			205-531-3							
57		1,4-dichlorobenzene; p-dichlorobenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-035-00-2	203-400-5							
58	•	2,2-dichloropropane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			209-832-0							
59	•	bromodichloromethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			200-856-7							
60		bromomethane; methylbromide			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-002-00-2	200-813-2							
61		bromobenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8							
62	•	n-butylbenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			203-209-7							
63		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]							
64		chlorobenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5							
65		carbon tetrachloride; tetrachloromethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8							
66		chloroethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-009-00-0	200-830-5							
67		chloroform; trichloromethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8							
68		chloromethane; methyl chloride			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-001-00-7	200-817-4							
69	•	dibromochloromethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			204-704-0							







#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
70	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
71	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-003-00-8	200-824-2	74-95-3							
72	hexachlorobutadiene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		201-765-5	87-68-3							
73	4-isopropyltoluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		202-796-7	99-87-6							
74	sec-butylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		205-227-0	135-98-8							
75	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-026-00-0	202-851-5	100-42-5							
76	trans-1,3-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		431-460-4	10061-02-6							
77	tert-butylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		202-632-4	98-06-6							
78	bromoform; tribromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-007-00-X	200-854-6	75-25-2							
79	1,2,4-trichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
80	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		211-135-1	630-20-6							
81	trichlorofluoromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		200-892-3	75-69-4							
82	mesitylene; 1,3,5-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-025-00-5	203-604-4	108-67-8							
83	vinyl chloride; chloroethylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
84	aniline				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	612-008-00-7	200-539-3	62-53-3							
85	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<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]							
86	bis(2-chloroethyl) ether				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	603-029-00-2	203-870-1	111-44-4							
87	hexachloroethane				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		200-666-4	67-72-1							
88	nitrobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	609-003-00-7	202-716-0	98-95-3							
89	3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	606-012-00-8	201-126-0	78-59-1							
90	2-nitrophenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		201-857-5	88-75-5							
91	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<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]							
92	bis(2-chloroethoxy)methane				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		203-920-2	111-91-1							
93	2,4-dichlorophenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	604-011-00-7	204-429-6	120-83-2							
94	4-chloroaniline				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	612-137-00-9	203-401-0	106-47-8							


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
95	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-014-00-3	200-431-6	59-50-7							
96	2,4,6-trichlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-018-00-5	201-795-9	88-06-2							
97	2,4,5-trichlorophenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-017-00-X	202-467-8	95-95-4							
98	2-methyl naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		202-078-3	91-57-6							
99	2-chloronaphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		202-079-9	91-58-7							
100	dimethyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-011-6	131-11-3							
101	2,6-dinitrotoluene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	609-049-00-8	210-106-0	606-20-2							
102	2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]							
103	dibenzofuran				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		205-071-3	132-64-9							
104	4-chlorophenylphenylether				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		230-281-7	7005-72-3							
105	diethyl phthalate				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		201-550-6	84-66-2							
106	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<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]							
107	azobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	611-001-00-6	203-102-5	103-33-3							
108	4-bromophenylphenylether				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		202-952-4	101-55-3							
109	carbazole				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		201-696-0	86-74-8							
110	dibutyl phthalate; DBP				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	607-318-00-4	201-557-4	84-74-2							
111	anthraquinone				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	606-151-00-4	201-549-0	84-65-1							
112	BBP; benzyl butyl phthalate				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	607-430-00-3	201-622-7	85-68-7							
113	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<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]							
114	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]							
115	cumene; [1] propylbenzene [2]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]							
Total:								0.0244 %		

Key

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	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
<b>&lt;LOD</b>	Below limit of detection
<b>ND</b>	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: HYDTT03---0.70

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

**Sample details**

Sample name:	LoW Code:
<b>HYDTT03---0.70</b>	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)
<b>17%</b> (wet weight correction)	

**Hazard properties**

None identified

**Determinands**

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3							
2	acenaphthene				0.26 mg/kg		0.216 mg/kg	0.0000216 %	✓	
		201-469-6	83-32-9							
3	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
4	anthracene				0.33 mg/kg		0.274 mg/kg	0.0000274 %	✓	
		204-371-1	120-12-7							
5	arsenic { arsenic trioxide }				40 mg/kg	1.32	43.835 mg/kg	0.00438 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
6	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
7	benzo[a]anthracene				1.5 mg/kg		1.245 mg/kg	0.000125 %	✓	
	601-033-00-9	200-280-6	56-55-3							
8	benzo[a]pyrene; benzo[def]chrysene				1.5 mg/kg		1.245 mg/kg	0.000125 %	✓	
	601-032-00-3	200-028-5	50-32-8							
9	benzo[b]fluoranthene				1.4 mg/kg		1.162 mg/kg	0.000116 %	✓	
	601-034-00-4	205-911-9	205-99-2							
10	benzo[ghi]perylene				0.75 mg/kg		0.623 mg/kg	0.0000623 %	✓	
		205-883-8	191-24-2							
11	benzo[k]fluoranthene				0.76 mg/kg		0.631 mg/kg	0.0000631 %	✓	
	601-036-00-5	205-916-6	207-08-9							
12	beryllium { beryllium oxide }				0.98 mg/kg	2.775	2.257 mg/kg	0.000226 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
13	boron { boron tribromide/trichloride/trifluoride (combined) }				0.8 mg/kg	13.43	8.918 mg/kg	0.000892 %	✓	
			10294-33-4, 10294-34-5, 7637-07-2							
14	cadmium { cadmium sulfide }			1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
	048-010-00-4	215-147-8	1306-23-6							
15	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				19 mg/kg	1.462	23.049 mg/kg	0.0023 %	✓	
		215-160-9	1308-38-9							
16	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
17	chrysene 601-048-00-0   205-923-4   218-01-9				1.4	mg/kg		1.162	mg/kg	0.000116 %	✓	
18	copper { dicopper oxide; copper (I) oxide } 029-002-00-X   215-270-7   1317-39-1				58	mg/kg	1.126	54.2	mg/kg	0.00542 %	✓	
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
20	dibenz[a,h]anthracene 601-041-00-2   200-181-8   53-70-3				0.2	mg/kg		0.166	mg/kg	0.0000166 %	✓	
21	ethylbenzene 601-023-00-4   202-849-4   100-41-4				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
22	fluoranthene 205-912-4   206-44-0				2.6	mg/kg		2.158	mg/kg	0.000216 %	✓	
23	fluorene 201-695-5   86-73-7				0.23	mg/kg		0.191	mg/kg	0.0000191 %	✓	
24	indeno[123-cd]pyrene 205-893-2   193-39-5				0.6	mg/kg		0.498	mg/kg	0.0000498 %	✓	
25	lead { lead compounds with the exception of those specified elsewhere in this Annex } 082-001-00-6			1	140	mg/kg		116.2	mg/kg	0.0116 %	✓	
26	mercury { mercury dichloride } 080-010-00-X   231-299-8   7487-94-7				1.4	mg/kg	1.353	1.573	mg/kg	0.000157 %	✓	
27	naphthalene 601-052-00-2   202-049-5   91-20-3				<0.0001	mg/kg		<0.0001	mg/kg	<0.00000001 %		<LOD
28	nickel { nickel dihydroxide } 028-008-00-X   235-008-5 [1]   12054-48-7 [1] 234-348-1 [2]   11113-74-9 [2]				23	mg/kg	1.579	30.153	mg/kg	0.00302 %	✓	
29	pH PH				7.8	pH		7.8	pH	7.8 pH		
30	phenanthrene 201-581-5   85-01-8				1.9	mg/kg		1.577	mg/kg	0.000158 %	✓	
31	phenol 604-001-00-2   203-632-7   108-95-2				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
32	pyrene 204-927-3   129-00-0				2.6	mg/kg		2.158	mg/kg	0.000216 %	✓	
33	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } 034-002-00-8				1.2	mg/kg	1.405	1.399	mg/kg	0.00014 %	✓	
34	tetrachloroethylene 602-028-00-4   204-825-9   127-18-4				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
35	toluene 601-021-00-3   203-625-9   108-88-3				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	TPH (C6 to C40) petroleum group TPH				46	mg/kg		38.18	mg/kg	0.00382 %	✓	
37	trichloroethylene; trichloroethene 602-027-00-9   201-167-4   79-01-6				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
38	xylene 601-022-00-9   202-422-2 [1]   95-47-6 [1] 203-396-5 [2]   106-42-3 [2] 203-576-3 [3]   108-38-3 [3] 215-535-7 [4]   1330-20-7 [4]				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
39	zinc { zinc oxide } 030-013-00-7   215-222-5   1314-13-2				93	mg/kg	1.245	96.079	mg/kg	0.00961 %	✓	
40	hexachlorobenzene 602-065-00-6   204-273-9   118-74-1				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
41	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4] 604-004-00-9   203-577-9 [1]   108-39-4 [1] 202-423-8 [2]   95-48-7 [2]				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
		203-398-6 [3] 215-293-2 [4]	106-44-5 [3] 1319-77-3 [4]							
42		monohydric phenols			<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
			P1186							
43		vanadium { divanadium pentaoxide; vanadium pentoxide }			27 mg/kg	1.785	40.006 mg/kg	0.004 %	✓	
		023-001-00-8	215-239-8							
			1314-62-1							
44		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1							
			1634-04-4							
45		1,1,1-trichloroethane; methyl chloroform			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3							
			71-55-6							
46		1,1,2,2-tetrachloroethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8							
			79-34-5							
47		1,1,2-trichloroethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9							
			79-00-5							
48		1,1-dichloroethylene; vinylidene chloride			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-025-00-8	200-864-0							
			75-35-4							
49		1,1-dichloropropene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3							
			563-58-6							
50		1,2,3-trichlorobenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			201-757-1							
			87-61-6							
51		1,2,4-trimethylbenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		601-043-00-3	202-436-9							
			95-63-6							
52		1,2-dibromoethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5							
			106-93-4							
53		1,2-dichlorobenzene; o-dichlorobenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-034-00-7	202-425-9							
			95-50-1							
54		1,2-dichloropropane; propylene dichloride			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2							
			78-87-5							
55		1,3-dichlorobenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-067-00-7	208-792-1							
			541-73-1							
56		1,3-dichloropropane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			205-531-3							
			142-28-9							
57		1,4-dichlorobenzene; p-dichlorobenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-035-00-2	203-400-5							
			106-46-7							
58		2,2-dichloropropane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			209-832-0							
			594-20-7							
59		bromodichloromethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			200-856-7							
			75-27-4							
60		bromomethane; methylbromide			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-002-00-2	200-813-2							
			74-83-9							
61		bromobenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8							
			108-86-1							
62		n-butylbenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			203-209-7							
			104-51-8							
63		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]							
			542-75-6 [1] 10061-01-5 [2]							
64		chlorobenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5							
			108-90-7							
65		carbon tetrachloride; tetrachloromethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8							
			56-23-5							
66		chloroethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-009-00-0	200-830-5							
			75-00-3							
67		chloroform; trichloromethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8							
			67-66-3							
68		chloromethane; methyl chloride			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-001-00-7	200-817-4							
			74-87-3							
69		dibromochloromethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			204-704-0							
			124-48-1							



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
70	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
71	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-003-00-8	200-824-2	74-95-3							
72	hexachlorobutadiene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		201-765-5	87-68-3							
73	4-isopropyltoluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		202-796-7	99-87-6							
74	sec-butylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		205-227-0	135-98-8							
75	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-026-00-0	202-851-5	100-42-5							
76	trans-1,3-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		431-460-4	10061-02-6							
77	tert-butylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		202-632-4	98-06-6							
78	bromoform; tribromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-007-00-X	200-854-6	75-25-2							
79	1,2,4-trichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
80	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		211-135-1	630-20-6							
81	trichlorofluoromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		200-892-3	75-69-4							
82	mesitylene; 1,3,5-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-025-00-5	203-604-4	108-67-8							
83	vinyl chloride; chloroethylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
84	aniline				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	612-008-00-7	200-539-3	62-53-3							
85	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<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]							
86	bis(2-chloroethyl) ether				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	603-029-00-2	203-870-1	111-44-4							
87	hexachloroethane				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		200-666-4	67-72-1							
88	nitrobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	609-003-00-7	202-716-0	98-95-3							
89	3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	606-012-00-8	201-126-0	78-59-1							
90	2-nitrophenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		201-857-5	88-75-5							
91	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<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]							
92	bis(2-chloroethoxy)methane				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		203-920-2	111-91-1							
93	2,4-dichlorophenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	604-011-00-7	204-429-6	120-83-2							
94	4-chloroaniline				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	612-137-00-9	203-401-0	106-47-8							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
95	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-014-00-3	200-431-6	59-50-7							
96	2,4,6-trichlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-018-00-5	201-795-9	88-06-2							
97	2,4,5-trichlorophenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-017-00-X	202-467-8	95-95-4							
98	2-methyl naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		202-078-3	91-57-6							
99	2-chloronaphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		202-079-9	91-58-7							
100	dimethyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-011-6	131-11-3							
101	2,6-dinitrotoluene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	609-049-00-8	210-106-0	606-20-2							
102	2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]							
103	dibenzofuran				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		205-071-3	132-64-9							
104	4-chlorophenylphenylether				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		230-281-7	7005-72-3							
105	diethyl phthalate				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		201-550-6	84-66-2							
106	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<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]							
107	azobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	611-001-00-6	203-102-5	103-33-3							
108	4-bromophenylphenylether				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		202-952-4	101-55-3							
109	carbazole				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		201-696-0	86-74-8							
110	dibutyl phthalate; DBP				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	607-318-00-4	201-557-4	84-74-2							
111	anthraquinone				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	606-151-00-4	201-549-0	84-65-1							
112	BBP; benzyl butyl phthalate				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	607-430-00-3	201-622-7	85-68-7							
113	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<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]							
114	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]							
115	cumene; [1] propylbenzene [2]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]							
Total:								0.0481 %		

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
<b>&lt;LOD</b>	Below limit of detection
<b>ND</b>	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

**Supplementary Hazardous Property Information**

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

Force this Hazardous property to non hazardous because Sample is not wet and unlikely to be flammable


Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00382%)

Classification of sample: HYDTT03---4.80

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

Sample details

Sample name:	LoW Code:
<b>HYDTT03---4.80</b>	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)
<b>26%</b> (wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 26% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.002 mg/kg		<0.002 mg/kg	<0.000002 %		<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3							
2	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
3	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
4	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
5	arsenic { arsenic trioxide }				8.8 mg/kg	1.32	8.598 mg/kg	0.00086 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
6	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
7	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
8	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
9	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
10	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
11	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
12	beryllium { beryllium oxide }				0.77 mg/kg	2.775	1.581 mg/kg	0.000158 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
13	boron { boron tribromide/trichloride/trifluoride (combined) }				0.6 mg/kg	13.43	5.963 mg/kg	0.000596 %	✓	
			10294-33-4, 10294-34-5, 7637-07-2							
14	cadmium { cadmium sulfide }			1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
	048-010-00-4	215-147-8	1306-23-6							
15	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				18 mg/kg	1.462	19.468 mg/kg	0.00195 %	✓	
		215-160-9	1308-38-9							
16	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
17	chrysene 601-048-00-0   205-923-4   218-01-9				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
18	copper { dicopper oxide; copper (I) oxide } 029-002-00-X   215-270-7   1317-39-1				25 mg/kg	1.126	20.829 mg/kg	0.00208 %	✓		
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
20	dibenz[a,h]anthracene 601-041-00-2   200-181-8   53-70-3				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
21	ethylbenzene 601-023-00-4   202-849-4   100-41-4				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
22	fluoranthene 205-912-4   206-44-0				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
23	fluorene 201-695-5   86-73-7				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
24	indeno[123-cd]pyrene 205-893-2   193-39-5				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
25	lead { lead compounds with the exception of those specified elsewhere in this Annex } 082-001-00-6			1	31 mg/kg		22.94 mg/kg	0.00229 %	✓		
26	mercury { mercury dichloride } 080-010-00-X   231-299-8   7487-94-7				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %			<LOD
27	naphthalene 601-052-00-2   202-049-5   91-20-3				<0.0001 mg/kg		<0.0001 mg/kg	<0.00000001 %			<LOD
28	nickel { nickel dihydroxide } 028-008-00-X   235-008-5 [1]   12054-48-7 [1] 234-348-1 [2]   11113-74-9 [2]				18 mg/kg	1.579	21.039 mg/kg	0.0021 %	✓		
29	pH PH				6.5 pH		6.5 pH	6.5 pH			
30	phenanthrene 201-581-5   85-01-8				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
31	phenol 604-001-00-2   203-632-7   108-95-2				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
32	pyrene 204-927-3   129-00-0				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
33	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } 034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
34	tetrachloroethylene 602-028-00-4   204-825-9   127-18-4				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
35	toluene 601-021-00-3   203-625-9   108-88-3				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
36	TPH (C6 to C40) petroleum group TPH				<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
37	trichloroethylene; trichloroethene 602-027-00-9   201-167-4   79-01-6				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
38	xylene 601-022-00-9   202-422-2 [1]   95-47-6 [1] 203-396-5 [2]   106-42-3 [2] 203-576-3 [3]   108-38-3 [3] 215-535-7 [4]   1330-20-7 [4]				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %			<LOD
39	zinc { zinc oxide } 030-013-00-7   215-222-5   1314-13-2				60 mg/kg	1.245	55.265 mg/kg	0.00553 %	✓		
40	hexachlorobenzene 602-065-00-6   204-273-9   118-74-1				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
41	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4] 604-004-00-9   203-577-9 [1]   108-39-4 [1] 202-423-8 [2]   95-48-7 [2]				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %			<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
		203-398-6 [3] 215-293-2 [4]	106-44-5 [3] 1319-77-3 [4]							
42		monohydric phenols			<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
		P1186								
43		vanadium { divanadium pentaoxide; vanadium pentoxide }			21 mg/kg	1.785	27.742 mg/kg	0.00277 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
44		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
45		1,1,1-trichloroethane; methyl chloroform			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
46		1,1,2,2-tetrachloroethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
47		1,1,2-trichloroethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
48		1,1-dichloroethylene; vinylidene chloride			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-025-00-8	200-864-0	75-35-4							
49		1,1-dichloropropene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
50		1,2,3-trichlorobenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		201-757-1	87-61-6							
51		1,2,4-trimethylbenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
52		1,2-dibromoethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
53		1,2-dichlorobenzene; o-dichlorobenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
54		1,2-dichloropropane; propylene dichloride			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
55		1,3-dichlorobenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-067-00-7	208-792-1	541-73-1							
56		1,3-dichloropropane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		205-531-3	142-28-9							
57		1,4-dichlorobenzene; p-dichlorobenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
58		2,2-dichloropropane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		209-832-0	594-20-7							
59		bromodichloromethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		200-856-7	75-27-4							
60		bromomethane; methylbromide			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-002-00-2	200-813-2	74-83-9							
61		bromobenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-060-00-9	203-623-8	108-86-1							
62		n-butylbenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		203-209-7	104-51-8							
63		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]							
64		chlorobenzene			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-033-00-1	203-628-5	108-90-7							
65		carbon tetrachloride; tetrachloromethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
66		chloroethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-009-00-0	200-830-5	75-00-3							
67		chloroform; trichloromethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-006-00-4	200-663-8	67-66-3							
68		chloromethane; methyl chloride			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-001-00-7	200-817-4	74-87-3							
69		dibromochloromethane			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		204-704-0	124-48-1							







#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
70	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
71	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-003-00-8	200-824-2	74-95-3							
72	hexachlorobutadiene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		201-765-5	87-68-3							
73	4-isopropyltoluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		202-796-7	99-87-6							
74	sec-butylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		205-227-0	135-98-8							
75	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-026-00-0	202-851-5	100-42-5							
76	trans-1,3-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		431-460-4	10061-02-6							
77	tert-butylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		202-632-4	98-06-6							
78	bromoform; tribromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-007-00-X	200-854-6	75-25-2							
79	1,2,4-trichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
80	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		211-135-1	630-20-6							
81	trichlorofluoromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		200-892-3	75-69-4							
82	mesitylene; 1,3,5-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-025-00-5	203-604-4	108-67-8							
83	vinyl chloride; chloroethylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
84	aniline				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	612-008-00-7	200-539-3	62-53-3							
85	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<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]							
86	bis(2-chloroethyl) ether				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	603-029-00-2	203-870-1	111-44-4							
87	hexachloroethane				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		200-666-4	67-72-1							
88	nitrobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	609-003-00-7	202-716-0	98-95-3							
89	3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	606-012-00-8	201-126-0	78-59-1							
90	2-nitrophenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		201-857-5	88-75-5							
91	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<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]							
92	bis(2-chloroethoxy)methane				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		203-920-2	111-91-1							
93	2,4-dichlorophenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	604-011-00-7	204-429-6	120-83-2							
94	4-chloroaniline				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	612-137-00-9	203-401-0	106-47-8							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
95	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-014-00-3	200-431-6	59-50-7							
96	2,4,6-trichlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-018-00-5	201-795-9	88-06-2							
97	2,4,5-trichlorophenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-017-00-X	202-467-8	95-95-4							
98	2-methyl naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		202-078-3	91-57-6							
99	2-chloronaphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		202-079-9	91-58-7							
100	dimethyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-011-6	131-11-3							
101	2,6-dinitrotoluene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	609-049-00-8	210-106-0	606-20-2							
102	2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]							
103	dibenzofuran				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		205-071-3	132-64-9							
104	4-chlorophenylphenylether				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		230-281-7	7005-72-3							
105	diethyl phthalate				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		201-550-6	84-66-2							
106	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<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]							
107	azobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	611-001-00-6	203-102-5	103-33-3							
108	4-bromophenylphenylether				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		202-952-4	101-55-3							
109	carbazole				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		201-696-0	86-74-8							
110	dibutyl phthalate; DBP				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	607-318-00-4	201-557-4	84-74-2							
111	anthraquinone				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	606-151-00-4	201-549-0	84-65-1							
112	BBP; benzyl butyl phthalate				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	607-430-00-3	201-622-7	85-68-7							
113	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<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]							
114	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]							
115	cumene; [1] propylbenzene [2]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]							
Total:								0.0208 %		

Key

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	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
<b>&lt;LOD</b>	Below limit of detection
<b>ND</b>	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: HYDTT01---0.30

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

Sample details

Sample name:	LoW Code:
<b>HYDTT01---0.30</b>	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)
<b>19%</b> (wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 19% Wet Weight Moisture Correction applied (MC)


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	20 mg/kg	1.32	21.389 mg/kg	0.00214 %	✓	
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.3 mg/kg		0.243 mg/kg	0.0000243 %	✓	
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.29 mg/kg		0.235 mg/kg	0.0000235 %	✓	
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	0.31 mg/kg		0.251 mg/kg	0.0000251 %	✓	
8	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.2 mg/kg		0.162 mg/kg	0.0000162 %	✓	
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	1 mg/kg	2.775	2.248 mg/kg	0.000225 %	✓	
11	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.7 mg/kg	13.43	7.615 mg/kg	0.000761 %	✓	
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		19 mg/kg	1.462	22.493 mg/kg	0.00225 %	✓	
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
15	chrysene	601-048-00-0	205-923-4	218-01-9	0.34 mg/kg		0.275 mg/kg	0.0000275 %	✓	
16	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	49 mg/kg	1.126	44.687 mg/kg	0.00447 %	✓	

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
18	dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
19	fluoranthene				0.59	mg/kg		0.478	mg/kg	0.0000478 %	✓	
		205-912-4	206-44-0									
20	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7									
21	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5									
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	93	mg/kg		75.33	mg/kg	0.00753 %	✓	
	082-001-00-6											
23	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
24	naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
25	nickel { nickel dihydroxide }				21	mg/kg	1.579	26.867	mg/kg	0.00269 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26	pH				7.7	pH		7.7	pH	7.7 pH		
			PH									
27	phenanthrene				0.4	mg/kg		0.324	mg/kg	0.0000324 %	✓	
		201-581-5	85-01-8									
28	pyrene				0.55	mg/kg		0.446	mg/kg	0.0000446 %	✓	
		204-927-3	129-00-0									
29	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
	034-002-00-8											
30	zinc { zinc oxide }				110	mg/kg	1.245	110.904	mg/kg	0.0111 %	✓	
	030-013-00-7	215-222-5	1314-13-2									
31	monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			P1186									
32	vanadium { divanadium pentaoxide; vanadium pentoxide }				34	mg/kg	1.785	49.164	mg/kg	0.00492 %	✓	
	023-001-00-8	215-239-8	1314-62-1									
Total:										0.0371 %		

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
- ND** Not detected
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: HYDTT05---1.20

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

Sample details

Sample name:	LoW Code:
<b>HYDTT05---1.20</b>	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)
<b>28%</b> (wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 28% Wet Weight Moisture Correction applied (MC)





#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
2	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
3	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
4	arsenic { arsenic trioxide }				29 mg/kg	1.32	27.568 mg/kg	0.00276 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
5	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
6	benzo[a]anthracene				0.22 mg/kg		0.158 mg/kg	0.0000158 %	✓	
	601-033-00-9	200-280-6	56-55-3							
7	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
8	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
9	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
10	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
11	beryllium { beryllium oxide }				1.2 mg/kg	2.775	2.398 mg/kg	0.00024 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
12	boron { boron tribromide/trichloride/trifluoride (combined) }				0.9 mg/kg	13.43	8.703 mg/kg	0.00087 %	✓	
			10294-33-4, 10294-34-5, 7637-07-2							
13	cadmium { cadmium sulfide }			1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
	048-010-00-4	215-147-8	1306-23-6							
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				15 mg/kg	1.462	15.785 mg/kg	0.00158 %	✓	
		215-160-9	1308-38-9							
15	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
16	chrysene				0.19 mg/kg		0.137 mg/kg	0.0000137 %	✓	
	601-048-00-0	205-923-4	218-01-9							




#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
17	copper { dicopper oxide; copper (I) oxide }				64	mg/kg	1.126	51.881	mg/kg	0.00519 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
19	dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
20	ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
21	fluoranthene				0.24	mg/kg		0.173	mg/kg	0.0000173 %	✓	
		205-912-4	206-44-0									
22	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7									
23	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5									
24	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	160	mg/kg		115.2	mg/kg	0.0115 %	✓	
	082-001-00-6											
25	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
26	naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
27	nickel { nickel dihydroxide }				24	mg/kg	1.579	27.294	mg/kg	0.00273 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
28	pH				7.2	pH		7.2	pH	7.2 pH		
			PH									
29	phenanthrene				0.42	mg/kg		0.302	mg/kg	0.0000302 %	✓	
		201-581-5	85-01-8									
30	pyrene				0.25	mg/kg		0.18	mg/kg	0.000018 %	✓	
		204-927-3	129-00-0									
31	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
	034-002-00-8											
32	toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
33	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
			TPH									
34	xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<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]									
35	zinc { zinc oxide }				80	mg/kg	1.245	71.696	mg/kg	0.00717 %	✓	
	030-013-00-7	215-222-5	1314-13-2									
36	monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			P1186									
37	vanadium { divanadium pentaoxide; vanadium pentoxide }				48	mg/kg	1.785	61.696	mg/kg	0.00617 %	✓	
	023-001-00-8	215-239-8	1314-62-1									
38	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
Total:										0.0401 %		

Key

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	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
<b>&lt;LOD</b>	Below limit of detection
<b>ND</b>	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: HYDTP04---0.40

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

Sample details

Sample name:	LoW Code:
<b>HYDTP04---0.40</b>	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)
<b>17%</b> (wet weight correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	12 mg/kg	1.32	13.15 mg/kg	0.00132 %	✓	
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.72 mg/kg	2.775	1.659 mg/kg	0.000166 %	✓	
11	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.5 mg/kg	13.43	5.573 mg/kg	0.000557 %	✓	
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		16 mg/kg	1.462	19.409 mg/kg	0.00194 %	✓	
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
15	chrysene	601-048-00-0	205-923-4	218-01-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
16	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	25 mg/kg	1.126	23.362 mg/kg	0.00234 %	✓	

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
18	dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
19	fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0									
20	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7									
21	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5									
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	45	mg/kg		37.35	mg/kg	0.00374 %	✓	
	082-001-00-6											
23	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
24	naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
25	nickel { nickel dihydroxide }				14	mg/kg	1.579	18.354	mg/kg	0.00184 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26	pH				7.6	pH		7.6	pH	7.6 pH		
			PH									
27	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8									
28	pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0									
29	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
	034-002-00-8											
30	zinc { zinc oxide }				51	mg/kg	1.245	52.689	mg/kg	0.00527 %	✓	
	030-013-00-7	215-222-5	1314-13-2									
31	monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			P1186									
32	vanadium { divanadium pentaoxide; vanadium pentoxide }				25	mg/kg	1.785	37.043	mg/kg	0.0037 %	✓	
	023-001-00-8	215-239-8	1314-62-1									
Total:										0.0217 %		

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
- ND** Not detected
- CLP: Note 1 Only the metal concentration has been used for classification