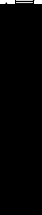


NX Consulting

ROTARY CORE BOREHOLE LOG

Project No 1, City Road East				DRILLHOLE No RBH01	
Job No NX406	Date 11-07-23	Ground Level (m)	Co-Ordinates ()		
Contractor Taylor Drilling Services				Sheet 1 of 2	

RUN DETAILS						STRATA			Geology	Instrument/ Backfill	
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION					
						Discontinuities	Detail	Main			
7.50					0.07			<p>MADE GROUND: Brick paving.</p> <p>MADE GROUND: Uncompact brown fine to coarse slightly silty sand (Binder).</p> <p>MADE GROUND: Compact grey ashy sandy gravel. Gravel is fine to coarse, angular to subrounded of limestone and other mixed lithology (Subbase).</p> <p>MADE GROUND: Uncompact medium brown fine to coarse slightly clayey sand with rare gravel and pockets of clay. Gravel is fine to coarse, angular to subrounded of mudstone, sandstone and other mixed lithology.</p> <p>MADE GROUND: Soft to firm, brown slightly silty sandy clay with rare gravel. Gravel is fine to coarse, angular to subrounded of mudstone and other mixed lithology.</p> <p>MADE GROUND: Loose black ashy sandy gravel. Gravel is fine to coarse, angular to subrounded of tarmacadam, ash, clinker and other mixed lithology.</p> <p>MADE GROUND: Soft to firm dark brown/black silty clay with rare gravel. Gravel is fine to coarse, angular to subrounded of brick, concrete, sandstone, limestone and other mixed lithology.</p> <p>Loose grey fine to coarse organic slightly clayey SAND.</p> <p>Red/brown SAND AND GRAVEL (Drillers Description).</p> <p>Weak to medium strong reddish brown fine to coarse grained SANDSTONE with rare mineral inclusions and intraclasts. Subhorizontal bedding fractures, thinly spaced, planar, smooth to slightly rough.</p>			
					0.15						
					0.50						
					(1.30)						
					1.80						
					2.10						
					2.20						
					(2.70)						
					4.90						
					5.30						
7.50					5.30 ...strata becoming brown/red in SPT sample.						
					6.00 ...SPT refusal, borehole continued as open holed.						
					7.50						
					7.50						
8.50	98 (90) 62	2				7.50 - 22.50 ...borehole continued as a Cored Drillhole.					
9.50	85 (75) 38	3									
10.50	80 (35) 24	1									
11.50	0 (0) 0										
						10.50 - 11.50 ...no recovery.					

Drilling Progress and Water Observations							Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing	Core Dia mm	Strike	Water Standing	From	To	Type	Returns	
											No visual or olfactory evidence of hydrocarbon or solvent contamination. Groundwater strike observed at 4.5mbgl during drilling. Frequent drilling induced fractures due to poor cementation.
All dimensions in metres Scale 1:71.875			Client	Marshall's CDP		Method/ Plant Used	BERETTA			Logged By MT	

NX Consulting

ROTARY CORE BOREHOLE LOG

Project No 1, City Road East				DRILLHOLE No RBH01	
Job No NX406	Date 11-07-23	Ground Level (m)	Co-Ordinates ()		
Contractor Taylor Drilling Services				Sheet 2 of 2	

RUN DETAILS						STRATA		Geology	Instrument/ Backfill
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail		
12.50	90 (65) 0							Weak to medium strong reddish brown fine to coarse grained SANDSTONE with rare mineral inclusions and intraclasts. Subhorizontal bedding fractures, thinly spaced, planar, smooth to slightly rough. <i>(continued)</i>	
13.50	85 (60) 45	1							
14.50	95 (90) 27					13.50 - 13.60 ...band of marl.			
15.50	98 (90) 42	1			(15.00)				
16.50	95 (91) 54	2							
17.50	80 (35) 0	1							
18.50	98 (90) 90	2							
19.50	100 (95) 65	3							
20.50	75 (70) 65	2							
21.50	80 (60) 55	2							
22.50	85 (82) 34	2			22.50				
							...borehole ended at 22.50mbgl.		

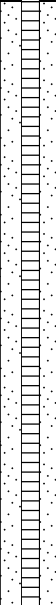
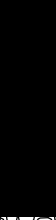
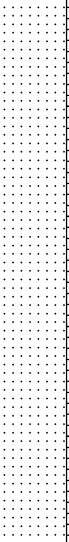
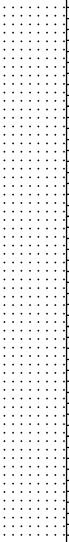
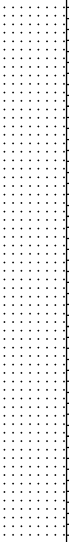
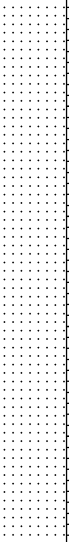
Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing	Core Dia mm	Strike	Water Standing		From	To	Type	Returns	
												No visual or olfactory evidence of hydrocarbon or solvent contamination. Groundwater strike observed at 4.5mbgl during drilling. Frequent drilling induced fractures due to poor cementation.
All dimensions in metres Scale 1:71.875			Client Marshall's CDP				Method/ Plant Used	BERETTA			Logged By MT	

AGS UK DH.1 NX406 NO1 CITY ROAD EAST GPJ AGS 3 1.GDT 7/9/23

NX Consulting

ROTARY CORE BOREHOLE LOG

Project No 1, City Road East				DRILLHOLE No RBH02	
Job No NX406	Date 11-07-23	Ground Level (m)	Co-Ordinates ()		
Contractor Taylor Drilling Services				Sheet 1 of 2	

RUN DETAILS						STRATA			Geology	Instrument/ Backfill
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION				
						Discontinuities	Detail	Main		
6.00					0.07 0.10 0.40 0.50	1.50 - 3.00 ...poor recovery.		MADE GROUND: Brick paving.		
					MADE GROUND: Uncompact brown fine to coarse slightly silty sand (Binder).					
					MADE GROUND: Compact grey ashy sandy gravel. Gravel is fine to coarse, angular to subrounded of limestone and other mixed lithology (Subbase).					
					MADE GROUND: Uncompact black ashy fine to coarse slightly sandy angular gravel of tarmacadam.					
					MADE GROUND: Uncompact medium brown fine to coarse slightly clayey sand with rare gravel and pockets of clay. Gravel is fine to coarse, angular to subrounded of brick, sandstone, mudstone and other mixed lithology.					
7.00	0 (0) 0				(1.50) 4.50	4.50 - 6.00 ...poor recovery.		Firm brown slightly sandy CLAY with rare gravel. Gravel is fine to coarse, angular to subrounded of mudstone, sandstone and other mixed lithology.		
					Red/brown SAND AND GRAVEL (Drillers Description).					
8.00	85 (55) 11					7.00 - 9.00 ...irregular marl bands. 7.00 - 10.00 ...poorly cemented rock.		Weak to medium strong reddish brown fine to coarse grained SANDSTONE with rare mineral inclusions and intraclasts. Subhorizontal bedding fractures, thinly spaced, planar, smooth to slightly rough.		
9.00	95 (85) 34					9.00 - 10.00 ...no recovery.				
10.00	0 (0) 0									
11.00	100 (95) 52									

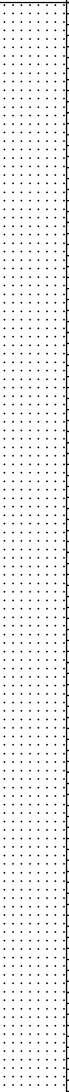
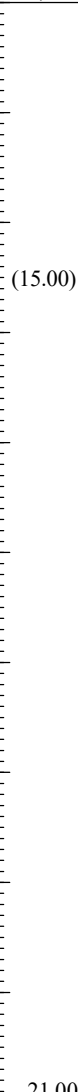
Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing	Core Dia mm	Strike	Water Standing		From	To	Type	Returns	
												No visual or olfactory evidence of hydrocarbon or solvent contamination. Groundwater not observed during drilling. Frequent drilling induced fractures due to poor cementation.
All dimensions in metres Scale 1:68.75			Client	Marshall's CDP			Method/ Plant Used	BERETTA			Logged By MT	

AGS UK DH.1 NX406 NO1 CITY ROAD EAST GPJ AGS 3 1.GDT 7/9/23

NX Consulting

ROTARY CORE BOREHOLE LOG

Project No 1, City Road East				DRILLHOLE No RBH02	
Job No NX406	Date 11-07-23	Ground Level (m)	Co-Ordinates ()		
Contractor Taylor Drilling Services				Sheet 2 of 2	

RUN DETAILS						STRATA			Geology	Instrument/ Backfill
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION				
						Discontinuities	Detail	Main		
12.00	90 (75) 15				 (15.00)	12.10 ...cobble of sandstone.		Weak to medium strong reddish brown fine to coarse grained SANDSTONE with rare mineral inclusions and intraclasts. Subhorizontal bedding fractures, thinly spaced, planar, smooth to slightly rough. <i>(continued)</i>		
13.00	90 (80) 33									
14.00	85 (50) 15									
15.00	100 (95) 72									
16.00	50 (50) 20									
17.00	100 (98) 91									
18.00	0 (0) 0									
19.00	95 (88) 67									
20.00	100 (75) 35									
21.00	100 (85) 47									
					21.00			...borehole ended at 21.00mbgl.		

Drilling Progress and Water Observations							Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing	Core Dia mm	Strike	Water Standing	From	To	Type	Returns	
											No visual or olfactory evidence of hydrocarbon or solvent contamination. Groundwater not observed during drilling. Frequent drilling induced fractures due to poor cementation.
All dimensions in metres Scale 1:68.75			Client Marshall's CDP			Method/ Plant Used BERETTA			Logged By MT		

AGS UK DH.1 NX406 NO1 CITY ROAD EAST GPJ AGS 3_1.GDT 7/9/23

Project No 1, City Road East				BOREHOLE No BH01	
Job No NX406	Date 25-07-23	Ground Level (m)	Co-Ordinates ()		
Contractor Taylor Drilling Services				Sheet	1 of 1

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
	S D B	N2			0.05	MADE GROUND: Paving Flags			
				(0.95)	MADE GROUND: Compact grey ashy sandy gravel. Gravel is fine to coarse, angular to subrounded of limestone with rare ash and brick (Sub base).				
1.20				1.00					
1.20	C B	N10			(0.90)	MADE GROUND: Medium dense brown very clayey fine to coarse silty sand with some fine to coarse angular to sub rounded gravel of mixed lithology, sandstone. Some rare brick, ash and clinker.			
2.00				1.90					
2.00				(1.70)	MADE GROUND: Soft to firm locally firm to stiff brown silty very sandy clay with some fine to coarse angular to sub angular gravel of brick, concrete, ash, clinker. Rare timber.				
3.00	C B	N11			3.60				
3.00									
3.60									
4.00	S D B	N21		x x x	(0.75)	ALLUVIUM: Grey brown slightly organic clayey SILT with some fine to medium sand partings.			
4.00				x x x	4.35				
5.00	S D B	N15		x x x	(2.15)	ALLUVIUM: Grey brown slightly organic fine to medium silty clayey SAND with some fine to medium silt bands.			
5.00				x x x					
				x x x					
6.00	S D B	N14		x x x	6.50				
6.00				x x x					
				x x x					
6.80	S D	N50/ 40mm			6.80	HIGHLY WEATHERED SANDSTONE: Recovered as red brown fine to coarse gravelly sand. Gravel is fine to coarse angular of sandstone.			
6.80				7.00	WEATHERED SANDSTONE: Recovered as red brown fine to coarse sandy gravel.				
7.00					Borehole ended after 30mins chisselling between 6.50m and 7.00m bgl.				
7.00	S D	N50/ 40mm							

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No visual or olfactory evidence of hydrocarbon or solvent contamination.
All dimensions in metres Scale 1:62.5			Client Marshall's CDP			Method/ Plant Used Dando CP			Logged By MN		

AGS3 UK BH NX406 NO1 CITY ROAD EAST.GPJ AGS 3.1.GDT 7/9/23

Project No 1, City Road East				BOREHOLE No BH02	
Job No NX406	Date 25-07-23	Ground Level (m)	Co-Ordinates ()		
Contractor Taylor Drilling Services				Sheet	1 of 1

SAMPLES & TESTS			Water	STRATA			Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)		
						0.10	MADE GROUND: Compact black ashy fine to coarse slightly sandy angular gravel of tarmacadam.	
						0.20	MADE GROUND: Compact grey ashy sandy gravel. Gravel is fine to coarse, angular to subrounded of limestone with rare ash and brick (Sub base).	
1.20	S B D	1				(2.90)	MADE GROUND: Medium dense brown very clayey fine to coarse silty sand with some fine to coarse angular to sub rounded gravel of mixed lithology, sandstone brick, ash, coal, concrete and clinker.	
2.00	S B D	2						
3.00	S D	50				3.10		
3.25	S D						Very stiff brown CLAY with rare gravel. Gravel is fine to coarse, subrounded to angular of mudstone, sandstone and other mixed lithology.	
4.00	S D B	43				(2.60)		
5.00	S D B	43						
						5.70		
5.80	S D	50				5.80	HIGHLY WEATHERED SANDSTONE: Recovered as red brown fine to coarse gravelly sand. Gravel is fine to coarse angular of sandstone.	
6.00	S D	50				6.00	WEATHERED SANDSTONE: Recovered as red brown fine to coarse sandy gravel.	
							Borehole ended after 30mins chisselling between 5.7m and 6.00m bgl.	

Boring Progress and Water Observations						Chisselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No visual or olfactory evidence of hydrocarbon or solvent contamination.
All dimensions in metres Scale 1:62.5			Client Marshalls CDP			Method/ Plant Used Dando CP			Logged By MN		

Project No 1, City Road East				BOREHOLE No BH03	
Job No NX406	Date 26-07-23	Ground Level (m)	Co-Ordinates ()		
Contractor Taylor Drilling Services				Sheet 1 of 1	

SAMPLES & TESTS			STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
						0.10	MADE GROUND: Compact black ashy fine to coarse slightly sandy angular gravel of tarmacadam.		
						(1.00)	MADE GROUND: Compact grey ashy sandy gravel. Gravel is fine to coarse, angular to subrounded of limestone with rare ash and brick (Sub base).		
1.20	C B D	N15				1.10			
1.20									
2.00	C B D	N14				(1.70)	MADE GROUND: Uncompact black/brown ashy sandy gravel/gravelly sand. Gravel is fine to coarse, angular to subrounded of brick, concrete, limestone, slate and other mixed lithology. Frequent cobbles of brick.		
2.00									
2.80	D					2.80			
3.00	S D B	N27					Firm becoming stiff to very stiff brown CLAY with rare gravel. Gravel is fine to coarse, subrounded to angular of mudstone, sandstone and other mixed lithology.		
3.00									
4.00	S D B	N28				(2.80)			
4.00									
5.00	S D B	N31							
5.00									
5.60	D					5.60			
5.60	S D					5.80	HIGHLY WEATHERED SANDSTONE: Recovered as red brown fine to coarse gravelly sand. Gravel is fine to coarse angular of sandstone.		
5.80						6.00			
5.80	S D	N50/ 115mm					WEATHERED SANDSTONE: Recovered as red brown fine to coarse sandy gravel.		
6.00							Borehole ended after 60mins chisselling between 5.6m and 6.14m bgl.		
6.00	S D	N50/ 47mm							

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No visual or olfactory evidence of hydrocarbon or solvent contamination.
All dimensions in metres Scale 1:62.5			Client Marshall's CDP			Method/ Plant Used Dando CP			Logged By MN		

AGS3 UK BH NX406 NO1 CITY ROAD EAST.GPJ AGS 3.1.GDT 7/9/23

Project No 1, City Road East				BOREHOLE No BH04	
Job No NX406	Date 26-07-23	Ground Level (m)	Co-Ordinates ()		
Contractor Taylor Drilling Services				Sheet	1 of 1

SAMPLES & TESTS			STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
						0.10	MADE GROUND: Compact black ashy fine to coarse slightly sandy angular gravel of tarmacadam.		
						0.20			
						0.50			
1.20	C B D	N17					MADE GROUND: Compact orange brown fine to coarse sand with some limestone and brick gravel.		
1.20									
2.00	C B D	N50/125mm					MADE GROUND: Compact grey ashy sandy gravel. Gravel is fine to coarse, angular to subrounded of limestone with rare ash and brick (Sub base).		
2.00									
2.60	D						MADE GROUND: Uncompact black/brown ashy sandy gravel/gravelly sand. Gravel is fine to coarse, angular to subrounded of brick, concrete, limestone, slate and other mixed lithology. Frequent cobbles of brick.		
2.60									
3.00	S D B	N11					GLACIAL SAND & GRAVEL: Grey brown fine to coarse silty sandy GRAVEL of mixed lithology.		
3.00									
4.00	S D B	N14					GLACIAL TILL: Firm to stiff brown CLAY with rare gravel.		
4.00									
5.00	S D B						Probable HIGHLY WEATHERED SANDSTONE: Recovered as red brown fine to coarse gravelly sand in SPT shoe.		
5.00									
5.20	S D	N50/390mm 50/85mm					BOREHOLE ENDED		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No visual or olfactory evidence of hydrocarbon or solvent contamination.
All dimensions in metres Scale 1:62.5		Client Marshalls CDP				Method/ Plant Used Dando CP					Logged By MN

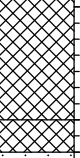
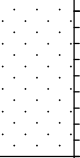
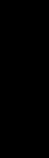
AGS3 UK BH NX406 N01 CITY ROAD EAST.GPJ AGS 3.1.GDT 7/9/23

Project No 1, City Road East				BOREHOLE No WS01	
Job No NX406	Date 14-07-23	Ground Level (m)	Co-Ordinates ()		
Contractor Taylor Drilling Services				Sheet 1 of 1	

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill								
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION										
0.50	ES	1			0.07	MADE GROUND: Brick paving.											
					0.20	MADE GROUND: Uncompact brown fine to coarse slightly silty sand (Binder).											
					0.40												
1.00	SPT	1			(2.50)	MADE GROUND: Compact grey ashy sandy gravel. Gravel is fine to coarse, angular to subrounded of limestone and other mixed lithology (Subbase).											
									MADE GROUND: Soft brown/black/grey ashy sandy clay with rare gravel. Gravel is fine to coarse, angular to subrounded of brick, concrete, sandstone, limestone and other mixed lithology.								
										0.40 ...geotextile membrane beneath subbase.							
1.70	ES				(2.50)	2.75 - 2.80 ...black ashy gravelly sand present.											
2.00	SPT D	3							Loose reddish brown fine to coarse slightly clayey SAND.								
3.00	SPT D	8									(1.80)						
												ES	Soft to firm brown CLAY.				
			B														
3.30-4.00							(0.40)	5.10				Loose reddish brown fine to coarse slightly clayey SAND.					
4.00	SPT D	8													(0.70)		
																SPT D	Firm brown slightly sandy CLAY.
5.00	SPT D	8															
5.10-5.80				...SPT refusal within very dense red SAND.													
6.00					SPT D	50											
	SPT D																
										B							
6.00	SPT D				50												
			SPT D														
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6.00	SPT D		50														
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				SPT D													
									B								
6.00	SPT D	50															
			SPT D														

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No visual or olfactory evidence of hydrocarbon or solvent contamination. No groundwater observed during drilling.
All dimensions in metres Scale 1:46.875			Client Marshall's CDP			Method/ Plant Used Tracked Archway Dart			Logged By MT		

Project No 1, City Road East				BOREHOLE No WS02	
Job No NX406	Date 13-07-23	Ground Level (m)	Co-Ordinates ()		
Contractor Taylor Drilling Services				Sheet	1 of 1

SAMPLES & TESTS			STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
1.00	SPT	7				0.01	MADE GROUND: Ceramic/porcelain floor tile.		
						0.08	MADE GROUND: Screed.		
						0.32	MADE GROUND: Reinforced concrete.		
						0.55	MADE GROUND: Compact grey ashy sandy gravel. Gravel is fine to coarse, angular to subrounded of limestone and other mixed lithology (Subbase).		
						0.80			
						0.95			
1.00	SPT	7				(0.75)	MADE GROUND: Dark brown ashy clayey gravelly sand. Gravel is fine to coarse, subrounded to angular of brick, concrete, sandstone, limestone, ash and other mixed lithology.		
1.50	ES					1.70	MADE GROUND: Black ashy clayey gravelly sand. Gravel is fine to coarse, subrounded to angular of brick, concrete, sandstone, limestone, ash and other mixed lithology.		
						1.90			
2.00	SPT	2					MADE GROUND: Loose reddish brown fine to coarse slightly clayey sand.		
2.10	ES					(1.00)	MADE GROUND: Soft dark grey clay with very rare gravel. Gravel is fine to coarse, subrounded to angular of brick and other mixed lithology.		
						2.90	GLACIAL SAND AND GRAVEL: Loose dark grey/brown clayey SAND with rare gravel. Gravel is fine to coarse, subrounded to angular of mudstone, sandstone and other mixed lithology.		
3.00	SPT D	38					Very stiff to hard brown sandy CLAY with rare gravel. Gravel is fine to coarse, subrounded to angular of mudstone, sandstone and other mixed lithology.		
3.50-4.00	B					(1.10)			
						4.00			
4.00	SPT D	50					...borehole ended at 4.0mbgl due to SPT refusal.		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No visual or olfactory evidence of hydrocarbon or solvent contamination. No groundwater observed during drilling.
All dimensions in metres Scale 1:46.875			Client Marshalls CDP			Method/ Plant Used Tracked Archway Dart			Logged By MT		

Project No 1, City Road East				BOREHOLE No WS05	
Job No NX406	Date 13-07-23	Ground Level (m)	Co-Ordinates ()		
Contractor Taylor Drilling Services				Sheet	1 of 1

SAMPLES & TESTS			STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)		
0.60	ES					0.05 0.10 (0.45) 0.55		
1.00	SPT	2				(2.05)		
2.00	SPT D	2						
2.40	ES					2.60 2.70		
3.00	SPT D	5				(0.40) 3.10		
3.40	ES					(0.55) 3.65		
4.00	SPT D	6				(0.40) 4.05		
4.40	ES							
5.00-6.00	S B D	19				(1.95)		
6.00	SPT D	50				6.00		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No visual or olfactory evidence of hydrocarbon or solvent contamination. Groundwater observed at 3.5mbgl during drilling.
All dimensions in metres Scale 1:46.875			Client Marshalls CDP			Method/ Plant Used Tracked Archway Dart			Logged By MT		

Project No 1, City Road East				BOREHOLE No WS06	
Job No NX406	Date 12-07-23	Ground Level (m)	Co-Ordinates ()		
Contractor Taylor Drilling Services				Sheet 1 of 1	

SAMPLES & TESTS			STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
						0.10	MADE GROUND: Compact black ashy fine to coarse slightly sandy angular gravel of tarmacadam.		
						(0.60)	MADE GROUND: Compact grey ashy sandy gravel. Gravel is fine to coarse, angular to subrounded of limestone and other mixed lithology (Subbase).		
						0.70			
1.00	SPT	1					MADE GROUND: Medium to dark brown fine to coarse slightly organic slightly clayey sand with rare gravel. Gravel is fine to coarse, angular to subrounded of sandstone, coal and other mixed lithology. Rare cobbles of brick. Rare organic material including dead branches and rootlets.		
1.50	ES					(2.10)	1.20 - 2.00 ...poor recovery.		
2.00	SPT	2							
						2.80			
2.90	ES						GLACIAL SAND AND GRAVEL: Dense brown fine to coarse slightly clayey slightly silty SAND AND GRAVEL. Gravel is fine to coarse, angular to subrounded of sandstone, mudstone and other mixed lithology.		
3.00	SPT	32				(1.20)	3.00 - 4.00 ...poor recovery.		
						4.00			
4.00	SPT	50					...borehole ended at 4.0mbgl due to SPT refusal.		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No visual or olfactory evidence of hydrocarbon or solvent contamination. No groundwater observed during drilling.
All dimensions in metres Scale 1:46.875			Client Marshalls CDP			Method/ Plant Used Tracked Archway Dart			Logged By MT		

Project No 1, City Road East				BOREHOLE No WS07	
Job No NX406	Date 12-07-23	Ground Level (m)	Co-Ordinates ()		
Contractor Taylor Drilling Services				Sheet	1 of 1

SAMPLES & TESTS			STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
0.80	ES					0.07	MADE GROUND: Brick paving.		
1.00	SPT	5				0.10 (0.60)	MADE GROUND: Uncompact brown fine to coarse slightly silty sand (Binder).		
						0.70	MADE GROUND: Compact grey ashy sandy gravel. Gravel is fine to coarse, angular to subrounded of limestone and other mixed lithology (Subbase).		
						(1.10)	MADE GROUND: Medium to dark brown fine to coarse slightly organic slightly clayey sand with rare gravel. Gravel is fine to coarse, angular to subrounded of sandstone, coal and other mixed lithology. Rare organic material including dead branches and rootlets. 0.90 - 1.80 ...faint organic odour.		
1.90	ES					1.80			
2.00	SPT	19				(1.00)	MADE GROUND: Medium dense, medium to dark brown fine to coarse slightly clayey sand with rare gravel. Gravel is fine to coarse, angular to subrounded of sandstone, coal and other mixed lithology. Rare organic material including dead branches and rootlets.		
2.10-2.80	B					2.80			
2.85	SV	57				(0.90)	Firm to stiff brown sandy CLAY with rare gravel. Gravel is fine to coarse, angular to subrounded of mudstone and other mixed lithology.		
2.90	ES								
3.00	SPT D	20				3.70	3.50 ...becoming slightly sandy.		
3.70	SPT D	50					...borehole ended at 3.7mbgl due to SPT refusal. ...sampler visibly bouncing during drilling.		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No visual or olfactory evidence of hydrocarbon or solvent contamination. No groundwater observed during drilling.
All dimensions in metres Scale 1:46.875			Client Marshall's CDP			Method/ Plant Used Tracked Archway Dart			Logged By MT		

Project No 1, City Road East				BOREHOLE No WS08	
Job No NX406	Date 12-07-23	Ground Level (m)	Co-Ordinates ()		
Contractor Taylor Drilling Services				Sheet	1 of 1

SAMPLES & TESTS			STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
0.50	ES					0.07 0.10 0.40 (0.50)	MADE GROUND: Brick paving. MADE GROUND: Uncompact brown fine to coarse slightly silty sand (Binder). MADE GROUND: Compact grey ashy sandy gravel. Gravel is fine to coarse, angular to subrounded of limestone and other mixed lithology (Subbase).		
1.00	ES SPT	19				0.90 1.10	MADE GROUND: Medium brown/grey fine to coarse slightly clayey sand with rare gravel. Gravel is fine to coarse, angular to subrounded of limestone, sandstone and other mixed lithology MADE GROUND: Soft to firm light grey mottled brown sandy clay with rare gravel of mudstone, sandstone and other mixed lithology.		
2.00	SPT	28				(1.60)	MADE GROUND: Loose to medium dense, medium to dark brown fine to coarse slightly clayey sand with rare gravel. Gravel is fine to coarse, angular to subrounded of sandstone, coal and other mixed lithology. Rare organic material including dead branches and rootlets. 1.70 ...becoming clayey.		
2.20	ES					2.70			
3.00	SPT D	30				2.95	MADE GROUND: Medium dense brown/black/orange, slightly ashy slightly gravelly sand. Gravel is fine to coarse, angular to subrounded of mudstone, sandstone and other mixed lithology.		
3.10	ES					(1.15)	Firm to stiff brown sandy CLAY with rare gravel. Gravel is fine to coarse, angular to subrounded of sandstone, coal and other mixed lithology. Rare cobbles of sandstone. 3.40 - 3.48 ...sandstone cobble.		
3.20-4.00	B					4.10			
4.00	SPT	43				(0.40)	Very stiff brown slightly sandy CLAY.		
4.50	SPT D	50/65mm				4.50	...borehole ended at 4.5mbgl due to SPT refusal. ...sampler visibly bouncing during drilling.		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No visual or olfactory evidence of hydrocarbon or solvent contamination. No groundwater observed during drilling.
All dimensions in metres Scale 1:46.875			Client Marshalls CDP			Method/ Plant Used Tracked Archway Dart			Logged By MT		

Project No 1, City Road East				BOREHOLE No WS09	
Job No NX406	Date 13-07-23	Ground Level (m)	Co-Ordinates ()		
Contractor Taylor Drilling Services				Sheet 1 of 1	

SAMPLES & TESTS			Water	STRATA			Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick- ness)		
0.50	ES					0.10	MADE GROUND: Compact black ashy fine to coarse slightly sandy angular gravel of tarmacadam. MADE GROUND: Compact grey ashy sandy gravel. Gravel is fine to coarse, angular to subrounded of limestone and other mixed lithology (Subbase). MADE GROUND: Soft to firm ashy sandy clay with rare gravel. Gravel is fine to coarse, angular to subrounded of brick, limestone, sandstone, clinker, ash and other mixed lithology. ...borehole ended at 0.95m bgl due to a solid obstruction.	
						0.40		
						(0.55)		
						0.95		

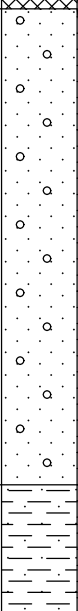
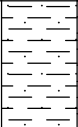
Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No visual or olfactory evidence of hydrocarbon or solvent contamination. No groundwater observed during drilling.
All dimensions in metres Scale 1:46.875			Client Marshall's CDP			Method/ Plant Used Tracked Archway Dart			Logged By MT		

Project No 1, City Road East				BOREHOLE No WS09a	
Job No NX406	Date 14-07-23	Ground Level (m)	Co-Ordinates ()		
Contractor Taylor Drilling Services				Sheet	1 of 1

SAMPLES & TESTS			STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION	
0.50	ES	3				0.10	MADE GROUND: Compact black ashy fine to coarse slightly sandy angular gravel of tarmacadam.	
1.00	SPT					0.40	MADE GROUND: Compact grey ashy sandy gravel. Gravel is fine to coarse, angular to subrounded of limestone and other mixed lithology (Subbase).	
1.30	ES					(1.50)	MADE GROUND: Soft brown/black/grey ashy sandy clay with rare gravel. Gravel is fine to coarse, angular to subrounded of brick, concrete, sandstone, limestone and other mixed lithology. 1.20 ...no longer sandy with a slightly organic odour.	
2.00	SPT D	14				1.90		
2.10	ES					(1.10)	GLACIAL SAND AND GRAVEL: Loose to medium dense brown fine to coarse slightly clayey SAND with rare gravel. Gravel is fine to coarse, angular to subrounded of sandstone, mudstone and other mixed lithology.	
3.00	SPT D	35				3.00		
3.60-4.00	B					(0.80)	Firm to stiff brown sandy CLAY with rare gravel. Gravel is fine to coarse, angular to subrounded of mudstone and other mixed lithology. 3.40 ...becoming sandy.	
4.00	SPT D	50				3.80		
						4.00	Medium dense orange brown fine to coarse slightly clayey SAND.	
							...borehole ended at 4.0mbgl due to SPT refusal.	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No visual or olfactory evidence of hydrocarbon or solvent contamination. No groundwater observed during drilling.
All dimensions in metres Scale 1:46.875			Client Marshalls CDP			Method/ Plant Used Tracked Archway Dart			Logged By MT		

Project No 1, City Road East				BOREHOLE No WS10	
Job No NX406	Date 12-07-23	Ground Level (m)	Co-Ordinates ()		
Contractor Taylor Drilling Services				Sheet 1 of 1	

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
0.30	ES					0.07	MADE GROUND: Brick paving.		
						0.10	MADE GROUND: Uncompact brown fine to coarse slightly silty sand (Binder).		
						0.25	MADE GROUND: Compact grey ashy sandy gravel. Gravel is fine to coarse, angular to subrounded of limestone and other mixed lithology (Subbase).		
1.00-2.00	SPT B	18			(2.95)		GLACIAL SAND AND GRAVEL: Medium dense brown fine to coarse gravelly SAND. Gravel is fine to coarse, angular to sub-rounded of sandstone, mudstone and other mixed lithology. 1.00 ...becoming loose to medium dense. 1.00 - 3.20 ...increasing gravel content with depth.		
1.30	ES								
2.00	SPT	18							
3.00	SPT D	24							
					(0.80)		Very stiff brown sandy CLAY.		
4.00	SPT D	50				4.00	...borehole ended at 4.0mbgl due to SPT refusal.		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No visual or olfactory evidence of hydrocarbon or solvent contamination. No groundwater observed during drilling.
All dimensions in metres Scale 1:46.875			Client Marshall's CDP			Method/ Plant Used Tracked Archway Dart			Logged By MT		

Project No 1, City Road East				BOREHOLE No WS11	
Job No NX406	Date 12-07-23	Ground Level (m)	Co-Ordinates ()		
Contractor Taylor Drilling Services				Sheet	1 of 1

SAMPLES & TESTS			STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
0.90	ES	8				0.10	MADE GROUND: Compact black ashy fine to coarse slightly sandy angular gravel of tarmacadam.		
1.00	SPT					(0.45)	MADE GROUND: Compact grey ashy sandy gravel. Gravel is fine to coarse, angular to subrounded of limestone and other mixed lithology (Subbase).		
1.60	ES					0.55	MADE GROUND: Medium to dark brown fine to coarse slightly ashy sand with rare gravel. Gravel is fine to coarse, angular to subrounded of brick, sandstone, limestone, clinker and other mixed lithology.		
2.00	SPT D	1				0.75	MADE GROUND: Reddish/brown fine to coarse SAND.		
2.10	ES					(0.75)	MADE GROUND: Very loose brown/grey fine to coarse slightly silty sand with gravel. Gravel is fine to coarse, angular to subrounded of sandstone, limestone and other mixed lithology.		
3.00	SPT D	6				1.50	GLACIAL SAND AND GRAVEL: Loose dark grey fine to coarse clayey SAND with gravel. Gravel is fine to coarse, angular to subrounded of mudstone, sandstone, coal and other mixed lithology.		
3.30	ES					1.95			
3.60	SV	35				(1.25)			
4.00	SPT D	7				3.20	ALLUVIUM: Loose light grey/light brown fine to coarse organic silty clayey SAND with rare gravel. Gravel is fine to coarse, angular to subrounded of sandstone, mudstone and other mixed lithology. 3.20 - 5.00 ...organic material present.		
4.10-5.00	B					(1.80)			
4.60	SV	30				5.00			
5.00	SPT D	5					...borehole ended at 5.0mbgl.		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No visual or olfactory evidence of hydrocarbon or solvent contamination. No groundwater observed during drilling.
All dimensions in metres Scale 1:46.875			Client Marshall's CDP			Method/ Plant Used Tracked Archway Dart			Logged By MT		

Project No 1, City Road East				BOREHOLE No WS12	
Job No NX406	Date 04-08-23	Ground Level (m)	Co-Ordinates ()		
Contractor Taylor Drilling Services				Sheet 1 of 1	

SAMPLES & TESTS			STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.30	ES					0.25 0.25	MADE GROUND: Reinforced concrete. 0.10 - 0.20 ...metal rebar recorded at 0.1mbgl and 0.2mbgl. MADE GROUND: Blue geotextile membrane.	
1.00	SPT	4				(1.85)	MADE GROUND: Dark brown fine to coarse slightly ashy gravelly clayey sand with rare pockets of clay. Gravel is fine to coarse, angular to subrounded of brick, concrete, sandstone, ash, slate, limestone, mudstone and other mixed lithology.	
1.30	ES							
2.00	SPT	8				2.10	1.80 - 1.90 ...loose black ashy gravel.	
2.30	ES					2.30	MADE GROUND: Firm brown clay with rare gravel of sandstone, mudstone and other mixed lithology. Very rare gravel of brick.	
						(0.70)	Firm brown CLAY with rare gravel of sandstone, mudstone and other mixed lithology.	
3.00	SPT D	50				3.00	...borehole ended at 3.0mbgl due to SPT refusal. ...dense reddish brown fine to coarse slightly clayey SAND within SPT sample.	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No visual or olfactory evidence of hydrocarbon or solvent contamination. No groundwater observed during drilling.
All dimensions in metres Scale 1:46.875			Client Marshall's CDP			Method/ Plant Used Tracked Archway Dart			Logged By MT		

Project No 1, City Road East				BOREHOLE No WS13	
Job No NX406	Date 04-08-23	Ground Level (m)	Co-Ordinates ()		
Contractor Taylor Drilling Services				Sheet	1 of 1

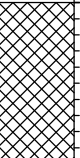
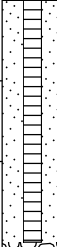
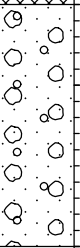
SAMPLES & TESTS			STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)		
0.40	ES					0.25 0.25 0.40		
1.00	SPT	19						
1.40	ES					(2.60)		
2.00	SPT	6						
2.40	ES							
3.00	SPT	6				3.00		
				MADE GROUND: Reinforced concrete. 0.10 - 0.20 ...metal rebar recorded at 0.1mbgl and 0.2mbgl. MADE GROUND: Blue geotextile membrane. MADE GROUND: Compact grey ashy sandy gravel. Gravel is fine to coarse, angular to subrounded of limestone and other mixed lithology (Subbase). MADE GROUND: Brown/black/dark grey fine to coarse ashy gravelly sand. Gravel is fine to coarse, angular to subrounded of brick, limestone, ash, concrete, clinker and other mixed lithology. Very rare cobbles of brick. Rare pockets of soft ashy clay. 2.00 ...casing removed due to an obstruction bending drilling equipment. 2.60 ...becoming very clayey. 2.90 ...sampler beginning to bend due to an obstruction. ...borehole ended at 3.0mbgl due to a solid obstruction preventing progression.				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No visual or olfactory evidence of hydrocarbon or solvent contamination. No groundwater observed during drilling.
All dimensions in metres Scale 1:46.875			Client Marshall's CDP			Method/ Plant Used Tracked Archway Dart			Logged By MT		

SAMPLES & TESTS			Water	STRATA			Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick- ness)		
						(0.40) 0.40	MADE GROUND: Reinforced concrete.	
							...borehole ended at 0.4mbgl as corer unable to progress through concrete.	

GS3 UK WS NX406 NO1 CITY ROAD EAST.GPJ AGS 3 1.GDT 7/9/23

Project No 1, City Road East				BOREHOLE No WS14a	
Job No NX406	Date 04-08-23	Ground Level (m)	Co-Ordinates ()		
Contractor Taylor Drilling Services				Sheet 1 of 1	

SAMPLES & TESTS			STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
1.00	SPT	12				(1.00) 1.00	...borehole redrilled through HP02.		
1.70	ES					(0.50) 1.50	MADE GROUND: Medium dense dark brown ashy clayey gravelly sand. Gravel is fine to coarse, subrounded to angular of brick, concrete, sandstone, limestone, ash and other mixed lithology.		
2.00	SPT	10				(1.50) 3.00	1.00 - 1.30 ...frequent cobbles present preventing casing to progress. 1.30 ...casing removed to allow progression. Loose to medium dense brown/yellowish brown fine to coarse gravelly cobbly SAND. Gravel is fine to coarse, subrounded to angular of sandstone, mudstone and other mixed lithology. 2.00 ...no recovery within SPT sample. 2.40 ...rare mineral veins within sandstone gravel.		
							...borehole ended at 3.0mbgl due to collapse to 2.0mbgl.		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No visual or olfactory evidence of hydrocarbon or solvent contamination. No groundwater observed during drilling.
All dimensions in metres Scale 1:46.875			Client Marshall's CDP			Method/ Plant Used Tracked Archway Dart			Logged By MT		

SAMPLES & TESTS			Water	STRATA			Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick- ness)		
						0.20	MADE GROUND: Reinforced concrete.	
							...borehole ended due to an obstruction, corer unable to progress.	

GS3 UK WS NX406 NO1 CITY ROAD EAST.GPJ AGS 3 1.GDT 7/9/23

Project No 1, City Road East				BOREHOLE No WS15a	
Job No NX406	Date 04-08-23	Ground Level (m)	Co-Ordinates ()		
Contractor Taylor Drilling Services				Sheet 1 of 1	

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
0.50	ES	12				0.22	MADE GROUND: Reinforced concrete.		
						0.45	MADE GROUND: Compact grey ashy sandy gravel. Gravel is fine to coarse, angular to subrounded of limestone and other mixed lithology (Subbase).		
						(0.75)	MADE GROUND: Ashy clayey gravelly sand. Gravel is fine to coarse, angular to subrounded of brick, sandstone, concrete, limestone, slate and other mixed lithology.		
1.00	SPT D	12				1.20			
1.50	ES						MADE GROUND: Soft to firm (locally firm) ashy sandy gravelly clay. Gravel is fine to coarse, angular to subrounded of brick, sandstone, concrete, limestone, slate and other mixed lithology.		
2.00	SPT D	2				(1.55)			
2.80	ES					2.75			
3.00	SPT D	50				3.10	Firm brown CLAY with rare gravel. Gravel is fine to coarse, angular to subrounded of sandstone, mudstone and other mixed lithology.		
3.10-3.70	B					(0.70)	Very stiff to hard dark brown CLAY with rare gravel. Gravel is fine to coarse, angular to subrounded of sandstone, mudstone and other mixed lithology. Very rare sandstone cobbles.		
3.60	SV	130				3.80			
3.80	SPT D	50					...borehole ended at 3.8mbgl. ...sampler visibly bouncing, unable to progress further.		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No visual or olfactory evidence of hydrocarbon or solvent contamination. No groundwater observed during drilling.
All dimensions in metres Scale 1:46.875			Client Marshall's CDP			Method/ Plant Used Tracked Archway Dart			Logged By MT		

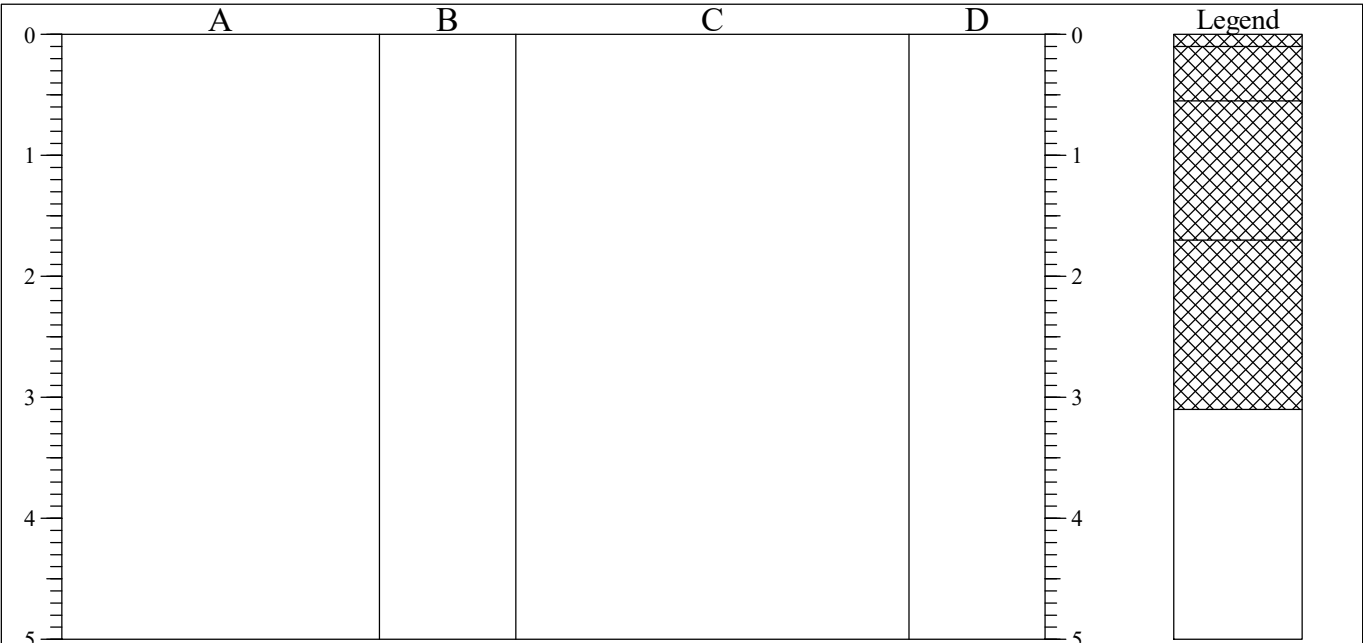
Project No 1, City Road East				BOREHOLE No WS16	
Job No NX406	Date 04-08-23	Ground Level (m)	Co-Ordinates ()		
Contractor Taylor Drilling Services				Sheet	1 of 1

SAMPLES & TESTS			STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION	
0.60	ES	3				0.22	MADE GROUND: Reinforced concrete.	
						0.45	MADE GROUND: Compact grey ashy sandy gravel. Gravel is fine to coarse, angular to subrounded of limestone and other mixed lithology (Subbase).	
						(1.50)	MADE GROUND: Brown/black fine to coarse slightly clayey sand with rare gravel. Gravel is fine to coarse, angular to subrounded of of brick, sandstone, limestone, and other mixed lithology.	
1.00	SPT					1.95		
2.00	SPT D ES	1				(0.85)	MADE GROUND: Very soft to soft black clay with rare gravel. Gravel is fine to coarse, angular to subrounded of, sandstone, brick and other mixed lithology. 2.00 - 2.50 ...slightly organic aroma.	
2.10						2.80		
3.00	SPT D ES	13				(1.20)	Firm dark brown CLAY with rare gravel. Gravel is fine to coarse, angular to subrounded of sandstone, mudstone and other mixed lithology. Very rare sandstone cobbles.	
3.10						4.00	3.50 ...becoming very stiff.	
4.00	SPT D	50					...borehole ended at 4.0mbgl due to SPT refusal.	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No visual or olfactory evidence of hydrocarbon or solvent contamination. Groundwater strike observed at 3.0mbgl during drilling.
All dimensions in metres Scale 1:46.875			Client Marshalls CDP			Method/ Plant Used Tracked Archway Dart			Logged By MT		

TRIAL PIT LOG

Project No 1, City Road East				TRIAL PIT No TP01
Job No NX406	Date 17-07-23	Ground Level (m)	Co-Ordinates ()	
Contractor Taylor Drilling Services				Sheet 1 of 1



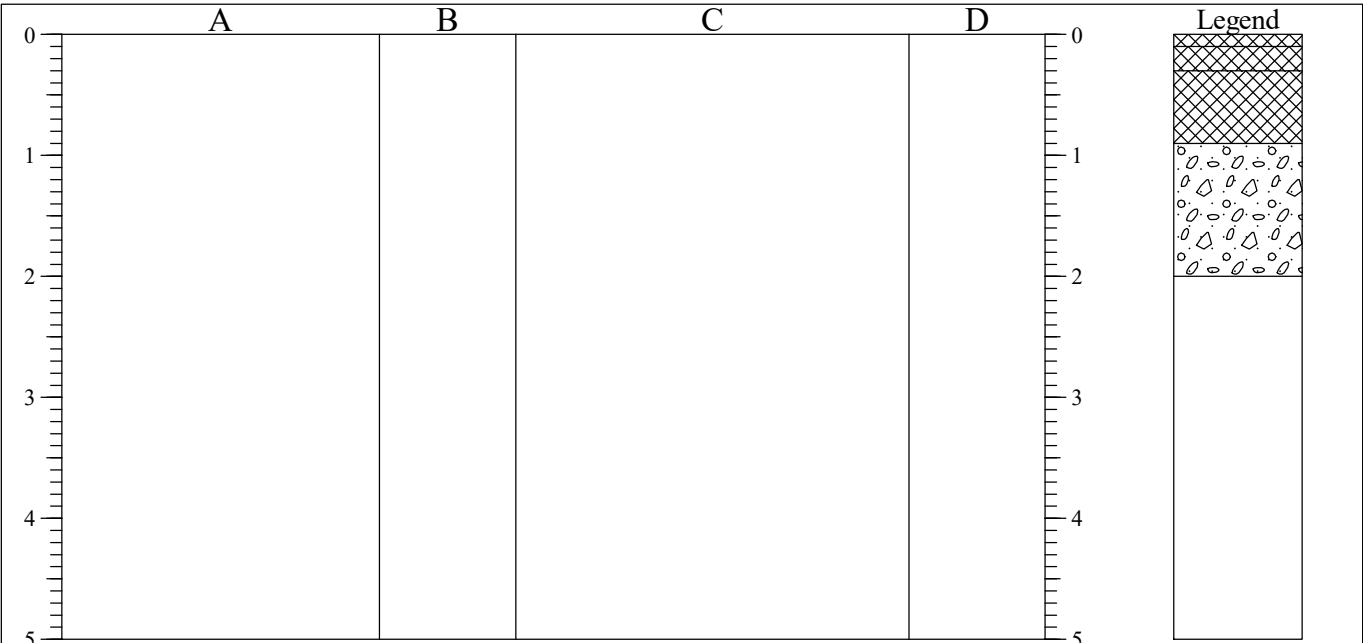
STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.10		MADE GROUND: Compact black ashy fine to coarse slightly sandy angular gravel of tarmacadam.			
0.10-0.55		MADE GROUND: Compact grey ashy sandy gravel. Gravel is fine to coarse, angular to subrounded of limestone and other mixed lithology (Subbase).			
0.55-1.70		MADE GROUND: Reddish brown slightly clayey sand with rare gravel. Gravel is fine to coarse, angular to subrounded of brick, sandstone and other mixed lithology. Very rare gravel of ceramic and glass. Rare cobbles of brick.	0.70-1.00	B	
1.70-3.10		MADE GROUND: Soft black slightly ashy slightly sandy clay with rare gravel. Gravel is fine to coarse, angular to subrounded of brick, sandstone and other mixed lithology.	1.70-2.00	B	
3.10		...trial pit ended at 3.1mbgl due to poor stability and partial collapse.			

Shoring/Support: Stability: Poor		<p>Diagram showing a rectangular trial pit with dimensions: A = 1.8, B = 0.8, C, and D. A north arrow points upwards.</p>	GENERAL REMARKS
			No visual or olfactory evidence of hydrocarbon or solvent contamination. No groundwater observed.

All dimensions in metres Scale 1:62.5	Client Marshall's CDP	Method/ Plant Used JCB 3CX	Logged By MT
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TRIAL PIT LOG

Project No 1, City Road East				TRIAL PIT No TP02
Job No NX406	Date 17-07-23	Ground Level (m)	Co-Ordinates ()	
Contractor Taylor Drilling Services				Sheet 1 of 1



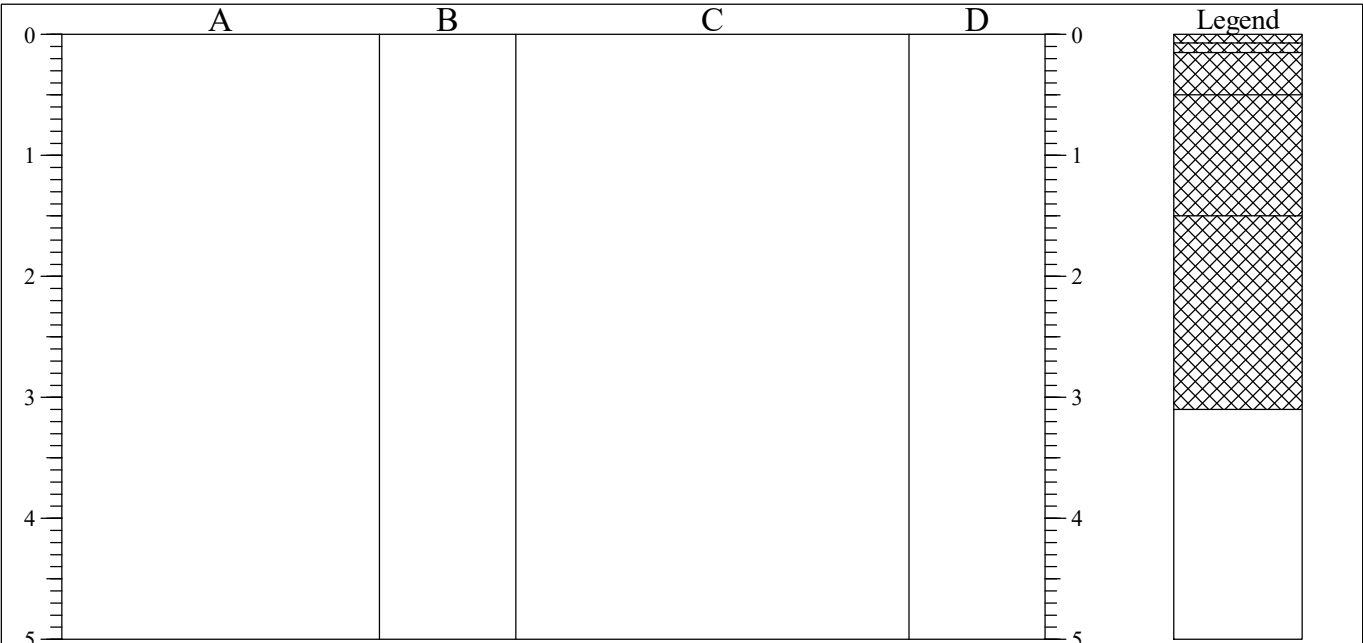
STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.10		MADE GROUND: Compact black ashy fine to coarse slightly sandy angular gravel of tarmacadam.	0.30-0.70	B B	
0.10-0.30					
0.30-0.90					
		MADE GROUND: Compact grey ashy sandy gravel. Gravel is fine to coarse, angular to subrounded of limestone and other mixed lithology (Subbase).	0.40	ES	
0.90-2.00		MADE GROUND: Soft to firm brown slightly ashy clayey sand with rare gravel. Gravel is fine to coarse, angular to subrounded of brick, sandstone, mudstone, limestone and other mixed lithology.	1.00	ES	
		0.30 ...relic in-situ brick wall underlying subbase in south and western face of trial pit.			
		0.70 ...possible former brick footing at 0.7mbgl, trial pit width expanded to allow progression.			
2.00		GLACIAL SAND AND GRAVEL: Brown slightly clayey SAND AND GRAVEL. Gravel is fine to coarse, angular to subrounded of sandstone, mudstone and other mixed lithology. Rare cobbles of sandstone and mudstone.			
		...trial pit ended at 2.0mbgl for BRE Infiltration Testing.			

Shoring/Support: Stability: Moderate		<p>The diagram shows a rectangular trial pit with dimensions A (width) and B (depth). A scale bar indicates A is 1.4 meters. A north arrow points upwards.</p>	GENERAL REMARKS No visual or olfactory evidence of hydrocarbon or solvent contamination. No groundwater observed.

All dimensions in metres Scale 1:62.5	Client Marshall's CDP	Method/ Plant Used JCB 3CX	Logged By MT
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TRIAL PIT LOG

Project No 1, City Road East				TRIAL PIT No TP03
Job No NX406	Date 17-07-23	Ground Level (m)	Co-Ordinates ()	
Contractor Taylor Drilling Services				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.07		MADE GROUND: Brick paving.			
0.07-0.15		MADE GROUND: Uncompact brown fine to coarse slightly silty sand (Binder).			
0.15-0.50		MADE GROUND: Compact grey ashy sandy gravel. Gravel is fine to coarse, angular to subrounded of limestone and other mixed lithology (Subbase).	0.60	ES	
0.50-1.50		MADE GROUND: Reddish brown slightly clayey sand with rare gravel and pockets of clay. Gravel is fine to coarse, angular to subrounded of brick, sandstone and other mixed lithology. Very rare gravel of ceramic and glass. Rare cobbles of brick.	1.50-2.00	B B	
1.50-3.10		MADE GROUND: Soft black slightly ashy sandy clay with rare gravel. Gravel is fine to coarse, angular to subrounded of brick, sandstone and other mixed lithology.	1.60	ES	
3.10		...trial pit ended at 3.1mbgl due to poor stability and partial collapse.			

Shoring/Support:
Stability: Poor

The diagram shows a rectangular trial pit with dimensions: length A = 2.3m, width B = 0.8m, and depth D. A north arrow points upwards.

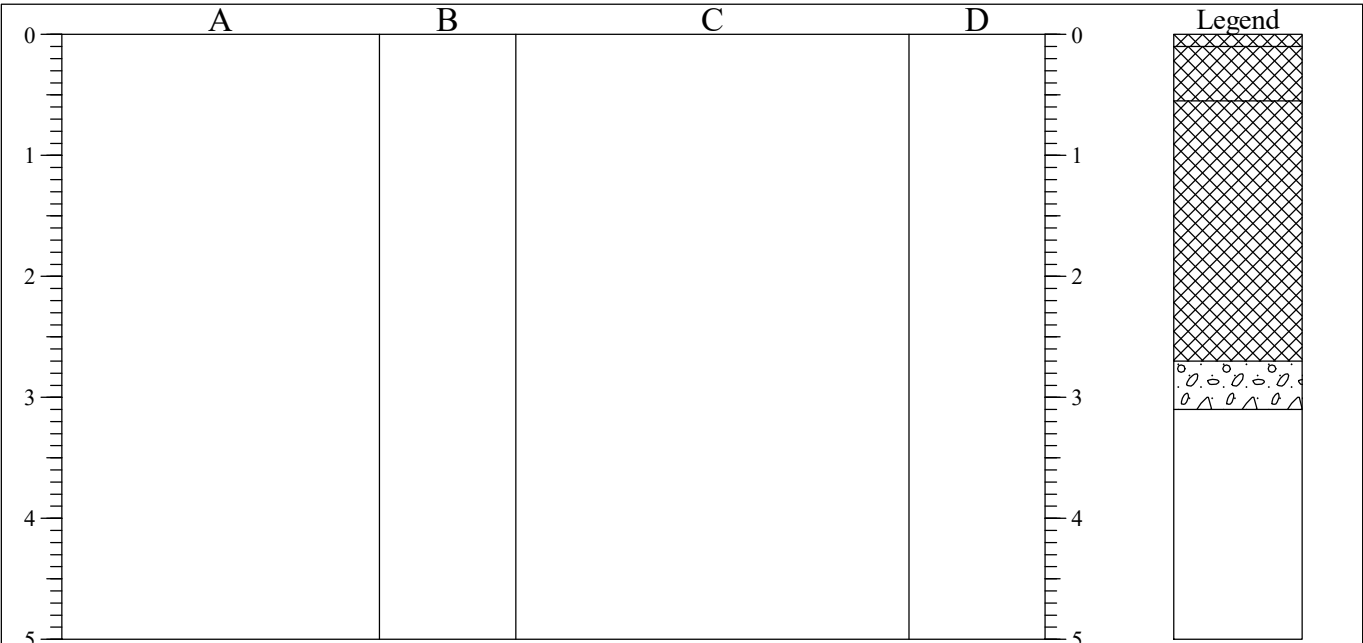
GENERAL REMARKS

No visual or olfactory evidence of hydrocarbon or solvent contamination. No groundwater observed.

All dimensions in metres Scale 1:62.5	Client Marshall's CDP	Method/ Plant Used JCB 3CX	Logged By MT
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TRIAL PIT LOG

Project No 1, City Road East				TRIAL PIT No TP04
Job No NX406	Date 17-07-23	Ground Level (m)	Co-Ordinates ()	
Contractor Taylor Drilling Services				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.10		MADE GROUND: Compact black ashy fine to coarse slightly sandy angular gravel of tarmacadam.			
0.10-0.55		MADE GROUND: Compact grey ashy sandy gravel. Gravel is fine to coarse, angular to subrounded of limestone and other mixed lithology (Subbase).			
0.55-2.70		0.50 - 2.00 ...relic in-situ wall. MADE GROUND: Black/brown ashy sandy gravel/gravelly sand. Gravel is fine to coarse, angular to subrounded of brick, concrete, limestone and other mixed lithology. Frequent cobbles of brick, including full intact bricks. 0.70 - 1.80 ...rare boulders of cemented brick. 1.80 ...rare cobbles and gravel of sandstone (broken sandstone slabs).			
2.70-3.10		GLACIAL SAND AND GRAVEL: Brown fine to coarse slightly clayey SAND AND GRAVEL. Gravel is fine to coarse, angular to subrounded of sandstone, mudstone and other mixed lithology	2.80-3.00	B	
3.10		...trial pit ended at 3.1mbgl.			

Shoring/Support:
Stability: Poor to moderate

2.3

A

D

B

0.8

C

N

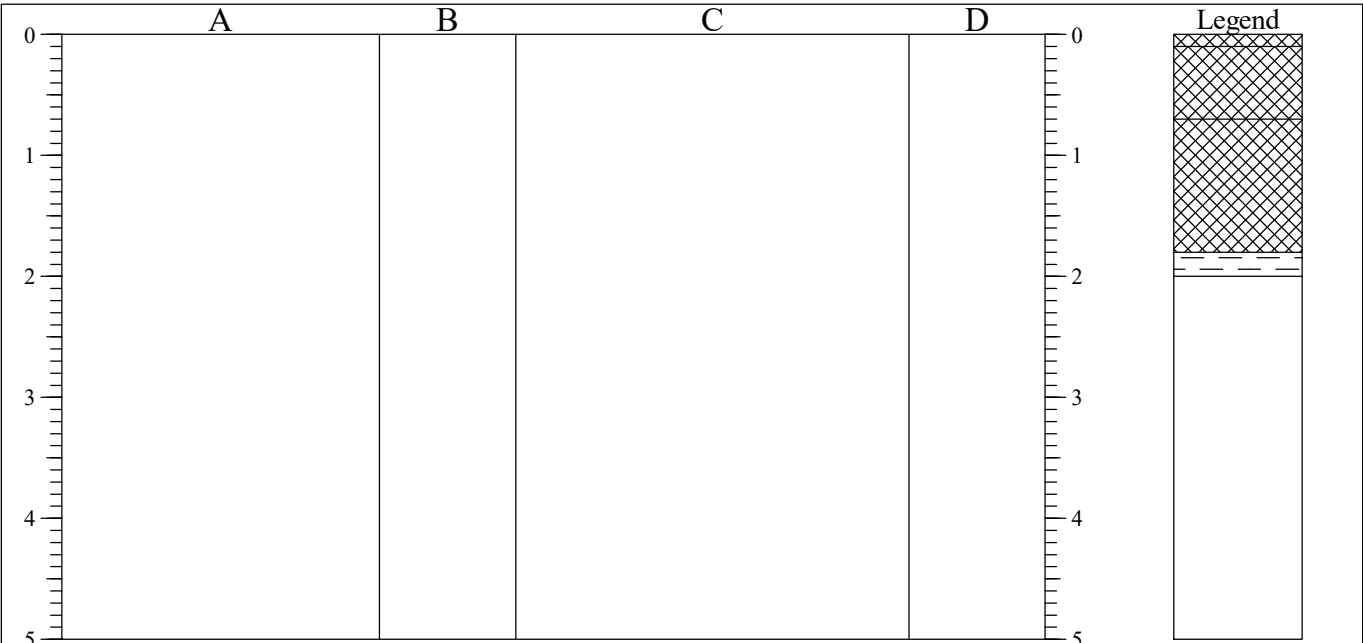
GENERAL REMARKS

No visual or olfactory evidence of hydrocarbon or solvent contamination.
No groundwater observed.

All dimensions in metres Scale 1:62.5	Client Marshall's CDP	Method/ Plant Used JCB 3CX	Logged By MT
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TRIAL PIT LOG

Project No 1, City Road East				TRIAL PIT No TP05
Job No NX406	Date 17-07-23	Ground Level (m)	Co-Ordinates ()	
Contractor Taylor Drilling Services				Sheet 1 of 1



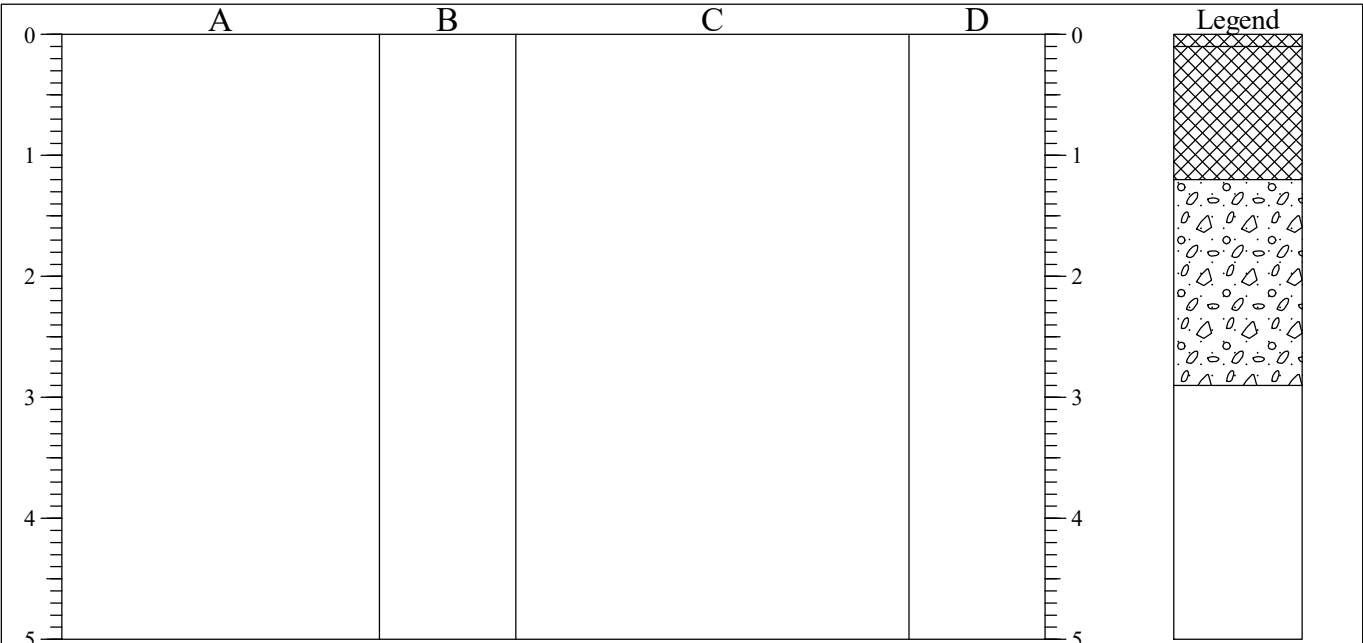
STRATA				SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests	
0.00-0.10		MADE GROUND: Compact black ashy fine to coarse slightly sandy angular gravel of tarmacadam.				
0.10-0.70		MADE GROUND: Compact grey ashy sandy gravel. Gravel is fine to coarse, angular to subrounded of limestone and other mixed lithology (Subbase).				
0.70-1.80		MADE GROUND: Soft brown/black slightly ashy sandy clay with rare gravel. Gravel is fine to coarse, angular to subrounded of brick, sandstone, mudstone, limestone and other mixed lithology.				
1.80-2.00		1.70 ...becoming light brown.	1.60-1.80	B B		
2.00		Firm light brown mottled grey slightly sandy CLAY. ...trial pit ended at 2.0mbgl for BRE Infiltration Testing.				

Shoring/Support: Stability: Moderate		<p>The diagram shows a rectangular trial pit with dimensions: Length A = 1.8m, Width B = 0.8m. The corners are labeled D (top-left), B (top-right), and C (bottom-right). A north arrow points upwards.</p>	GENERAL REMARKS
			No visual or olfactory evidence of hydrocarbon or solvent contamination. No groundwater observed.

All dimensions in metres Scale 1:62.5	Client Marshall's CDP	Method/ Plant Used JCB 3CX	Logged By MT
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TRIAL PIT LOG

Project No 1, City Road East				TRIAL PIT No TP06
Job No NX406	Date 17-07-23	Ground Level (m)	Co-Ordinates ()	
Contractor Taylor Drilling Services				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.10 0.10-1.20		MADE GROUND: Compact black ashy fine to coarse slightly sandy angular gravel of tarmacadam. MADE GROUND: Compact grey ashy sandy gravel. Gravel is fine to coarse, angular to subrounded of limestone and other mixed lithology (Subbase).			
1.20-2.90		GLACIAL SAND AND GRAVEL: Brown fine to coarse slightly clayey SAND AND GRAVEL. Gravel is fine to coarse, angular to subrounded of sandstone, mudstone and other mixed lithology	1.30 1.50-2.00	ES B	
2.90		...trial pit ended at 2.9mbgl.			

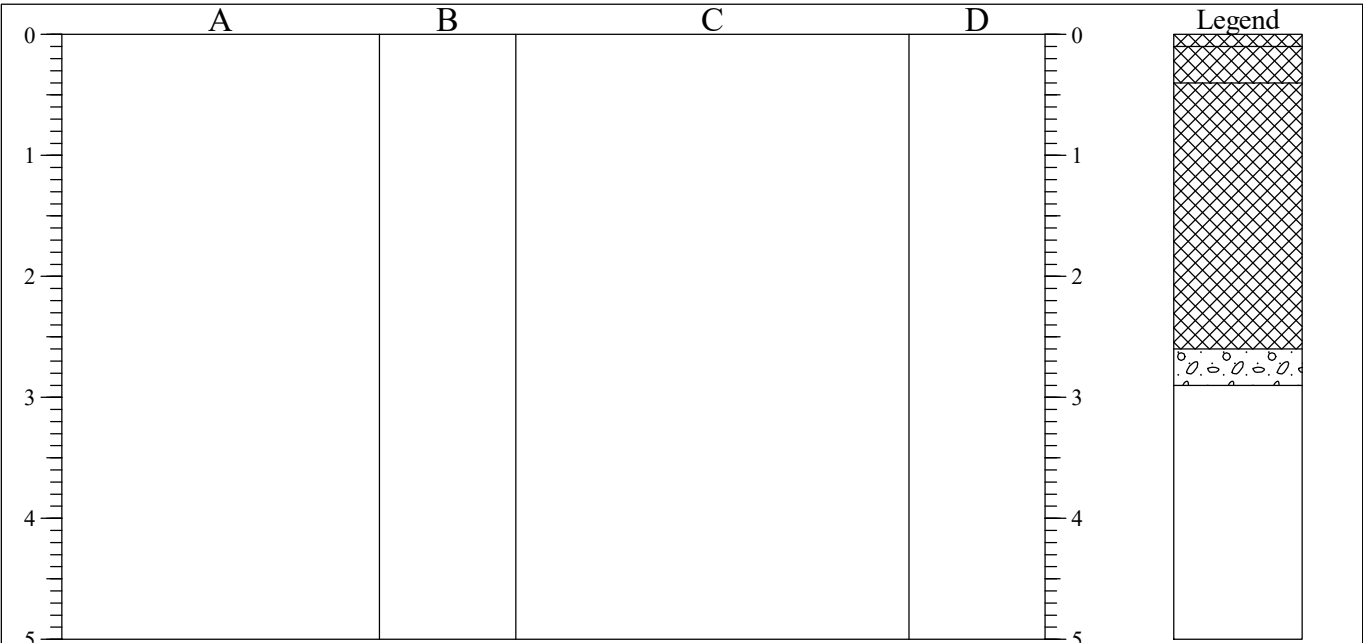
Shoring/Support: Stability: Moderate		<div><div><div>2.1</div><div>A</div><div>D</div><div>B</div><div>C</div><div>0.8</div></div><div><div>N</div></div></div>	GENERAL REMARKS
			No visual or olfactory evidence of hydrocarbon or solvent contamination. No groundwater observed.

All dimensions in metres Scale 1:62.5	Client Marshall's CDP	Method/ Plant Used JCB 3CX	Logged By MT
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AGS3 UK TP NX406 NO1 CITY ROAD EAST.GPJ AGS 3_1.GDT 7/19/23

TRIAL PIT LOG

Project No 1, City Road East				TRIAL PIT No TP07
Job No NX406	Date 17-07-23	Ground Level (m)	Co-Ordinates ()	
Contractor Taylor Drilling Services				Sheet 1 of 1



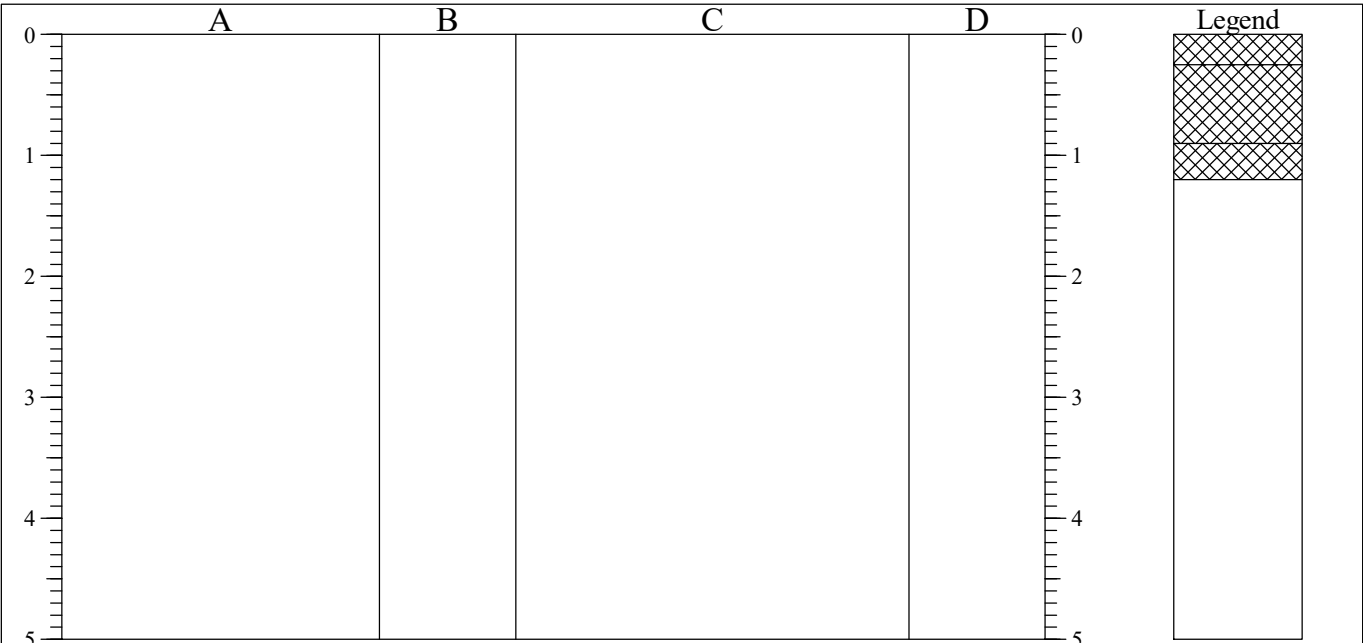
STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.10		MADE GROUND: Compact black ashy fine to coarse slightly sandy angular gravel of tarmacadam.			
0.10-0.40		MADE GROUND: Compact grey ashy sandy gravel. Gravel is fine to coarse, angular to subrounded of limestone and other mixed lithology (Subbase).			
0.40-2.60		MADE GROUND: Brown ashy gravelly sand. Gravel is fine to coarse, angular to subrounded of brick, concrete, limestone and other mixed lithology. Very rare gravel of ceramic, slate and glass. Frequent cobbles of brick, including full intact bricks. Very rare sandstone boulders. 0.40 ...metal rebar present within gravel. 0.50 - 2.00 ...partial remains of relic in-situ brick wall. 0.80 ...dead tree branch and roots present within gravel.			
2.60-2.90		GLACIAL SAND AND GRAVEL: Brown fine to coarse slightly clayey SAND AND GRAVEL. Gravel is fine to coarse, angular to subrounded of sandstone, mudstone and other mixed lithology.			
2.90		...trial pit ended at 2.9mbgl.			

Shoring/Support: Stability: Moderate		GENERAL REMARKS
		No visual or olfactory evidence of hydrocarbon or solvent contamination. No groundwater observed.

All dimensions in metres Scale 1:62.5	Client Marshalls CDP	Method/ Plant Used JCB 3CX	Logged By MT
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TRIAL PIT LOG

Project No 1, City Road East				TRIAL PIT No HP01
Job No NX406	Date 13-07-23	Ground Level (m)	Co-Ordinates ()	
Contractor Taylor Drilling Services				Sheet 1 of 1



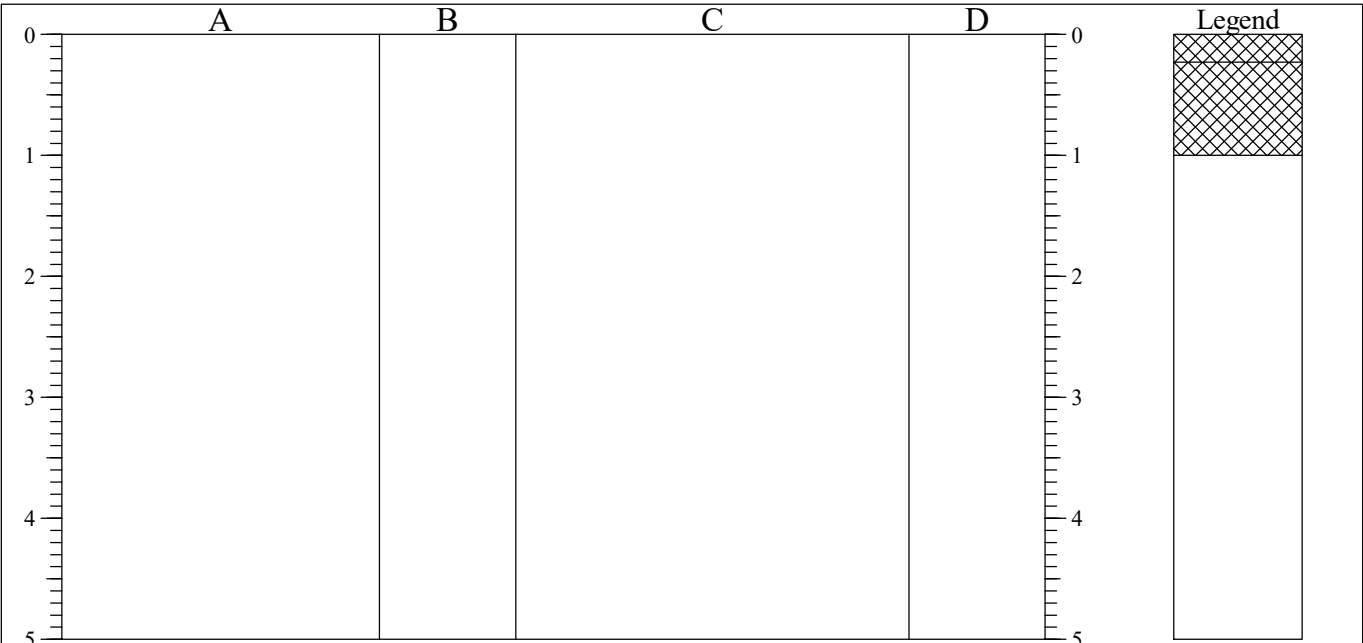
STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.25		MADE GROUND: Reinforced concrete.			
0.25-0.90		MADE GROUND: Dark brown ashy clayey gravelly sand. Gravel is fine to coarse, subrounded to angular of brick, concrete, sandstone, limestone, ash and other mixed lithology.	0.30	ES	
0.90-1.20		MADE GROUND: Soft to firm dark brown slightly ashy slightly sandy clay with rare gravel. Gravel is fine to coarse, subrounded to angular of brick, sandstone, limestone, ash and other mixed lithology.	1.00	ES	
1.20		...handpit ended at 1.2mbgl.			

Shoring/Support: Stability: Moderate			GENERAL REMARKS
			No visual or olfactory evidence of hydrocarbon or solvent contamination. No groundwater observed during drilling.

All dimensions in metres Scale 1:62.5	Client Marshall's CDP	Method/ Plant Used Tracked Archway Dart	Logged By MT
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TRIAL PIT LOG

Project No 1, City Road East				TRIAL PIT No HP02
Job No NX406	Date 13-07-23	Ground Level (m)	Co-Ordinates ()	
Contractor Taylor Drilling Services				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.23		MADE GROUND: Reinforced concrete.			
0.23-1.00		MADE GROUND: Dark brown ashy clayey gravelly sand. Gravel is fine to coarse, subrounded to angular of brick, concrete, sandstone, limestone, ash and other mixed lithology. 0.65 - 1.00 ...slower progression with increasing cobble content with depth.	0.40	ES	
1.00		...handpit ended at 1.0mbgl due to slow progression. ...cobbles in base of hole.			

Shoring/Support: Stability: Moderate			GENERAL REMARKS
			No visual or olfactory evidence of hydrocarbon or solvent contamination. No groundwater observed during drilling.

All dimensions in metres Scale 1:62.5	Client Marshall's CDP	Method/ Plant Used Tracked Archway Dart	Logged By MT
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AGS3 UK TP NX406 NO1 CITY ROAD EAST.GPJ AGS 3_1.GDT 7/19/23

Job:

No. 1 City Road East,

Job. No.:

NX406



Date:

14th August 2023

Next Generation Engineering Consultancy Services

Hammer weight (kg)

8

Hammer drop (mm)

575

Cone detail (mm)

20mm diameter, 60° cone

Cone type

TRL

Hole

WS08: 114mm to 620mm bgl.

Interpretive Method:

TRL Equation: $\text{Log}_{10}(\text{CBR}) = 2.480 - 1.057 \times \text{Log}_{10}(\text{strength})$

Note: DCP refusal was taken as 10 blows to failed drive the DCP rod into the ground $\leq 3\text{mm}$.

No. of blows	DCP scale reading (cm)	DCPI60 pen/ blow (mm)	Cumulative penetration (mm)	CBR value (%)	Cumulative penetration (cm)	Layer thickness (mm)	Avg CBR (%)	Strata
0	11.4	0	0	N/A	0			
5	14.5	31	31	8.0	3.1			
10	16.3	18	49	14.2	4.9			
15	17.3	10	59	26.5	5.9			
20	18.7	14	73	18.6	7.3	300	11.3	MADE GROUND: Subbase
30	22.4	37	110	6.6	11			
40	25.9	35	145	7.0	14.5			
50	28.9	30	175	8.3	17.5			
60	32	31	206	8.0	20.6			
70	37.1	51	257	4.7	25.7			
80	47.2	101	358	2.3	35.8			
90	58.8	116	474	2.0	47.4	500	4.0	MADE GROUND: Uncompact medium brown/grey fine to coarse slightly clayey sand with rare gravel.
100	62	32	506	7.7	50.6			

Job:

No. 1 City Road East,

Job. No.:

NX406



Date:

14th August 2023

Next Generation Engineering Consultancy Services

Hammer weight (kg)

8

Hammer drop (mm)

575

Cone detail (mm)

20mm diameter, 60° cone

Cone type

TRL

Hole

WS11: 118mm to 602mm bgl.

Interpretive Method:

TRL Equation: $\text{Log}_{10}(\text{CBR}) = 2.480 - 1.057 \times \text{Log}_{10}(\text{strength})$

Note: DCP refusal was taken as 10 blows to failed drive the DCP rod into the ground $\leq 3\text{mm}$.

No. of blows	DCP scale reading (cm)	DCPI60 pen/ blow (mm)	Cumulative penetration (mm)	CBR value (%)	Cumulative penetration (cm)	Layer thickness (mm)	Avg CBR (%)	Strata
0	11.8	0	0	N/A	0			
5	15	32	32	7.7	3.2			
10	17.1	21	53	12.1	5.3			
15	19.8	27	80	9.3	8			
20	23	32	112	7.7	11.2			
30	27.3	43	155	5.7	15.5	450	7.9	MADE GROUND: Subbase
40	30.2	29	184	8.6	18.4			
50	32.1	19	203	13.4	20.3			
60	34.9	28	231	8.9	23.1			
70	38.7	38	269	6.5	26.9			
80	44.6	59	328	4.1	32.8			
90	53	84	412	2.8	41.2			
100	60.2	72	484	3.3	48.4	200	3.3	MADE GROUND: Uncompact medium to dark brown fine to coarse slightly ashy sand with rare gravel.

Job:

No. 1 City Road East,

Job. No.:

NX406



Date:

14th August 2023

Next Generation Engineering Consultancy Services

Hammer weight (kg)

8

Hammer drop (mm)

575

Cone detail (mm)

20mm diameter, 60° cone

Cone type

TRL

Hole

RBH01: 124mm to 644mmbgl.

Interpretive Method:

TRL Equation: $\text{Log}_{10}(\text{CBR}) = 2.480 - 1.057 \times \text{Log}_{10}(\text{strength})$

Note: DCP refusal was taken as 10 blows to failed drive the DCP rod into the ground $\leq 3\text{mm}$.

No. of blows	DCP scale reading (cm)	DCPI60 pen/ blow (mm)	Cumulative penetration (mm)	CBR value (%)	Cumulative penetration (cm)	Layer thickness (mm)	Avg CBR (%)	Strata
0	12.4	0	0	N/A	0	80	10.4	MADE GROUND: Binder
5	14.6	22	22	11.5	2.2			
10	15.7	11	33	23.9	3.3			
15	16.6	9	42	29.6	4.2			
20	18.1	15	57	17.3	5.7	350	11.8	MADE GROUND: Subbase.
30	20.5	24	81	10.5	8.1			
40	23.6	31	112	8.0	11.2			
50	26.9	33	145	7.5	14.5			
60	31.3	44	189	5.5	18.9			
70	36.3	50	239	4.8	23.9			
80	41.3	50	289	4.8	28.9			
90	45.2	39	328	6.3	32.8	1300	3.0	MADE GROUND: Uncompact medium brown fine to coarse slightly clayey sand with rare gravel and pockets of clay
100	50.7	55	383	4.4	38.3			
110	64.4	137	520	1.7	52			

DRAFT SOAKAWAY TEST REPORT						Borehole Number: SA01 (TP02)	
ENGINEER: Matthew Tomkinson							
CLIENT: Marshall		Site: No.1 City Road East, Manchester					
Date: 17.07.2023		FALLING HEAD PERMEABILITY TEST		Job No. NX406			
Time: 11.00am		Test 1		GL AOD:			
			(m)				
Trial Pit Depth	D	:	2.00				
Final Water Depth in Trial Pit	Dw	:	2.00	PERMEABILITY (BRE Digest 365 method)			
Assumed Invert Level	IL	:					
75% effective depth	d75	:	1.500				
25% effective depth	d25	:	0.500				
Trial Pit Length	L	:	1.40	Vp 50 =	1.4	m3	
Trial Pit Width	W	:	1	As 50 =	6.2	m2/m	
Soil infiltration rate	f	:	m/sec				
Elapsed Time, t (Mins)	Depth to water, e (m)	Head of water, H (m)					
0.00	0.650	1.35					
3.00	0.740	1.26					
5.00	0.770	1.23					
7.50	0.800	1.20		Test deemed to have failed as the test did not fall 50%			
10.00	0.840	1.16		of the effective storage volume within a 24hr period.			
15.00	0.910	1.09	t1	t1 & t2 not reached			
30.00	1.100	0.90				t1 =	15.00
45.00	1.140	0.86				t2 =	120.00
60.00	1.310	0.69					
75.00	1.350	0.65				t50 =	105.00 min
90.00	1.380	0.62					
120.00	1.720	0.28	t2	f = Vp 50 / (60 x t50 x As 50)			
150.00	1.850	0.15					
180.00	1.930	0.07					
220.00	2.000	0.00					
240.00	1.25	0.75					
300.00	1.25	0.75					
330.00	1.26	0.74					
1290.00	2.00	0.00					
				f = 3.58E-05 m/s			



Next Generation Engineering Consultancy Services

Note: Unable to fill soakaway with water supply

DRAFT SOAKAWAY TEST REPORT						Borehole Number: SA02 (TP05)	
ENGINEER: Matthew Tomkinson							
CLIENT: Marshall		Site: No.1 City Road East, Manchester					
Date: 17.07.2023		FALLING HEAD PERMEABILITY TEST		Job No. NX406			
Time: 9.00am		Test 1		GL AOD:			
			(m)				
Trial Pit Depth	D	:	2.00				
Final Water Depth in Trial Pit	Dw	:	2.00	PERMEABILITY (BRE Digest 365 method)			
Assumed Invert Level	IL	:					
75% effective depth	d75	:	1.500				
25% effective depth	d25	:	0.500				
Trial Pit Length	L	:	1.80	Vp 50 =	1.44	m3	
Trial Pit Width	W	:	0.8	As 50 =	6.64	m2/m	
Soil infiltration rate	f	:	m/sec				
Elapsed Time, t (Mins)	Depth to water, e (m)	Head of water, H (m)					
0.00	1.010	0.99					
3.00	1.050	0.95					
5.00	1.070	0.93					
7.50	1.100	0.90					
10.00	1.130	0.87					
15.00	1.230	0.77	t1				
30.00	1.390	0.61					t1 = 15.00
45.00	1.470	0.53					t2 = 60.00
60.00	1.540	0.46	t2				
75.00	1.690	0.31				t50 = 45.00 min	
90.00	1.770	0.23					
120.00	1.890	0.11					
150.00	2.000	0.00					
180.00							
210.00							
240.00							
300.00							
330.00							
1290.00							
				f = 8.03E-05 m/s			



Next Generation Engineering Consultancy Services

Note: Unable to fill soakaway with water supply

Appendix D - Geotechnical Laboratory Test Results



TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

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



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

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

Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 25/07/2023
Sampled By: Not Given

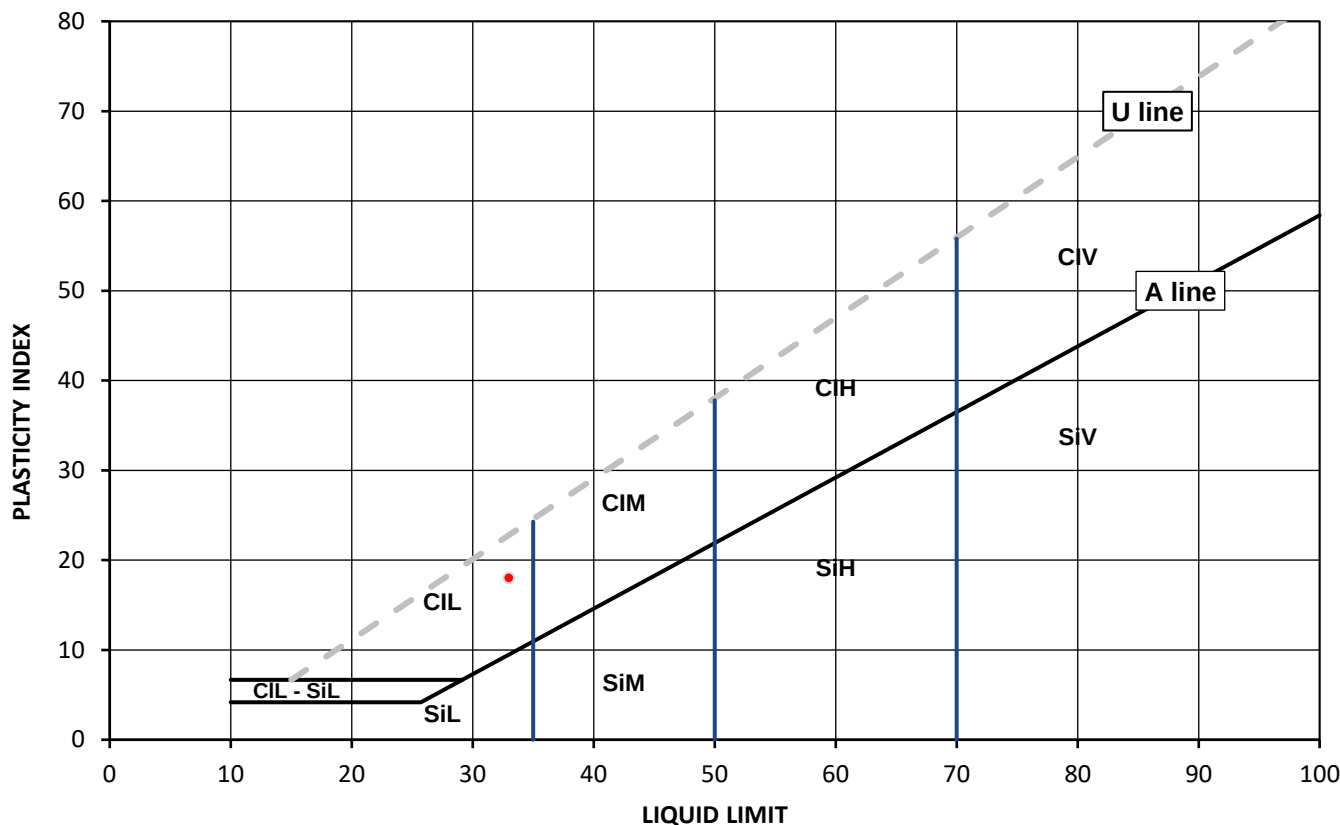
Test Results:

Laboratory Reference: 2752778
Hole No.: RH2
Sample Reference: Not Given
Sample Description: Brown slightly gravelly very sandy CLAY

Depth Top [m]: 3.00
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested after >425 µm removed by hand

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
12	33	15	18	98



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

	Plasticity	Liquid Limit
Cl Clay	L Low	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: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks: Preliminary report

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd
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Northampton NN4 7EB



Environmental Science

4041

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Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

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

Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 25/07/2023
Sampled By: Not Given

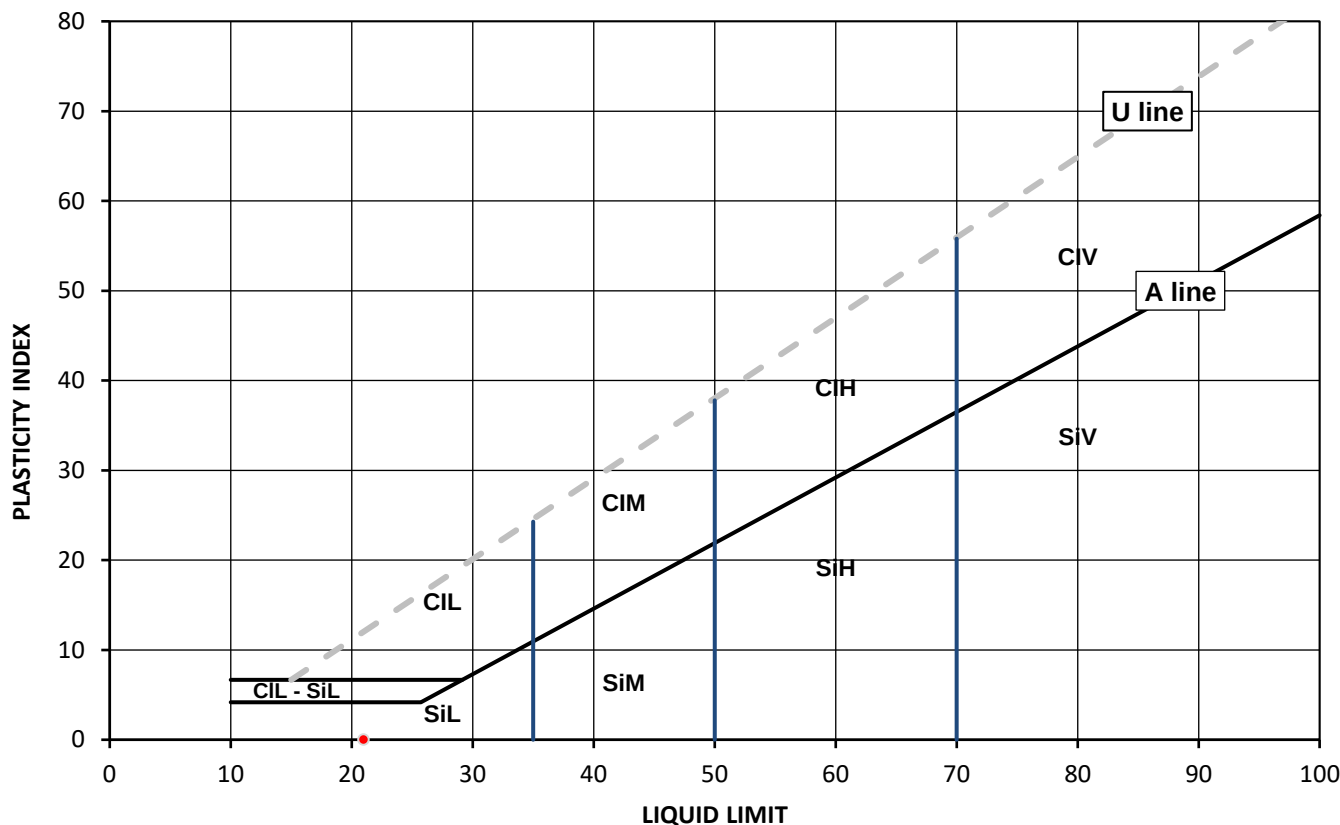
Test Results:

Laboratory Reference: 2752779
Hole No.: WS01
Sample Reference: Not Given
Sample Description: Brown slightly clayey SAND

Depth Top [m]: 5.00
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested in natural condition

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
14	21	NP	NP	100



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

	Plasticity	Liquid Limit
Cl Clay	L Low	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: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks: Preliminary report
NP - Non plastic

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd
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Environmental Science

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Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

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

Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 25/07/2023
Sampled By: Not Given

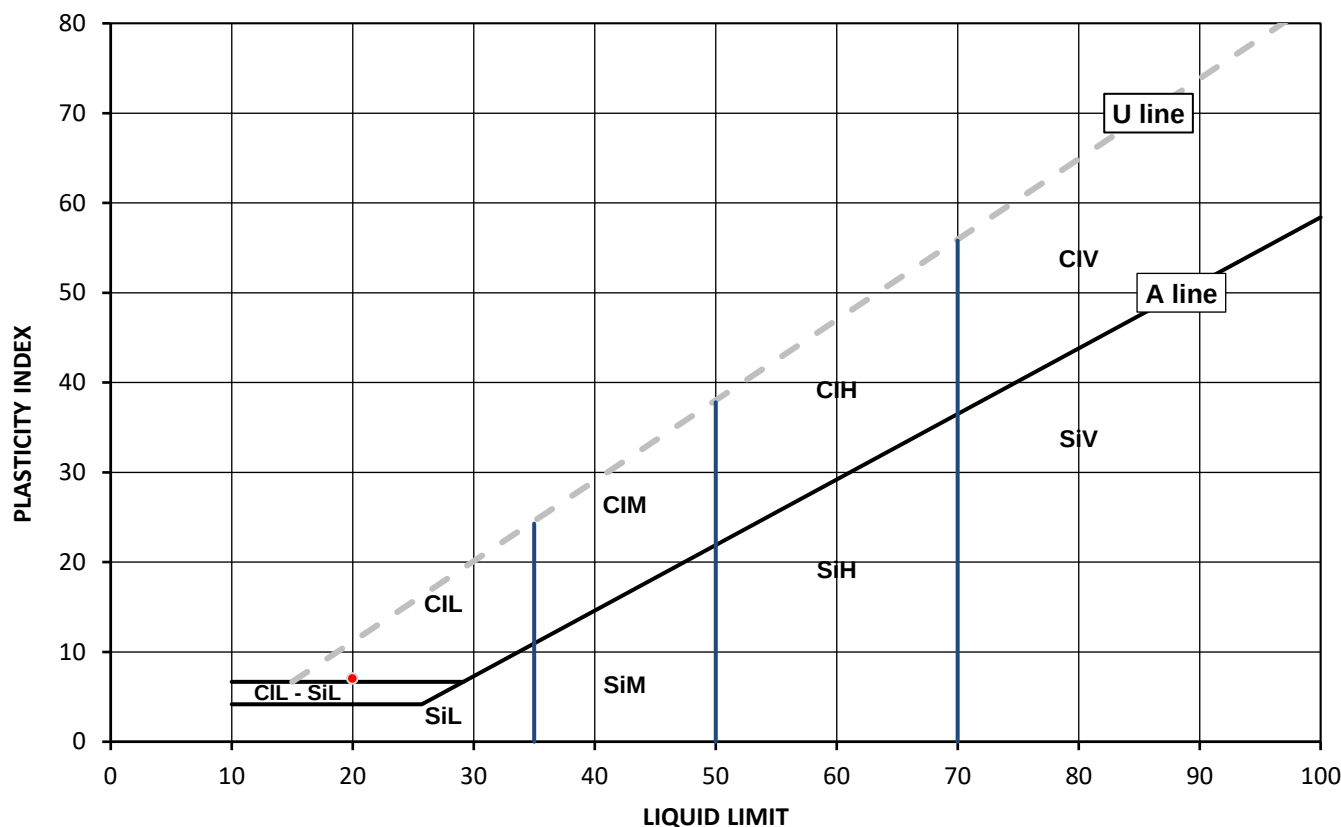
Test Results:

Laboratory Reference: 2752780
Hole No.: WS02
Sample Reference: Not Given
Sample Description: Brown slightly gravelly clayey SAND

Depth Top [m]: 3.00
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested after >425 µm removed by hand

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
11	20	13	7	98



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

	Plasticity	Liquid Limit
Cl Clay	L Low	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: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks: Preliminary report

Signed:

Katarzyna Koziel

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

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



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

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

Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 25/07/2023
Sampled By: Not Given

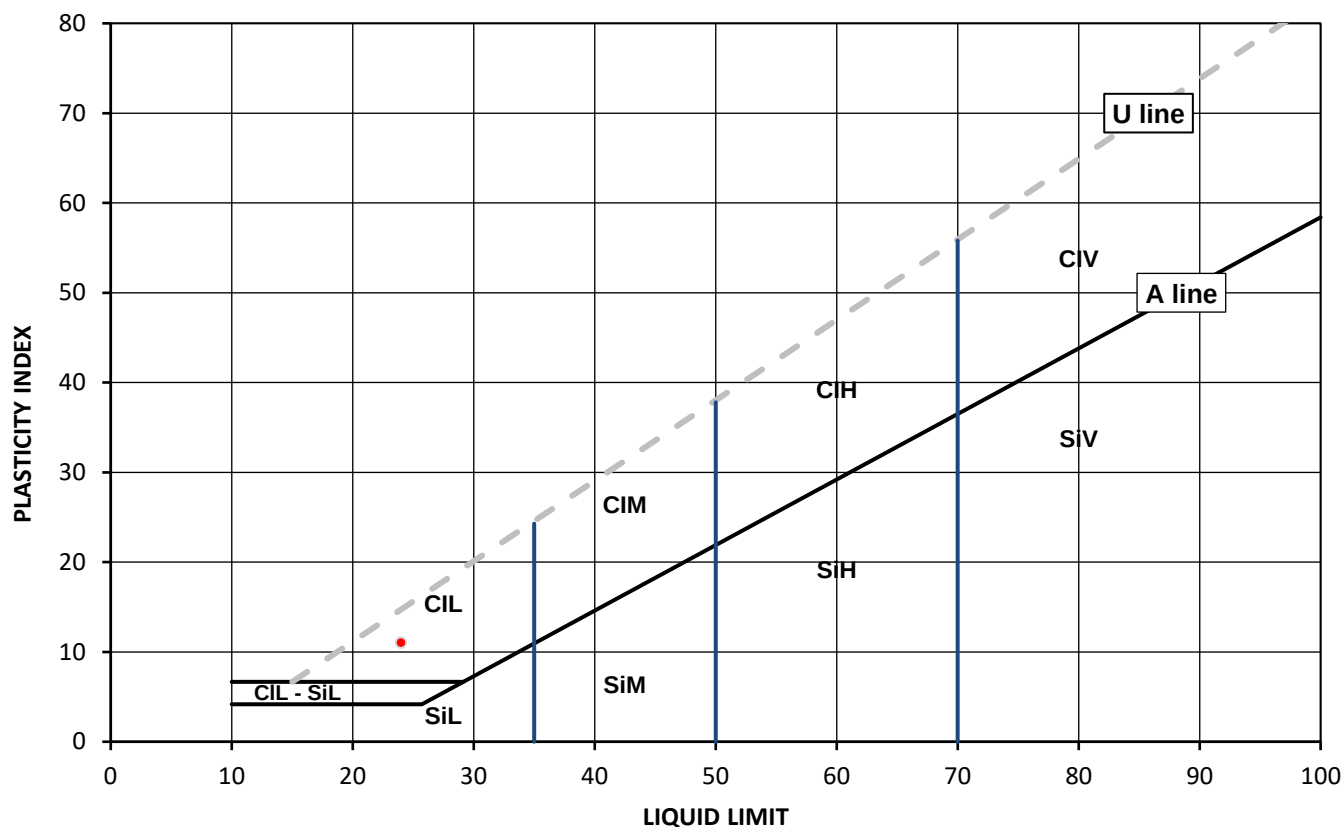
Test Results:

Laboratory Reference: 2752781
Hole No.: WS05
Sample Reference: Not Given
Sample Description: Brown slightly gravelly clayey SAND

Depth Top [m]: 4.00
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested after >425 µm removed by hand

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
12	24	13	11	75



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

	Plasticity	Liquid Limit
Cl Clay	L Low	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: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks: Preliminary report

Signed:

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd
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Northampton NN4 7EB



Environmental Science

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Client: NX Consulting
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Contact: Mark Newton
Site Address: One City Road, Manchester

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

Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 25/07/2023
Sampled By: Not Given

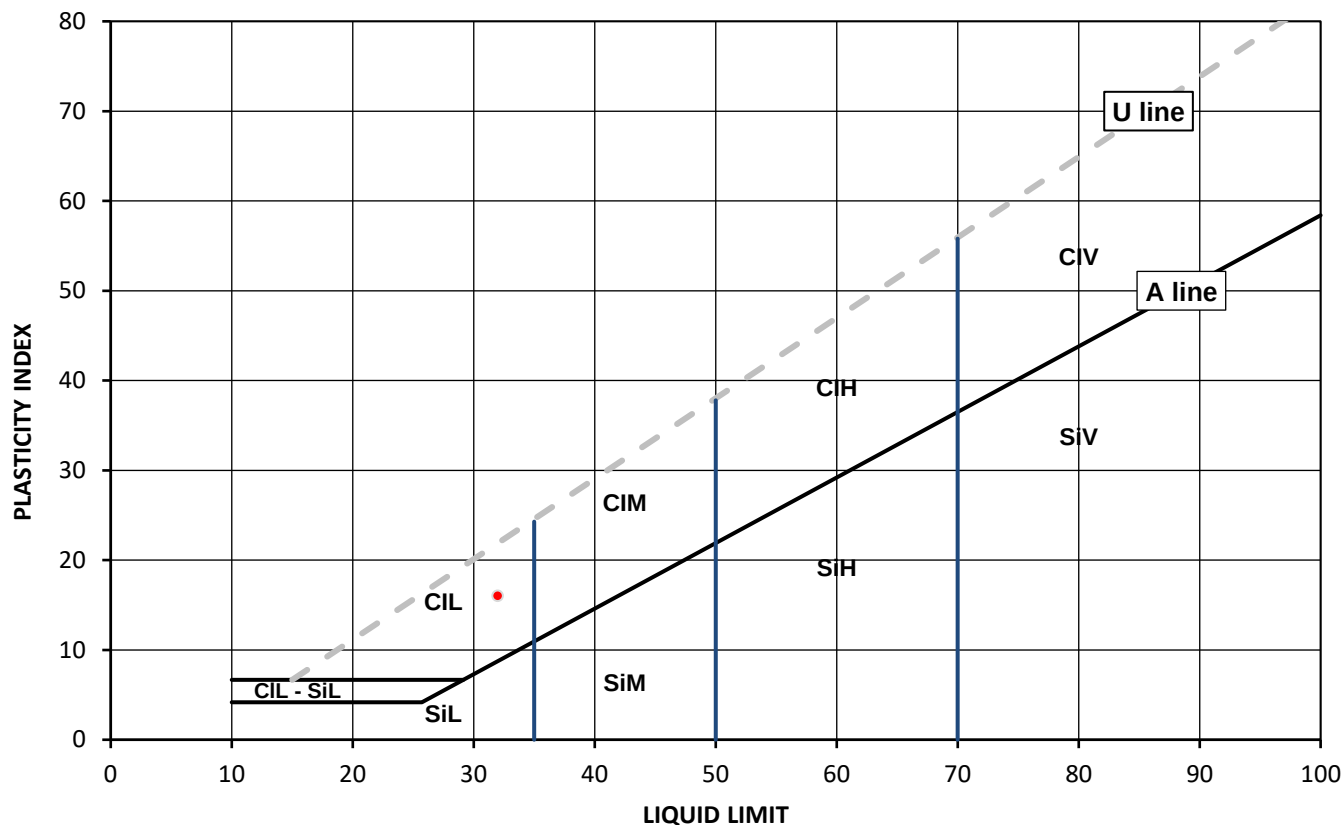
Test Results:

Laboratory Reference: 2752783
Hole No.: WS07
Sample Reference: Not Given
Sample Description: Brown slightly gravelly very sandy CLAY

Depth Top [m]: 3.00
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested after >425 µm removed by hand

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
15	32	16	16	98



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

	Plasticity	Liquid Limit
Cl Clay	L Low	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: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks: Preliminary report

Signed:

Katarzyna Koziel

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DETERMINATION OF LIQUID AND PLASTIC LIMITS

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i2 Analytical Ltd
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Environmental Science

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Contact: Mark Newton
Site Address: One City Road, Manchester

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

Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 25/07/2023
Sampled By: Not Given

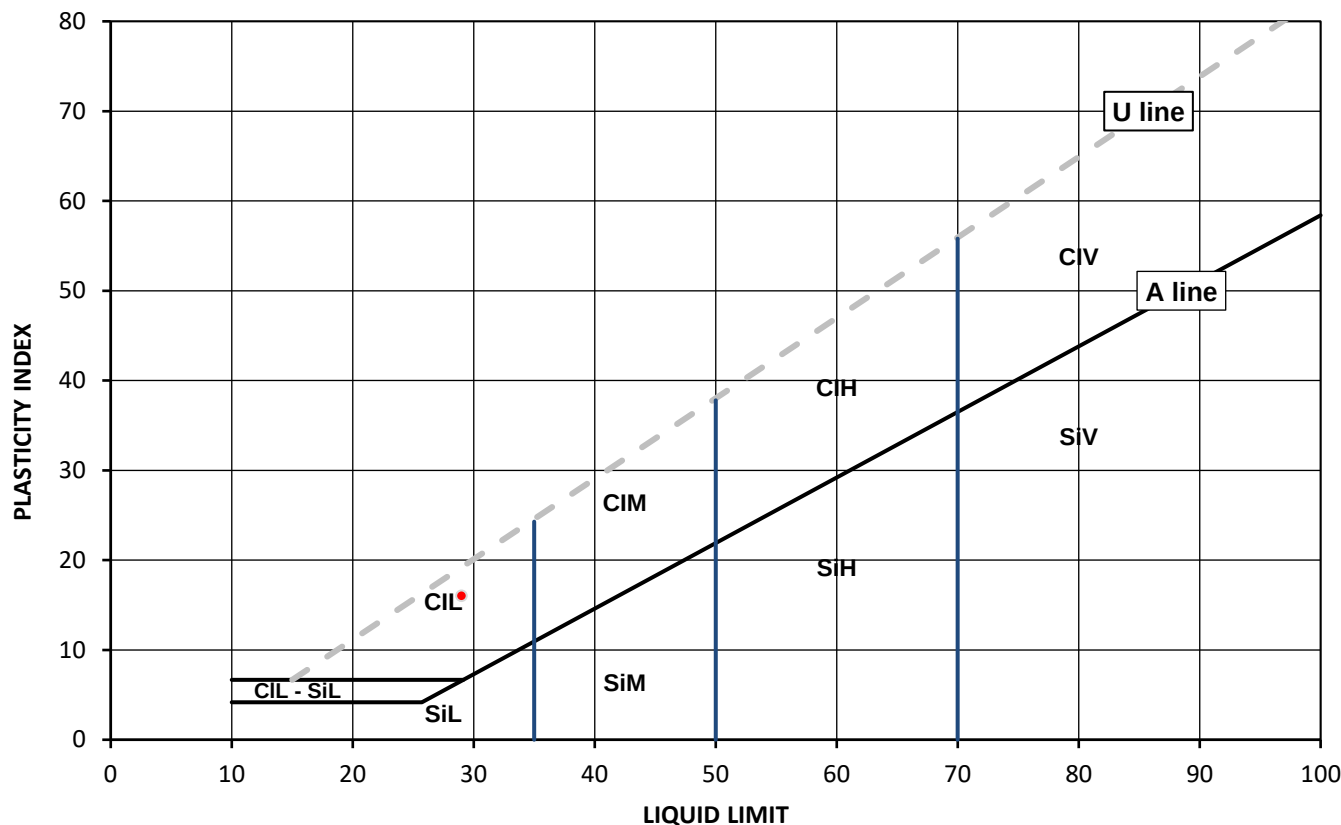
Test Results:

Laboratory Reference: 2752784
Hole No.: WS08
Sample Reference: Not Given
Sample Description: Brown slightly gravelly very sandy CLAY

Depth Top [m]: 3.00
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested after >425 µm removed by hand

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
10	29	13	16	96



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
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

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

Remarks: Preliminary report

Signed:

Katarzyna Koziel

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TEST CERTIFICATE

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Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd
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Brackmills Industrial Estate
Northampton NN4 7EB



Environmental Science

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Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

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

Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 25/07/2023
Sampled By: Not Given

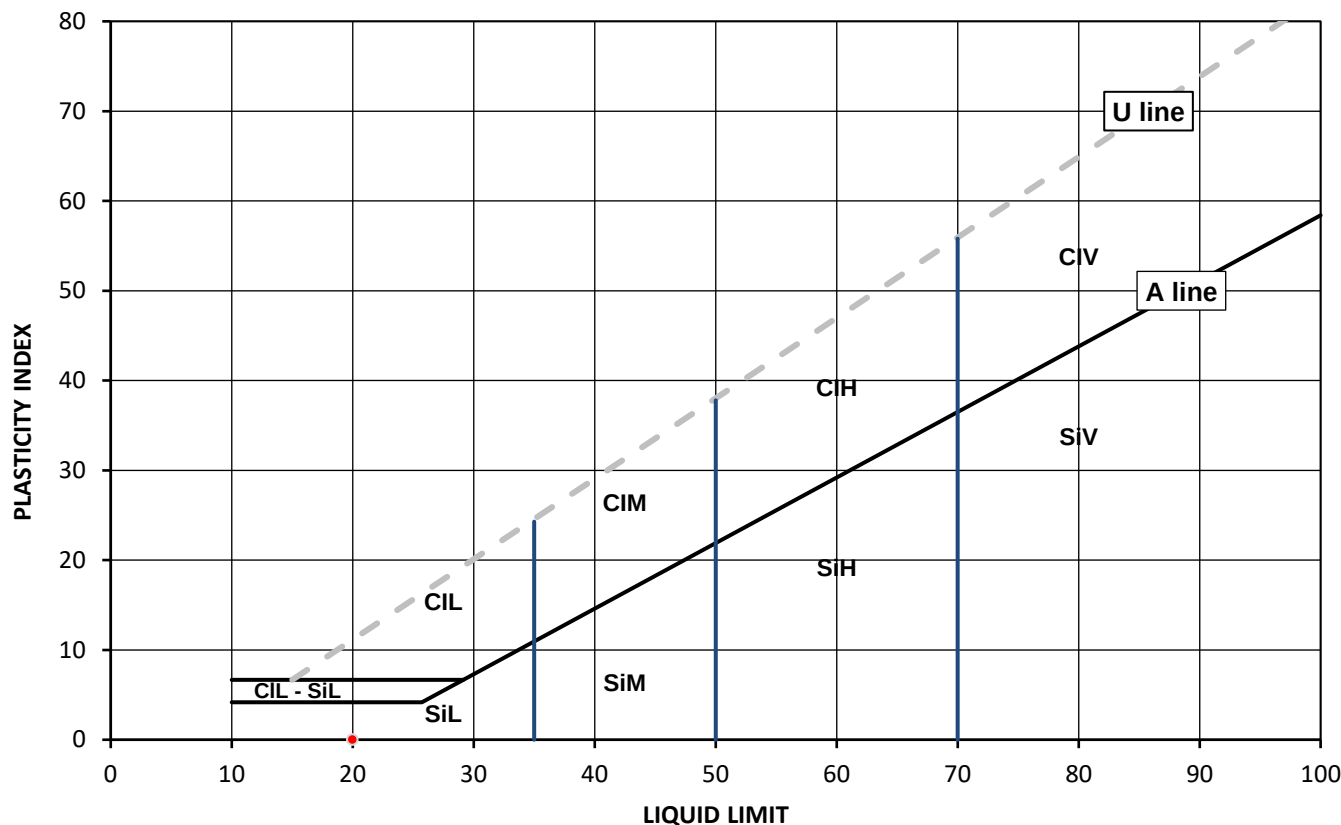
Test Results:

Laboratory Reference: 2752785
Hole No.: WS08
Sample Reference: Not Given
Sample Description: Brown SAND

Depth Top [m]: 4.50
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested in natural condition

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
8.2	20	NP	NP	100



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
		50 to 70
		exceeding 70
		append to classification for organic material (eg CIHO)

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

Remarks: Preliminary report
NP - Non plastic

Signed:

Katarzyna Koziel

Katarzyna Koziel
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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

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



Environmental Science

4041

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Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

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

Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 25/07/2023
Sampled By: Not Given

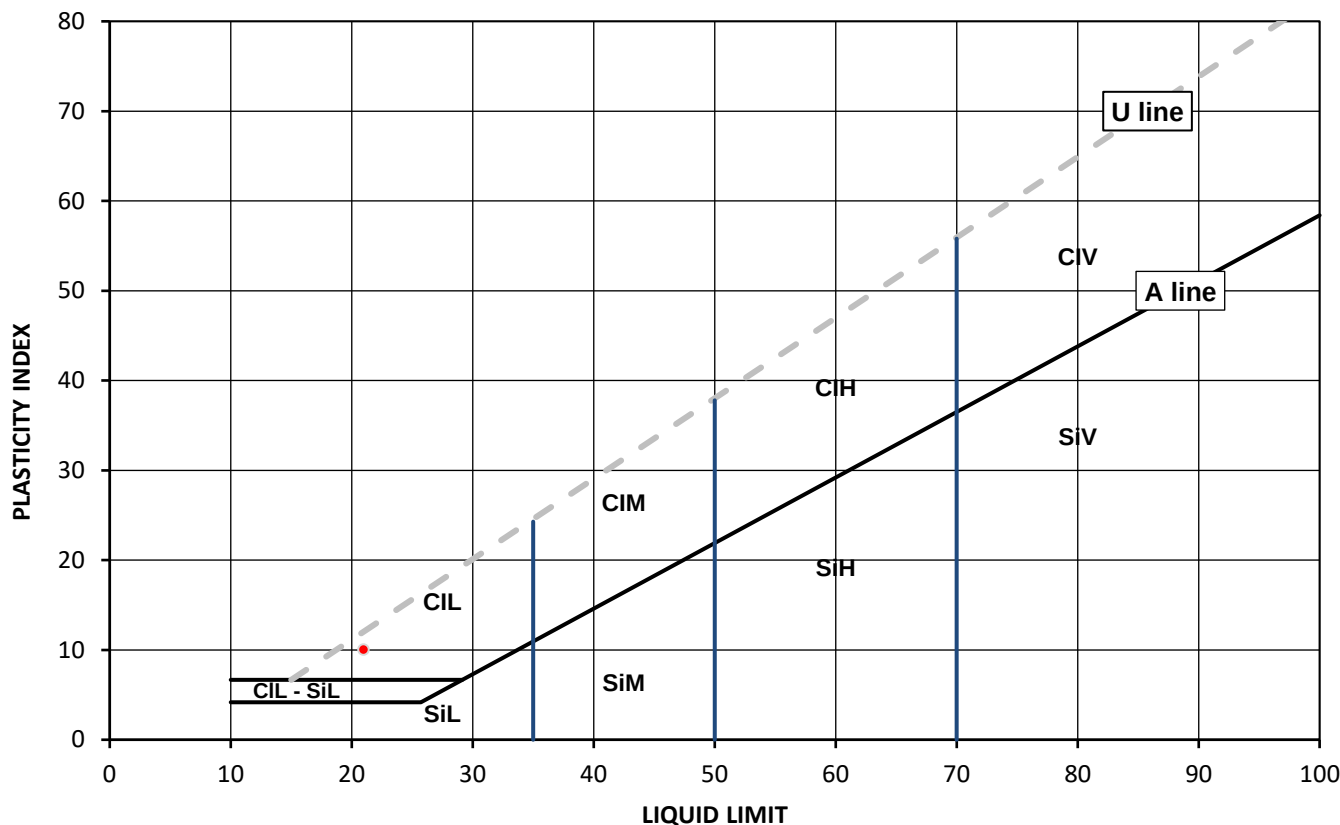
Test Results:

Laboratory Reference: 2752786
Hole No.: WS09a
Sample Reference: Not Given
Sample Description: Brown slightly gravelly clayey SAND

Depth Top [m]: 3.00
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested after >425 µm removed by hand

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
12	21	11	10	98



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
		50 to 70
		exceeding 70
		append to classification for organic material (eg CIHO)

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

Remarks: Preliminary report

Signed:

Katarzyna Koziel

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

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Northampton NN4 7EB

Environmental Science

4041

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Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

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

Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 25/07/2023
Sampled By: Not Given

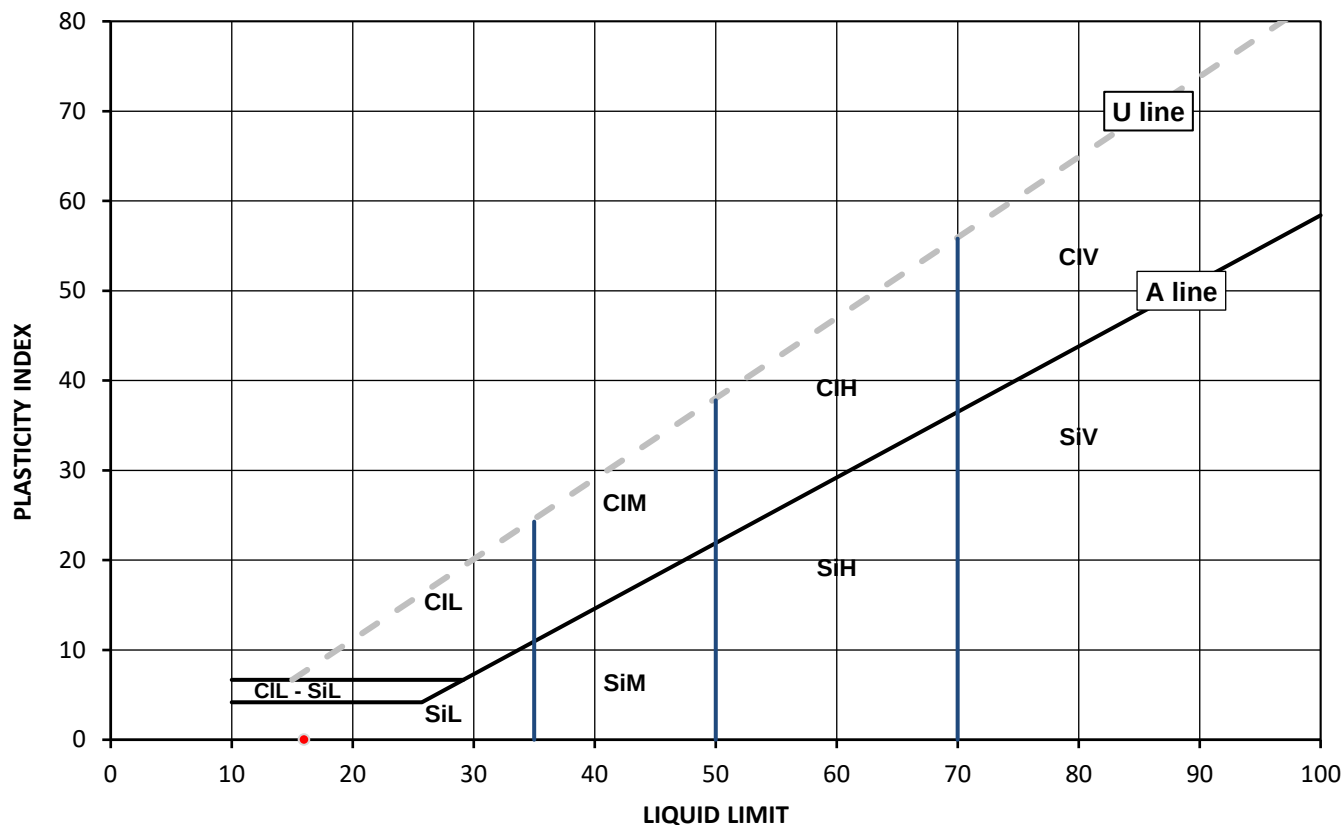
Test Results:

Laboratory Reference: 2752787
Hole No.: WS10
Sample Reference: Not Given
Sample Description: Brown slightly gravelly SAND

Depth Top [m]: 4.00
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested after >425 µm removed by hand

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
8.1	16	NP	NP	95



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

	Plasticity	Liquid Limit
Cl Clay	L Low	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: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks: Preliminary report
NP - Non plastic

Signed:

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Reporting Specialist
for and on behalf of i2 Analytical Ltd

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i2 Analytical Ltd
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Northampton NN4 7EB



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

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

Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 25/07/2023
Sampled By: Not Given

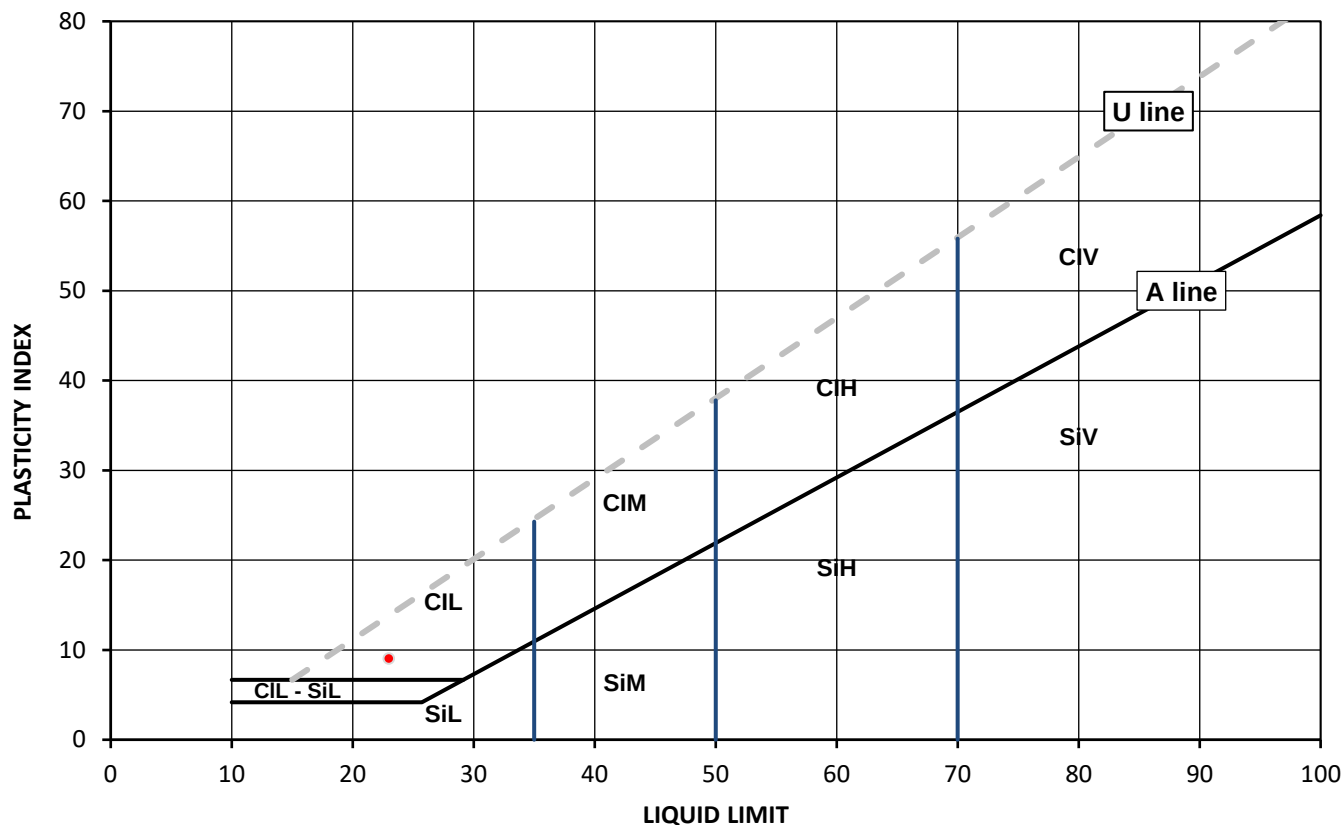
Test Results:

Laboratory Reference: 2752788
Hole No.: WS11
Sample Reference: Not Given
Sample Description: Brownish grey slightly gravelly clayey SAND

Depth Top [m]: 4.00
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested after washing to remove >425 µm

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
15	23	14	9	72



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
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

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

Remarks: Preliminary report

Signed:

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

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



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

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

Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 25/07/2023
Sampled By: Not Given

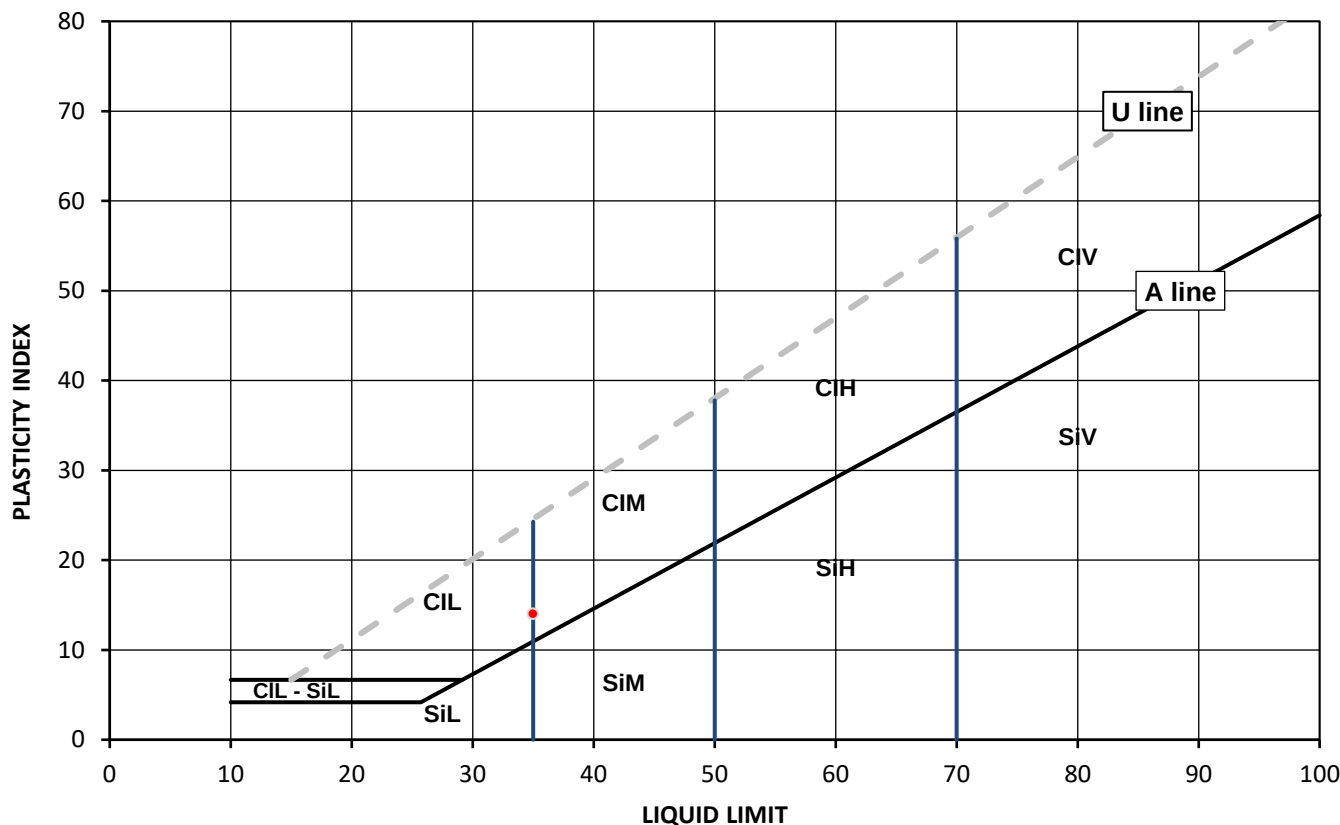
Test Results:

Laboratory Reference: 2752789
Hole No.: WS11
Sample Reference: Not Given
Sample Description: Brownish grey slightly gravelly sandy CLAY

Depth Top [m]: 5.00
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested after >425 µm removed by hand

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
38	35	21	14	78



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

	Plasticity	Liquid Limit
Cl Clay	L Low	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: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks: Preliminary report

Signed:

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SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

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



Environmental Science

4041

Client: NX Consulting

Water Content by BS 1377-2:1990: Clause 3.2
Atterberg by BS 1377-2: 1990:
Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5

Client Reference: NX406

Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Job Number: 23-45797-0

Contact: Mark Newton

Date Sampled: Not Given

Site Address: One City Road, Manchester

Date Received: 18/07/2023

Date Tested: 25/07/2023

Sampled By: Not Given

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Water Content BS 1377-2 [W] %	Water Content BS EN ISO 17892-1 [W] %	Atterberg				Density			Total Porosity# %		
		Reference	Depth Top	Depth Base	Type					% Passing 425um	WL	Wp	Ip	bulk	dry	PD			
			m	m															
2752778	RH2	Not Given	3.00	Not Given	D	Brown slightly gravelly very sandy CLAY	Atterberg 1 Point	12		98	33	15	18						
2752779	WS01	Not Given	5.00	Not Given	D	Brown slightly clayey SAND	Atterberg 1 Point	14		100	21	NP	NP						
2752780	WS02	Not Given	3.00	Not Given	D	Brown slightly gravelly clayey SAND	Atterberg 1 Point	11		98	20	13	7						
2752781	WS05	Not Given	4.00	Not Given	D	Brown slightly gravelly clayey SAND	Atterberg 1 Point	12		75	24	13	11						
2752789	WS11	Not Given	5.00	Not Given	D	Brownish grey slightly gravelly sandy CLAY	Atterberg 1 Point	38		78	35	21	14						
2752783	WS07	Not Given	3.00	Not Given	D	Brown slightly gravelly very sandy CLAY	Atterberg 1 Point	15		98	32	16	16						
2752784	WS08	Not Given	3.00	Not Given	D	Brown slightly gravelly very sandy CLAY	Atterberg 1 Point	10		96	29	13	16						
2752785	WS08	Not Given	4.50	Not Given	D	Brown SAND	Atterberg 1 Point	8.2		100	20	NP	NP						
2752786	WS09a	Not Given	3.00	Not Given	D	Brown slightly gravelly clayey SAND	Atterberg 1 Point	12		98	21	11	10						
2752787	WS10	Not Given	4.00	Not Given	D	Brown slightly gravelly SAND	Atterberg 1 Point	8.1		95	16	NP	NP						

Note: # Non accredited; NP - Non plastic

Comments: Preliminary report

Signed:

Katarzyna
Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS 1377-2: 1990: Clause 3.2

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



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

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

Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 25/07/2023
Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC	Sample preparation / Oven temperature at the time of testing			
		Reference	Depth Top m	Depth Base m	Type							
2752778	RH2	Not Given	3.00	Not Given	D	Brown slightly gravelly very sandy CLAY		12	Sample was quartered, oven dried at 108.4 °C			
2752779	WS01	Not Given	5.00	Not Given	D	Brown slightly clayey SAND		14	Sample was quartered, oven dried at 108.4 °C			
2752780	WS02	Not Given	3.00	Not Given	D	Brown slightly gravelly clayey SAND		11	Sample was quartered, oven dried at 108.4 °C			
2752781	WS05	Not Given	4.00	Not Given	D	Brown slightly gravelly clayey SAND		12	Sample was quartered, oven dried at 108.4 °C			
2752789	WS11	Not Given	5.00	Not Given	D	Brownish grey slightly gravelly sandy CLAY		38	Sample was quartered, oven dried at 108.4 °C			
2752783	WS07	Not Given	3.00	Not Given	D	Brown slightly gravelly very sandy CLAY		15	Sample was quartered, oven dried at 108.4 °C			
2752784	WS08	Not Given	3.00	Not Given	D	Brown slightly gravelly very sandy CLAY		10	Sample was quartered, oven dried at 108.4 °C			
2752785	WS08	Not Given	4.50	Not Given	D	Brown SAND		8.2	Sample was quartered, oven dried at 108.4 °C			
2752786	WS09a	Not Given	3.00	Not Given	D	Brown slightly gravelly clayey SAND		12	Sample was quartered, oven dried at 108.4 °C			
2752787	WS10	Not Given	4.00	Not Given	D	Brown slightly gravelly SAND		8.1	Sample was quartered, oven dried at 108.4 °C			

Comments: Preliminary report

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Contact: Mark Newton
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Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 25/07/2023
Sampled By: Not Given

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC	Sample preparation / Oven temperature at the time of testing			
		Reference	Depth Top m	Depth Base m	Type							
2752788	WS11	Not Given	4.00	Not Given	D	Brownish grey slightly gravelly clayey SAND		15	Sample was quartered, oven dried at 108.4 °C			

Comments: Preliminary report

Signed:

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TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

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Unit 8 Harrowden Road
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Environmental Science

4041

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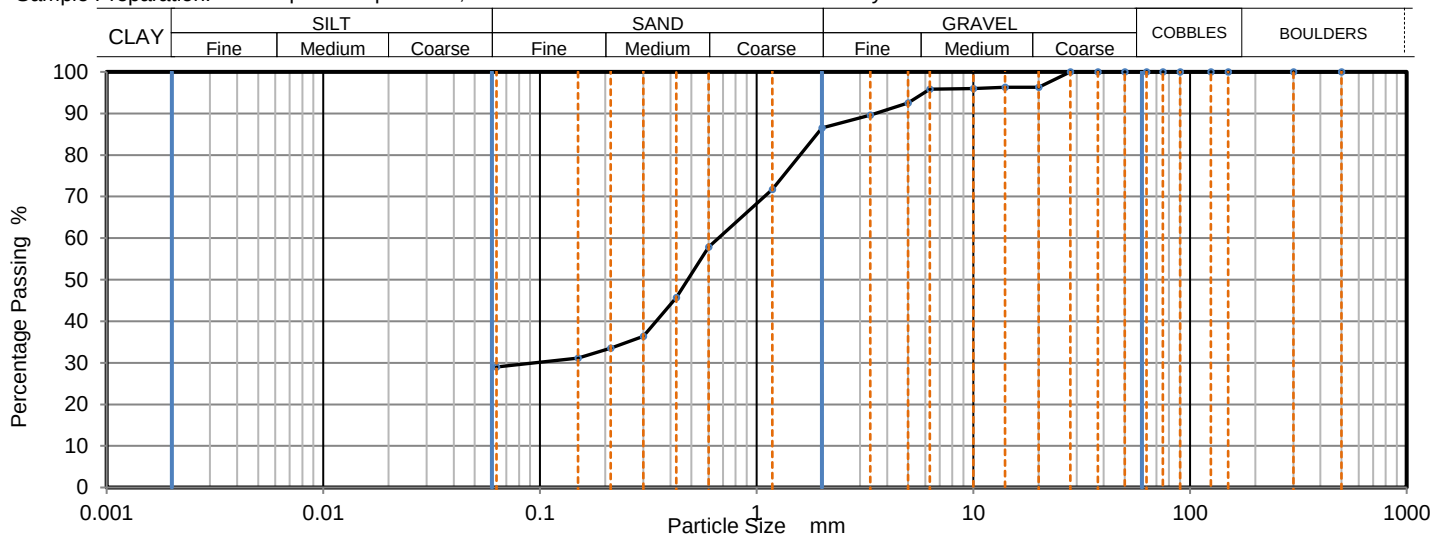
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 26/07/2023
Sampled By: Not Given

Test Results:

Laboratory Reference: 2752790
Hole No.: WS01
Sample Reference: Not Given
Sample Description: Reddish brown clayey SAND
Sample Preparation: Sample was quartered, oven dried at 108.7 °C and broken down by hand.

Depth Top [m]: 3.30
Depth Base [m]: Not Given
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	96		
14	96		
10	96		
6.3	96		
5	93		
3.35	90		
2	87		
1.18	72		
0.6	58		
0.425	46		
0.3	36		
0.212	34		
0.15	31		
0.063	30		

Sample Proportions	% dry mass
Very coarse	0
Gravel	14
Sand	57
Fines <0.063mm	30

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	> 11
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Preliminary report

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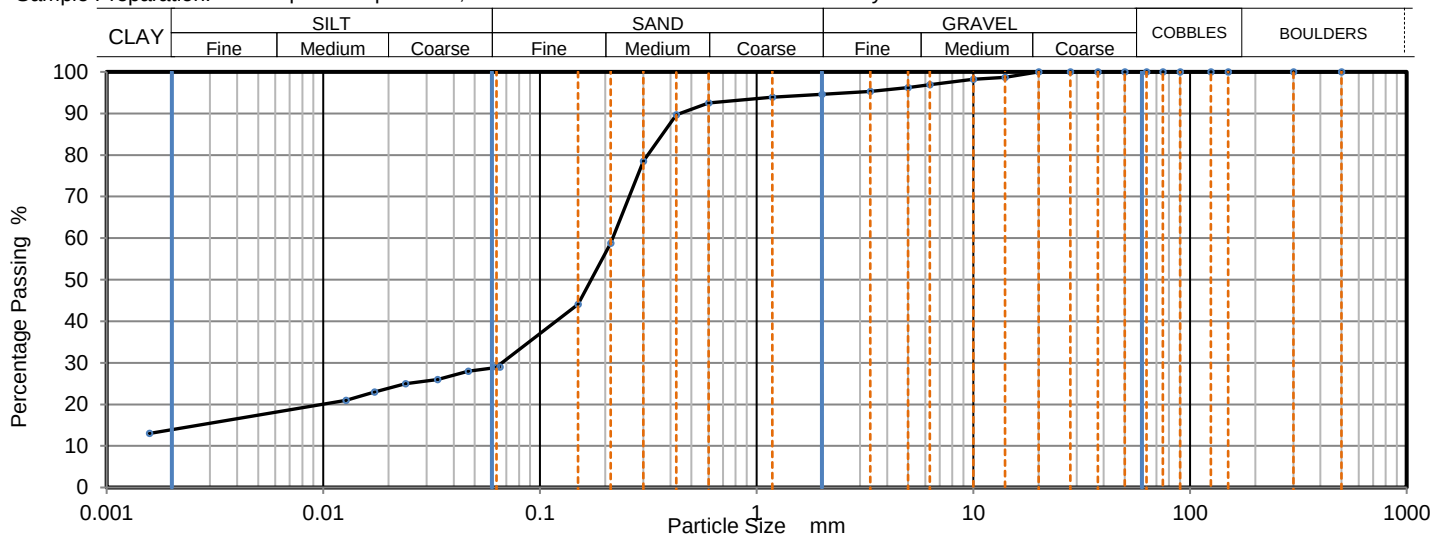
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 25/07/2023
Sampled By: Not Given

Test Results:

Laboratory Reference: 2752791
Hole No.: WS02
Sample Reference: Not Given
Sample Description: Reddish brown clayey SAND
Sample Preparation: Sample was quartered, oven dried at 108.7 °C and broken down by hand.

Depth Top [m]: 3.50
Depth Base [m]: Not Given
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0654	29
300	100	0.0466	28
150	100	0.0337	26
125	100	0.0240	25
90	100	0.0172	23
75	100	0.0127	21
63	100	0.0016	13
50	100		
37.5	100		
28	100		
20	100		
14	99		
10	98		
6.3	97		
5	96		
3.35	95	Particle density (assumed) 2.65 Mg/m3	
2	95		
1.18	94		
0.6	93		
0.425	90		
0.3	79		
0.212	59		
0.15	44		
0.063	29		

Sample Proportions	% dry mass
Very coarse	0
Gravel	5
Sand	65
Silt	16
Clay	14

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	> 140
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Preliminary report

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TEST CERTIFICATE**DETERMINATION OF PARTICLE SIZE DISTRIBUTION**

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i2 Analytical Ltd
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Brackmills Industrial Estate
Northampton NN4 7EB



Environmental Science

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

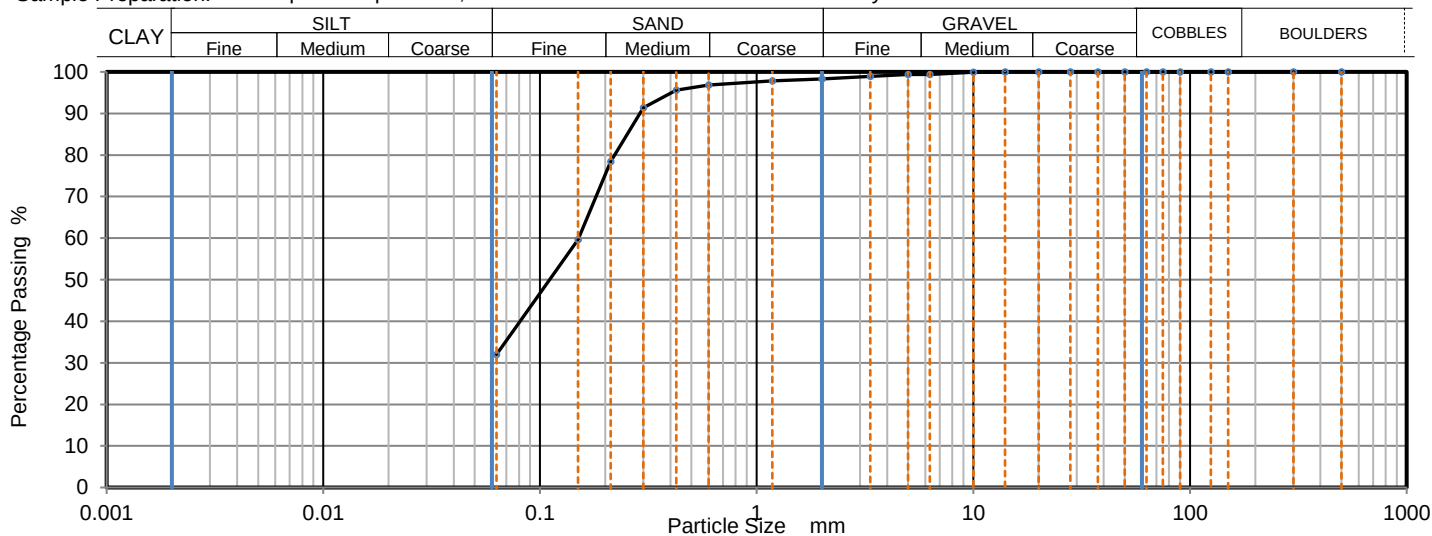
Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 25/07/2023
Sampled By: Not Given

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

Test Results:

Laboratory Reference: 2752792
Hole No.: WS05
Sample Reference: Not Given
Sample Description: Dark grey clayey SAND
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 5.10
Depth Base [m]: Not Given
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	100		
10	100		
6.3	99		
5	99		
3.35	99		
2	98		
1.18	98		
0.6	97		
0.425	96		
0.3	91		
0.212	78		
0.15	60		
0.063	33		

Sample Proportions	% dry mass
Very coarse	0
Gravel	2
Sand	66
Fines <0.063mm	33

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	> 2.4
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Preliminary report

Signed:

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Environmental Science

Client: NX Consulting
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Contact: Mark Newton
Site Address: One City Road, Manchester

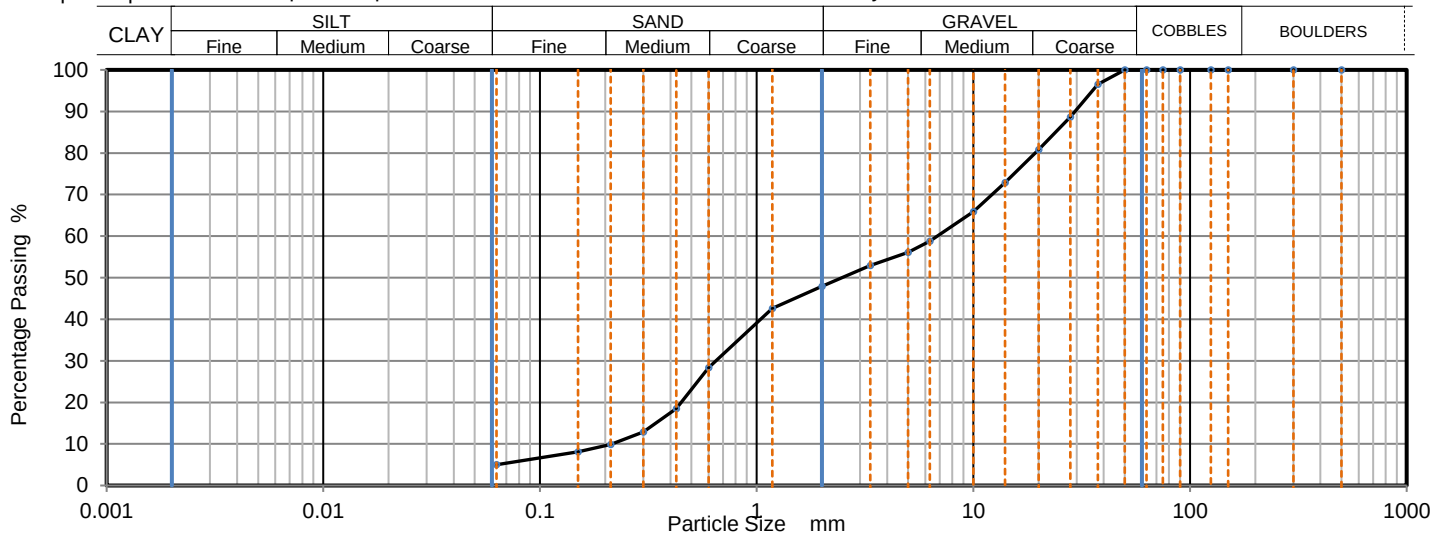
Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 25/07/2023
Sampled By: Not Given

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

Test Results:

Laboratory Reference: 2752793
Hole No.: WS07
Sample Reference: Not Given
Sample Description: Dark brown sandy GRAVEL
Sample Preparation: Sample was quartered, oven dried at 108.7 °C and broken down by hand.

Depth Top [m]: 2.10
Depth Base [m]: Not Given
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	89		
20	81		
14	73		
10	66		
6.3	59		
5	56		
3.35	53		
2	48		
1.18	43		
0.6	28		
0.425	19		
0.3	13		
0.212	10		
0.15	8		
0.063	6		

Sample Proportions	% dry mass
Very coarse	0
Gravel	52
Sand	42
Fines <0.063mm	6

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

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Preliminary report

Signed:

Katarzyna Koziel

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**TEST CERTIFICATE****DETERMINATION OF PARTICLE SIZE DISTRIBUTION**

Tested in Accordance with: BS 1377-2: 1990

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



Environmental Science

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Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

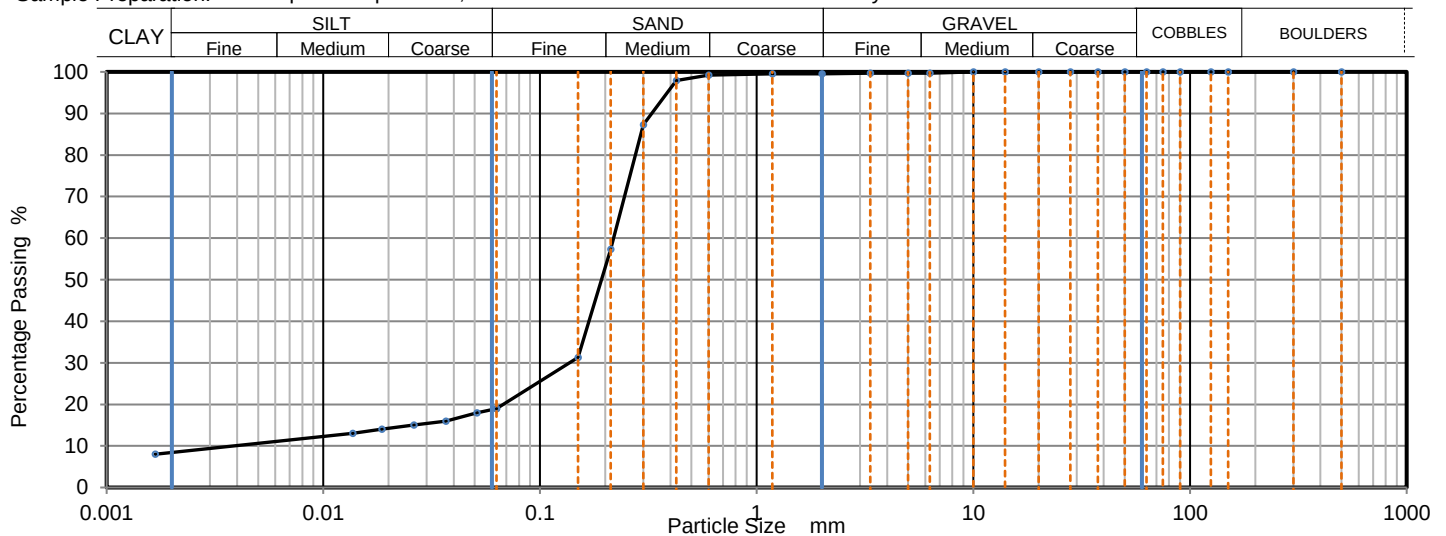
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 25/07/2023
Sampled By: Not Given

Test Results:

Laboratory Reference: 2752794
Hole No.: WS09a
Sample Reference: Not Given
Sample Description: Orangish brown clayey SAND
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 3.60
Depth Base [m]: Not Given
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0630	19
300	100	0.0511	18
150	100	0.0368	16
125	100	0.0262	15
90	100	0.0186	14
75	100	0.0137	13
63	100	0.0017	8
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100	Particle density (assumed) 2.65 Mg/m3	
2	100		
1.18	100		
0.6	99		
0.425	98		
0.3	87		
0.212	57		
0.15	31		
0.063	19		

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	81
Silt	11
Clay	8

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

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Preliminary report

Signed:

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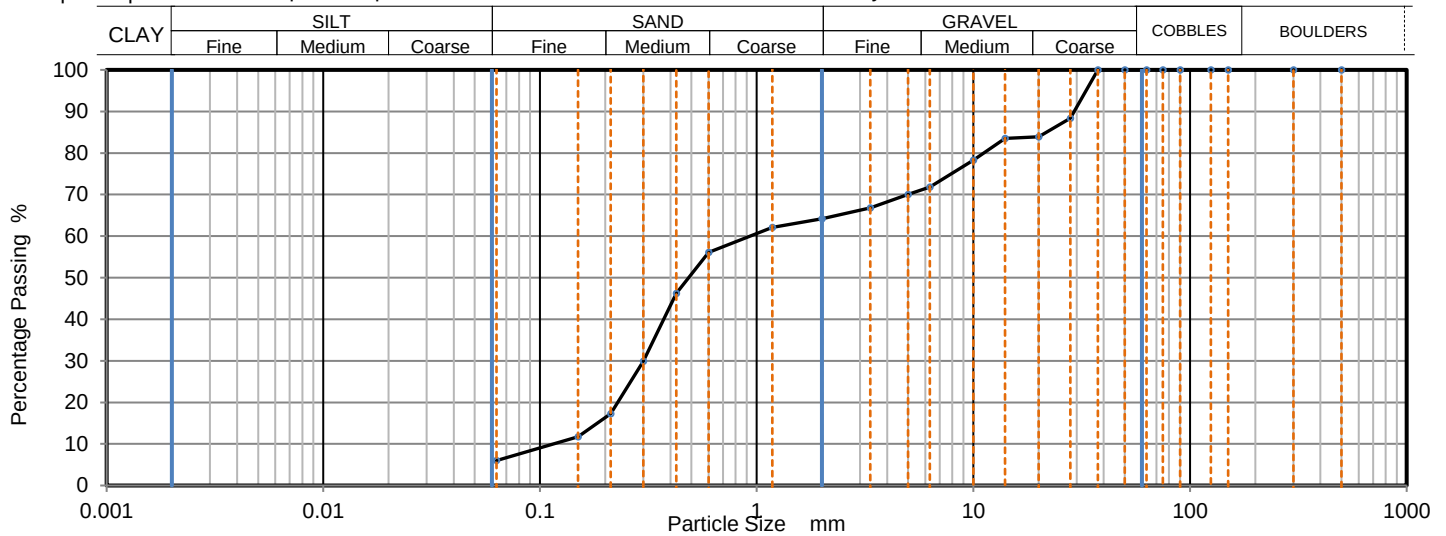
Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 25/07/2023
Sampled By: Not Given

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

Test Results:

Laboratory Reference: 2752795
Hole No.: WS10
Sample Reference: Not Given
Sample Description: Dark brown gravelly SAND
Sample Preparation: Sample was quartered, oven dried at 108.7 °C and broken down by hand.

Depth Top [m]: 1.00
Depth Base [m]: Not Given
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	88		
20	84		
14	84		
10	78		
6.3	72		
5	70		
3.35	67		
2	64		
1.18	62		
0.6	56		
0.425	46		
0.3	30		
0.212	17		
0.15	12		
0.063	7		

Sample Proportions	% dry mass
Very coarse	0
Gravel	36
Sand	58
Fines <0.063mm	6

Grading Analysis	
D100	mm 37.5
D60	mm 0.928
D30	mm 0.301
D10	mm 0.113
Uniformity Coefficient	8.2
Curvature Coefficient	0.86

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Preliminary report

Signed:

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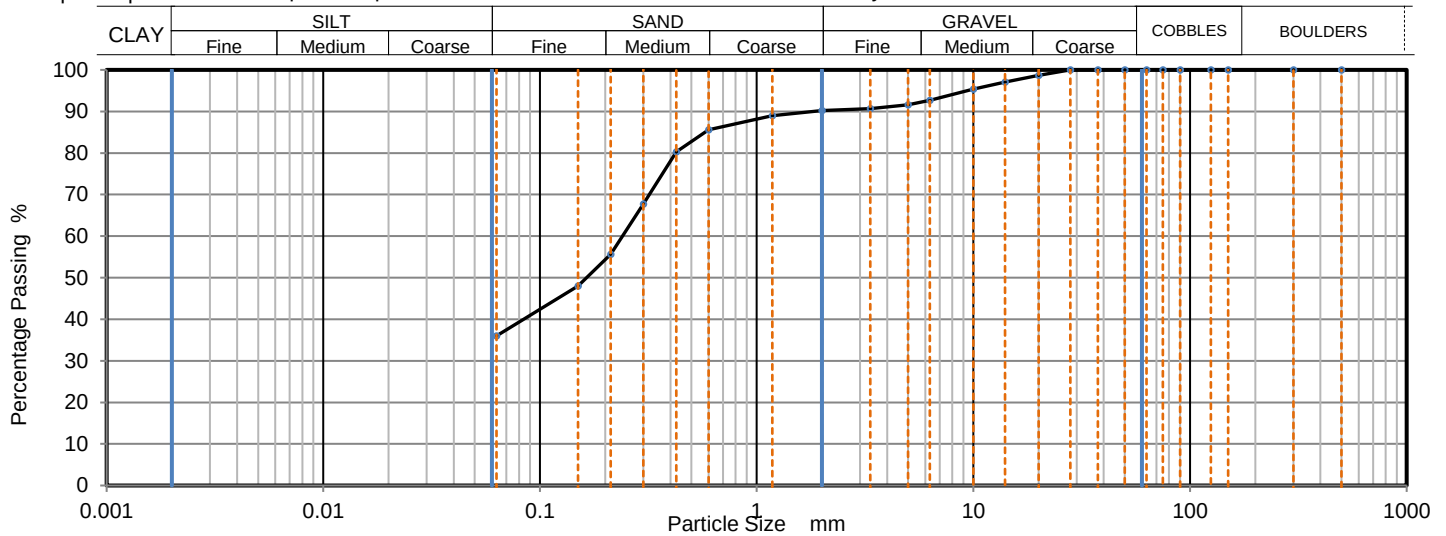
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 25/07/2023
Sampled By: Not Given

Test Results:

Laboratory Reference: 2752796
Hole No.: WS11
Sample Reference: Not Given
Sample Description: Dark brown clayey SAND
Sample Preparation: Sample was quartered, oven dried at 108.7 °C and broken down by hand.

Depth Top [m]: 4.10
Depth Base [m]: Not Given
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	99		
14	97		
10	95		
6.3	93		
5	92		
3.35	91		
2	90		
1.18	89		
0.6	86		
0.425	80		
0.3	68		
0.212	56		
0.15	48		
0.063	36		

Sample Proportions	% dry mass
Very coarse	0
Gravel	10
Sand	54
Fines <0.063mm	36

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	> 3.8
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Preliminary report

Signed:

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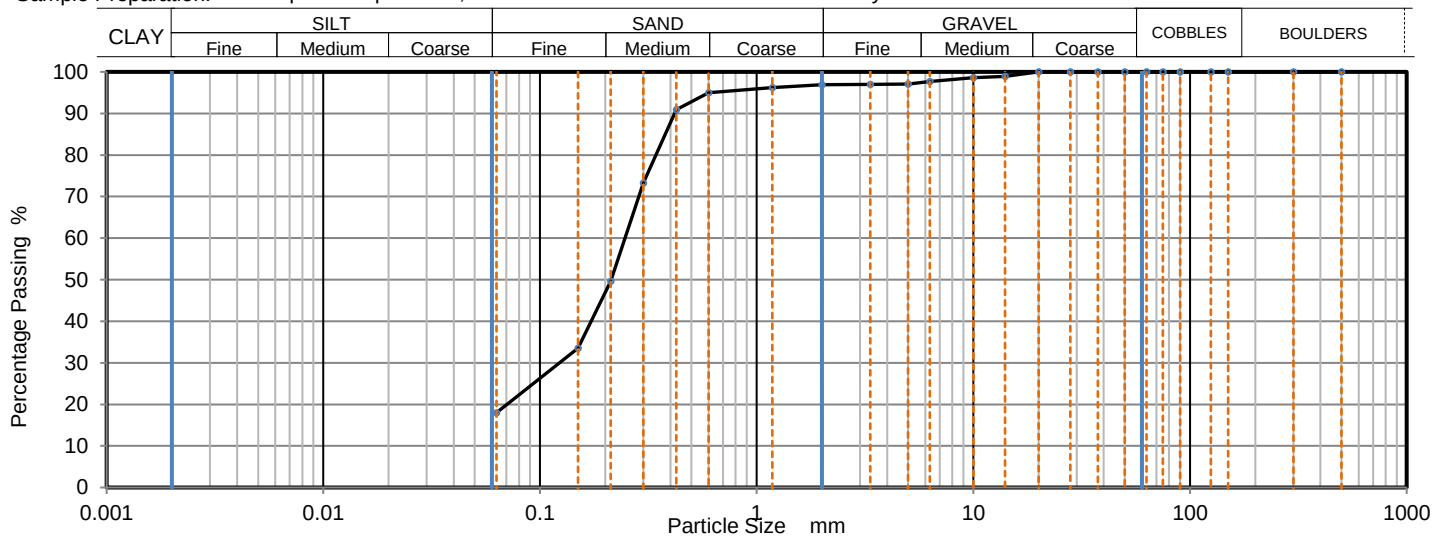
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 25/07/2023
Sampled By: Not Given

Test Results:

Laboratory Reference: 2752797
Hole No.: TP01
Sample Reference: Not Given
Sample Description: Reddish brown clayey SAND
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 0.70
Depth Base [m]: Not Given
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	99		
6.3	98		
5	97		
3.35	97		
2	97		
1.18	96		
0.6	95		
0.425	91		
0.3	73		
0.212	50		
0.15	34		
0.063	19		

Sample Proportions	% dry mass
Very coarse	0
Gravel	3
Sand	78
Fines <0.063mm	19

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	> 3.9
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Preliminary report

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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4041

TEST CERTIFICATE**DETERMINATION OF PARTICLE SIZE DISTRIBUTION**

Tested in Accordance with: BS 1377-2: 1990

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



Environmental Science

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

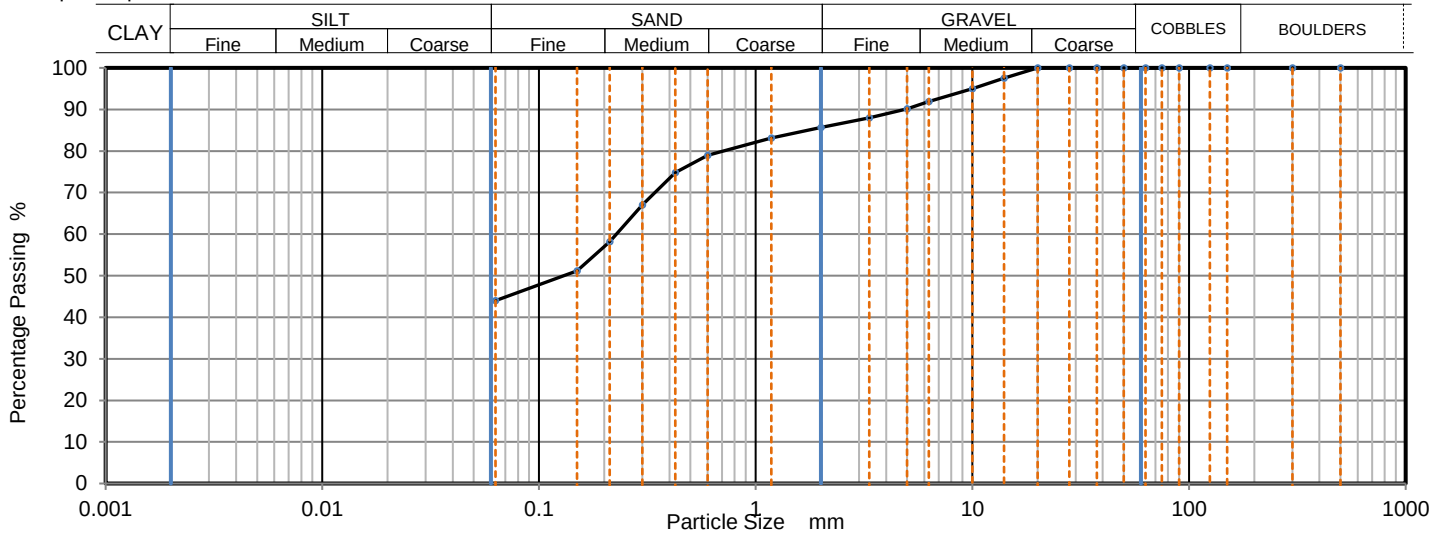
Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 25/07/2023
Sampled By: Not Given

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

Test Results:

Laboratory Reference: 2752798
Hole No.: TP01
Sample Reference: Not Given
Sample Description: Reddish brown sandy CLAY
Sample Preparation: Sample was quartered, oven dried at 108.7 °C and broken down by hand.

Depth Top [m]: 1.80
Depth Base [m]: Not Given
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	98		
10	95		
6.3	92		
5	90		
3.35	88		
2	86		
1.18	83		
0.6	79		
0.425	75		
0.3	67		
0.212	58		
0.15	51		
0.063	44		

Sample Proportions	% dry mass
Very coarse	0
Gravel	14
Sand	42
Fines <0.063mm	44

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	> 3.6
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Preliminary report

Signed:

Katarzyna Koziel

Katarzyna Koziel
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TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

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



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

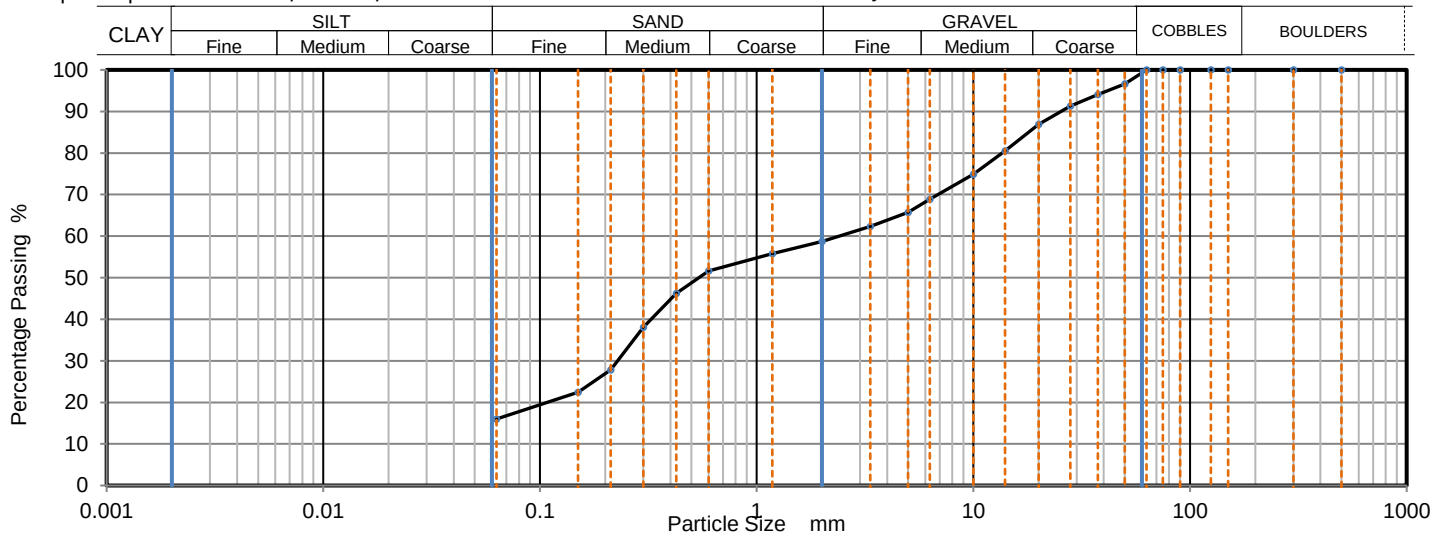
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 29/07/2023
Sampled By: Not Given

Test Results:

Laboratory Reference: 2752799
Hole No.: TP02
Sample Reference: Not Given
Sample Description: Brown gravelly clayey SAND
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 0.30
Depth Base [m]: Not Given
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	97		
37.5	94		
28	91		
20	87		
14	81		
10	75		
6.3	69		
5	66		
3.35	62		
2	59		
1.18	56		
0.6	52		
0.425	46		
0.3	38		
0.212	28		
0.15	22		
0.063	17		

Sample Proportions	% dry mass
Very coarse	0
Gravel	41
Sand	42
Fines <0.063mm	17

Grading Analysis	
D100	mm 63
D60	mm 2.41
D30	mm 0.229
D10	mm
Uniformity Coefficient	> 38
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Preliminary report

Signed:

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**TEST CERTIFICATE****DETERMINATION OF PARTICLE SIZE DISTRIBUTION**

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Contact: Mark Newton
Site Address: One City Road, Manchester

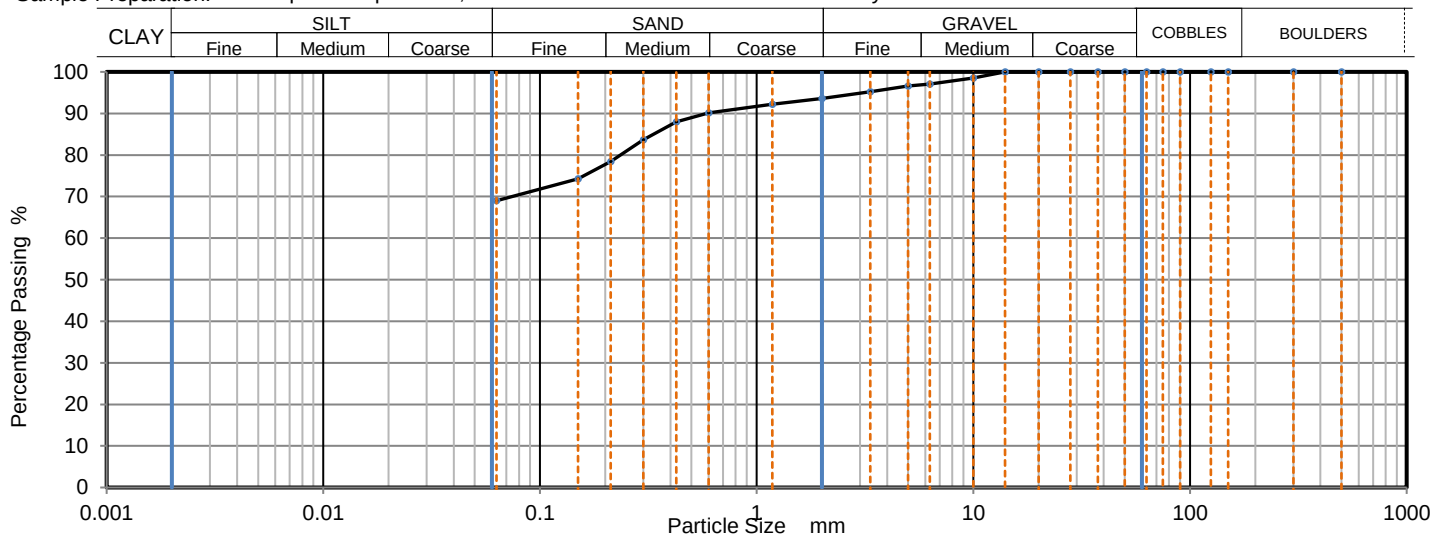
Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 25/07/2023
Sampled By: Not Given

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

Test Results:

Laboratory Reference: 2752800
Hole No.: TP03
Sample Reference: Not Given
Sample Description: Dark brown sandy CLAY
Sample Preparation: Sample was quartered, oven dried at 108.7 °C and broken down by hand.

Depth Top [m]: 1.50
Depth Base [m]: Not Given
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	100		
10	99		
6.3	97		
5	97		
3.35	95		
2	94		
1.18	92		
0.6	90		
0.425	88		
0.3	84		
0.212	78		
0.15	74		
0.063	69		

Sample Proportions	% dry mass
Very coarse	0
Gravel	6
Sand	24
Fines <0.063mm	69

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	N/A
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Preliminary report

Signed:

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TEST CERTIFICATE**DETERMINATION OF PARTICLE SIZE DISTRIBUTION**

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Contact: Mark Newton
Site Address: One City Road, Manchester

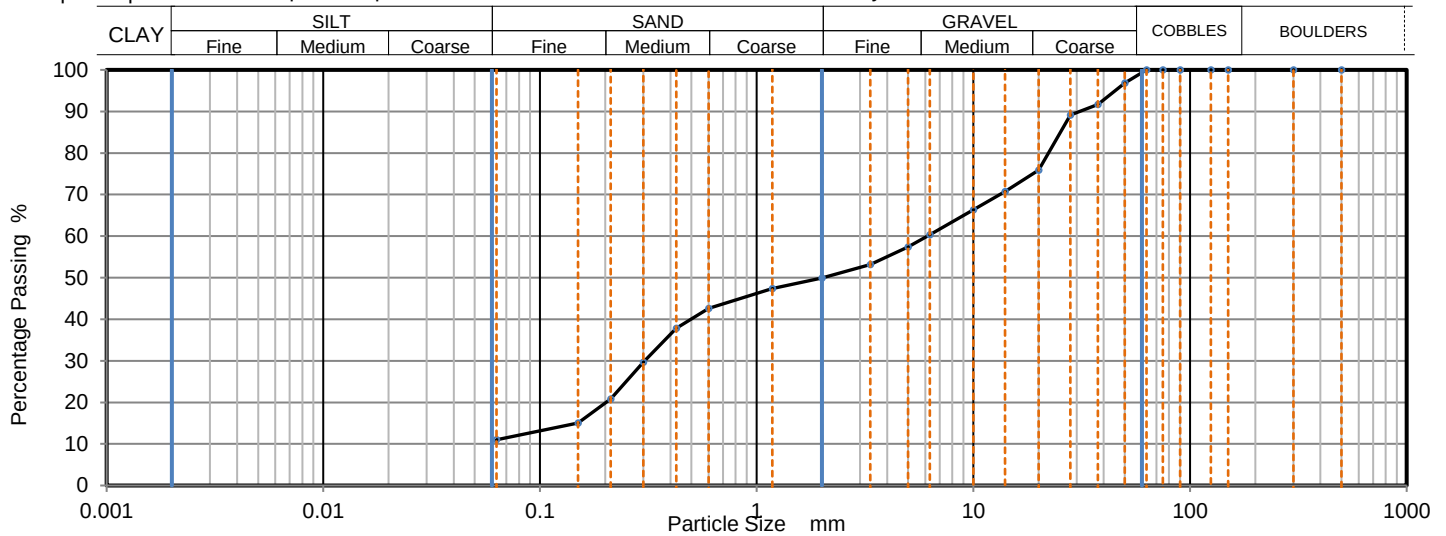
Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 25/07/2023
Sampled By: Not Given

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

Test Results:

Laboratory Reference: 2752801
Hole No.: TP04
Sample Reference: Not Given
Sample Description: Dark brown sandy GRAVEL
Sample Preparation: Sample was quartered, oven dried at 108.7 °C and broken down by hand.

Depth Top [m]: 2.80
Depth Base [m]: Not Given
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	97		
37.5	92		
28	89		
20	76		
14	71		
10	66		
6.3	60		
5	57		
3.35	53		
2	50		
1.18	47		
0.6	43		
0.425	38		
0.3	30		
0.212	21		
0.15	15		
0.063	12		

Sample Proportions	% dry mass
Very coarse	0
Gravel	50
Sand	38
Fines <0.063mm	12

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	> 97
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Preliminary report

Signed:

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**TEST CERTIFICATE****DETERMINATION OF PARTICLE SIZE DISTRIBUTION**

Tested in Accordance with: BS 1377-2: 1990

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



Environmental Science

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

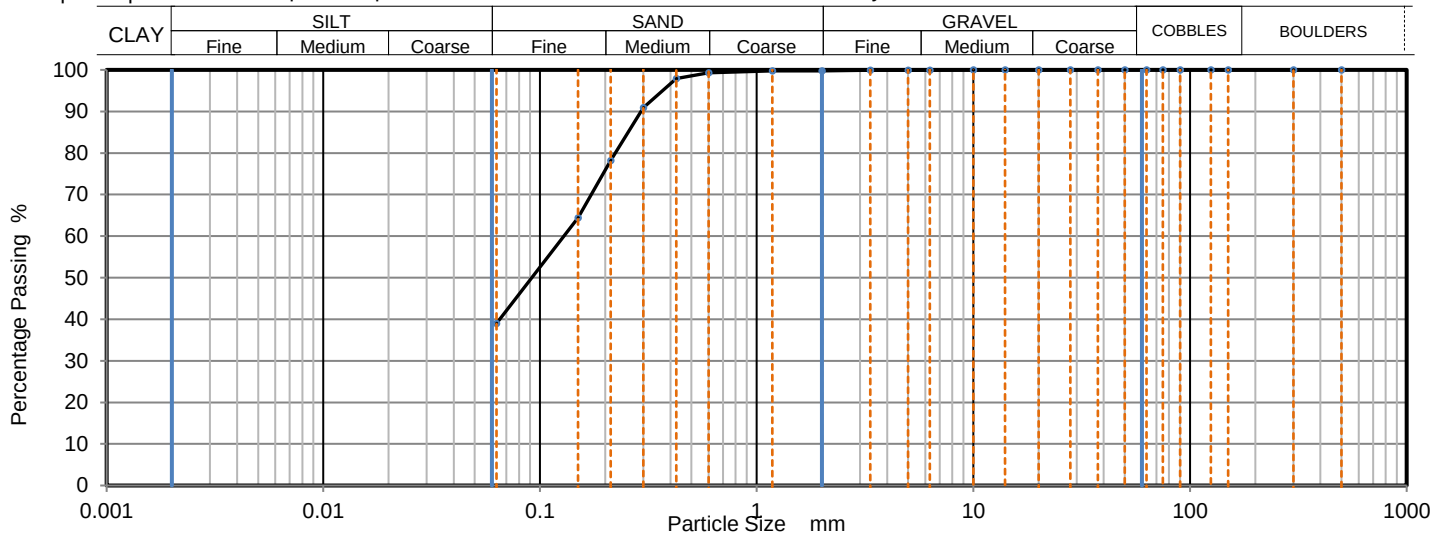
Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 25/07/2023
Sampled By: Not Given

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

Test Results:

Laboratory Reference: 2752802
Hole No.: TP05
Sample Reference: Not Given
Sample Description: Yellowish brown clayey SAND
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 1.60
Depth Base [m]: Not Given
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	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	99		
0.425	98		
0.3	91		
0.212	78		
0.15	64		
0.063	40		

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	60
Fines <0.063mm	39

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	> 2
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Preliminary report

Signed:

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TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

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i2 Analytical Ltd
Unit 8 Harrowden Road
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Northampton NN4 7EB



Environmental Science

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Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

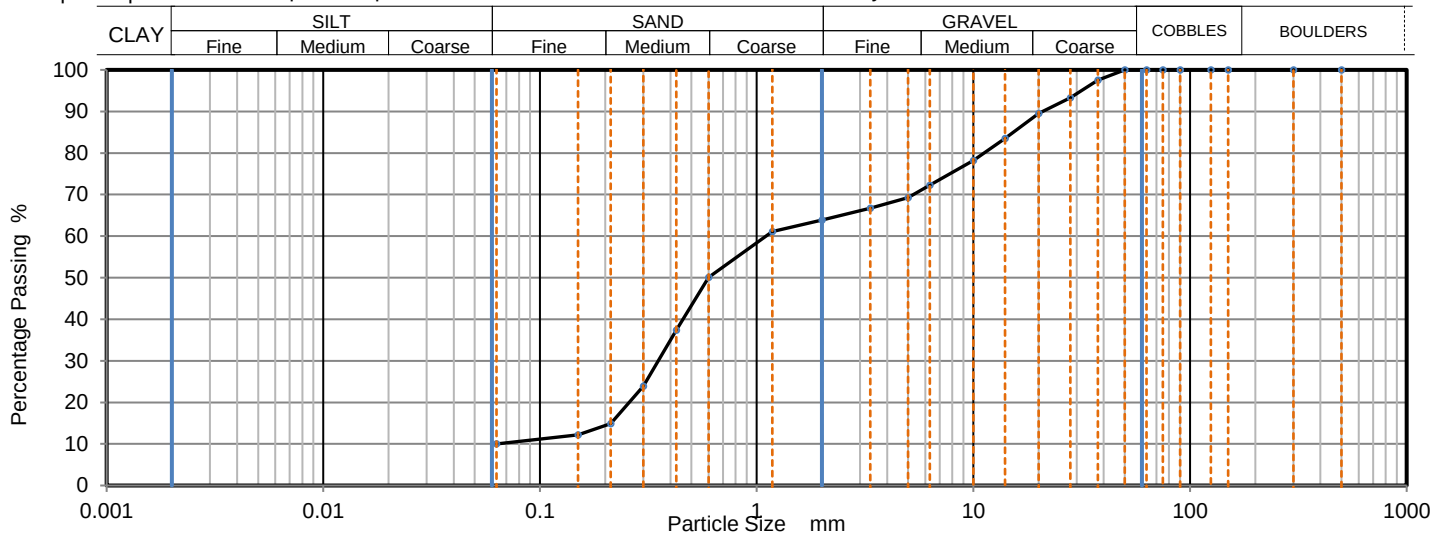
Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 26/07/2023
Sampled By: Not Given

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

Test Results:

Laboratory Reference: 2752803
Hole No.: TP06
Sample Reference: Not Given
Sample Description: Dark brown gravelly SAND
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 1.50
Depth Base [m]: Not Given
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	93		
20	90		
14	84		
10	78		
6.3	72		
5	69		
3.35	67		
2	64		
1.18	61		
0.6	50		
0.425	37		
0.3	24		
0.212	15		
0.15	12		
0.063	10		

Sample Proportions	% dry mass
Very coarse	0
Gravel	36
Sand	53
Fines <0.063mm	10

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	> 17
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Preliminary report

Signed:

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TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

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



Environmental Science

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Contact: Mark Newton
Site Address: One City Road, Manchester

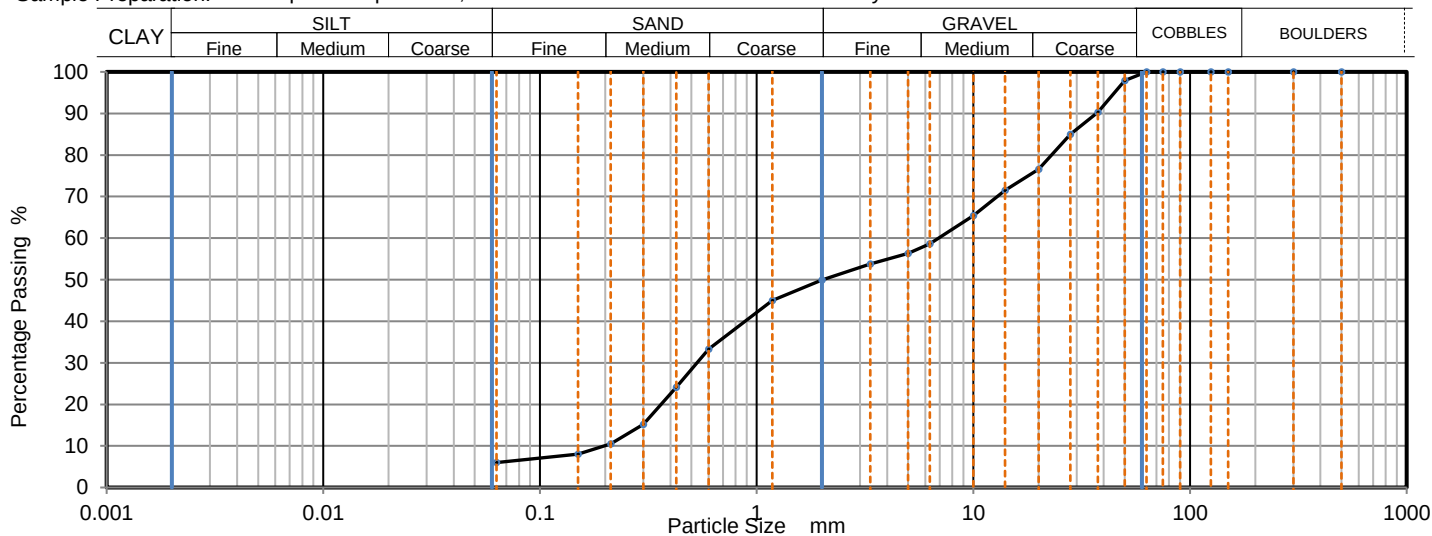
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 29/07/2023
Sampled By: Not Given

Test Results:

Laboratory Reference: 2752804
Hole No.: TP07
Sample Reference: Not Given
Sample Description: Brown sandy GRAVEL
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 0.60
Depth Base [m]: Not Given
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	98		
37.5	90		
28	85		
20	77		
14	72		
10	65		
6.3	59		
5	56		
3.35	54		
2	50		
1.18	45		
0.6	33		
0.425	24		
0.3	15		
0.212	11		
0.15	8		
0.063	6		

Sample Proportions	% dry mass
Very coarse	0
Gravel	50
Sand	44
Fines <0.063mm	6

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

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Preliminary report

Signed:

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SUMMARY REPORT

DETERMINATION OF POINT LOAD STRENGTH

Tested in Accordance with: ISRM: 2007, pages 125-132

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



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

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

Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 02/08/2023
Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks # (including water content if measured)	Specimen Reference	Test Type see ISRM		Failure Valid (Y/N)	Dimensions				Force P kN	Equivalent diameter, De mm	Point Load Strength Index	
		Reference	Depth Top m	Depth Base m	Type				Type (D, A, I, B)	Direction (L, P or U)		Lne mm	W mm	Dps mm	Dps' mm			Is MPa	Is(50) MPa
2752755	RBH01	Not Given	7.75	7.95	C	Brown SANDSTONE	WC = 11.9%	1	A	U	YES	-	75.4	56.0	52.0	1.4	70.7	0.27	0.32
2752756	RBH01	Not Given	8.20	8.30	C	Brown SANDSTONE	WC = 10.6%	1	A	U	YES	-	75.5	59.0	53.0	0.9	71.4	0.17	0.20
2752757	RBH01	Not Given	9.20	9.40	C	Brown SANDSTONE	WC = 12.4%	1	A	U	YES	-	75.9	71.0	66.0	1.4	79.9	0.21	0.26
2752758	RBH01	Not Given	12.50	12.65	C	Brown SANDSTONE	WC = 14.0%	1	A	U	YES	-	75.5	66.0	61.0	0.8	76.6	0.14	0.17
2752759	RBH01	Not Given	13.55	13.65	C	Brown to yellowish brown SANDSTONE	WC = 12.8%	1	A	U	YES	-	74.4	73.0	59.0	0.6	74.8	0.11	0.13
2752760	RBH01	Not Given	14.60	14.75	C	Brown SANDSTONE	WC = 12.3%	1	A	U	YES	-	75.4	62.0	48.0	1.2	67.9	0.25	0.29
2752764	RBH01	Not Given	21.20	21.45	C	Brown SANDSTONE	WC = 8.4%	1	A	U	YES	-	75.3	64.0	57.0	2.0	73.9	0.37	0.44
2752765	RBH02	Not Given	7.00	7.10	C	Brown SANDSTONE	WC = 11.1%	1	A	U	YES	-	73.1	55.0	51.0	0.7	68.9	0.15	0.17
2752766	RBH02	Not Given	7.70	7.80	C	Brown SANDSTONE	WC = 10.9%	1	A	U	YES	-	75.4	62.0	49.0	1.3	68.6	0.28	0.32
2752767	RBH02	Not Given	8.00	8.20	C	Brown SANDSTONE	WC = 10.7%	1	A	U	YES	-	75.3	52.0	47.0	1.6	67.1	0.34	0.39

Note: # non accredited; Test Type: D - Diametral, A - Axial, I - Irregular Lump, B - Block; Direction: L - parallel to planes of weakness, P - perpendicular to planes of weakness, U - unknown or random;
Dimensions: Dps - Distance between platens (platen separation), Dps' - at failure (see ISRM note 6), Lne - Length from platens to nearest free end W - Width of shortest dimension perpendicular to load, P;
Detailed legend for test and dimensions, based on ISRM, is shown above; Size factor, F = (De/50)0.45 for all tests

Equipment No.: i2 4341 Calibration Date: 14/03/2023 - 14/03/2024

Comments: Preliminary report

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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SUMMARY REPORT

DETERMINATION OF POINT LOAD STRENGTH

Tested in Accordance with: ISRM: 2007, pages 125-132

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



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

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

Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 02/08/2023
Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks # (including water content if measured)	Specimen Reference	Test Type see ISRM		Failure Valid (Y/N)	Dimensions				Force P kN	Equivalent diameter, De mm	Point Load Strength Index	
		Reference	Depth Top m	Depth Base m	Type				Type (D, A, I, B)	Direction (L, P or U)		Lne mm	W mm	Dps mm	Dps' mm			Is MPa	Is(50) MPa
2752768	RBH02	Not Given	8.60	8.70	C	Brown SANDSTONE	WC = 11.3%	1	A	U	YES	-	74.9	72.0	63.0	1.9	77.5	0.31	0.37
2752769	RBH02	Not Given	10.60	10.70	C	Brown SANDSTONE	WC = 11.3%	1	A	U	YES	-	75.3	61.0	46.0	1.4	66.4	0.31	0.35
2752770	RBH02	Not Given	11.40	11.50	C	Brown SANDSTONE	WC = 10.5%	1	A	U	YES	-	75.0	63.0	57.0	1.0	73.8	0.17	0.21
2752771	RBH02	Not Given	12.40	12.50	C	Brown SANDSTONE	WC = 7.7%	1	A	U	YES	-	75.2	61.0	54.0	1.6	71.9	0.30	0.35
2752772	RBH02	Not Given	13.10	13.20	C	Brown SANDSTONE	WC = 10.0%	1	A	U	YES	-	74.3	69.0	58.0	1.0	74.1	0.18	0.22
2752774	RBH02	Not Given	16.00	16.20	C	Brown SANDSTONE	WC = 9.9%	1	A	U	YES	-	75.9	71.0	52.0	2.0	70.9	0.40	0.47
2752775	RBH02	Not Given	16.50	16.70	C	Brown SANDSTONE	WC = 9.8%	1	A	U	YES	-	74.3	56.0	49.0	2.1	68.1	0.45	0.52
2752777	RBH02	Not Given	20.10	20.30	C	Brown SANDSTONE	WC = 10.1%	1	A	U	YES	-	75.9	61.0	57.0	1.6	74.2	0.29	0.35

Note: # non accredited; Test Type: D - Diametral, A - Axial, I - Irregular Lump, B - Block; Direction: L - parallel to planes of weakness, P - perpendicular to planes of weakness, U - unknown or random;
Dimensions: Dps - Distance between platens (platen separation), Dps' - at failure (see ISRM note 6), Lne - Length from platens to nearest free end W - Width of shortest dimension perpendicular to load, P;
Detailed legend for test and dimensions, based on ISRM, is shown above; Size factor, F = (De/50)0.45 for all tests

Equipment No.: i2 4341 Calibration Date: 14/03/2023 - 14/03/2024

Comments: Preliminary report

Signed:

Katarzyna
Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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SUMMARY REPORT

DETERMINATION OF UNIAXIAL COMPRESSIVE STRENGTH OF ROCK MATERIALS

Tested in Accordance with: ISRM, 2007, p153, part 1

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



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

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

Client Reference: NX406
Job Number: 23-45797-0
Date Sampled: Not Given
Date Received: 18/07/2023
Date Tested: 02/08/2023
Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Specimen Dimensions (2)				Bulk density (2)	Water Content (1)	Uniaxial Compression (3)			
		Reference	Depth Top	Depth Base	Type			Diameter	Length	H/D	Orientation of sample			Condition	Stress Rate	Mode of failure	UCS
			m	m													
2752754	RBH01	Not Given	7.50	7.75	C	Brown SANDSTONE		75.7	192.1	2.5	Vertical	2.13	11.8	as received	0.0222	S + AC	10.7
2752761	RBH01	Not Given	17.50	17.80	C	Brown SANDSTONE		75.5	209.5	2.8	Vertical	0.22	11.0	as received	0.0223	S + AC	13.4
2752762	RBH01	Not Given	18.65	18.90	C	Brown SANDSTONE		75.7	214.7	2.8	Vertical	2.17	11.2	as received	0.0222	S + AC	12.8
2752763	RBH01	Not Given	19.90	20.15	C	Brown SANDSTONE	Duration of test exceeded time specified in ISRM method, 2007, p153, part1.	75.5	204.9	2.7	Vertical	2.13	10.4	as received	0.0224	S + AC	13.6
2752773	RBH02	Not Given	14.40	14.70	C	Brown SANDSTONE		75.7	192.0	2.5	Vertical	2.22	11.2	as received	0.0222	S + AC	17.5
2752776	RBH02	Not Given	18.40	18.73	C	Brown SANDSTONE		75.7	192.0	2.5	Vertical	2.22	11.2	as received	0.0222	S + AC	17.5

Note: 1 - ISRM p87 test 1, water content at 105 ± 3 °C - not accredited, specimen as tested for UCS, 2 - ISRM p86 clause (vii), Caliper method used for determination of bulk volume and derivation of bulk density, 3 - ISRM p153 part 1, determination of Uniaxial Compressive Strength (UCS) of Rock Materials, above notes apply unless annotated otherwise in the remarks. Compaction machine: VJ Tech AUTOCON - VJT 51-3011; Mode of failure legend: S - Single shear, MS - multiple shear, AC - Axial cleavage, F - Fragmented

Comments: Preliminary report

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

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



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

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

Client Reference: Not Given
Job Number: 23-48007-1
Date Sampled: Not Given
Date Received: 28/07/2023
Date Tested: 09/08/2023
Sampled By: Not Given

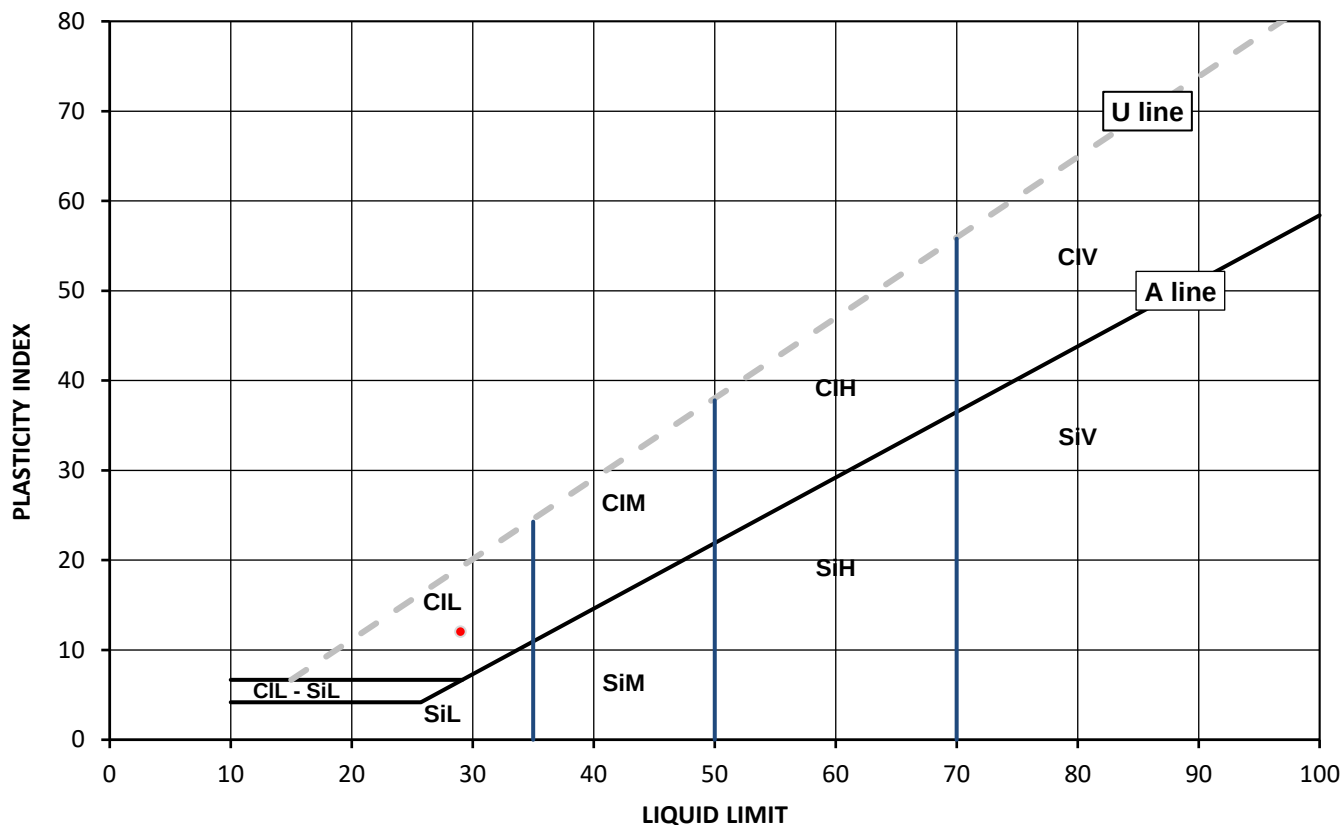
Test Results:

Laboratory Reference: 2765442
Hole No.: BH1
Sample Reference: Not Given
Sample Description: Brownish grey slightly gravelly very sandy CLAY

Depth Top [m]: 4.00
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested after >425 µm removed by hand

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
25	29	17	12	99



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	
	V Very high	
	O Organic	append to classification for organic material (eg CIHO)

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

Remarks:

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

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



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

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

Client Reference: Not Given
Job Number: 23-48007-1
Date Sampled: Not Given
Date Received: 28/07/2023
Date Tested: 09/08/2023
Sampled By: Not Given

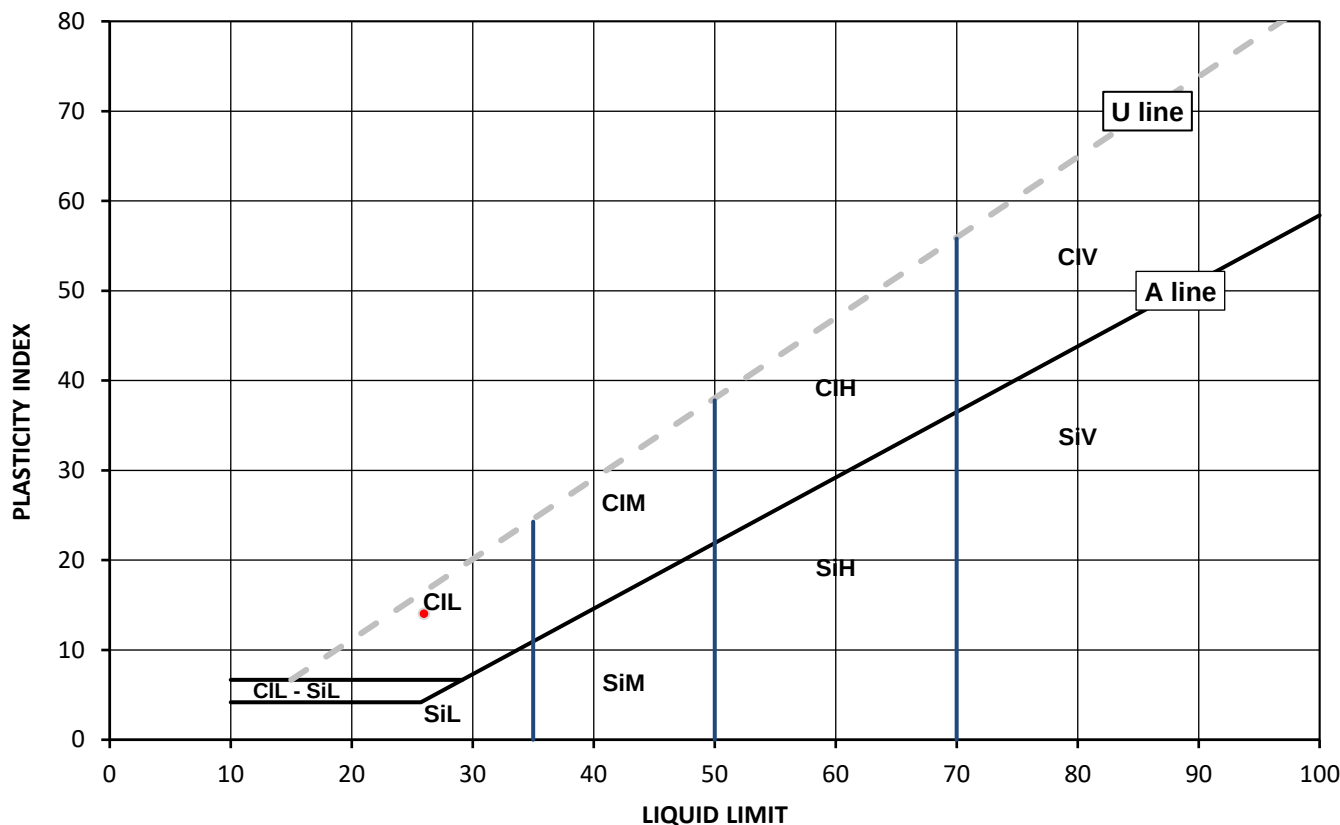
Test Results:

Laboratory Reference: 2765443
Hole No.: BH2
Sample Reference: Not Given
Sample Description: Brownish grey slightly gravelly very sandy CLAY

Depth Top [m]: 4.00
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested after >425 µm removed by hand

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
10	26	12	14	96



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

	Plasticity	Liquid Limit
Cl Clay	L Low	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: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

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



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

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

Client Reference: Not Given
Job Number: 23-48007-1
Date Sampled: Not Given
Date Received: 28/07/2023
Date Tested: 09/08/2023
Sampled By: Not Given

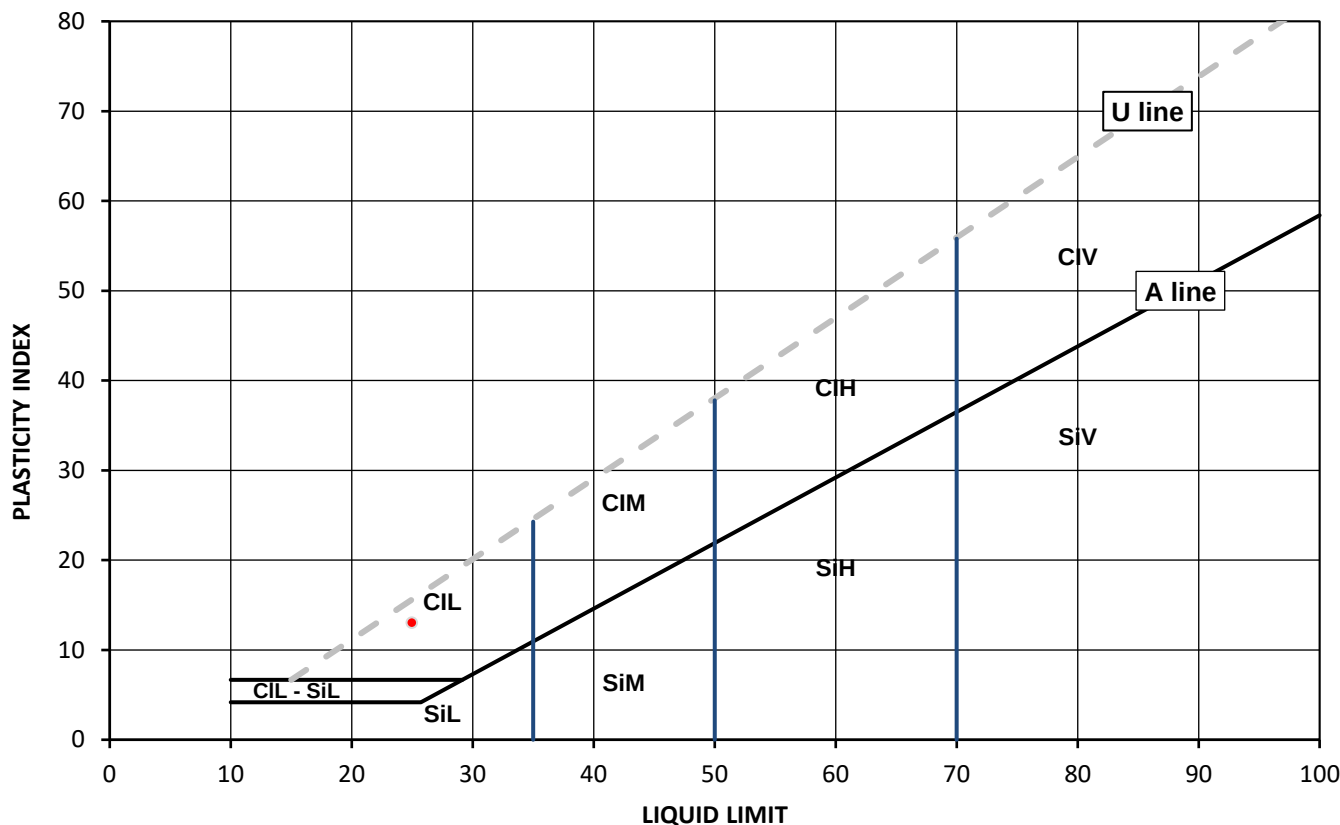
Test Results:

Laboratory Reference: 2765444
Hole No.: BH2
Sample Reference: Not Given
Sample Description: Brownish grey slightly gravelly clayey SAND

Depth Top [m]: 5.00
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested after washing to remove >425 µm

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
9.1	25	12	13	93



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
		50 to 70
		exceeding 70
		append to classification for organic material (eg CIHO)
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic

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

Remarks:

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

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



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

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

Client Reference: Not Given
Job Number: 23-48007-1
Date Sampled: Not Given
Date Received: 28/07/2023
Date Tested: 09/08/2023
Sampled By: Not Given

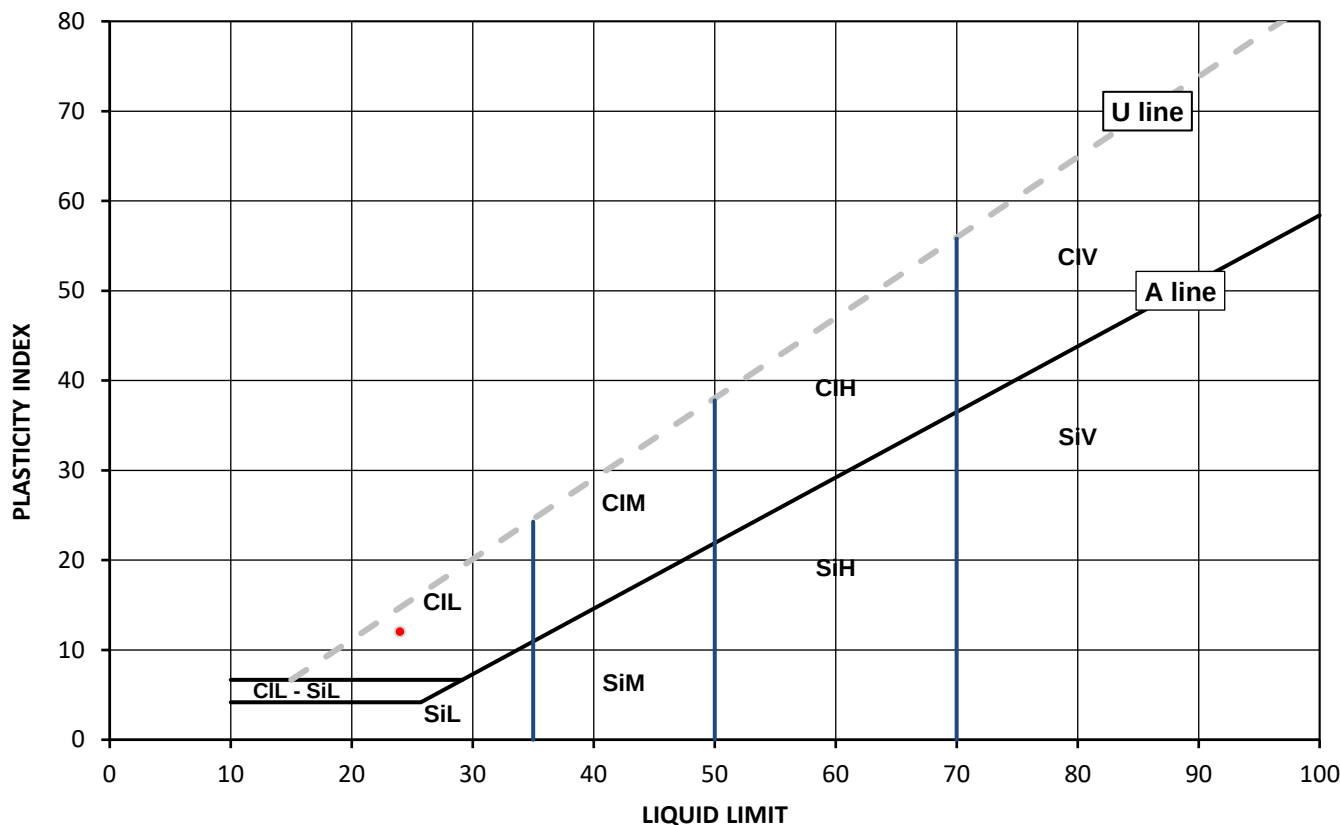
Test Results:

Laboratory Reference: 2765445
Hole No.: BH3
Sample Reference: Not Given
Sample Description: Yellowish brown slightly gravelly clayey SAND

Depth Top [m]: 3.00
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested after washing to remove >425 µm

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
13	24	12	12	80



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
		50 to 70
		exceeding 70
		append to classification for organic material (eg CIHO)

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

Remarks:

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

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

Client Reference: Not Given
Job Number: 23-48007-1
Date Sampled: Not Given
Date Received: 28/07/2023
Date Tested: 09/08/2023
Sampled By: Not Given

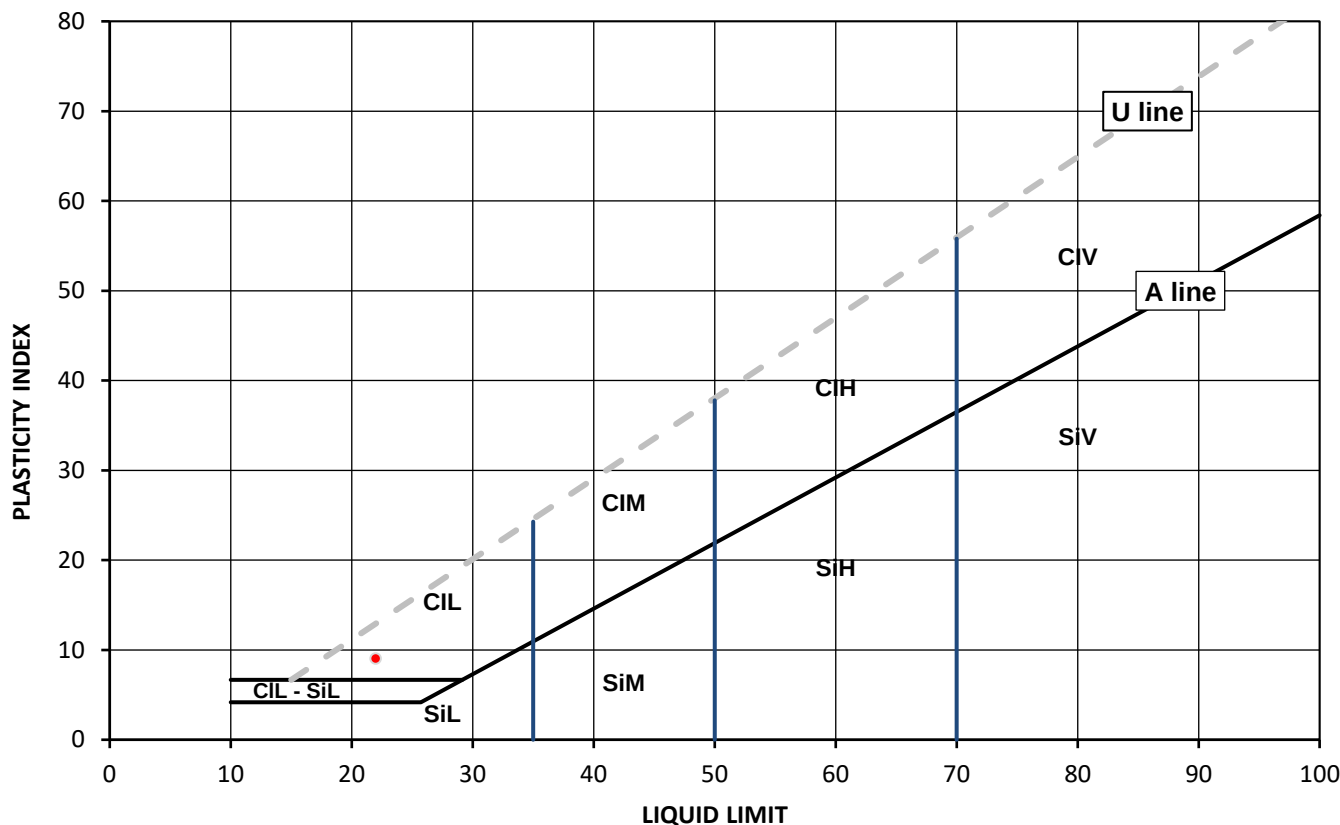
Test Results:

Laboratory Reference: 2765446
Hole No.: BH3
Sample Reference: Not Given
Sample Description: Yellowish brown slightly gravelly clayey SAND

Depth Top [m]: 4.00
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested after >425 µm removed by hand

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
11	22	13	9	94



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

	Plasticity	Liquid Limit
Cl Clay	L Low	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: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

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



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

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

Client Reference: Not Given
Job Number: 23-48007-1
Date Sampled: Not Given
Date Received: 28/07/2023
Date Tested: 09/08/2023
Sampled By: Not Given

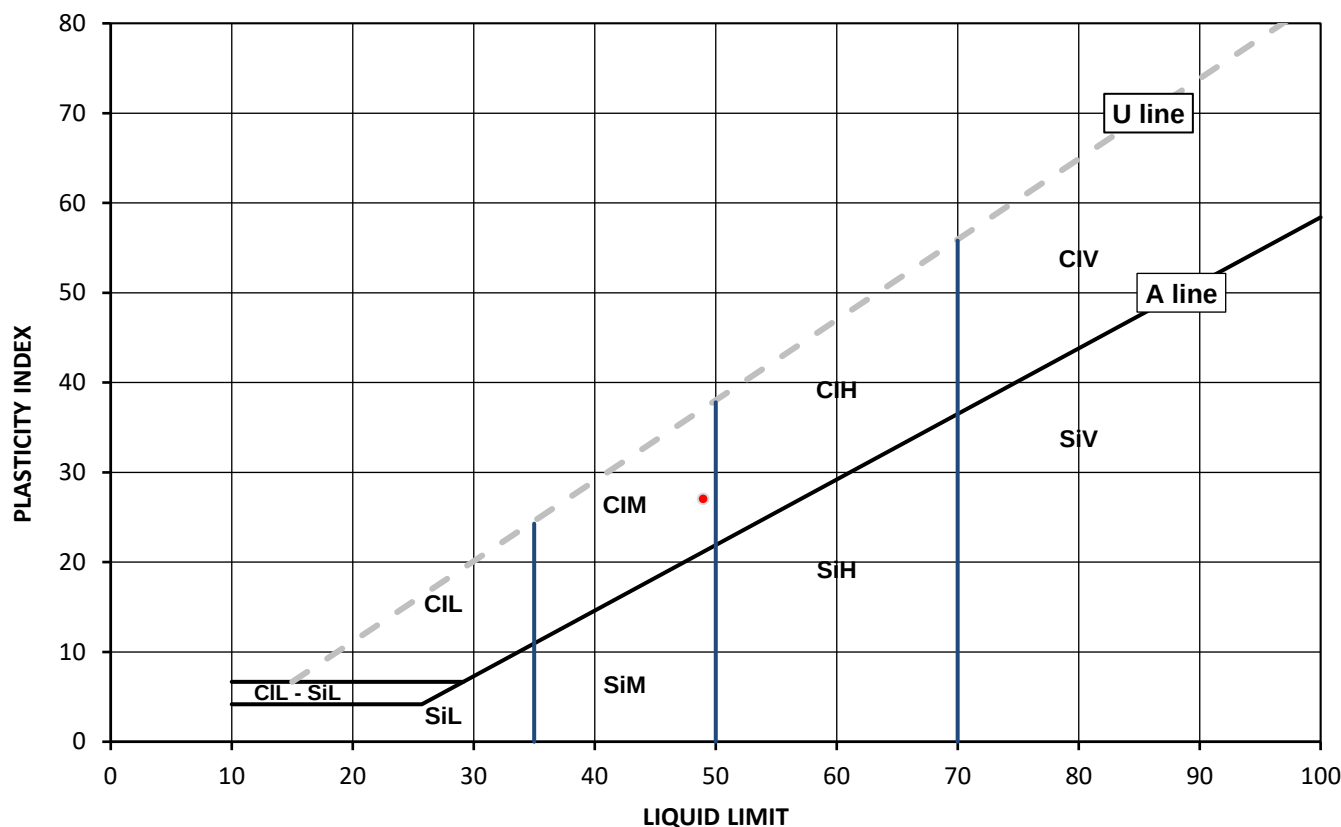
Test Results:

Laboratory Reference: 2765447
Hole No.: BH4
Sample Reference: Not Given
Sample Description: Brownish grey slightly sandy CLAY

Depth Top [m]: 3.00
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested in natural condition

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
20	49	22	27	100



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
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

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

Remarks:

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

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



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

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

Client Reference: Not Given
Job Number: 23-48007-1
Date Sampled: Not Given
Date Received: 28/07/2023
Date Tested: 09/08/2023
Sampled By: Not Given

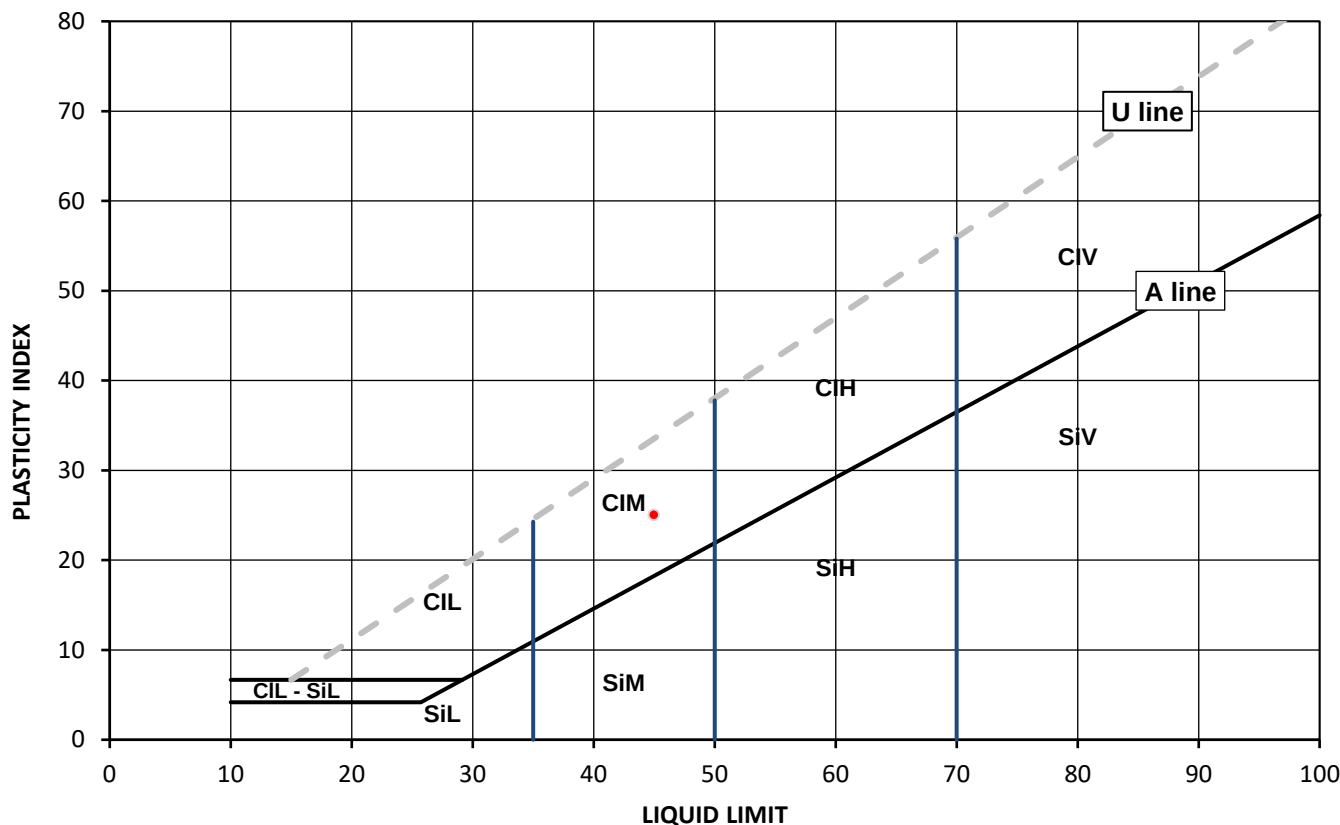
Test Results:

Laboratory Reference: 2765448
Hole No.: BH4
Sample Reference: Not Given
Sample Description: Brownish grey slightly gravelly slightly sandy CLAY

Depth Top [m]: 4.00
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested after washing to remove >425 µm

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
23	45	20	25	99



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

	Plasticity	Liquid Limit
Cl Clay	L Low	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: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

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



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Water Content by BS 1377-2:1990: Clause 3.2
Atterberg by BS 1377-2: 1990:
Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5

Client Reference: Not Given
Job Number: 23-48007-1
Date Sampled: Not Given
Date Received: 28/07/2023
Date Tested: 09/08/2023
Sampled By: Not Given

Contact: Mark Newton
Site Address: One City Road, Manchester

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Water Content BS 1377-2 [W] %	Water Content BS EN ISO 17892-1 [W] %	Atterberg				Density			Total Porosity# %		
		Reference	Depth Top	Depth Base	Type					% Passing 425um %	WL %	Wp %	Ip %	bulk Mg/m3	dry Mg/m3	PD Mg/m3			
			m	m															
2765442	BH1	Not Given	4.00	Not Given	D	Brownish grey slightly gravelly very sandy CLAY	Atterberg 1 Point	25		99	29	17	12						
2765443	BH2	Not Given	4.00	Not Given	D	Brownish grey slightly gravelly very sandy CLAY	Atterberg 1 Point	10		96	26	12	14						
2765444	BH2	Not Given	5.00	Not Given	D	Brownish grey slightly gravelly clayey SAND	Atterberg 1 Point	9.1		93	25	12	13						
2765445	BH3	Not Given	3.00	Not Given	D	Yellowish brown slightly gravelly clayey SAND	Atterberg 1 Point	13		80	24	12	12						
2765446	BH3	Not Given	4.00	Not Given	D	Yellowish brown slightly gravelly clayey SAND	Atterberg 1 Point	11		94	22	13	9						
2765447	BH4	Not Given	3.00	Not Given	D	Brownish grey slightly sandy CLAY	Atterberg 1 Point	20		100	49	22	27						
2765448	BH4	Not Given	4.00	Not Given	D	Brownish grey slightly gravelly slightly sandy CLAY	Atterberg 1 Point	23		99	45	20	25						

Note: # Non accredited; NP - Non plastic

Comments:

Signed:

Katarzyna
Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS 1377-2: 1990: Clause 3.2

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



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

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

Client Reference: Not Given
Job Number: 23-48007-1
Date Sampled: Not Given
Date Received: 28/07/2023
Date Tested: 09/08/2023
Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC	Sample preparation / Oven temperature at the time of testing			
		Reference	Depth Top m	Depth Base m	Type							
2765442	BH1	Not Given	4.00	Not Given	D	Brownish grey slightly gravelly very sandy CLAY		25	Sample was quartered, oven dried at 107.7 °C			
2765443	BH2	Not Given	4.00	Not Given	D	Brownish grey slightly gravelly very sandy CLAY		10	Sample was quartered, oven dried at 109 °C			
2765444	BH2	Not Given	5.00	Not Given	D	Brownish grey slightly gravelly clayey SAND		9.1	Sample was quartered, oven dried at 106 °C			
2765445	BH3	Not Given	3.00	Not Given	D	Yellowish brown slightly gravelly clayey SAND		13	Sample was quartered, oven dried at 106 °C			
2765446	BH3	Not Given	4.00	Not Given	D	Yellowish brown slightly gravelly clayey SAND		11	Sample was quartered, oven dried at 106 °C			
2765447	BH4	Not Given	3.00	Not Given	D	Brownish grey slightly sandy CLAY		20	Sample was quartered, oven dried at 106 °C			
2765448	BH4	Not Given	4.00	Not Given	D	Brownish grey slightly gravelly slightly sandy CLAY		23	Sample was quartered, oven dried at 106 °C			

Comments:

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Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd



4041

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

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



Environmental Science

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

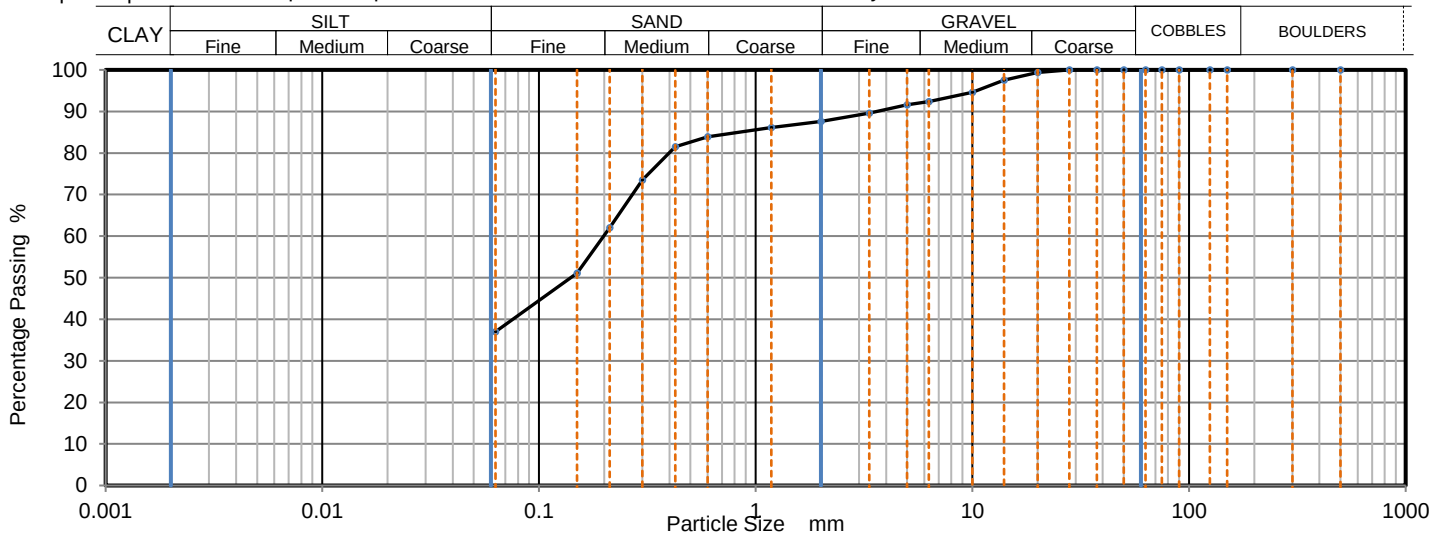
Client Reference: Not Given
Job Number: 23-48007-1
Date Sampled: Not Given
Date Received: 28/07/2023
Date Tested: 08/08/2023
Sampled By: Not Given

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

Test Results:

Laboratory Reference: 2765429
Hole No.: BH1
Sample Reference: Not Given
Sample Description: Brown clayey SAND
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 1.20
Depth Base [m]: 1.65
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	99		
14	98		
10	95		
6.3	92		
5	92		
3.35	90		
2	88		
1.18	86		
0.6	84		
0.425	82		
0.3	74		
0.212	62		
0.15	51		
0.063	38		

Sample Proportions	% dry mass
Very coarse	0
Gravel	12
Sand	50
Fines <0.063mm	38

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	> 3.2
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks:

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

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



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

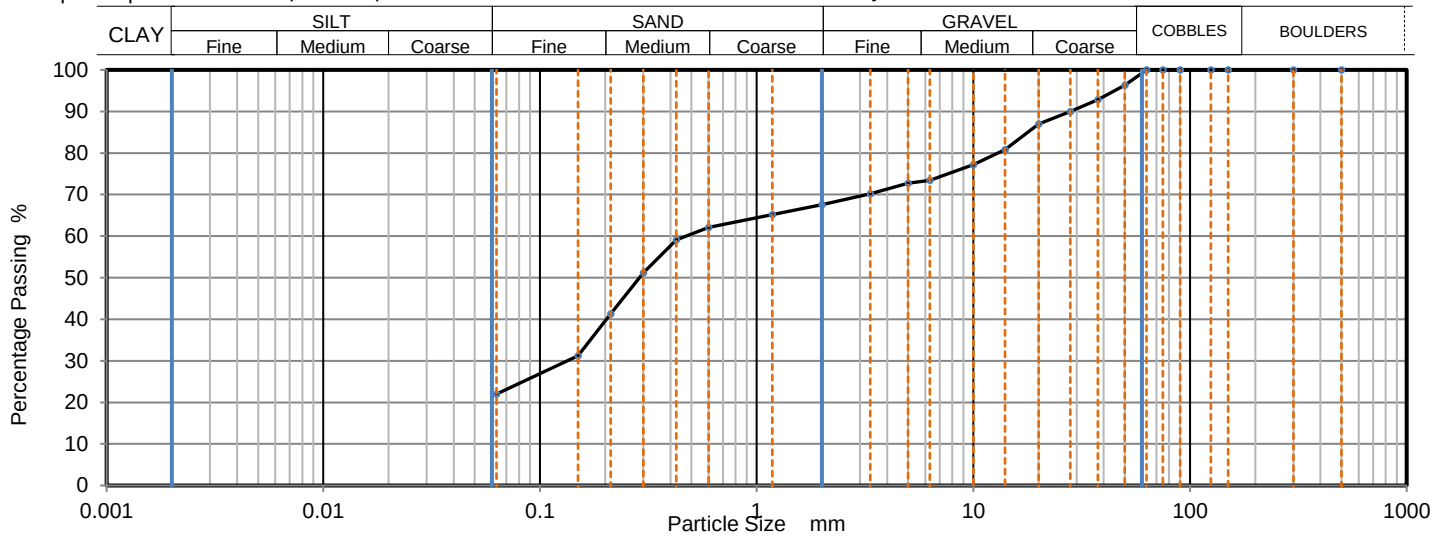
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: Not Given
Job Number: 23-48007-1
Date Sampled: Not Given
Date Received: 28/07/2023
Date Tested: 09/08/2023
Sampled By: Not Given

Test Results:

Laboratory Reference: 2765430
Hole No.: BH1
Sample Reference: Not Given
Sample Description: Dark brown clayey gravelly SAND
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 2.00
Depth Base [m]: 2.45
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	96		
37.5	93		
28	90		
20	87		
14	81		
10	77		
6.3	73		
5	73		
3.35	70		
2	68		
1.18	65		
0.6	62		
0.425	59		
0.3	51		
0.212	41		
0.15	31		
0.063	22		

Sample Proportions	% dry mass
Very coarse	0
Gravel	32
Sand	45
Fines <0.063mm	22

Grading Analysis	
D100	mm 63
D60	mm 0.469
D30	mm 0.134
D10	mm
Uniformity Coefficient	> 7.5
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks:

Signed:

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Environmental Science

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Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

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

Client Reference: Not Given
Job Number: 23-48007-1
Date Sampled: Not Given
Date Received: 28/07/2023
Date Tested: 09/08/2023
Sampled By: Not Given

Test Results:

Laboratory Reference: 2765431

Hole No.: BH1

Sample Reference: Not Given

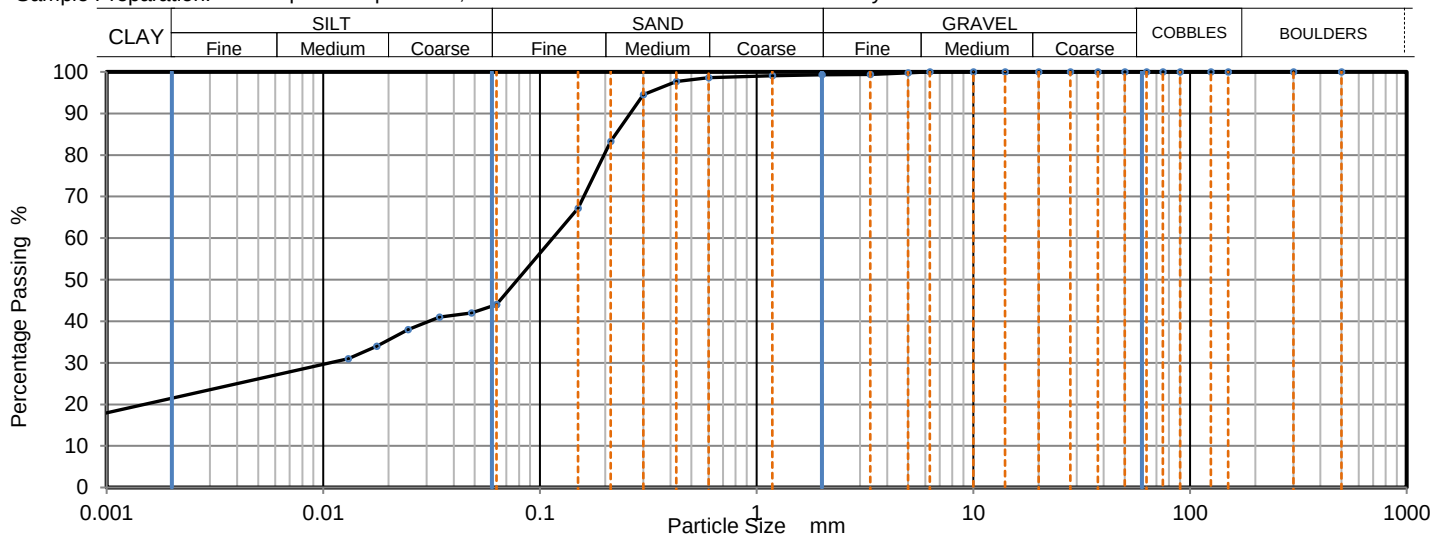
Sample Description: Grey sandy CLAY

Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 4.00

Depth Base [m]: 4.45

Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0630	44
300	100	0.0483	42
150	100	0.0344	41
125	100	0.0246	38
90	100	0.0176	34
75	100	0.0130	31
63	100	0.0008	17
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	99	Particle density (assumed) 2.65 Mg/m ³	
2	99		
1.18	99		
0.6	99		
0.425	98		
0.3	95		
0.212	83		
0.15	67		
0.063	44		

Sample Proportions	% dry mass
Very coarse	0
Gravel	1
Sand	56
Silt	21
Clay	22

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	> 140
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks:**Signed:**

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Environmental Science

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Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

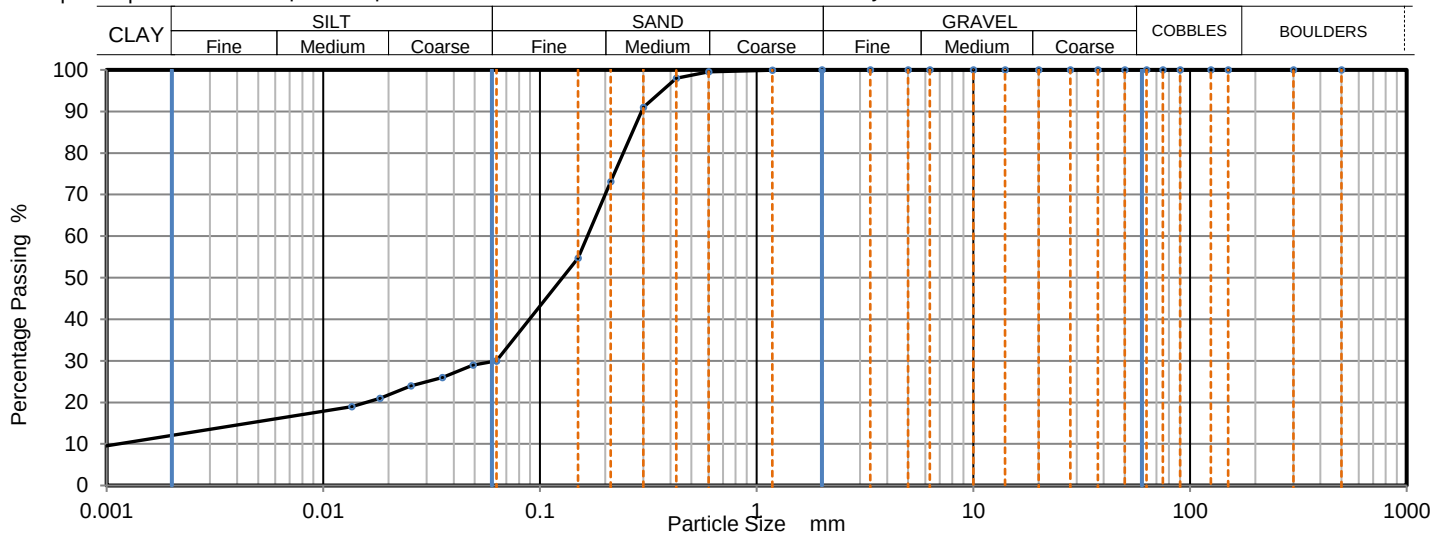
Client Reference: Not Given
Job Number: 23-48007-1
Date Sampled: Not Given
Date Received: 28/07/2023
Date Tested: 09/08/2023
Sampled By: Not Given

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

Test Results:

Laboratory Reference: 2765432
Hole No.: BH1
Sample Reference: Not Given
Sample Description: Grey clayey SAND
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

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



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0630	30
300	100	0.0491	29
150	100	0.0354	26
125	100	0.0254	24
90	100	0.0183	21
75	100	0.0135	19
63	100	0.009	9
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100	Particle density (assumed) 2.65 Mg/m ³	
2	100		
1.18	100		
0.6	100		
0.425	98		
0.3	91		
0.212	73		
0.15	55		
0.063	30		

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	70
Silt	18
Clay	12

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

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks:

Signed:

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Environmental Science

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Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

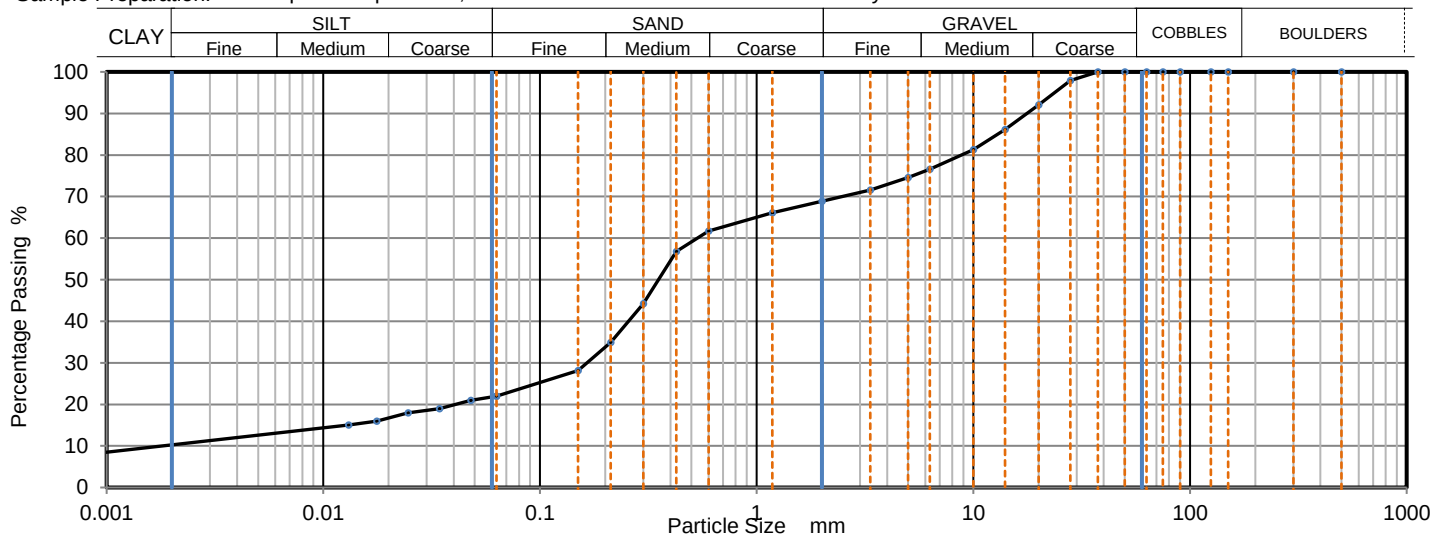
Client Reference: Not Given
Job Number: 23-48007-1
Date Sampled: Not Given
Date Received: 28/07/2023
Date Tested: 08/08/2023
Sampled By: Not Given

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

Test Results:

Laboratory Reference: 2765433
Hole No.: BH2
Sample Reference: Not Given
Sample Description: Brown gravelly clayey SAND
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

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



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0630	22
300	100	0.0480	21
150	100	0.0344	19
125	100	0.0246	18
90	100	0.0177	16
75	100	0.0131	15
63	100	0.0008	8
50	100		
37.5	100		
28	98		
20	92		
14	86		
10	81		
6.3	77		
5	75		
3.35	72	Particle density (assumed) 2.65 Mg/m3	
2	69		
1.18	66		
0.6	62		
0.425	57		
0.3	44		
0.212	35		
0.15	28		
0.063	22		

Sample Proportions	% dry mass
Very coarse	0
Gravel	31
Sand	47
Silt	12
Clay	10

Grading Analysis	
D100	mm 37.5
D60	mm 0.532
D30	mm 0.165
D10	mm 0.0017
Uniformity Coefficient	310
Curvature Coefficient	30

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks:**Signed:**

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Northampton NN4 7EB



Environmental Science

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Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

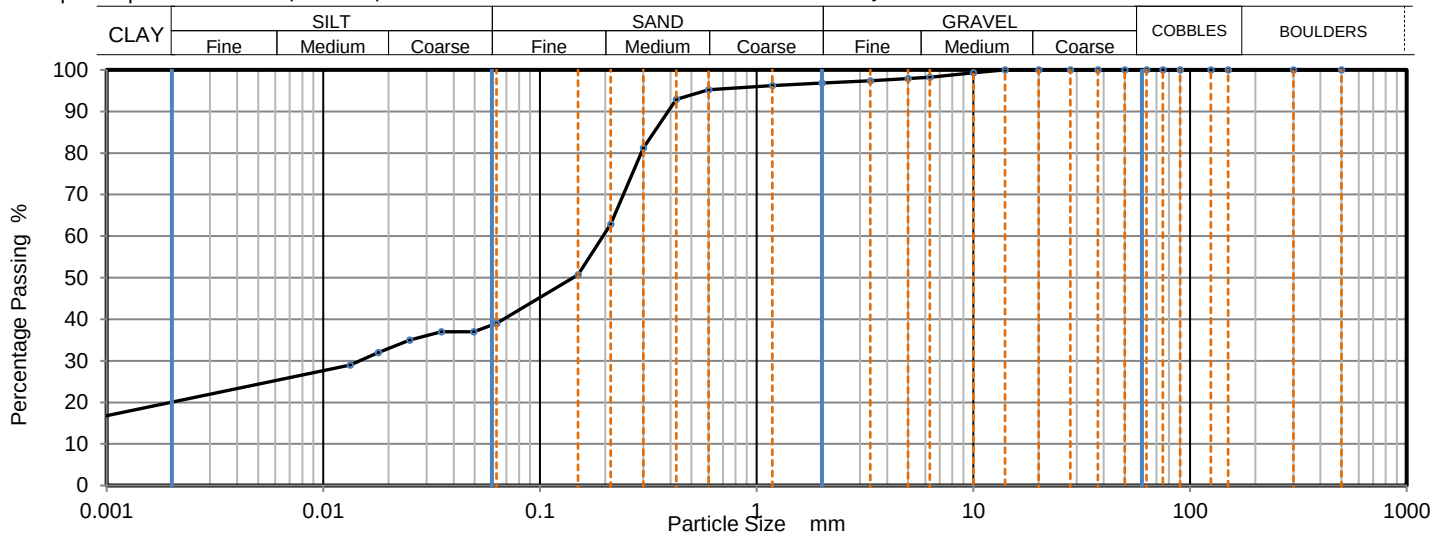
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: Not Given
Job Number: 23-48007-1
Date Sampled: Not Given
Date Received: 28/07/2023
Date Tested: 08/08/2023
Sampled By: Not Given

Test Results:

Laboratory Reference: 2765434
Hole No.: BH2
Sample Reference: Not Given
Sample Description: Reddish brown clayey SAND
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

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



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0630	39
300	100	0.0495	37
150	100	0.0350	37
125	100	0.0251	35
90	100	0.0180	32
75	100	0.0133	29
63	100	0.0008	16
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	99		
6.3	98		
5	98		
3.35	97	Particle density (assumed) 2.65 Mg/m3	
2	97		
1.18	96		
0.6	95		
0.425	93		
0.3	81		
0.212	63		
0.15	51		
0.063	39		

Sample Proportions	% dry mass
Very coarse	0
Gravel	3
Sand	58
Silt	19
Clay	20

Grading Analysis	
D100	mm 14
D60	mm 0.195
D30	mm 0.0143
D10	mm
Uniformity Coefficient	> 230
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks:

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

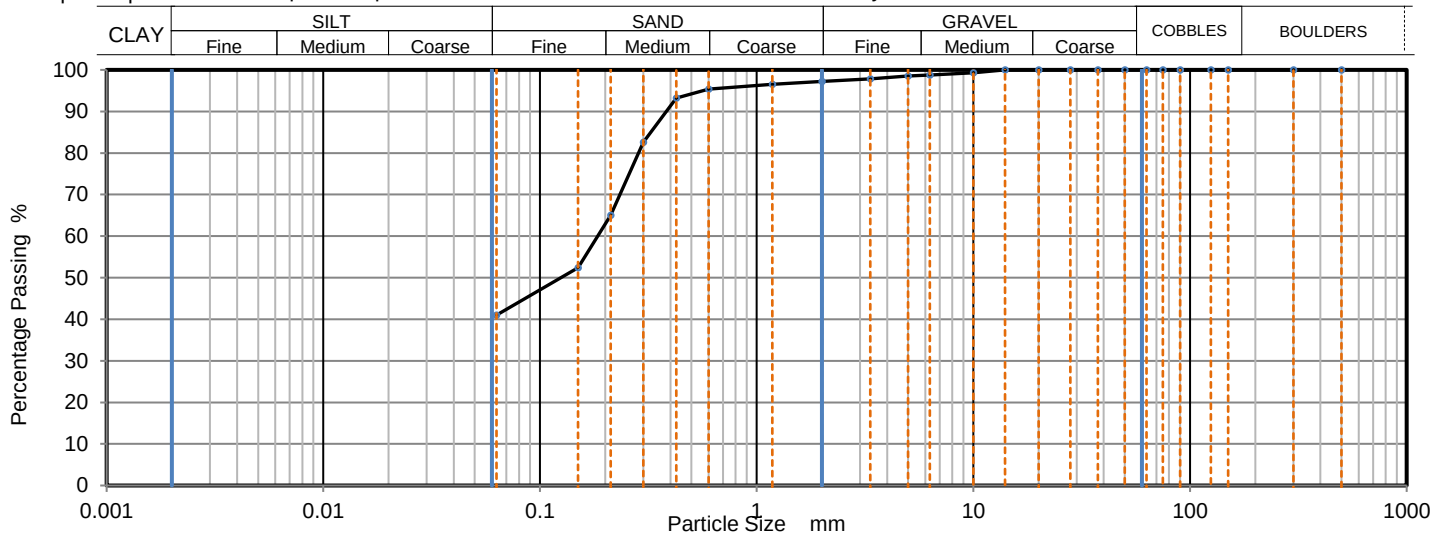
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: Not Given
Job Number: 23-48007-1
Date Sampled: Not Given
Date Received: 28/07/2023
Date Tested: 09/08/2023
Sampled By: Not Given

Test Results:

Laboratory Reference: 2765435
Hole No.: BH2
Sample Reference: Not Given
Sample Description: Brown sandy CLAY
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 5.00
Depth Base [m]: 5.45
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	100		
10	99		
6.3	99		
5	99		
3.35	98		
2	97		
1.18	97		
0.6	95		
0.425	93		
0.3	83		
0.212	65		
0.15	52		
0.063	41		

Sample Proportions	% dry mass
Very coarse	0
Gravel	3
Sand	56
Fines <0.063mm	41

Grading Analysis	
D100	mm 14
D60	mm 0.185
D30	mm
D10	mm
Uniformity Coefficient	> 2.9
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks:

Signed:

Katarzyna Koziel

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Brackmills Industrial Estate
Northampton NN4 7EB



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

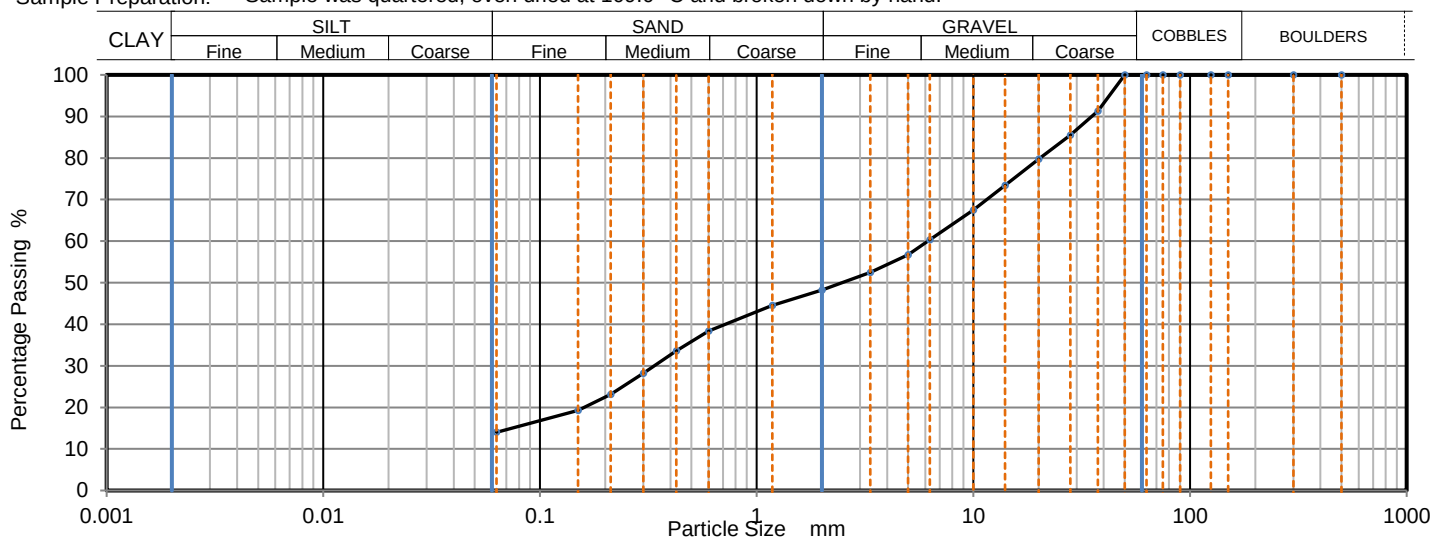
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: Not Given
Job Number: 23-48007-1
Date Sampled: Not Given
Date Received: 28/07/2023
Date Tested: 09/08/2023
Sampled By: Not Given

Test Results:

Laboratory Reference: 2765436
Hole No.: BH3
Sample Reference: Not Given
Sample Description: Dark brown sandy GRAVEL
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 1.20
Depth Base [m]: 1.65
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	91		
28	86		
20	80		
14	73		
10	68		
6.3	60		
5	57		
3.35	53		
2	48		
1.18	45		
0.6	38		
0.425	34		
0.3	28		
0.212	23		
0.15	19		
0.063	14		

Sample Proportions	% dry mass
Very coarse	0
Gravel	52
Sand	34
Fines <0.063mm	14

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	> 98
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks:

Signed:

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Katarzyna Koziel
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Northampton NN4 7EB



Environmental Science

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

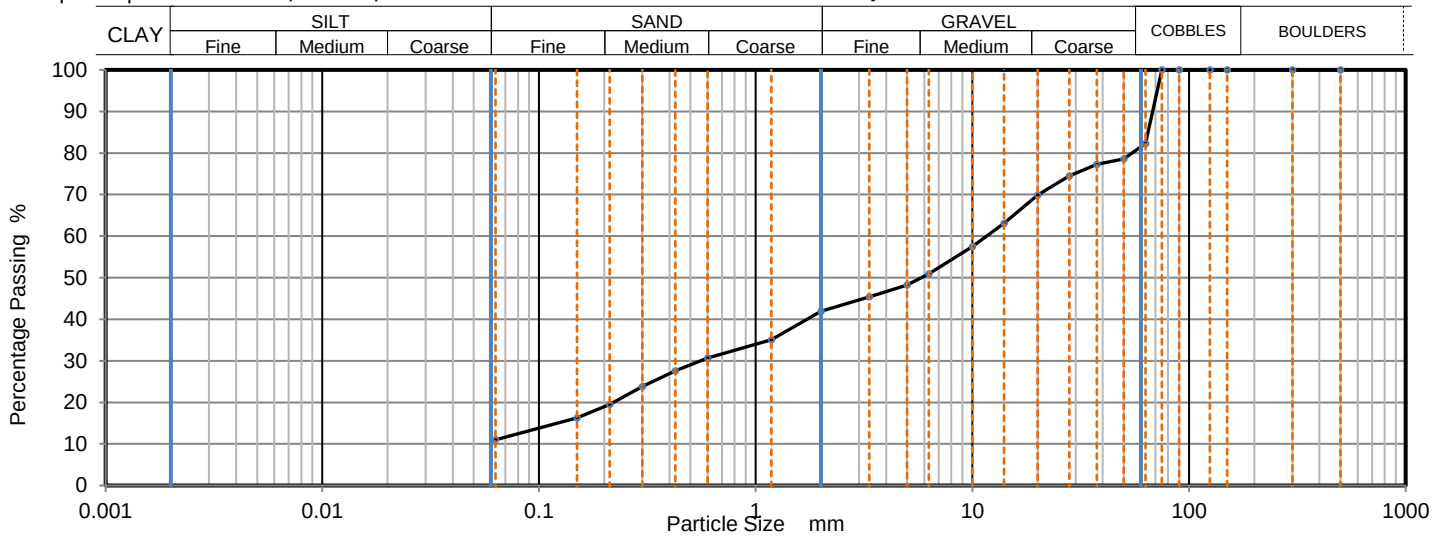
Client Reference: Not Given
Job Number: 23-48007-1
Date Sampled: Not Given
Date Received: 28/07/2023
Date Tested: 09/08/2023
Sampled By: Not Given

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

Test Results:

Laboratory Reference: 2765437
Hole No.: BH3
Sample Reference: Not Given
Sample Description: Dark brown sandy GRAVEL
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 2.00
Depth Base [m]: 2.45
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	82		
50	79		
37.5	77		
28	75		
20	70		
14	63		
10	58		
6.3	51		
5	48		
3.35	45		
2	42		
1.18	35		
0.6	31		
0.425	28		
0.3	24		
0.212	20		
0.15	16		
0.063	12		

Sample Proportions	% dry mass
Very coarse	18
Gravel	40
Sand	30
Fines <0.063mm	12

Grading Analysis	
D100	mm 75
D60	mm 11.6
D30	mm 0.556
D10	mm
Uniformity Coefficient	> 180
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks:**Signed:**

Katarzyna
Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

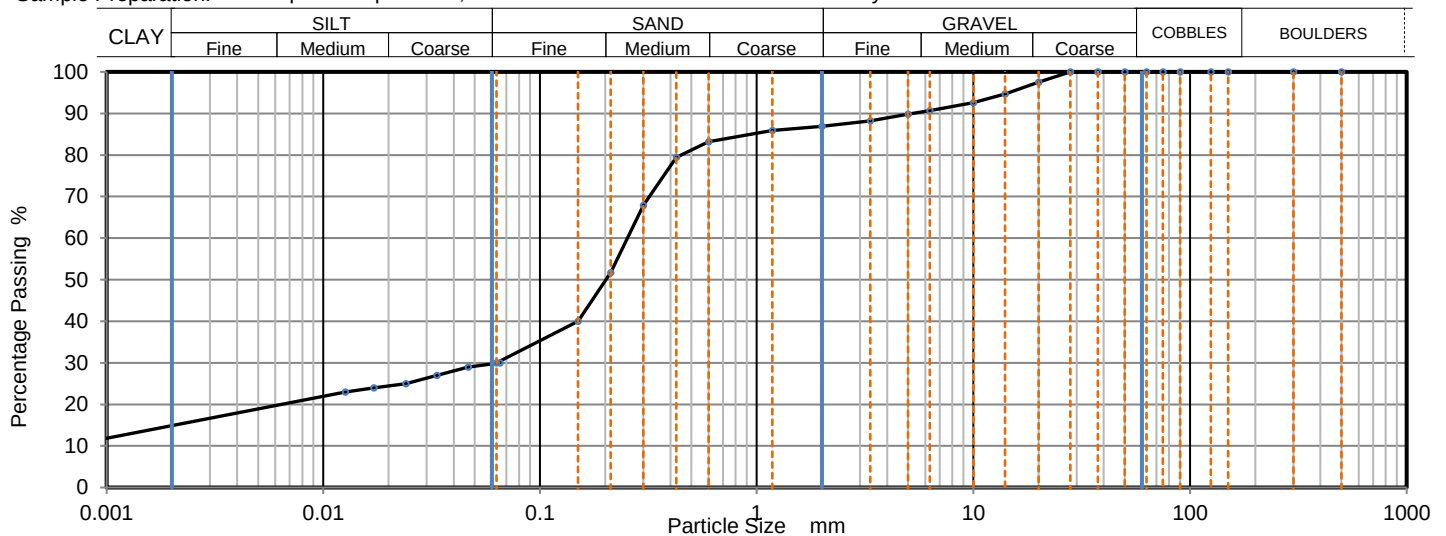
Client Reference: Not Given
Job Number: 23-48007-1
Date Sampled: Not Given
Date Received: 28/07/2023
Date Tested: 09/08/2023
Sampled By: Not Given

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

Test Results:

Laboratory Reference: 2765438
Hole No.: BH3
Sample Reference: Not Given
Sample Description: Brown clayey SAND
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

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



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0654	30
300	100	0.0466	29
150	100	0.0334	27
125	100	0.0240	25
90	100	0.0171	24
75	100	0.0126	23
63	100	0.0008	11
50	100		
37.5	100		
28	100		
20	98		
14	95		
10	93		
6.3	91		
5	90		
3.35	88	Particle density (assumed) 2.65 Mg/m ³	
2	87		
1.18	86		
0.6	83		
0.425	79		
0.3	68		
0.212	52		
0.15	40		
0.063	30		

Sample Proportions	% dry mass
Very coarse	0
Gravel	13
Sand	57
Silt	15
Clay	15

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	> 310
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks:**Signed:**

Katarzyna
Koziel

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Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB



Environmental Science

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

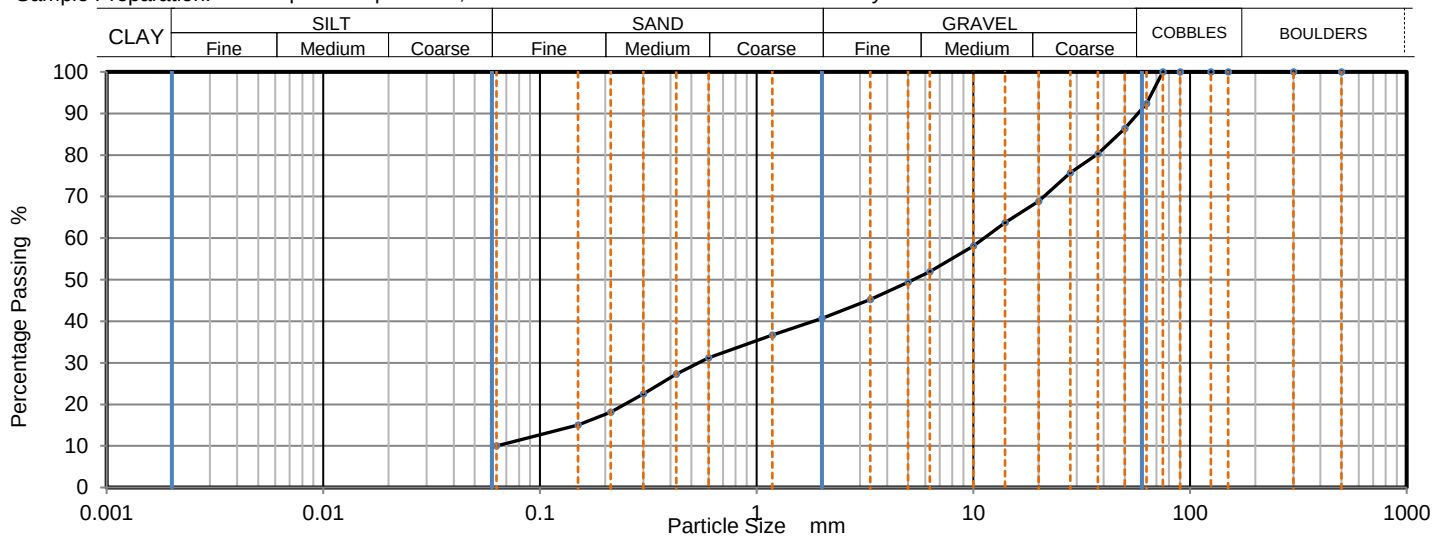
Client Reference: Not Given
Job Number: 23-48007-1
Date Sampled: Not Given
Date Received: 28/07/2023
Date Tested: 09/08/2023
Sampled By: Not Given

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

Test Results:

Laboratory Reference: 2765439
Hole No.: BH4
Sample Reference: Not Given
Sample Description: Brown sandy GRAVEL
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 1.20
Depth Base [m]: 1.65
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	92		
50	86		
37.5	80		
28	76		
20	69		
14	64		
10	58		
6.3	52		
5	49		
3.35	45		
2	41		
1.18	37		
0.6	31		
0.425	27		
0.3	23		
0.212	18		
0.15	15		
0.063	10		

Sample Proportions	% dry mass
Very coarse	8
Gravel	52
Sand	30
Fines <0.063mm	10

Grading Analysis	
D100	mm 75
D60	mm 11.2
D30	mm 0.541
D10	mm
Uniformity Coefficient	> 180
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks:**Signed:**

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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4041

**TEST CERTIFICATE****DETERMINATION OF PARTICLE SIZE DISTRIBUTION**

Tested in Accordance with: BS 1377-2: 1990

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



Environmental Science

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

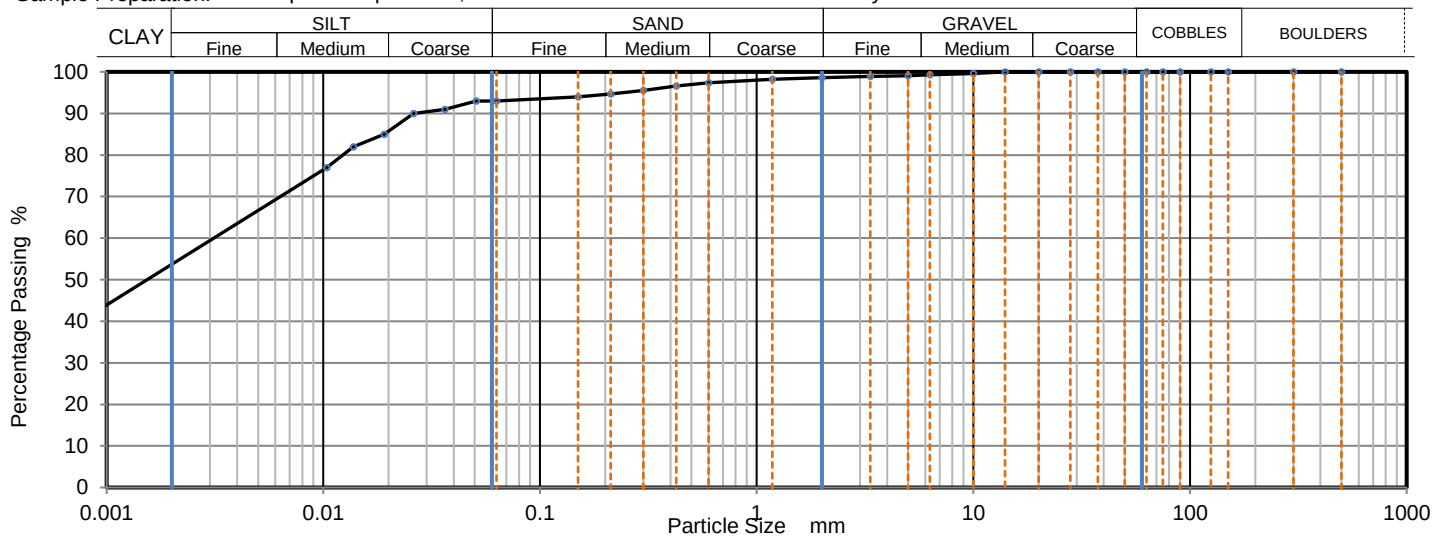
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: Not Given
Job Number: 23-48007-1
Date Sampled: Not Given
Date Received: 28/07/2023
Date Tested: 09/08/2023
Sampled By: Not Given

Test Results:

Laboratory Reference: 2765440
Hole No.: BH4
Sample Reference: Not Given
Sample Description: Brown CLAY
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

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



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0508	93
300	100	0.0364	91
150	100	0.0260	90
125	100	0.0191	85
90	100	0.0138	82
75	100	0.0104	77
63	100	0.0008	40
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	99		
5	99		
3.35	99	Particle density (assumed) 2.65 Mg/m3	
2	99		
1.18	98		
0.6	97		
0.425	97		
0.3	96		
0.212	95		
0.15	94		
0.063	93		

Sample Proportions	% dry mass
Very coarse	0
Gravel	1
Sand	6
Silt	39
Clay	54

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	> 4
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks:**Signed:**

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

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



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: One City Road, Manchester

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

Client Reference: Not Given
Job Number: 23-48007-1
Date Sampled: Not Given
Date Received: 28/07/2023
Date Tested: 09/08/2023
Sampled By: Not Given

Test Results:

Laboratory Reference: 2765441

Hole No.: BH4

Sample Reference: Not Given

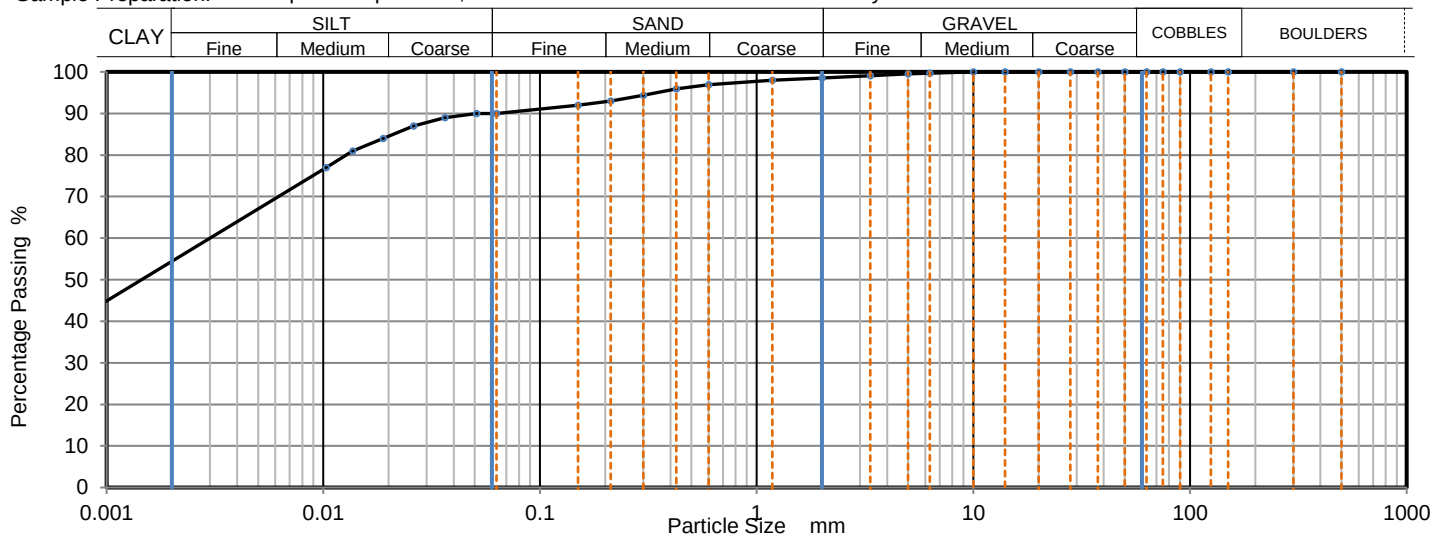
Sample Description: Brown CLAY

Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 4.00

Depth Base [m]: 4.45

Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0509	90
300	100	0.0364	89
150	100	0.0261	87
125	100	0.0189	84
90	100	0.0136	81
75	100	0.0103	77
63	100	0.0008	41
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	99	Particle density (assumed) 2.65 Mg/m ³	
2	99		
1.18	98		
0.6	97		
0.425	96		
0.3	94		
0.212	93		
0.15	92		
0.063	90		

Sample Proportions	% dry mass
Very coarse	0
Gravel	2
Sand	8
Silt	36
Clay	54

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	> 4.1
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks:

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

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



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: NX406

Client Reference: NX406
Job Number: 23-49670-0
Date Sampled: Not Given
Date Received: 07/08/2023
Date Tested: 17/08/2023
Sampled By: Not Given

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

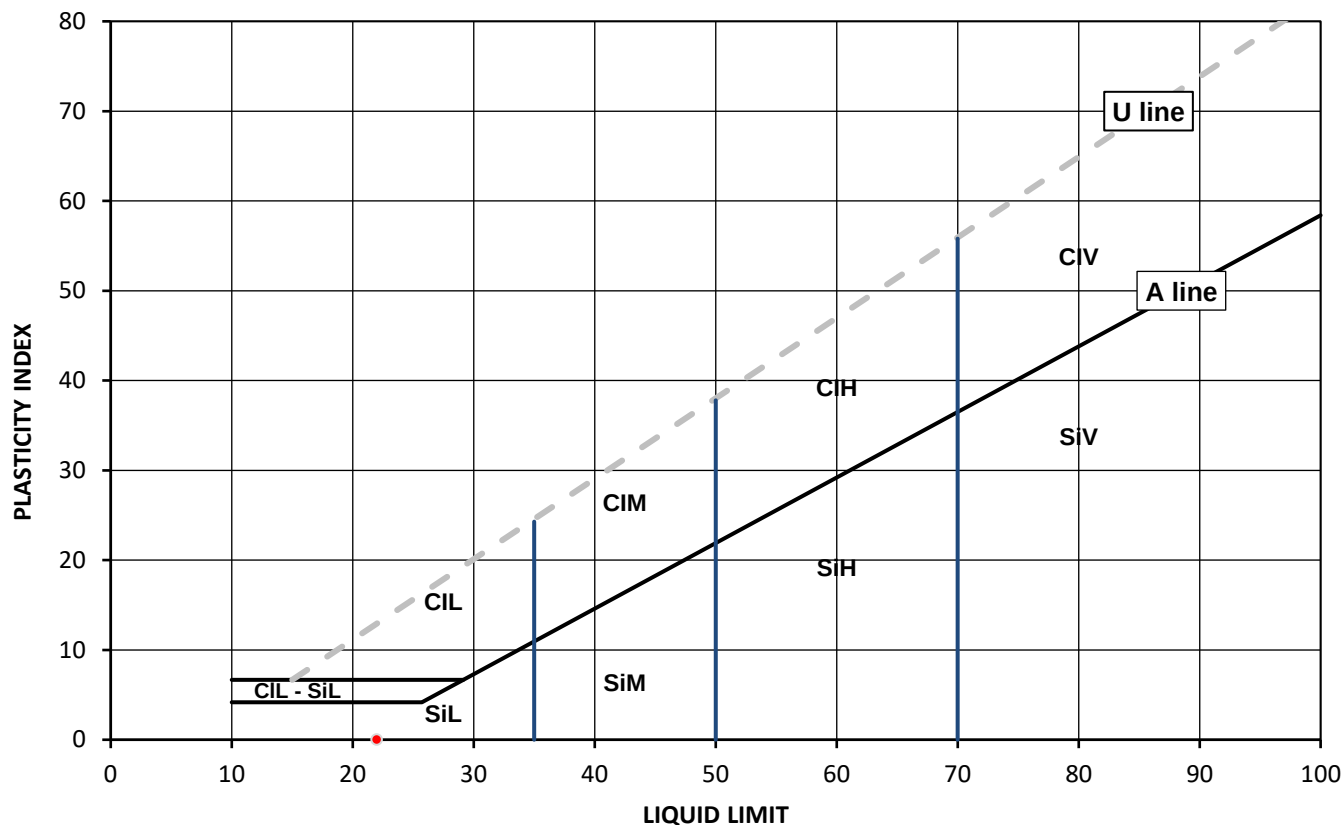
Test Results:

Laboratory Reference: 2774214
Hole No.: WS12
Sample Reference: Not Given
Sample Description: Reddish brown slightly gravelly slightly clayey SAND

Depth Top [m]: 3.00
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested after washing to remove >425 µm

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
9.5	22	NP	NP	90



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
		50 to 70
		exceeding 70
		append to classification for organic material (eg CIHO)

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

Remarks: Preliminary report
NP - non plastic

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

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



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: NX406

Client Reference: NX406
Job Number: 23-49670-0
Date Sampled: Not Given
Date Received: 07/08/2023
Date Tested: 17/08/2023
Sampled By: Not Given

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

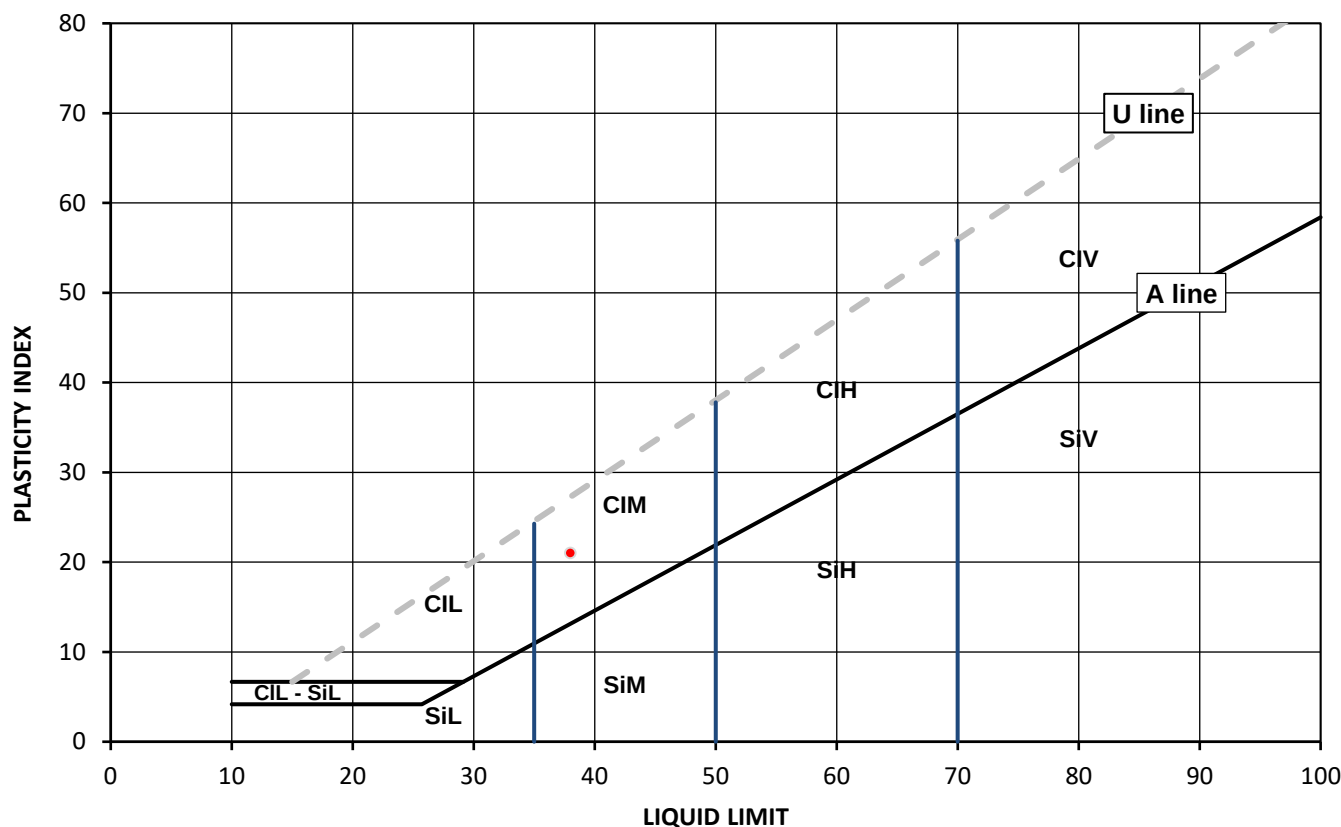
Test Results:

Laboratory Reference: 2774215
Hole No.: WS15
Sample Reference: Not Given
Sample Description: Brown sandy CLAY

Depth Top [m]: 3.00
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested in natural condition

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
13	38	17	21	100



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

	Plasticity	Liquid Limit
Cl Clay	L Low	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: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks: Preliminary report

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

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



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: NX406

Client Reference: NX406
Job Number: 23-49670-0
Date Sampled: Not Given
Date Received: 07/08/2023
Date Tested: 17/08/2023
Sampled By: Not Given

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

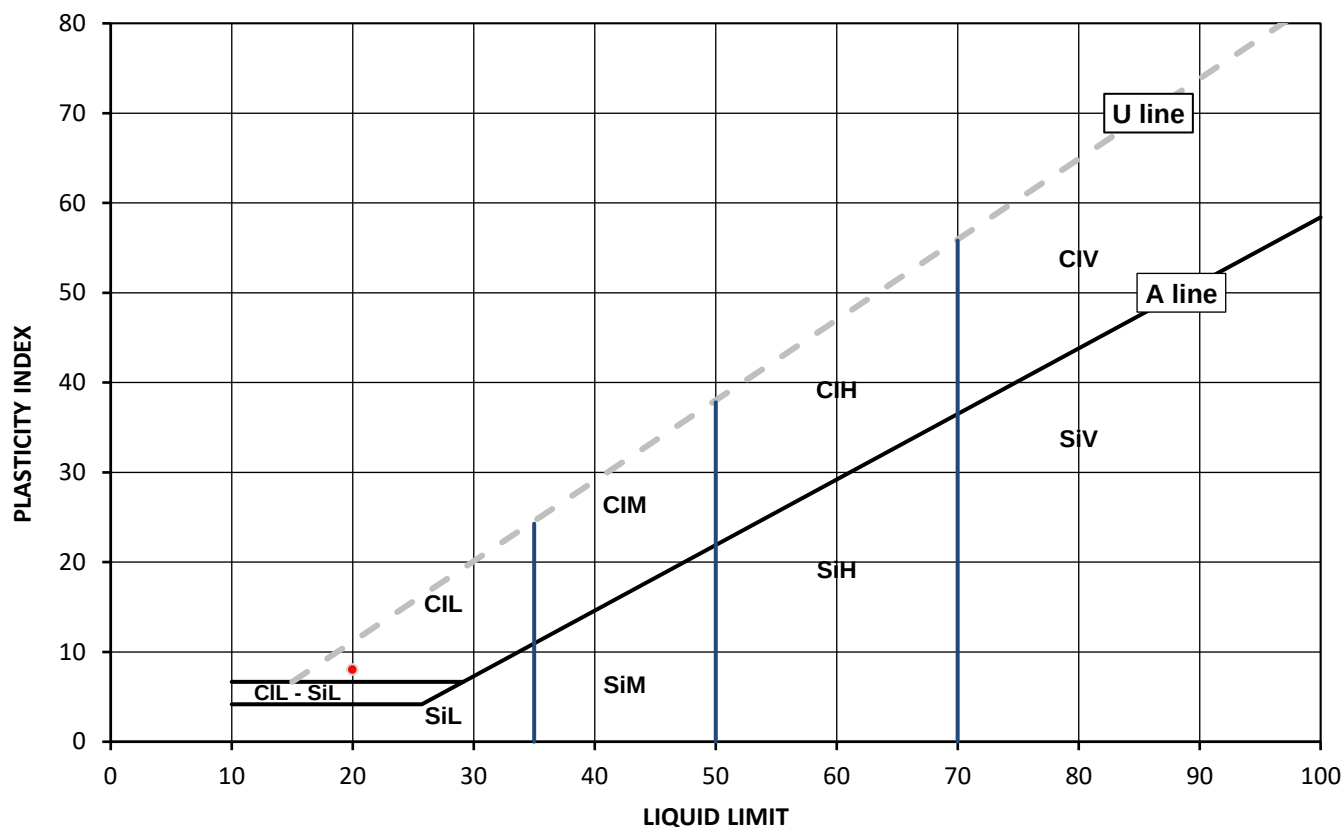
Test Results:

Laboratory Reference: 2774216
Hole No.: WS15
Sample Reference: Not Given
Sample Description: Brown slightly gravelly slightly clayey SAND

Depth Top [m]: 4.00
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested after >425 µm removed by hand

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
7.5	20	12	8	97



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
		50 to 70
		exceeding 70
		append to classification for organic material (eg CIHO)

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

Remarks: Preliminary report

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

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



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: NX406

Client Reference: NX406
Job Number: 23-49670-0
Date Sampled: Not Given
Date Received: 07/08/2023
Date Tested: 17/08/2023
Sampled By: Not Given

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

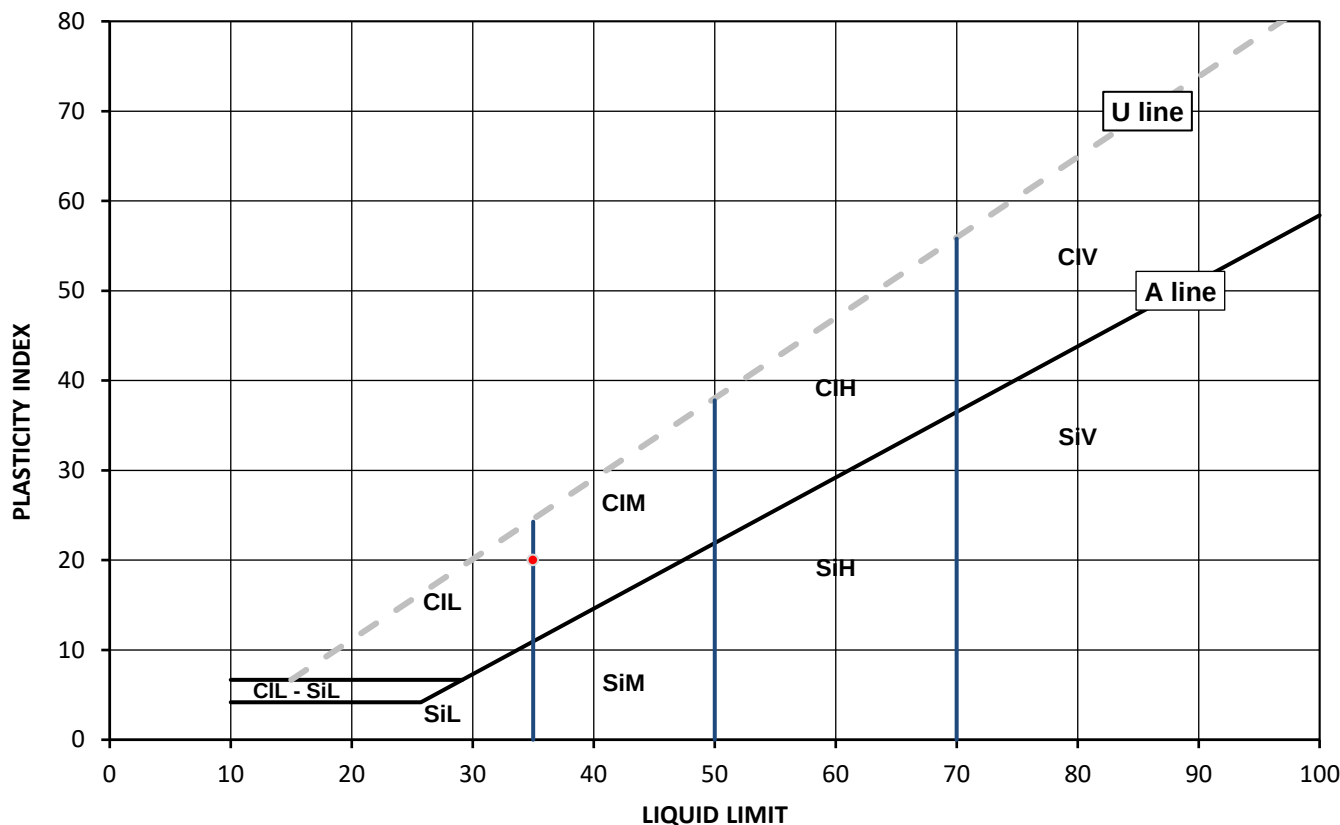
Test Results:

Laboratory Reference: 2774217
Hole No.: WS16
Sample Reference: Not Given
Sample Description: Brownish grey sandy CLAY

Depth Top [m]: 3.00
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested in natural condition

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
15	35	15	20	100



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
		50 to 70
		exceeding 70
		append to classification for organic material (eg CIHO)

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

Remarks: Preliminary report

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

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



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: NX406

Client Reference: NX406
Job Number: 23-49670-0
Date Sampled: Not Given
Date Received: 07/08/2023
Date Tested: 17/08/2023
Sampled By: Not Given

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

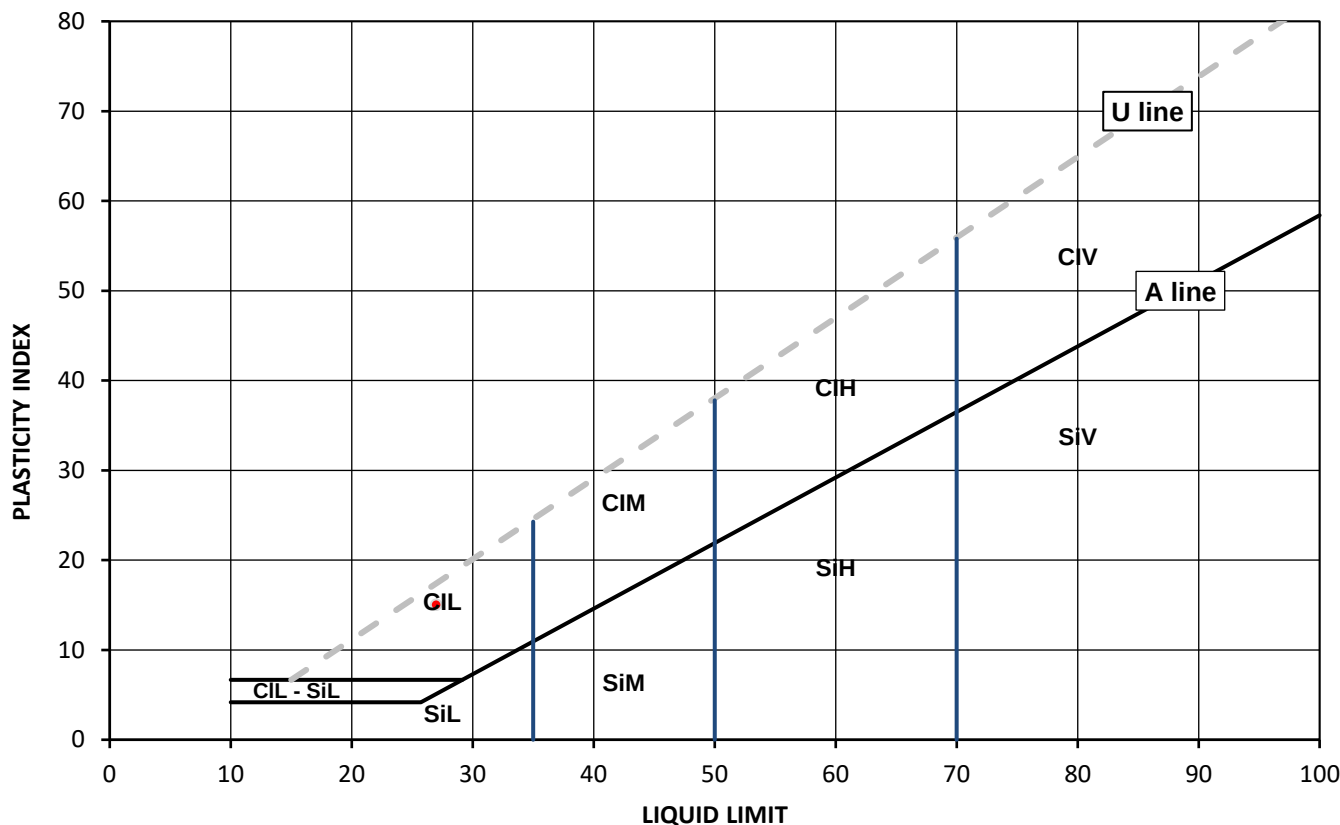
Test Results:

Laboratory Reference: 2774218
Hole No.: WS16
Sample Reference: Not Given
Sample Description: Brownish grey slightly gravelly very sandy CLAY

Depth Top [m]: 4.00
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested after washing to remove >425 µm

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
11	27	12	15	69



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

	Plasticity	Liquid Limit
Cl Clay	L Low	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: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks: Preliminary report

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

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



Environmental Science

4041

Client: NX Consulting

Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton

Site Address: NX406

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

Water Content by BS 1377-2:1990: Clause 3.2
Atterberg by BS 1377-2: 1990:
Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5

Client Reference: NX406

Job Number: 23-49670-0

Date Sampled: Not Given

Date Received: 07/08/2023

Date Tested: 17/08/2023

Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Water Content BS 1377-2 [W] %	Water Content BS EN ISO 17892-1 [W] %	Atterberg				Density			Total Porosity# %		
		Reference	Depth Top	Depth Base	Type					% Passing 425um %	WL %	Wp %	Ip %	bulk Mg/m3	dry Mg/m3	PD Mg/m3			
			m	m															
2774214	WS12	Not Given	3.00	Not Given	D	Reddish brown slightly gravelly slightly clayey SAND	Atterberg 1 Point	9.5		90	22	NP	NP						
2774215	WS15	Not Given	3.00	Not Given	D	Brown sandy CLAY	Atterberg 1 Point	13		100	38	17	21						
2774216	WS15	Not Given	4.00	Not Given	D	Brown slightly gravelly slightly clayey SAND	Atterberg 1 Point	7.5		97	20	12	8						
2774217	WS16	Not Given	3.00	Not Given	D	Brownish grey sandy CLAY	Atterberg 1 Point	15		100	35	15	20						
2774218	WS16	Not Given	4.00	Not Given	D	Brownish grey slightly gravelly very sandy CLAY	Atterberg 1 Point	11		69	27	12	15						

Note: # Non accredited; NP - Non plastic

Comments: Preliminary report

Signed:

Katarzyna
Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS 1377-2: 1990: Clause 3.2

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



Environmental Science

4041

Client: NX Consulting
Client Address: Station House, Stamford New Road,
Altrincham, WA14 1EP

Contact: Mark Newton
Site Address: NX406

Client Reference: NX406
Job Number: 23-49670-0
Date Sampled: Not Given
Date Received: 07/08/2023
Date Tested: 17/08/2023
Sampled By: Not Given

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC	Sample preparation / Oven temperature at the time of testing			
		Reference	Depth Top m	Depth Base m	Type							
2774214	WS12	Not Given	3.00	Not Given	D	Reddish brown slightly gravelly slightly clayey SAND		9.5	Sample was quartered, oven dried at 106.4 °C			
2774215	WS15	Not Given	3.00	Not Given	D	Brown sandy CLAY		13	Sample was quartered, oven dried at 106.4 °C			
2774216	WS15	Not Given	4.00	Not Given	D	Brown slightly gravelly slightly clayey SAND		7.5	Sample was quartered, oven dried at 106.4 °C			
2774217	WS16	Not Given	3.00	Not Given	D	Brownish grey sandy CLAY		15	Sample was quartered, oven dried at 106.4 °C			
2774218	WS16	Not Given	4.00	Not Given	D	Brownish grey slightly gravelly very sandy CLAY		11	Sample was quartered, oven dried at 106.4 °C			

Comments: Preliminary report

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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Appendix E – HazOnline Assessment & Chemical Test Results

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)



N1S33-H8PK2-PS600

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

Job name

NX406

Description/Comments

Project

One City Road

Site

Manchester

Classified by

Name: **Jonathan Malley**
Date: **04 Sep 2023 14:26 GMT**
Telephone: **0191 3896200**

Company: **ERGO Environmental**
Maling Exchange, Hoults Yard, Walker Rd,
Newcastle upon Tyne, NE6 2HL

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
Most recent 3 year Refresher

Date

04 Jun 2020
04 Apr 2023

Next 3 year Refresher due by Apr 2026

Purpose of classification

2 - Material Characterisation

Address of the waste

One City Road, Manchester

Post Code N/A

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

Characterisation of site investigation data.

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

Characterisation of site investigation data.

Description of the waste

Made ground and natural reworked superficial deposits.

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	WS12 0.30	0.30	Non Hazardous		3
2	WS12 2.30	2.30	Non Hazardous		5
3	WS13 1.40	1.40	Hazardous	HP 7, HP 11, HP 14	6
4	WS14A 1.70	1.70	Non Hazardous		9
5	WS15 0.50	0.50	Non Hazardous		11
6	WS15 1.50	1.50	Non Hazardous		12
7	WS15 2.80	2.80	Non Hazardous		14
8	WS16 0.60	0.60	Non Hazardous		16
9	WS16 2.10	2.10	Non Hazardous		19
10	WS16 3.10	3.10	Unknown. Chemistry data not provided.		21

Related documents

#	Name	Description
1	Ergo i2 Waste Template	waste stream template used to create this Job

Report

Created by: Jonathan Malley

Created date: 04 Sep 2023 14:26 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	22
Appendix B: Rationale for selection of metal species	23
Appendix C: Version	24

Classification of sample: WS12 0.30

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

Sample details

Sample name:	LoW Code:
WS12 0.30	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.30 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				7.9	mg/kg	1.32	10.431	mg/kg	0.00104 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium oxide }				0.1	mg/kg	1.142	0.114	mg/kg	0.0000114 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				22	mg/kg	1.462	32.154	mg/kg	0.00322 %	✓	
		215-160-9	1308-38-9									
4	copper { dicopper oxide; copper (I) oxide }				28	mg/kg	1.126	31.525	mg/kg	0.00315 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
5	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	210	mg/kg		210	mg/kg	0.021 %	✓	
	082-001-00-6											
6	mercury { mercury dichloride }				0.15	mg/kg	1.353	0.203	mg/kg	0.0000203 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
7	nickel { nickel sulfate }				18	mg/kg	2.637	47.46	mg/kg	0.00475 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
8	selenium { nickel selenate }				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
9	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				61	mg/kg	4.398	268.273	mg/kg	0.0268 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
10	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
			TPH									
11	benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
12	toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
13	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
14	xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
16	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 }				0.7 mg/kg	1.884	1.319 mg/kg		0.000132 %	✓	
	006-007-00-5										
17	pH				7.8 pH		7.8 pH		7.8 pH		
			PH								
18	naphthalene				<0.03 mg/kg		<0.03 mg/kg		<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3								
19	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg		<0.000003 %		<LOD
		205-917-1	208-96-8								
20	acenaphthene				<0.03 mg/kg		<0.03 mg/kg		<0.000003 %		<LOD
		201-469-6	83-32-9								
21	fluorene				<0.03 mg/kg		<0.03 mg/kg		<0.000003 %		<LOD
		201-695-5	86-73-7								
22	phenanthrene				0.17 mg/kg		0.17 mg/kg		0.000017 %	✓	
		201-581-5	85-01-8								
23	anthracene				0.04 mg/kg		0.04 mg/kg		0.000004 %	✓	
		204-371-1	120-12-7								
24	fluoranthene				0.25 mg/kg		0.25 mg/kg		0.000025 %	✓	
		205-912-4	206-44-0								
25	pyrene				0.26 mg/kg		0.26 mg/kg		0.000026 %	✓	
		204-927-3	129-00-0								
26	benzo[a]anthracene				0.11 mg/kg		0.11 mg/kg		0.000011 %	✓	
	601-033-00-9	200-280-6	56-55-3								
27	chrysene				0.14 mg/kg		0.14 mg/kg		0.000014 %	✓	
	601-048-00-0	205-923-4	218-01-9								
28	benzo[b]fluoranthene				0.1 mg/kg		0.1 mg/kg		0.00001 %	✓	
	601-034-00-4	205-911-9	205-99-2								
29	benzo[k]fluoranthene				0.04 mg/kg		0.04 mg/kg		0.000004 %	✓	
	601-036-00-5	205-916-6	207-08-9								
30	benzo[a]pyrene; benzo[def]chrysene				0.08 mg/kg		0.08 mg/kg		0.000008 %	✓	
	601-032-00-3	200-028-5	50-32-8								
31	indeno[123-cd]pyrene				0.04 mg/kg		0.04 mg/kg		0.000004 %	✓	
		205-893-2	193-39-5								
32	dibenz[a,h]anthracene				<0.03 mg/kg		<0.03 mg/kg		<0.000003 %		<LOD
	601-041-00-2	200-181-8	53-70-3								
33	benzo[ghi]perylene				0.04 mg/kg		0.04 mg/kg		0.000004 %	✓	
		205-883-8	191-24-2								
34	phenol				<0.3 mg/kg		<0.3 mg/kg		<0.00003 %		<LOD
	604-001-00-2	203-632-7	108-95-2								
Total:									0.0615 %		

Key

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

Classification of sample: WS12 2.30

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

Sample details

Sample name:	LoW Code:	
WS12 2.30	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2.30 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	• pH				7.3 pH		7.3 pH	7.3 pH		
Total:								0%		

Key

 User supplied data
• Determinand defined or amended by HazWasteOnline (see Appendix A)

Classification of sample: WS13 1.40

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

Sample details

Sample name:	LoW Code:
WS13 1.40	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
1.40 m	

Hazard properties

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

Hazard Statements hit:

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.21%)
benzo[b]fluoranthene: (conc.: 0.1%)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.21%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinands:

zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2]: (compound conc.: 0.361%)
phenanthrene: (conc.: 0.17%)
fluoranthene: (conc.: 0.15%)
pyrene: (conc.: 0.14%)
benzo[b]fluoranthene: (conc.: 0.1%)

Determinands

Moisture content: 0% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				21 mg/kg	1.32	27.727 mg/kg	0.00277 %		✓	
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				11 mg/kg	1.142	12.566 mg/kg	0.00126 %		✓	
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				21 mg/kg	1.462	30.693 mg/kg	0.00307 %		✓	
		215-160-9	1308-38-9								

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
4		copper { dicopper oxide; copper (I) oxide }			1	140	mg/kg	1.126	157.624	mg/kg	0.0158 %	✓	
		029-002-00-X	215-270-7	1317-39-1									
5		lead {  lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	590	mg/kg		590	mg/kg	0.059 %	✓	
		082-001-00-6											
6		mercury { mercury dichloride }				1.3	mg/kg	1.353	1.76	mg/kg	0.000176 %	✓	
		080-010-00-X	231-299-8	7487-94-7									
7		nickel { nickel sulfate }				29	mg/kg	2.637	76.464	mg/kg	0.00765 %	✓	
		028-009-00-5	232-104-9	7786-81-4									
8		selenium { nickel selenate }				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
		028-031-00-5	239-125-2	15060-62-5									
9		zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				820	mg/kg	4.398	3606.299	mg/kg	0.361 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
10		TPH (C6 to C40) petroleum group				2100	mg/kg		2100	mg/kg	0.21 %	✓	
				TPH									
11		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
12		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
13		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
14		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
15		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
16		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 }				0.3	mg/kg	1.884	0.565	mg/kg	0.0000565 %	✓	
		006-007-00-5											
17		pH				8.6	pH		8.6	pH	8.6 pH		
				PH									
18		naphthalene				330	mg/kg		330	mg/kg	0.033 %	✓	
		601-052-00-2	202-049-5	91-20-3									
19		acenaphthylene				8.3	mg/kg		8.3	mg/kg	0.00083 %	✓	
			205-917-1	208-96-8									
20		acenaphthene				730	mg/kg		730	mg/kg	0.073 %	✓	
			201-469-6	83-32-9									
21		fluorene				530	mg/kg		530	mg/kg	0.053 %	✓	
			201-695-5	86-73-7									
22		phenanthrene				1700	mg/kg		1700	mg/kg	0.17 %	✓	
			201-581-5	85-01-8									
23		anthracene				680	mg/kg		680	mg/kg	0.068 %	✓	
			204-371-1	120-12-7									
24		fluoranthene				1500	mg/kg		1500	mg/kg	0.15 %	✓	
			205-912-4	206-44-0									
25		pyrene				1400	mg/kg		1400	mg/kg	0.14 %	✓	
			204-927-3	129-00-0									
26		benzo[a]anthracene				980	mg/kg		980	mg/kg	0.098 %	✓	
		601-033-00-9	200-280-6	56-55-3									
27		chrysene				940	mg/kg		940	mg/kg	0.094 %	✓	
		601-048-00-0	205-923-4	218-01-9									
28		benzo[b]fluoranthene				1000	mg/kg		1000	mg/kg	0.1 %	✓	
	601-034-00-4	205-911-9	205-99-2										

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
29	benzo[k]fluoranthene				410 mg/kg		410 mg/kg	0.041 %	✓	
	601-036-00-5	205-916-6	207-08-9							
30	benzo[a]pyrene; benzo[def]chrysene				750 mg/kg		750 mg/kg	0.075 %	✓	
	601-032-00-3	200-028-5	50-32-8							
31	indeno[123-cd]pyrene				350 mg/kg		350 mg/kg	0.035 %	✓	
		205-893-2	193-39-5							
32	dibenz[a,h]anthracene				40 mg/kg		40 mg/kg	0.004 %	✓	
	601-041-00-2	200-181-8	53-70-3							
33	benzo[ghi]perylene				390 mg/kg		390 mg/kg	0.039 %	✓	
		205-883-8	191-24-2							
34	phenol				0.9 mg/kg		0.9 mg/kg	0.00009 %	✓	
	604-001-00-2	203-632-7	108-95-2							
Total:								1.834 %		

Key

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

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 Based on guidance within WM3

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.21%)

Classification of sample: WS14A 1.70

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

Sample details

Sample name:	LoW Code:
WS14A 1.70	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.70 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				6.9	mg/kg	1.32	9.11	mg/kg	0.000911 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium oxide }				0.1	mg/kg	1.142	0.114	mg/kg	0.0000114 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				9.1	mg/kg	1.462	13.3	mg/kg	0.00133 %	✓	
		215-160-9	1308-38-9									
4	copper { dicopper oxide; copper (I) oxide }				34	mg/kg	1.126	38.28	mg/kg	0.00383 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
5	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	24	mg/kg		24	mg/kg	0.0024 %	✓	
	082-001-00-6											
6	mercury { mercury dichloride }				0.07	mg/kg	1.353	0.0947	mg/kg	0.00000947 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
7	nickel { nickel sulfate }				12	mg/kg	2.637	31.64	mg/kg	0.00316 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
8	selenium { nickel selenate }				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
9	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				74	mg/kg	4.398	325.447	mg/kg	0.0325 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
10	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 }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
	006-007-00-5											
11	pH				8.2	pH		8.2	pH	8.2 pH		
12	naphthalene				0.47	mg/kg		0.47	mg/kg	0.000047 %	✓	
	601-052-00-2	202-049-5	91-20-3									
13	acenaphthylene				0.11	mg/kg		0.11	mg/kg	0.000011 %	✓	
		205-917-1	208-96-8									
14	acenaphthene				2.2	mg/kg		2.2	mg/kg	0.00022 %	✓	
		201-469-6	83-32-9									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	fluorene	201-695-5	86-73-7		1.8 mg/kg		1.8 mg/kg	0.00018 %	✓	
16	phenanthrene	201-581-5	85-01-8		14 mg/kg		14 mg/kg	0.0014 %	✓	
17	anthracene	204-371-1	120-12-7		3.7 mg/kg		3.7 mg/kg	0.00037 %	✓	
18	fluoranthene	205-912-4	206-44-0		15 mg/kg		15 mg/kg	0.0015 %	✓	
19	pyrene	204-927-3	129-00-0		12 mg/kg		12 mg/kg	0.0012 %	✓	
20	benzo[a]anthracene	601-033-00-9	200-280-6		5.1 mg/kg		5.1 mg/kg	0.00051 %	✓	
21	chrysene	601-048-00-0	205-923-4		5.2 mg/kg		5.2 mg/kg	0.00052 %	✓	
22	benzo[b]fluoranthene	601-034-00-4	205-911-9		4.8 mg/kg		4.8 mg/kg	0.00048 %	✓	
23	benzo[k]fluoranthene	601-036-00-5	205-916-6		1.9 mg/kg		1.9 mg/kg	0.00019 %	✓	
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		4 mg/kg		4 mg/kg	0.0004 %	✓	
25	indeno[123-cd]pyrene	205-893-2	193-39-5		1.6 mg/kg		1.6 mg/kg	0.00016 %	✓	
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8		0.49 mg/kg		0.49 mg/kg	0.000049 %	✓	
27	benzo[ghi]perylene	205-883-8	191-24-2		1.8 mg/kg		1.8 mg/kg	0.00018 %	✓	
28	phenol	604-001-00-2	203-632-7		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
Total:								0.0518 %		

Key

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

Classification of sample: WS15 0.50

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

Sample details

Sample name:	LoW Code:	
WS15 0.50	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.50 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	• pH				10.6 pH		10.6 pH	10.6 pH		
Total:								0%		

Key

 User supplied data
• Determinand defined or amended by HazWasteOnline (see Appendix A)

Classification of sample: **WS15 1.50**

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

Sample details

Sample name:	LoW Code:
WS15 1.50	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.50 m	

Hazard properties

None identified

Determinands

Moisture content: 0% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1		arsenic { arsenic trioxide }			23	mg/kg	1.32	30.367 mg/kg	0.00304 %	✓	
		033-003-00-0	215-481-4	1327-53-3							
2		cadmium { cadmium oxide }			0.1	mg/kg	1.142	0.114 mg/kg	0.0000114 %	✓	
		048-002-00-0	215-146-2	1306-19-0							
3		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }			14	mg/kg	1.462	20.462 mg/kg	0.00205 %	✓	
			215-160-9	1308-38-9							
4		copper { dicopper oxide; copper (I) oxide }			170	mg/kg	1.126	191.401 mg/kg	0.0191 %	✓	
		029-002-00-X	215-270-7	1317-39-1							
5		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }		1	170	mg/kg		170 mg/kg	0.017 %	✓	
		082-001-00-6									
6		mercury { mercury dichloride }			0.45	mg/kg	1.353	0.609 mg/kg	0.0000609 %	✓	
		080-010-00-X	231-299-8	7487-94-7							
7		nickel { nickel sulfate }			30	mg/kg	2.637	79.101 mg/kg	0.00791 %	✓	
		028-009-00-5	232-104-9	7786-81-4							
8		selenium { nickel selenate }			<0.5	mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD
		028-031-00-5	239-125-2	15060-62-5							
9		zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }			52	mg/kg	4.398	228.692 mg/kg	0.0229 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
10		TPH (C6 to C40) petroleum group			<10	mg/kg		<10 mg/kg	<0.001 %		<LOD
				TPH							
11		benzene			<0.01	mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2							
12		toluene			<0.01	mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3							
13		ethylbenzene			<0.01	mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4							
14		xylene			<0.01	mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
16	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 }				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %			<LOD
	006-007-00-5										
17	pH				7.9 pH		7.9 pH	7.9 pH			
			PH								
18	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
19	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								
20	acenaphthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-469-6	83-32-9								
21	fluorene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-695-5	86-73-7								
22	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-581-5	85-01-8								
23	anthracene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		204-371-1	120-12-7								
24	fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-912-4	206-44-0								
25	pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		204-927-3	129-00-0								
26	benzo[a]anthracene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
27	chrysene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
28	benzo[b]fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
29	benzo[k]fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
30	benzo[a]pyrene; benzo[def]chrysene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
31	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-893-2	193-39-5								
32	dibenz[a,h]anthracene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
33	benzo[ghi]perylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-883-8	191-24-2								
34	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
Total:									0.0733 %		

Key

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

Classification of sample: WS15 2.80

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

Sample details

Sample name:	LoW Code:
WS15 2.80	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2.80 m	

Hazard properties

None identified

Determinands

Moisture content: 0% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				6 mg/kg	1.32	7.922 mg/kg	0.000792 %	✓		
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				21 mg/kg	1.462	30.693 mg/kg	0.00307 %	✓		
		215-160-9	1308-38-9								
4	copper { dicopper oxide; copper (I) oxide }				27 mg/kg	1.126	30.399 mg/kg	0.00304 %	✓		
	029-002-00-X	215-270-7	1317-39-1								
5	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	12 mg/kg		12 mg/kg	0.0012 %	✓		
	082-001-00-6										
6	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
7	nickel { nickel sulfate }				28 mg/kg	2.637	73.827 mg/kg	0.00738 %	✓		
	028-009-00-5	232-104-9	7786-81-4								
8	selenium { nickel selenate }				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %			<LOD
	028-031-00-5	239-125-2	15060-62-5								
9	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				57 mg/kg	4.398	250.682 mg/kg	0.0251 %	✓		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
10	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 }				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %			<LOD
	006-007-00-5										
11	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
12	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								
13	acenaphthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-469-6	83-32-9								
14	fluorene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-695-5	86-73-7								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	phenanthrene	201-581-5	85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
16	anthracene	204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
17	fluoranthene	205-912-4	206-44-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
18	pyrene	204-927-3	129-00-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
19	benzo[a]anthracene	200-280-6	56-55-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
20	chrysene	205-923-4	218-01-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
21	benzo[b]fluoranthene	205-911-9	205-99-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
22	benzo[k]fluoranthene	205-916-6	207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
23	benzo[a]pyrene; benzo[def]chrysene	200-028-5	50-32-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
24	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
25	dibenz[a,h]anthracene	200-181-8	53-70-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
26	benzo[ghi]perylene	205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
27	phenol	203-632-7	108-95-2		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
Total:								0.0408 %		

Key

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

Classification of sample: WS16 0.60

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

Sample details

Sample name:	LoW Code:
WS16 0.60	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.60 m	

Hazard properties

None identified

Determinands

Moisture content: 0% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number								
1		arsenic { arsenic trioxide }				8.6 mg/kg	1.32	11.355 mg/kg	0.00114 %	✓		
		033-003-00-0	215-481-4	1327-53-3								
2		cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD	
		048-002-00-0	215-146-2	1306-19-0								
3		chromium in chromium(III) compounds {  chromium(III) oxide (worst case) }				11 mg/kg	1.462	16.077 mg/kg	0.00161 %	✓		
			215-160-9	1308-38-9								
4		copper { dicopper oxide ; copper (I) oxide }				39 mg/kg	1.126	43.91 mg/kg	0.00439 %	✓		
		029-002-00-X	215-270-7	1317-39-1								
5		lead {  lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	58 mg/kg		58 mg/kg	0.0058 %	✓		
		082-001-00-6										
6		mercury { mercury dichloride }				0.18 mg/kg	1.353	0.244 mg/kg	0.0000244 %	✓		
		080-010-00-X	231-299-8	7487-94-7								
7		nickel { nickel sulfate }				13 mg/kg	2.637	34.277 mg/kg	0.00343 %	✓		
		028-009-00-5	232-104-9	7786-81-4								
8		selenium { nickel selenate }				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD	
		028-031-00-5	239-125-2	15060-62-5								
9		zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				44 mg/kg	4.398	193.509 mg/kg	0.0194 %	✓		
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
10		TPH (C6 to C40) petroleum group				31 mg/kg		31 mg/kg	0.0031 %	✓		
				TPH								
11		benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
		601-020-00-8	200-753-7	71-43-2								
12		toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
		601-021-00-3	203-625-9	108-88-3								
13		ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
		601-023-00-4	202-849-4	100-41-4								
14		xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
16	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 }				0.3 mg/kg	1.884	0.565 mg/kg	0.0000565 %		✓	
	006-007-00-5										
17	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
18	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								
19	acenaphthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-469-6	83-32-9								
20	fluorene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-695-5	86-73-7								
21	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-581-5	85-01-8								
22	anthracene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		204-371-1	120-12-7								
23	fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-912-4	206-44-0								
24	pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		204-927-3	129-00-0								
25	benzo[a]anthracene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
26	chrysene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
27	benzo[b]fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
28	benzo[k]fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
29	benzo[a]pyrene; benzo[def]chrysene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
30	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-893-2	193-39-5								
31	dibenz[a,h]anthracene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
32	benzo[ghi]perylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-883-8	191-24-2								
33	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
Total:									0.0391 %		

Key

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

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 Based on guidance within WM3

Hazard Statements hit:

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



Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0031%)

Classification of sample: WS16 2.10

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

Sample details

Sample name:	LoW Code:
WS16 2.10	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.10 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number								
1		arsenic { arsenic trioxide }				9 mg/kg	1.32	11.883 mg/kg	0.00119 %	✓		
		033-003-00-0	215-481-4	1327-53-3								
2		cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD	
		048-002-00-0	215-146-2	1306-19-0								
3		chromium in chromium(III) compounds {  chromium(III) oxide (worst case) }				20 mg/kg	1.462	29.231 mg/kg	0.00292 %	✓		
			215-160-9	1308-38-9								
4		copper { dicopper oxide ; copper (I) oxide }				56 mg/kg	1.126	63.05 mg/kg	0.0063 %	✓		
		029-002-00-X	215-270-7	1317-39-1								
5		lead {  lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	64 mg/kg		64 mg/kg	0.0064 %	✓		
		082-001-00-6										
6		mercury { mercury dichloride }				0.27 mg/kg	1.353	0.365 mg/kg	0.0000365 %	✓		
		080-010-00-X	231-299-8	7487-94-7								
7		nickel { nickel sulfate }				27 mg/kg	2.637	71.19 mg/kg	0.00712 %	✓		
		028-009-00-5	232-104-9	7786-81-4								
8		selenium { nickel selenate }				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD	
		028-031-00-5	239-125-2	15060-62-5								
9		zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				53 mg/kg	4.398	233.09 mg/kg	0.0233 %	✓		
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
10		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 }				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<LOD	
		006-007-00-5										
11		naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
		601-052-00-2	202-049-5	91-20-3								
12		acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
			205-917-1	208-96-8								
13		acenaphthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
			201-469-6	83-32-9								
14		fluorene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
			201-695-5	86-73-7								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	phenanthrene	201-581-5	85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
16	anthracene	204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
17	fluoranthene	205-912-4	206-44-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
18	pyrene	204-927-3	129-00-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
19	benzo[a]anthracene	601-033-00-9	200-280-6		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
20	chrysene	601-048-00-0	205-923-4		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
21	benzo[b]fluoranthene	601-034-00-4	205-911-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
22	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
23	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
24	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
25	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
26	benzo[ghi]perylene	205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
27	phenol	604-001-00-2	203-632-7		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
Total:								0.0475 %		

Key

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

Classification of sample: WS16 3.10



Unknown. Chemistry data not provided.

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

Sample details

Sample name:	LoW Code:
WS16 3.10	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
3.10 m	

Hazard properties

None identified

Determinands

Moisture content: 0% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
Total:								0%		

Key

User supplied data

Appendix A: Classifier defined and non GB MCL determinands

■ chromium(III) oxide (worst case) (EC Number: 215-160-9, CAS Number: 1308-38-9)

Description/Comments: Data from C&L Inventory Database

Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4; H332, Acute Tox. 4; H302, Eye Irrit. 2; H319, STOT SE 3; H335, Skin Irrit. 2; H315, Resp. Sens. 1; H334, Skin Sens. 1; H317, Repr. 1B; H360FD, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

■ lead compounds with the exception of those specified elsewhere in this Annex (worst case)

GB MCL index number: 082-001-00-6

Description/Comments: Worst Case: IARC considers lead compounds Group 2A; Probably carcinogenic to humans; Lead REACH Consortium, following MCL protocols, considers lead compounds from smelting industries, flue dust and similar to be Carcinogenic category 1A

Additional Hazard Statement(s): Carc. 1A; H350

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 1A; H350 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium www.reach-lead.eu/substanceinformation.html (worst case lead compounds). Review date 29/09/2015

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

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

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

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

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

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

Description/Comments:

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

Reason for additional Hazards Statement(s):

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

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

GB MCL index number: 006-007-00-5

Description/Comments: Conversion factor based on a worst case compound: sodium cyanide

Additional Hazard Statement(s): EUH032 >= 0.2 %

Reason for additional Hazards Statement(s):

20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

■ pH (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 06 Aug 2015

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

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 06 Aug 2015

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

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 21 Aug 2015

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

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

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

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

Data source date: 21 Aug 2015

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

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 06 Aug 2015

Hazard Statements: Carc. 2; H351

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

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

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

Data source date: 23 Jul 2015

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

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

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

cadmium {cadmium oxide}

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

chromium in chromium(III) compounds {chromium(III) oxide (worst case)}

Worst case species based on hazard statements/molecular weight.

copper {dicopper oxide; copper (I) oxide}

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

lead {lead compounds with the exception of those specified elsewhere in this Annex (worst case)}

Worst case species based on hazard statements/molecular weight.

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight

nickel {nickel sulfate}

Worst case species based on hazard statements/molecular weight.

selenium {nickel selenate}

Worst case CLP species based on hazard statements/molecular weight

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

Worst case species based on hazard statements/molecular weight.

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}

Worst case species based on hazard statements/molecular weight.

Appendix C: Version

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

HazWasteOnline Classification Engine Version: 2023.237.5731.10565 (25 Aug 2023)

HazWasteOnline Database: 2023.237.5731.10565 (25 Aug 2023)

This classification utilises the following guidance and legislation:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

2020 No. 1540 of 16th December 2020

GB MCL List - version 1.1 of 09 June 2021



Certificate of Analysis

Certificate Number 23-18879

Issued: 30-Aug-23

Client NX Consulting Ltd
Station House
Stamford New Road
Altricham
WA14 1EP

Our Reference 23-18879

Client Reference NX406

Order No NX406

Contract Title One City Road, Manchester

Description 10 Soil samples, 2 Leachate samples.

Date Received 08-Aug-23

Date Started 08-Aug-23

Date Completed 30-Aug-23

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

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

Approved By

Kirk Bridgewood
General Manager



2139

Summary of Chemical Analysis

Soil Samples

Our Ref 23-18879

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2215591	2215592	2215593	2215594	2215595	2215596
Sample ID	WS12	WS12	WS13	WS14A	WS15	WS15
Depth	0.30	2.30	1.40	1.70	0.50	1.50
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	03/08/2023	04/08/2023	04/08/2023	04/08/2023	03/08/2023	04/08/2023
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg	7.9		21	6.9		23
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	0.7		1.6	0.4		1.3
Cadmium	DETSC 2301#	0.1	mg/kg	0.1		11	0.1		0.1
Chromium	DETSC 2301#	0.15	mg/kg	22		21	9.1		14
Copper	DETSC 2301#	0.2	mg/kg	28		140	34		170
Lead	DETSC 2301#	0.3	mg/kg	210		590	24		170
Mercury	DETSC 2325#	0.05	mg/kg	0.15		1.3	0.07		0.45
Nickel	DETSC 2301#	1	mg/kg	18		29	12		30
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5		< 0.5	< 0.5		< 0.5
Zinc	DETSC 2301#	1	mg/kg	61		820	74		52
Inorganics									
pH	DETSC 2008#		pH	7.8	7.3	8.6	8.2	10.6	7.9
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.7		0.3	< 0.1		< 0.1
Total Organic Carbon	DETSC 2084#	0.5	%	1.9		7.8			9.2
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l		110			310	
Sulphide	DETSC 2024*	10	mg/kg	27		20	27		27
Sulphate as SO4, Total	DETSC 2321#	100	mg/kg	735		2920	396		1780
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01		< 0.01			< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01		< 0.01			< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01		< 0.01			< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5		4.2			< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2		13			< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5		17			< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4		28			< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10		63			< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01		< 0.01			< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01		< 0.01			< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01		< 0.01			< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9		18			< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5		230			< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6		870			< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4		950			< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10		2100			< 10
TPH Ali/Aro Total C5-C35	DETSC 3072*	10	mg/kg	< 10		2100			< 10
Benzene	DETSC 3321#	0.01	mg/kg	< 0.01		< 0.01			< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.01		< 0.01			< 0.01
Toluene	DETSC 3321#	0.01	mg/kg	< 0.01		< 0.01			< 0.01
Xylene	DETSC 3321#	0.01	mg/kg	< 0.01		< 0.01			< 0.01
MTBE	DETSC 3321	0.01	mg/kg	< 0.01		< 0.01			< 0.01

Summary of Chemical Analysis

Soil Samples

Our Ref 23-18879

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2215591	2215592	2215593	2215594	2215595	2215596
Sample ID	WS12	WS12	WS13	WS14A	WS15	WS15
Depth	0.30	2.30	1.40	1.70	0.50	1.50
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	03/08/2023	04/08/2023	04/08/2023	04/08/2023	03/08/2023	04/08/2023
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
PAHs									
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03		330	0.47		< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03		8.3	0.11		< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03		730	2.2		< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03		530	1.8		< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.17		1700	14		< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	0.04		680	3.7		< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.25		1500	15		< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	0.26		1400	12		< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.11		980	5.1		< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	0.14		940	5.2		< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.10		1000	4.8		< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.04		410	1.9		< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.08		750	4.0		< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.04		350	1.6		< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03		40	0.49		< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.04		390	1.8		< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	1.3		12000	74		< 0.10
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3		0.9	< 0.3		< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 23-18879

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2215597	2215598	2215599	2215600
Sample ID	WS15	WS16	WS16	WS16
Depth	2.80	0.60	2.10	3.10
Other ID				
Sample Type	SOIL	SOIL	SOIL	SOIL
Sampling Date	04/08/2023	04/08/2023	04/08/2023	04/08/2023
Sampling Time	n/s	n/s	n/s	n/s

Test	Method	LOD	Units				
Metals							
Arsenic	DETSC 2301#	0.2	mg/kg	6.0	8.6	9.0	
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	0.7	0.9	1.0	
Cadmium	DETSC 2301#	0.1	mg/kg	0.1	< 0.1	< 0.1	
Chromium	DETSC 2301#	0.15	mg/kg	21	11	20	
Copper	DETSC 2301#	0.2	mg/kg	27	39	56	
Lead	DETSC 2301#	0.3	mg/kg	12	58	64	
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	0.18	0.27	
Nickel	DETSC 2301#	1	mg/kg	28	13	27	
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	
Zinc	DETSC 2301#	1	mg/kg	57	44	53	
Inorganics							
pH	DETSC 2008#		pH	8.0	7.0	7.2	8.0
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1	0.3	< 0.1	
Total Organic Carbon	DETSC 2084#	0.5	%		2.7		
Sulphate Aqueous Extract as SO ₄ (2:1)	DETSC 2076#	10	mg/l			220	53
Sulphide	DETSC 2024*	10	mg/kg	43	12	24	
Sulphate as SO ₄ , Total	DETSC 2321#	100	mg/kg	540	2360	1150	
Petroleum Hydrocarbons							
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg		< 0.01		
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg		< 0.01		
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg		< 0.01		
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg		< 1.5		
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg		< 1.2		
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg		< 1.5		
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg		< 3.4		
Aliphatic C5-C35	DETSC 3072*	10	mg/kg		< 10		
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg		< 0.01		
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg		< 0.01		
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg		< 0.01		
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg		2.8		
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg		2.1		
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg		12		
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg		14		
Aromatic C5-C35	DETSC 3072*	10	mg/kg		31		
TPH Ali/Aro Total C5-C35	DETSC 3072*	10	mg/kg		31		
Benzene	DETSC 3321#	0.01	mg/kg		< 0.01		
Ethylbenzene	DETSC 3321#	0.01	mg/kg		< 0.01		
Toluene	DETSC 3321#	0.01	mg/kg		< 0.01		
Xylene	DETSC 3321#	0.01	mg/kg		< 0.01		
MTBE	DETSC 3321	0.01	mg/kg		< 0.01		

Summary of Chemical Analysis

Soil Samples

Our Ref 23-18879

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2215597	2215598	2215599	2215600
Sample ID	WS15	WS16	WS16	WS16
Depth	2.80	0.60	2.10	3.10
Other ID				
Sample Type	SOIL	SOIL	SOIL	SOIL
Sampling Date	04/08/2023	04/08/2023	04/08/2023	04/08/2023
Sampling Time	n/s	n/s	n/s	n/s

Test	Method	LOD	Units				
PAHs							
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10	< 0.10	< 0.10	
Phenols							
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3	

Summary of Chemical Analysis

Soil VOC/SVOC Samples

Our Ref 23-18879

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2215592	2215595	2215599
Sample ID	WS12	WS15	WS16
Depth	2.30	0.50	2.10
Other ID			
Sample Type	SOIL	SOIL	SOIL
Sampling Date	04/08/2023	03/08/2023	04/08/2023
Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
VOCs						
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	0.01	< 0.01	0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01

Summary of Chemical Analysis

Soil VOC/SVOC Samples

Our Ref 23-18879

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2215592	2215595	2215599
Sample ID	WS12	WS15	WS16
Depth	2.30	0.50	2.10
Other ID			
Sample Type	SOIL	SOIL	SOIL
Sampling Date	04/08/2023	03/08/2023	04/08/2023
Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Naphthalene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
SVOCs						
Phenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Chlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Benzyl Alcohol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Hexachlorocyclopentadiene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Acenaphthylene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	
3-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Acenaphthene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	
4-Nitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dibenzofuran	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Diethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Chlorophenylphenylether	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Fluorene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	

Summary of Chemical Analysis

Soil VOC/SVOC Samples

Our Ref 23-18879

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2215592	2215595	2215599
Sample ID	WS12	WS15	WS16
Depth	2.30	0.50	2.10
Other ID			
Sample Type	SOIL	SOIL	SOIL
Sampling Date	04/08/2023	03/08/2023	04/08/2023
Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
4-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Methyl-4,6-Dinitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Diphenylamine	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Bromophenylphenylether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Pentachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Phenanthrene	DETSC 3433	0.1	mg/kg	< 0.1	0.7	
Anthracene	DETSC 3433	0.1	mg/kg	< 0.1	0.2	
Di-n-butylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Fluoranthene	DETSC 3433	0.1	mg/kg	< 0.1	0.8	
Pyrene	DETSC 3433	0.1	mg/kg	< 0.1	0.8	
Butylbenzylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	DETSC 3433	0.1	mg/kg	0.1	0.4	
Chrysene	DETSC 3433	0.1	mg/kg	< 0.1	0.6	
Bis(2-ethylhexyl)phthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Di-n-octylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	
Benzo(k)fluoranthene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	
Benzo(a)pyrene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	
Indeno(123cd)pyrene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	
Dibenzo(ah)anthracene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	
Benzo(ghi)perylene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	
1,4-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dimethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,3-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,2-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,3,5,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Azobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Carbazole	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1

WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 23-18879

Client Ref NX406

Contract Title One City Road, Manchester

Sample Id WS13 1.40

Sample Numbers 2215593 2215601

Date Analysed 25/08/2023

Test Results On Waste			WAC Limit Values		
Determinand and Method Reference	Units	Result	Inert Waste	SNRHW	Hazardous Waste
DETS 2084# Total Organic Carbon	%	7.8	3	5	6
DETS 2003# Loss On Ignition	%	6.8	n/a	n/a	10
DETS 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETS 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETS 3311# TPH (C10 - C40)	mg/kg	6900.0	500	n/a	n/a
DETS 3301 PAHs	mg/kg	1900.0	100	n/a	n/a
DETS 2008# pH	pH Units	8.6	n/a	>6	n/a
DETS 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETS 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate			WAC Limit Values		
Determinand and Method Reference	Conc in Eluate ug/l	Amount Leached* mg/kg	Limit values for LS10 Leachate		
	10:1	LS10	Inert Waste	SNRHW	Hazardous Waste
DETS 2306 Arsenic as As	1.9	0.019	0.5	2	25
DETS 2306 Barium as Ba	33	0.33	20	100	300
DETS 2306 Cadmium as Cd	0.075	< 0.02	0.04	1	5
DETS 2306 Chromium as Cr	0.37	< 0.1	0.5	10	70
DETS 2306 Copper as Cu	1.4	< 0.02	2	50	100
DETS 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETS 2306 Molybdenum as Mo	2.7	< 0.1	0.5	10	30
DETS 2306 Nickel as Ni	< 0.50	< 0.1	0.4	10	40
DETS 2306 Lead as Pb	1.9	< 0.05	0.5	10	50
DETS 2306 Antimony as Sb	1.5	< 0.05	0.06	0.7	5
DETS 2306 Selenium as Se	0.63	< 0.03	0.1	0.5	7
DETS 2306 Zinc as Zn	4.2	0.042	4	50	200
DETS 2055 Chloride as Cl	2600	< 100	800	15,000	25,000
DETS 2055* Fluoride as F	220	2.2	10	150	500
DETS 2055 Sulphate as SO4	53000	530	1000	20,000	50,000
DETS 2009* Total Dissolved Solids	190000	1900	4000	60,000	100,000
DETS 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETS 2085 Dissolved Organic Carbon	2800	< 50	500	800	1000

Additional Information	
DETS 2008 pH	7.0
DETS 2009 Conductivity uS/cm	267.0
* Temperature*	20.0
Mass of Sample Kg*	0.110
Mass of dry Sample Kg*	0.098
Stage 1	
Volume of Leachant L2*	0.967
Volume of Eluate VE1*	0.91

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive
Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.

* DETS are accredited for the testing of leachates and not the leachate preparation stage which is unaccredited.

WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 23-18879

Client Ref NX406

Contract Title One City Road, Manchester

Sample Id WS16 0.60

Sample Numbers 2215598 2215602

Date Analysed 25/08/2023

Test Results On Waste			WAC Limit Values		
Determinand and Method Reference	Units	Result	Inert Waste	SNRHW	Hazardous Waste
DETS 2084# Total Organic Carbon	%	2.7	3	5	6
DETS 2003# Loss On Ignition	%	5.2	n/a	n/a	10
DETS 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETS 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETS 3311# TPH (C10 - C40)	mg/kg	< 10	500	n/a	n/a
DETS 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETS 2008# pH	pH Units	7.0	n/a	>6	n/a
DETS 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETS 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate			WAC Limit Values		
Determinand and Method Reference	Conc in Eluate ug/l	Amount Leached* mg/kg	Limit values for LS10 Leachate		
	10:1	LS10	Inert Waste	SNRHW	Hazardous Waste
DETS 2306 Arsenic as As	0.76	< 0.01	0.5	2	25
DETS 2306 Barium as Ba	26	0.26	20	100	300
DETS 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETS 2306 Chromium as Cr	< 0.25	< 0.1	0.5	10	70
DETS 2306 Copper as Cu	1.8	< 0.02	2	50	100
DETS 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETS 2306 Molybdenum as Mo	< 1.1	< 0.1	0.5	10	30
DETS 2306 Nickel as Ni	0.69	< 0.1	0.4	10	40
DETS 2306 Lead as Pb	0.51	< 0.05	0.5	10	50
DETS 2306 Antimony as Sb	0.27	< 0.05	0.06	0.7	5
DETS 2306 Selenium as Se	< 0.25	< 0.03	0.1	0.5	7
DETS 2306 Zinc as Zn	4.7	0.047	4	50	200
DETS 2055 Chloride as Cl	2500	< 100	800	15,000	25,000
DETS 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETS 2055 Sulphate as SO4	76000	760	1000	20,000	50,000
DETS 2009* Total Dissolved Solids	180000	1800	4000	60,000	100,000
DETS 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETS 2085 Dissolved Organic Carbon	2600	< 50	500	800	1000

Additional Information	
DETS 2008 pH	7.0
DETS 2009 Conductivity uS/cm	261.0
* Temperature*	20.0
Mass of Sample Kg*	0.110
Mass of dry Sample Kg*	0.094
Stage 1	
Volume of Leachant L2*	0.926
Volume of Eluate VE1*	0.87

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive
Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.

* DETS are accredited for the testing of leachates and not the leachate preparation stage which is unaccredited.

Summary of Asbestos Analysis

Soil Samples

Our Ref 23-18879

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2215591	WS12 0.30	SOIL	NAD	none	Robertas Ciparis
2215593	WS13 1.40	SOIL	NAD	none	Robertas Ciparis
2215596	WS15 1.50	SOIL	NAD	none	Robertas Ciparis
2215598	WS16 0.60	SOIL	NAD	none	Robertas Ciparis

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * - not included in laboratory scope of accreditation.

Information in Support of the Analytical Results

Our Ref 23-18879
 Client Ref NX406
 Contract One City Road, Manchester

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
2215591	WS12 0.30 SOIL	03/08/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2215592	WS12 2.30 SOIL	04/08/23	GJ 250ml, GJ 60ml x2, PT 1L		
2215593	WS13 1.40 SOIL	04/08/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2215594	WS14A 1.70 SOIL	04/08/23	GJ 250ml, GJ 60ml x2, PT 1L		
2215595	WS15 0.50 SOIL	03/08/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2215596	WS15 1.50 SOIL	04/08/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2215597	WS15 2.80 SOIL	04/08/23	GJ 250ml, GJ 60ml x2, PT 1L		
2215598	WS16 0.60 SOIL	04/08/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2215599	WS16 2.10 SOIL	04/08/23	GJ 250ml, GJ 60ml x2, PT 1L		
2215600	WS16 3.10 SOIL	04/08/23	GJ 250ml, GJ 60ml x2, PT 1L		
2215601	WS13 1.40 LEACHATE	04/08/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2215602	WS16 0.60 LEACHATE	04/08/23	GJ 250ml, GJ 60ml x2, PT 1L x2		

Key: G-Glass P-Plastic J-Jar T-Tub

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

Soil Analysis Notes

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

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

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

Disposal

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

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

End of Report



DETS

Certificate of Analysis

Certificate Number 23-18323

Issued: 18-Aug-23

Client NX Consulting Ltd
Station House
Stamford New Road
Altricham
WA14 1EP

Our Reference 23-18323

Client Reference NX406

Order No NX406

Contract Title One City Road, Manchester

Description 3 Water samples.

Date Received 01-Aug-23

Date Started 01-Aug-23

Date Completed 18-Aug-23

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

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

Approved By



Kirk Bridgewood
General Manager



Summary of Chemical Analysis

Water Samples

Our Ref 23-18323

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2211938	2211939	2211940
Sample ID	WS05	WS08	RBH01
Depth	3.30	2.70	4.20
Other ID			
Sample Type	WATER	WATER	WATER
Sampling Date	31/07/2023	31/07/2023	31/07/2023
Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
Metals						
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	3.1	0.48	2.0
Barium, Dissolved	DETSC 2306	0.26	ug/l	76	67	68
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1	< 0.1	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	70	110	58
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	0.09	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25	< 0.25	< 0.25
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.9	2.2	4.4
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.47	< 0.09	0.41
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	< 0.01	< 0.01
Nickel, Dissolved	DETSC 2306	0.5	ug/l	0.8	3.2	1.3
Selenium, Dissolved	DETSC 2306	0.25	ug/l	5.7	2.8	2.0
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	2.3	< 0.6	2.2
Zinc, Dissolved	DETSC 2306	1.3	ug/l	1.8	2.8	11
Inorganics						
Total Organic Carbon	DETSC 2033	0.1	mg/l	2.4	4.1	3.9
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	1.5
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	20
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	590
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	610
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	6.3
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	21
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	65
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	530
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	620
TPH Ali/Aro Total C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	1200
Benzene	DETSC 3322	1	ug/l	< 1.0	< 1.0	< 1.0
Toluene	DETSC 3322	1	ug/l	< 1.0	< 1.0	< 1.0
Ethylbenzene	DETSC 3322	1	ug/l	< 1.0	< 1.0	< 1.0
Xylene	DETSC 3322	1	ug/l	< 1.0	< 1.0	< 1.0
MTBE	DETSC 3322	1	ug/l	< 1.0	< 1.0	< 1.0
PAHs						
Naphthalene	DETSC 3304	0.05	ug/l	< 0.05	< 0.05	< 0.05
Acenaphthylene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 0.01

Summary of Chemical Analysis

Water Samples

Our Ref 23-18323

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2211938	2211939	2211940
Sample ID	WS05	WS08	RBH01
Depth	3.30	2.70	4.20
Other ID			
Sample Type	WATER	WATER	WATER
Sampling Date	31/07/2023	31/07/2023	31/07/2023
Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
Acenaphthene	DETSC 3304	0.01	ug/l	< 0.01	0.03	< 0.01
Fluorene	DETSC 3304	0.01	ug/l	< 0.01	0.02	0.01
Phenanthrene	DETSC 3304	0.01	ug/l	0.02	0.16	0.03
Anthracene	DETSC 3304	0.01	ug/l	< 0.01	0.04	0.02
Fluoranthene	DETSC 3304	0.01	ug/l	0.02	0.14	0.05
Pyrene	DETSC 3304	0.01	ug/l	0.03	0.13	0.07
Benzo(a)anthracene	DETSC 3304*	0.01	ug/l	0.03	0.07	0.03
Chrysene	DETSC 3304	0.01	ug/l	0.03	0.08	0.02
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.05	0.06	0.03
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	0.02	0.02	< 0.01
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	0.05	0.05	0.02
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	0.05	0.03	0.01
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 0.01
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	0.05	0.03	0.01
PAH Total	DETSC 3304	0.2	ug/l	0.36	0.86	0.31
PCBs						
PCB 28 + PCB 31	DETSC 3402	0.3	ug/l	< 0.3	< 0.3	< 0.3
PCB 52	DETSC 3402	0.2	ug/l	< 0.2	< 0.2	< 0.2
PCB 101	DETSC 3402	0.3	ug/l	< 0.3	< 0.3	< 0.3
PCB 118 + PCB 123	DETSC 3402	0.6	ug/l	< 0.6	< 0.6	< 0.6
PCB 138	DETSC 3402	0.2	ug/l	< 0.2	< 0.2	< 0.2
PCB 153	DETSC 3402	0.2	ug/l	< 0.2	< 0.2	< 0.2
PCB 180	DETSC 3402	0.2	ug/l	< 0.2	< 0.2	< 0.2
PCB 7 Total	DETSC 3402	1	ug/l	< 1.0	< 1.0	< 1.0

Summary of Chemical Analysis

Water Samples

Our Ref 23-18323

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2211938	2211939	2211940
Sample ID	WS05	WS08	RBH01
Depth	3.30	2.70	4.20
Other ID			
Sample Type	WATER	WATER	WATER
Sampling Date	31/07/2023	31/07/2023	31/07/2023
Sampling Time	n/s	n/s	n/s

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

Summary of Chemical Analysis

Water Samples

Our Ref 23-18323

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2211938	2211939	2211940
Sample ID	WS05	WS08	RBH01
Depth	3.30	2.70	4.20
Other ID			
Sample Type	WATER	WATER	WATER
Sampling Date	31/07/2023	31/07/2023	31/07/2023
Sampling Time	n/s	n/s	n/s

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

Summary of Chemical Analysis

Water Samples

Our Ref 23-18323

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2211938	2211939	2211940
Sample ID	WS05	WS08	RBH01
Depth	3.30	2.70	4.20
Other ID			
Sample Type	WATER	WATER	WATER
Sampling Date	31/07/2023	31/07/2023	31/07/2023
Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
2,3,4,6-Tetrachlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0	< 1.0
Diethylphthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0	< 1.0
4-Chlorophenylphenylether	DETSC 3434*	1	ug/l	< 1.0	< 1.0	< 1.0
4-Nitroaniline	DETSC 3434*	1	ug/l	< 1.0	< 1.0	< 1.0
Diphenylamine	DETSC 3434*	1	ug/l	< 1.0	< 1.0	< 1.0
4-Bromophenylphenylether	DETSC 3434*	1	ug/l	< 1.0	< 1.0	< 1.0
Hexachlorobenzene	DETSC 3434*	1	ug/l	< 1.0	< 1.0	< 1.0
Bis(2-ethylhexyl)ester	DETSC 3434*	1	ug/l	< 1.0	< 1.0	< 1.0
Pentachlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0	< 1.0
Di-n-butylphthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0	< 1.0
Butylbenzylphthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0	< 1.0
Bis(2-ethylhexyl)phthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0	< 1.0
Di-n-octylphthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0	< 1.0
1,4-Dinitrobenzene	DETSC 3434*	1	ug/l	< 1.0	< 1.0	< 1.0
Dimethylphthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0	< 1.0
1,3-Dinitrobenzene	DETSC 3434*	1	ug/l	< 1.0	< 1.0	< 1.0
2,3,5,6-Tetrachlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0	< 1.0
Azobenzene	DETSC 3434*	1	ug/l	< 1.0	< 1.0	< 1.0
Carbazole	DETSC 3434*	1	ug/l	< 1.0	< 1.0	< 1.0
1-Methylnaphthalene	DETSC 3434*	1	ug/l	< 1.0	< 1.0	< 1.0

Information in Support of the Analytical Results

Our Ref 23-18323
 Client Ref NX406
 Contract One City Road, Manchester

Containers Received & Deviating Samples

Lab No	Sample ID	Date		Holding time exceeded for tests	Inappropriate container for tests
		Sampled	Containers Received		
2211938	WS05 3.30 WATER	31/07/23	GB 1L, GV, PB 1L		
2211939	WS08 2.70 WATER	31/07/23	GB 1L, GV, PB 1L		
2211940	RBH01 4.20 WATER	31/07/23	GB 1L, GV, PB 1L		

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

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

Disposal

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

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

End of Report



Certificate of Analysis

Certificate Number 23-18528

Issued: 22-Aug-23

Client NX Consulting Ltd
Station House
Stamford New Road
Altricham
WA14 1EP

Our Reference 23-18528

Client Reference NX406

Order No NX406

Contract Title One City Raod, Manchester

Description 2 Water samples.

Date Received 03-Aug-23

Date Started 03-Aug-23

Date Completed 22-Aug-23

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

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

Approved By

Kirk Bridgewood
General Manager



Summary of Chemical Analysis

Water Samples

Our Ref 23-18528

Client Ref NX406

Contract Title One City Raod, Manchester

Lab No	2213347	2213348
	RIVER MEDLOCK S1	RIVER MEDLOCK S2
Sample ID		
Depth		
Other ID		
Sample Type	WATER	WATER
Sampling Date	01/08/2023	01/08/2023
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Metals					
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	1.3	1.2
Barium, Dissolved	DETSC 2306	0.26	ug/l	44	46
Beryllium, Dissolved	DETSC 2306*	0.1	ug/l	< 0.1	< 0.1
Boron, Dissolved	DETSC 2306*	12	ug/l	41	49
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	0.46	0.64
Copper, Dissolved	DETSC 2306	0.4	ug/l	5.5	5.4
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.44	0.48
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	< 0.01
Nickel, Dissolved	DETSC 2306	0.5	ug/l	2.1	2.4
Selenium, Dissolved	DETSC 2306	0.25	ug/l	0.53	0.75
Vanadium, Dissolved	DETSC 2306	0.6	ug/l	2.0	3.4
Zinc, Dissolved	DETSC 2306	1.3	ug/l	5.4	6.0
Inorganics					
Total Organic Carbon	DETSC 2085	1	mg/l	27	26
Petroleum Hydrocarbons					
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10
TPH Ali/Aro Total C5-C35	DETSC 3072*	10	ug/l	< 10	< 10
Benzene	DETSC 3322	1	ug/l	< 1.0	< 1.0
Toluene	DETSC 3322	1	ug/l	< 1.0	< 1.0
Ethylbenzene	DETSC 3322	1	ug/l	< 1.0	< 1.0
Xylene	DETSC 3322	1	ug/l	< 1.0	< 1.0
MTBE	DETSC 3322	1	ug/l	< 1.0	< 1.0

Summary of Chemical Analysis

Water Samples

Our Ref 23-18528

Client Ref NX406

Contract Title One City Raod, Manchester

Lab No	2213347	2213348
	RIVER MEDLOCK S1	RIVER MEDLOCK S2
Sample ID		
Depth		
Other ID		
Sample Type	WATER	WATER
Sampling Date	01/08/2023	01/08/2023
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
PAHs					
Naphthalene	DETSC 3304	0.05	ug/l	< 0.05	< 0.05
Acenaphthylene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Acenaphthene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Fluorene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Phenanthrene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Anthracene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Pyrene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Benzo(a)anthracene	DETSC 3304*	0.01	ug/l	< 0.01	< 0.01
Chrysene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
PAH Total	DETSC 3304	0.2	ug/l	< 0.20	< 0.20
PCBs					
PCB 28 + PCB 31	DETSC 3402	0.3	ug/l	< 0.3	< 0.3
PCB 52	DETSC 3402	0.2	ug/l	< 0.2	< 0.2
PCB 101	DETSC 3402	0.3	ug/l	< 0.3	< 0.3
PCB 118 + PCB 123	DETSC 3402	0.6	ug/l	< 0.6	< 0.6
PCB 138	DETSC 3402	0.2	ug/l	< 0.2	< 0.2
PCB 153	DETSC 3402	0.2	ug/l	< 0.2	< 0.2
PCB 180	DETSC 3402	0.2	ug/l	< 0.2	< 0.2
PCB 7 Total	DETSC 3402	1	ug/l	< 1.0	< 1.0

Summary of Chemical Analysis

Water Samples

Our Ref 23-18528

Client Ref NX406

Contract Title One City Raod, Manchester

Lab No	2213347	2213348
	RIVER MEDLOCK S1	RIVER MEDLOCK S2
Sample ID		
Depth		
Other ID		
Sample Type	WATER	WATER
Sampling Date	01/08/2023	01/08/2023
Sampling Time	n/s	n/s

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

Summary of Chemical Analysis

Water Samples

Our Ref 23-18528

Client Ref NX406

Contract Title One City Raod, Manchester

Lab No	2213347	2213348
	RIVER MEDLOCK S1	RIVER MEDLOCK S2
Sample ID		
Depth		
Other ID		
Sample Type	WATER	WATER
Sampling Date	01/08/2023	01/08/2023
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
1,1,2,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1
Bromobenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2,3-trichloropropane	DETSC 3432	1	ug/l	< 1	< 1
n-propylbenzene	DETSC 3432	1	ug/l	< 1	< 1
2-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1
1,3,5-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
4-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1
Tert-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2,4-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
sec-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
p-isopropyltoluene	DETSC 3432	1	ug/l	< 1	< 1
1,3-dichlorobenzene	DETSC 3432	2	ug/l	< 2	< 2
1,4-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
n-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dibromo-3-chloropropane	DETSC 3432	1	ug/l	< 1	< 1
1,2,4-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
Hexachlorobutadiene	DETSC 3432	1	ug/l	< 1	< 1
1,2,3-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
MTBE	DETSC 3432*	1	ug/l	< 1	< 1
SVOCs					
Phenol	DETSC 3434*	1	ug/l	< 5.0	< 1.0
Aniline	DETSC 3434*	1	ug/l	< 5.0	< 1.0
2-Chlorophenol	DETSC 3434*	1	ug/l	< 5.0	< 1.0
Benzyl Alcohol	DETSC 3434*	1	ug/l	< 5.0	< 1.0
2-Methylphenol	DETSC 3434*	1	ug/l	< 5.0	< 1.0
Bis(2-chloroisopropyl)ether	DETSC 3434*	1	ug/l	< 5.0	< 1.0
3&4-Methylphenol	DETSC 3434*	1	ug/l	< 5.0	< 1.0
Bis(2-chloroethoxy)methane	DETSC 3434*	1	ug/l	< 5.0	< 1.0
2,4-Dimethylphenol	DETSC 3434*	1	ug/l	< 5.0	< 1.0
2,4-Dichlorophenol	DETSC 3434*	1	ug/l	< 5.0	< 1.0
1,2,4-Trichlorobenzene	DETSC 3434*	1	ug/l	< 5.0	< 1.0
4-Chloro-3-methylphenol	DETSC 3434*	1	ug/l	< 5.0	< 1.0
2-Methylnaphthalene	DETSC 3434*	1	ug/l	< 5.0	< 1.0
Hexachlorocyclopentadiene	DETSC 3434*	1	ug/l	< 5.0	< 1.0
2,4,6-Trichlorophenol	DETSC 3434*	1	ug/l	< 5.0	< 1.0
2,4,5-Trichlorophenol	DETSC 3434*	1	ug/l	< 5.0	< 1.0
2-Chloronaphthalene	DETSC 3434*	1	ug/l	< 5.0	< 1.0
2-Nitroaniline	DETSC 3434*	1	ug/l	< 5.0	< 1.0
2,4-Dinitrotoluene	DETSC 3434*	1	ug/l	< 5.0	< 1.0

Summary of Chemical Analysis

Water Samples

Our Ref 23-18528

Client Ref NX406

Contract Title One City Raod, Manchester

Lab No	2213347	2213348
	RIVER MEDLOCK S1	RIVER MEDLOCK S2
Sample ID		
Depth		
Other ID		
Sample Type	WATER	WATER
Sampling Date	01/08/2023	01/08/2023
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
3-Nitroaniline	DETSC 3434*	1	ug/l	< 5.0	< 1.0
4-Nitrophenol	DETSC 3434*	1	ug/l	< 5.0	< 1.0
Dibenzofuran	DETSC 3434*	1	ug/l	< 5.0	< 1.0
2,6-Dinitrotoluene	DETSC 3434*	1	ug/l	< 5.0	< 1.0
2,3,4,6-Tetrachlorophenol	DETSC 3434*	1	ug/l	< 5.0	< 1.0
Diethylphthalate	DETSC 3434*	1	ug/l	< 5.0	< 1.0
4-Chlorophenylphenylether	DETSC 3434*	1	ug/l	< 5.0	< 1.0
4-Nitroaniline	DETSC 3434*	1	ug/l	< 5.0	< 1.0
Diphenylamine	DETSC 3434*	1	ug/l	< 5.0	< 1.0
4-Bromophenylphenylether	DETSC 3434*	1	ug/l	< 5.0	< 1.0
Hexachlorobenzene	DETSC 3434*	1	ug/l	< 5.0	< 1.0
Bis(2-ethylhexyl)ester	DETSC 3434*	1	ug/l	< 5.0	< 1.0
Pentachlorophenol	DETSC 3434*	1	ug/l	< 5.0	< 1.0
Di-n-butylphthalate	DETSC 3434*	1	ug/l	< 5.0	< 1.0
Butylbenzylphthalate	DETSC 3434*	1	ug/l	< 5.0	< 1.0
Bis(2-ethylhexyl)phthalate	DETSC 3434*	1	ug/l	< 5.0	< 1.0
Di-n-octylphthalate	DETSC 3434*	1	ug/l	< 5.0	< 1.0
1,4-Dinitrobenzene	DETSC 3434*	1	ug/l	< 5.0	< 1.0
Dimethylphthalate	DETSC 3434*	1	ug/l	< 5.0	< 1.0
1,3-Dinitrobenzene	DETSC 3434*	1	ug/l	< 5.0	< 1.0
2,3,5,6-Tetrachlorophenol	DETSC 3434*	1	ug/l	< 5.0	< 1.0
Azobenzene	DETSC 3434*	1	ug/l	< 5.0	< 1.0
Carbazole	DETSC 3434*	1	ug/l	< 5.0	< 1.0
1-Methylnaphthalene	DETSC 3434*	1	ug/l	< 5.0	< 1.0

Information in Support of the Analytical Results

Our Ref 23-18528
 Client Ref NX406
 Contract One City Raod, Manchester

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
2213347	RIVER MEDLOCK S1 WATER	01/08/23	GB 1L x2, GV x2, PB 1L x2		
2213348	RIVER MEDLOCK S2 WATER	01/08/23	GB 1L x2, GV x2, PB 1L x2		

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

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

Disposal

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

End of Report



Certificate of Analysis

Certificate Number 23-17356

Issued: 15-Aug-23

Client NX Consulting Ltd
Station House
Stamford New Road
Altricham
WA14 1EP

Our Reference 23-17356

Client Reference NX406

Order No NX406

Contract Title One City Road, Manchester

Description 31 Soil samples, 10 Leachate samples.

Date Received 20-Jul-23

Date Started 20-Jul-23

Date Completed 15-Aug-23

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

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

Approved By

Kirk Bridgewood
General Manager



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Summary of Chemical Analysis

Soil Samples

Our Ref 23-17356

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2206109	2206110	2206111	2206112	2206113	2206114
Sample ID	TP03	TP06	TP07	WS10	WS10	WS11
Depth	1.60	1.30	0.50	0.30	1.30	1.60
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	17/07/2023	17/07/2023	17/07/2023	12/07/2023	12/07/2023	12/07/2023
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Asbestos Quantification	DETSC 1102	0.001	%						
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg	8.3	3.8	17	4.0		8.7
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	0.4	< 0.2	1.5	< 0.2		0.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.2	0.2	0.3	< 0.1		0.2
Chromium	DETSC 2301#	0.15	mg/kg	7.7	8.5	11	5.2		5.1
Copper	DETSC 2301#	0.2	mg/kg	74	11	45	11		30
Lead	DETSC 2301#	0.3	mg/kg	82	6.2	160	7.0		300
Mercury	DETSC 2325#	0.05	mg/kg	0.16	< 0.05	1.4	0.06		0.21
Nickel	DETSC 2301#	1	mg/kg	11	13	15	7.1		5.3
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	0.6	< 0.5		< 0.5
Zinc	DETSC 2301#	1	mg/kg	29	35	59	150		160
Inorganics									
pH	DETSC 2008#		pH	8.8	8.6	8.1	8.7	8.6	9.3
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	0.5	< 0.1		0.2
Total Organic Carbon	DETSC 2084#	0.5	%	2.8	< 0.5	1.9	1.4		1.8
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l					24	
Sulphide	DETSC 2024*	10	mg/kg	23	< 10	27	< 10		16
Sulphate as SO4, Total	DETSC 2321#	100	mg/kg	295	146	2580	109		1380
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5		< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2	< 1.2		< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5		< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4	< 3.4		< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10		< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9	< 0.9		< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	< 0.6	< 0.6		< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	< 1.4	< 1.4		< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10		< 10
TPH Ali/Aro Total C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10		< 10
Benzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01
Toluene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01
Xylene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01
MTBE	DETSC 3321	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01

Summary of Chemical Analysis

Soil Samples

Our Ref 23-17356

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2206109	2206110	2206111	2206112	2206113	2206114
Sample ID	TP03	TP06	TP07	WS10	WS10	WS11
Depth	1.60	1.30	0.50	0.30	1.30	1.60
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	17/07/2023	17/07/2023	17/07/2023	12/07/2023	12/07/2023	12/07/2023
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
PAHs									
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03		< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03		< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03		< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03		< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.06	< 0.03	0.11	< 0.03		< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03		< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.09	< 0.03	0.15	< 0.03		< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	0.11	< 0.03	0.17	< 0.03		< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.09	< 0.03		< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	0.03	< 0.03	0.10	< 0.03		< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.10	< 0.03		< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.04	< 0.03		< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.07	< 0.03		< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.05	< 0.03		< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03		< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.06	< 0.03		< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	0.26	< 0.10	0.95	< 0.10		< 0.10
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3		0.8

Summary of Chemical Analysis

Soil Samples

Our Ref 23-17356

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2206115	2206116	2206117	2206119	2206120	2206121
Sample ID	WS11	WS09A	WS09A	WS01	WS01	WS05
Depth	2.10	0.50	2.10	1.70	3.10	0.60
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	12/07/2023	14/07/2023	14/07/2023	14/07/2023	14/07/2023	13/07/2023
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Asbestos Quantification	DETSC 1102	0.001	%						
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg		15	2.4	4.3		7.7
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg		0.9	0.4	< 0.2		0.5
Cadmium	DETSC 2301#	0.1	mg/kg		0.4	< 0.1	< 0.1		0.1
Chromium	DETSC 2301#	0.15	mg/kg		13	8.5	11		18
Copper	DETSC 2301#	0.2	mg/kg		56	11	24		38
Lead	DETSC 2301#	0.3	mg/kg		280	16	28		60
Mercury	DETSC 2325#	0.05	mg/kg		0.24	< 0.05	1.1		0.31
Nickel	DETSC 2301#	1	mg/kg		19	8.0	11		14
Selenium	DETSC 2301#	0.5	mg/kg		< 0.5	< 0.5	< 0.5		0.7
Zinc	DETSC 2301#	1	mg/kg		170	26	38		47
Inorganics									
pH	DETSC 2008#		pH	8.7	8.0	8.4	8.7	9.0	8.2
Cyanide, Total	DETSC 2130#	0.1	mg/kg		0.2	0.2	0.1		0.3
Total Organic Carbon	DETSC 2084#	0.5	%		3.0	0.9	0.7		1.1
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	24	37	12	< 10	< 10	
Sulphide	DETSC 2024*	10	mg/kg		59	12	< 10		< 10
Sulphate as SO4, Total	DETSC 2321#	100	mg/kg		575	688	196		381
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01	< 0.01		< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01	< 0.01		< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01	< 0.01		< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg		< 1.5	< 1.5	< 1.5		< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg		< 1.2	< 1.2	< 1.2		< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg		< 1.5	< 1.5	< 1.5		< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg		< 3.4	< 3.4	< 3.4		< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg		< 10	< 10	< 10		< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01	< 0.01		< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01	< 0.01		< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01	< 0.01		< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg		< 0.9	< 0.9	< 0.9		< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg		< 0.5	< 0.5	< 0.5		< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg		< 0.6	< 0.6	< 0.6		< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg		< 1.4	< 1.4	< 1.4		< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg		< 10	< 10	< 10		< 10
TPH Ali/Aro Total C5-C35	DETSC 3072*	10	mg/kg		< 10	< 10	< 10		< 10
Benzene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01	< 0.01		< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01	< 0.01		< 0.01
Toluene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01	< 0.01		< 0.01
Xylene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01	< 0.01		< 0.01
MTBE	DETSC 3321	0.01	mg/kg		< 0.01	< 0.01	< 0.01		< 0.01

Summary of Chemical Analysis

Soil Samples

Our Ref 23-17356

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2206115	2206116	2206117	2206119	2206120	2206121
Sample ID	WS11	WS09A	WS09A	WS01	WS01	WS05
Depth	2.10	0.50	2.10	1.70	3.10	0.60
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	12/07/2023	14/07/2023	14/07/2023	14/07/2023	14/07/2023	13/07/2023
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
PAHs									
Naphthalene	DETSC 3303#	0.03	mg/kg		2.5	< 0.03	< 0.03		< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg		0.27	< 0.03	< 0.03		< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg		0.78	< 0.03	< 0.03		< 0.03
Fluorene	DETSC 3303	0.03	mg/kg		1.9	< 0.03	< 0.03		< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg		8.7	0.03	< 0.03		0.06
Anthracene	DETSC 3303	0.03	mg/kg		2.2	< 0.03	< 0.03		< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg		5.8	< 0.03	< 0.03		0.04
Pyrene	DETSC 3303#	0.03	mg/kg		6.3	< 0.03	< 0.03		0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg		2.3	< 0.03	< 0.03		< 0.03
Chrysene	DETSC 3303	0.03	mg/kg		2.3	< 0.03	< 0.03		< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg		1.5	< 0.03	< 0.03		< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg		0.60	< 0.03	< 0.03		< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg		1.4	< 0.03	< 0.03		< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg		0.40	< 0.03	< 0.03		< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg		0.14	< 0.03	< 0.03		< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg		0.46	< 0.03	< 0.03		< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg		37	< 0.10	< 0.10		< 0.10
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg		< 0.3	< 0.3	< 0.3		< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 23-17356

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2206122	2206123	2206124	2206125	2206126	2206127
Sample ID	WS05	WS05	WS02	WS02	HP02	HP01
Depth	2.40	3.40	1.50	2.10	0.40	0.30
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	13/07/2023	13/07/2023	13/07/2023	13/07/2023	13/07/2023	13/06/2023
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Asbestos Quantification	DETSC 1102	0.001	%					0.006	
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg		11	2.5	< 0.2	25	9.1
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg		1.6	< 0.2	0.3	1.2	0.8
Cadmium	DETSC 2301#	0.1	mg/kg		0.2	0.1	< 0.1	0.7	0.2
Chromium	DETSC 2301#	0.15	mg/kg		11	5.0	0.81	17	33
Copper	DETSC 2301#	0.2	mg/kg		42	21	0.6	110	73
Lead	DETSC 2301#	0.3	mg/kg		53	14	0.6	120	97
Mercury	DETSC 2325#	0.05	mg/kg		0.17	< 0.05	0.09	0.21	0.27
Nickel	DETSC 2301#	1	mg/kg		15	9.7	< 1.0	30	15
Selenium	DETSC 2301#	0.5	mg/kg		< 0.5	< 0.5	< 0.5	0.5	0.5
Zinc	DETSC 2301#	1	mg/kg		34	48	< 1.0	140	43
Inorganics									
pH	DETSC 2008#		pH	8.7	7.7	8.9	7.5	8.4	8.4
Cyanide, Total	DETSC 2130#	0.1	mg/kg		0.3	< 0.1	0.3	0.3	0.2
Total Organic Carbon	DETSC 2084#	0.5	%		2.9	< 0.5	1.6	7.7	1.6
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	17		17		230	
Sulphide	DETSC 2024*	10	mg/kg		86	< 10	20	31	20
Sulphate as SO4, Total	DETSC 2321#	100	mg/kg		616	111	331	1370	735
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg		< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg		< 1.2	< 1.2	< 1.2	2.7	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg		< 1.5	< 1.5	< 1.5	5.4	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg		< 3.4	< 3.4	< 3.4	55	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg		< 10	< 10	< 10	63	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg		< 0.9	< 0.9	< 0.9	0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg		< 0.5	< 0.5	< 0.5	9.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg		< 0.6	< 0.6	< 0.6	78	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg		< 1.4	< 1.4	< 1.4	260	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg		< 10	< 10	< 10	350	< 10
TPH Ali/Aro Total C5-C35	DETSC 3072*	10	mg/kg		< 10	< 10	< 10	410	< 10
Benzene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Xylene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3321	0.01	mg/kg		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Summary of Chemical Analysis

Soil Samples

Our Ref 23-17356

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2206122	2206123	2206124	2206125	2206126	2206127
Sample ID	WS05	WS05	WS02	WS02	HP02	HP01
Depth	2.40	3.40	1.50	2.10	0.40	0.30
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	13/07/2023	13/07/2023	13/07/2023	13/07/2023	13/07/2023	13/06/2023
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
PAHs									
Naphthalene	DETSC 3303#	0.03	mg/kg		< 0.03	< 0.03	< 0.03	0.59	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg		< 0.03	< 0.03	< 0.03	0.25	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg		< 0.03	< 0.03	< 0.03	6.3	0.07
Fluorene	DETSC 3303	0.03	mg/kg		0.03	< 0.03	< 0.03	4.4	0.05
Phenanthrene	DETSC 3303#	0.03	mg/kg		< 0.03	< 0.03	0.31	0.52	0.52
Anthracene	DETSC 3303	0.03	mg/kg		< 0.03	< 0.03	0.06	8.1	0.12
Fluoranthene	DETSC 3303#	0.03	mg/kg		< 0.03	< 0.03	0.62	0.69	0.69
Pyrene	DETSC 3303#	0.03	mg/kg		< 0.03	< 0.03	0.54	0.65	0.65
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg		< 0.03	< 0.03	0.20	0.31	0.31
Chrysene	DETSC 3303	0.03	mg/kg		< 0.03	< 0.03	0.22	0.31	0.31
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg		< 0.03	< 0.03	0.17	0.31	0.31
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg		< 0.03	< 0.03	0.08	6.0	0.12
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg		< 0.03	< 0.03	0.14	11	0.25
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg		< 0.03	< 0.03	0.08	4.4	0.11
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg		< 0.03	< 0.03	< 0.03	1.5	0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg		< 0.03	< 0.03	0.08	5.0	0.13
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg		< 0.10	< 0.10	2.5	50	3.7
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg		< 0.3	< 0.3	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 23-17356

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2206129	2206130	2206131	2206132	2206134	2206135
Sample ID	WS06	WS07	WS07	WS07	WS08	WS08
Depth	1.50	0.80	1.90	2.90	1.00	2.20
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	12/07/2023	12/07/2023	12/07/2023	12/07/2023	12/07/2023	12/07/2023
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Asbestos Quantification	DETS 1102	0.001	%						
Metals									
Arsenic	DETS 2301#	0.2	mg/kg	17	13		4.6	4.6	5.3
Boron, Water Soluble (2.5:1)	DETS 2311#	0.2	mg/kg	0.8	1.0		0.4	< 0.2	0.2
Cadmium	DETS 2301#	0.1	mg/kg	1.3	0.1		0.1	< 0.1	0.1
Chromium	DETS 2301#	0.15	mg/kg	15	11		21	13	11
Copper	DETS 2301#	0.2	mg/kg	69	27		23	9.9	11
Lead	DETS 2301#	0.3	mg/kg	1100	70		13	8.1	8.4
Mercury	DETS 2325#	0.05	mg/kg	1.0	0.13		< 0.05	< 0.05	< 0.05
Nickel	DETS 2301#	1	mg/kg	17	8.6		27	11	14
Selenium	DETS 2301#	0.5	mg/kg	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5
Zinc	DETS 2301#	1	mg/kg	640	38		50	27	43
Inorganics									
pH	DETS 2008#		pH	9.2	7.5	8.3	8.1	7.2	8.2
Cyanide, Total	DETS 2130#	0.1	mg/kg	0.3	0.3		< 0.1	< 0.1	< 0.1
Total Organic Carbon	DETS 2084#	0.5	%	3.5	2.4		0.8	< 0.5	< 0.5
Sulphate Aqueous Extract as SO4 (2:1)	DETS 2076#	10	mg/l	39		14	57	36	
Sulphide	DETS 2024*	10	mg/kg	< 10	35		31	12	< 10
Sulphate as SO4, Total	DETS 2321#	100	mg/kg	555	527		427	231	149
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETS 3321*	0.01	mg/kg	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETS 3321*	0.01	mg/kg	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETS 3321*	0.01	mg/kg	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETS 3072#	1.5	mg/kg	< 1.5	< 1.5		< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETS 3072#	1.2	mg/kg	< 1.2	< 1.2		< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETS 3072#	1.5	mg/kg	< 1.5	< 1.5		< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETS 3072#	3.4	mg/kg	< 3.4	< 3.4		< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETS 3072*	10	mg/kg	< 10	< 10		< 10	< 10	< 10
Aromatic C5-C7	DETS 3321*	0.01	mg/kg	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETS 3321*	0.01	mg/kg	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETS 3321*	0.01	mg/kg	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETS 3072#	0.9	mg/kg	< 0.9	< 0.9		< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETS 3072#	0.5	mg/kg	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5
Aromatic C16-C21	DETS 3072#	0.6	mg/kg	< 0.6	< 0.6		< 0.6	< 0.6	< 0.6
Aromatic C21-C35	DETS 3072#	1.4	mg/kg	< 1.4	< 1.4		< 1.4	< 1.4	< 1.4
Aromatic C5-C35	DETS 3072*	10	mg/kg	< 10	< 10		< 10	< 10	< 10
TPH Ali/Aro Total C5-C35	DETS 3072*	10	mg/kg	< 10	< 10		< 10	< 10	< 10
Benzene	DETS 3321#	0.01	mg/kg	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01
Ethylbenzene	DETS 3321#	0.01	mg/kg	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01
Toluene	DETS 3321#	0.01	mg/kg	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01
Xylene	DETS 3321#	0.01	mg/kg	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01
MTBE	DETS 3321	0.01	mg/kg	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01

Summary of Chemical Analysis

Soil Samples

Our Ref 23-17356

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2206129	2206130	2206131	2206132	2206134	2206135
Sample ID	WS06	WS07	WS07	WS07	WS08	WS08
Depth	1.50	0.80	1.90	2.90	1.00	2.20
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	12/07/2023	12/07/2023	12/07/2023	12/07/2023	12/07/2023	12/07/2023
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
PAHs									
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	0.28		< 0.03	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	0.05		< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.69		< 0.03	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	0.54		< 0.03	< 0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.09	1.9		< 0.03	< 0.03	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	0.48		< 0.03	< 0.03	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.16	1.6		< 0.03	< 0.03	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	0.18	1.8		< 0.03	< 0.03	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.07	0.37		< 0.03	< 0.03	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	0.08	0.43		< 0.03	< 0.03	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.07	0.43		< 0.03	< 0.03	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.13		< 0.03	< 0.03	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.06	0.31		< 0.03	< 0.03	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	0.15		< 0.03	< 0.03	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	0.04		< 0.03	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.03	0.17		< 0.03	< 0.03	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	0.71	9.2		< 0.10	< 0.10	< 0.10
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3		< 0.3	< 0.3	2.7

Summary of Chemical Analysis

Soil Samples

Our Ref 23-17356

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2206136	2206138	2206139
Sample ID	RBH01	RBH01	RBH01
Depth	0.60	2.40	5.10
Other ID			
Sample Type	SOIL	SOIL	SOIL
Sampling Date	11/07/2023	11/07/2023	11/07/2023
Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
Asbestos Quantification	DETSC 1102	0.001	%			
Metals						
Arsenic	DETSC 2301#	0.2	mg/kg	2.0	12	
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	< 0.2	1.3	
Cadmium	DETSC 2301#	0.1	mg/kg	0.2	0.1	
Chromium	DETSC 2301#	0.15	mg/kg	4.8	13	
Copper	DETSC 2301#	0.2	mg/kg	8.7	180	
Lead	DETSC 2301#	0.3	mg/kg	12	110	
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	0.41	
Nickel	DETSC 2301#	1	mg/kg	8.5	17	
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	
Zinc	DETSC 2301#	1	mg/kg	18	55	
Inorganics						
pH	DETSC 2008#		pH	9.8	8.2	7.2
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1	0.6	
Total Organic Carbon	DETSC 2084#	0.5	%	< 0.5	4.7	
Sulphate Aqueous Extract as SO ₄ (2:1)	DETSC 2076#	10	mg/l			270
Sulphide	DETSC 2024*	10	mg/kg	< 10	100	
Sulphate as SO ₄ , Total	DETSC 2321#	100	mg/kg	< 100	618	
Petroleum Hydrocarbons						
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	3.1	< 0.5	
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	7.7	< 0.6	
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	16	< 1.4	
Aromatic C5-C35	DETSC 3072*	10	mg/kg	27	< 10	
TPH Ali/Aro Total C5-C35	DETSC 3072*	10	mg/kg	27	< 10	
Benzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	
Toluene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	
Xylene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	
MTBE	DETSC 3321	0.01	mg/kg	< 0.01	< 0.01	

Summary of Chemical Analysis

Soil Samples

Our Ref 23-17356

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2206136	2206138	2206139
Sample ID	RBH01	RBH01	RBH01
Depth	0.60	2.40	5.10
Other ID			
Sample Type	SOIL	SOIL	SOIL
Sampling Date	11/07/2023	11/07/2023	11/07/2023
Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.09	0.19	
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.20	0.14	
Pyrene	DETSC 3303#	0.03	mg/kg	0.20	0.16	
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	
Chrysene	DETSC 3303	0.03	mg/kg	0.10	0.09	
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.13	0.05	
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.03	< 0.03	
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.08	< 0.03	
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.04	< 0.03	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.05	< 0.03	
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	0.91	0.64	
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	0.5	0.7	

WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 23-17356

Client Ref NX406

Contract Title One City Road, Manchester

Sample Id WS01 0.50

Sample Numbers 2206118 2206140 2206141

Date Analysed 15/08/2023

Test Results On Waste		
Determinand and Method Reference	Units	Result
DETSC 2084# Total Organic Carbon	%	1.0
DETSC 2003# Loss On Ignition	%	2.9
DETSC 3321# BTEX	mg/kg	< 0.04
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01
DETSC 3311# TPH (C10 - C40)	mg/kg	< 10
DETSC 3301 PAHs	mg/kg	< 1.6
DETSC 2008# pH	pH Units	8.1
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0

WAC Limit Values		
Inert Waste	SNRHW	Hazardous Waste
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

Test Results On Leachate				
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached* mg/kg	
	2:1	8:1	LS2	LS10
DETSC 2306 Arsenic as As	1	1.2	0.002	0.012
DETSC 2306 Barium as Ba	33	15	0.07	0.18
DETSC 2306 Cadmium as Cd	< 0.030	< 0.030	< 0.004	< 0.02
DETSC 2306 Chromium as Cr	1.9	2.4	< 0.02	< 0.1
DETSC 2306 Copper as Cu	1.2	1.5	< 0.004	< 0.02
DETSC 2306 Mercury as Hg	< 0.010	< 0.010	< 0.0004	< 0.002
DETSC 2306 Molybdenum as Mo	1.9	< 1.1	< 0.02	< 0.1
DETSC 2306 Nickel as Ni	< 0.50	< 0.50	< 0.02	< 0.1
DETSC 2306 Lead as Pb	0.22	0.52	< 0.01	< 0.05
DETSC 2306 Antimony as Sb	0.27	0.72	< 0.01	< 0.05
DETSC 2306 Selenium as Se	0.76	0.4	< 0.006	< 0.03
DETSC 2306 Zinc as Zn	1.4	< 1.3	0.003	< 0.01
DETSC 2055 Chloride as Cl	2900	4700	< 20	< 100
DETSC 2055* Fluoride as F	600	300	1.2	3.47
DETSC 2055 Sulphate as SO4	6500	14000	< 20	128.3
DETSC 2009* Total Dissolved Solids	75000	52000	150	555.7
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1
DETSC 2085 Dissolved Organic Carbon	2700	2700	< 10	< 50

WAC Limit Values		
Limit values for LS10 Leachate		
Inert Waste	SNRHW	Hazardous Waste
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

Additional Information		
DETSC 2008 pH	7.1	7.3
DETSC 2009 Conductivity uS/cm	108.0	74.9
* Temperature*	18.0	19.0

Mass of Sample Kg*	0.140
Mass of dry Sample Kg*	0.116

Stage 1	
Volume of Leachant L2*	0.208
Volume of Eluate VE1*	0.18

Stage 2	
Volume of Leachant L8*	0.927
Volume of Eluate VE2*	0.87

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive
Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.

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WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 23-17356

Client Ref NX406

Contract Title One City Road, Manchester

Sample Id HP02 0.40

Sample Numbers 2206126 2206142 2206143

Date Analysed 15/08/2023

Test Results On Waste				
Determinand and Method Reference	Units	Result		
DETSC 2084# Total Organic Carbon	%	7.7		
DETSC 2003# Loss On Ignition	%	5.5		
DETSC 3321# BTEX	mg/kg	< 0.04		
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01		
DETSC 3311# TPH (C10 - C40)	mg/kg	1600.0		
DETSC 3301 PAHs	mg/kg	63.0		
DETSC 2008# pH	pH Units	8.4		
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0		
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0		

Test Results On Leachate				
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached* mg/kg	
	2:1	8:1	LS2	LS10
DETSC 2306 Arsenic as As	2.2	3.1	0.004	0.029
DETSC 2306 Barium as Ba	53	22	0.11	0.27
DETSC 2306 Cadmium as Cd	0.29	< 0.030	< 0.004	< 0.02
DETSC 2306 Chromium as Cr	0.7	7.8	< 0.02	< 0.1
DETSC 2306 Copper as Cu	2.4	1.8	0.005	< 0.02
DETSC 2306 Mercury as Hg	0.018	0.011	< 0.0004	< 0.002
DETSC 2306 Molybdenum as Mo	5	1.7	< 0.02	< 0.1
DETSC 2306 Nickel as Ni	< 0.50	< 0.50	< 0.02	< 0.1
DETSC 2306 Lead as Pb	1.3	0.94	< 0.01	< 0.05
DETSC 2306 Antimony as Sb	0.91	0.99	< 0.01	< 0.05
DETSC 2306 Selenium as Se	3.3	0.68	0.007	< 0.03
DETSC 2306 Zinc as Zn	7.6	1.4	0.015	0.024
DETSC 2055 Chloride as Cl	2600	2000	< 20	< 100
DETSC 2055* Fluoride as F	350	220	0.7	2.42
DETSC 2055 Sulphate as SO4	150000	27000	300	477
DETSC 2009* Total Dissolved Solids	380000	98000	760	1454.5
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1
DETSC 2085 Dissolved Organic Carbon	5200	2500	10.4	< 50

Additional Information		
DETSC 2008 pH	6.3	7.0
DETSC 2009 Conductivity uS/cm	538.0	140.0
* Temperature*	18.0	19.0

Mass of Sample Kg*	0.140
Mass of dry Sample Kg*	0.125

Stage 1	
Volume of Leachant L2*	0.234
Volume of Eluate VE1*	0.21

Stage 2	
Volume of Leachant L8*	0.998
Volume of Eluate VE2*	0.94

WAC Limit Values		
Inert Waste	SNRHW	Hazardous Waste
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

WAC Limit Values		
Limit values for LS10 Leachate		
Inert Waste	SNRHW	Hazardous Waste
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

TBE - To Be Evaluated		
SNRHW - Stable Non-Reactive		
Hazardous Waste		

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive
Hazardous Waste

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WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 23-17356

Client Ref NX406

Contract Title One City Road, Manchester

Sample Id HP01 1.00

Sample Numbers 2206128 2206144 2206145

Date Analysed 15/08/2023

Test Results On Waste		
Determinand and Method Reference	Units	Result
DETSC 2084# Total Organic Carbon	%	1.9
DETSC 2003# Loss On Ignition	%	3.6
DETSC 3321# BTEX	mg/kg	< 0.04
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01
DETSC 3311# TPH (C10 - C40)	mg/kg	< 10
DETSC 3301 PAHs	mg/kg	< 1.6
DETSC 2008# pH	pH Units	7.6
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0

WAC Limit Values		
Inert Waste	SNRHW	Hazardous Waste
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

Test Results On Leachate				
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached* mg/kg	
	2:1	8:1	LS2	LS10
DETSC 2306 Arsenic as As	1.8	1.8	0.004	0.018
DETSC 2306 Barium as Ba	34	12	0.07	0.16
DETSC 2306 Cadmium as Cd	0.035	< 0.030	< 0.004	< 0.02
DETSC 2306 Chromium as Cr	0.76	7.7	< 0.02	< 0.1
DETSC 2306 Copper as Cu	22	1.7	0.044	0.05
DETSC 2306 Mercury as Hg	< 0.010	< 0.010	< 0.0004	< 0.002
DETSC 2306 Molybdenum as Mo	4.4	1.7	< 0.02	< 0.1
DETSC 2306 Nickel as Ni	6.7	< 0.50	< 0.02	< 0.1
DETSC 2306 Lead as Pb	1.2	4.4	< 0.01	< 0.05
DETSC 2306 Antimony as Sb	3.9	1.4	< 0.01	< 0.05
DETSC 2306 Selenium as Se	0.82	0.4	< 0.006	< 0.03
DETSC 2306 Zinc as Zn	65	< 1.3	0.13	0.105
DETSC 2055 Chloride as Cl	4400	1400	< 20	< 100
DETSC 2055* Fluoride as F	330	110	0.66	1.46
DETSC 2055 Sulphate as SO4	100000	16000	200	296
DETSC 2009* Total Dissolved Solids	240000	66000	480	941.7
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1
DETSC 2085 Dissolved Organic Carbon	12000	2700	24	< 50

WAC Limit Values		
Limit values for LS10 Leachate		
Inert Waste	SNRHW	Hazardous Waste
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

Additional Information

DETSC 2008 pH	6.6	6.7
DETSC 2009 Conductivity uS/cm	349.0	94.1
* Temperature*	17.0	19.0

Mass of Sample Kg*	0.140
Mass of dry Sample Kg*	0.117

Stage 1

Volume of Leachant L2*	0.212
Volume of Eluate VE1*	0.19

Stage 2

Volume of Leachant L8*	0.939
Volume of Eluate VE2*	0.88

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive
Hazardous Waste

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WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 23-17356

Client Ref NX406

Contract Title One City Road, Manchester

Sample Id WS08 0.50

Sample Numbers 2206133 2206146 2206147

Date Analysed 15/08/2023

Test Results On Waste		
Determinand and Method Reference	Units	Result
DETSC 2084# Total Organic Carbon	%	0.9
DETSC 2003# Loss On Ignition	%	1.1
DETSC 3321# BTEX	mg/kg	< 0.04
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01
DETSC 3311# TPH (C10 - C40)	mg/kg	< 10
DETSC 3301 PAHs	mg/kg	< 1.6
DETSC 2008# pH	pH Units	8.7
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0

WAC Limit Values		
Inert Waste	SNRHW	Hazardous Waste
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

Test Results On Leachate				
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached* mg/kg	
	2:1	8:1	LS2	LS10
DETSC 2306 Arsenic as As	1.5	0.68	0.003	< 0.01
DETSC 2306 Barium as Ba	26	13	0.05	0.15
DETSC 2306 Cadmium as Cd	< 0.030	< 0.030	< 0.004	< 0.02
DETSC 2306 Chromium as Cr	2.9	0.92	< 0.02	< 0.1
DETSC 2306 Copper as Cu	12	1	0.024	0.028
DETSC 2306 Mercury as Hg	0.016	< 0.010	< 0.0004	< 0.002
DETSC 2306 Molybdenum as Mo	3	< 1.1	< 0.02	< 0.1
DETSC 2306 Nickel as Ni	3.1	< 0.50	< 0.02	< 0.1
DETSC 2306 Lead as Pb	1.5	0.57	< 0.01	< 0.05
DETSC 2306 Antimony as Sb	0.51	< 0.17	< 0.01	< 0.05
DETSC 2306 Selenium as Se	1.6	0.74	< 0.006	< 0.03
DETSC 2306 Zinc as Zn	8.7	< 1.3	0.017	0.014
DETSC 2055 Chloride as Cl	4800	2200	< 20	< 100
DETSC 2055* Fluoride as F	130	160	0.26	1.55
DETSC 2055 Sulphate as SO4	7200	3900	< 20	< 100
DETSC 2009* Total Dissolved Solids	110000	52000	220	614.7
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1
DETSC 2085 Dissolved Organic Carbon	9200	3000	18.4	< 50

WAC Limit Values		
Limit values for LS10 Leachate		
Inert Waste	SNRHW	Hazardous Waste
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

Additional Information

DETSC 2008 pH	6.9	7.1
DETSC 2009 Conductivity uS/cm	160.0	73.7
* Temperature*	17.0	19.0

Mass of Sample Kg*	0.130
Mass of dry Sample Kg*	0.116

Stage 1

Volume of Leachant L2*	0.219
Volume of Eluate VE1*	0.19

Stage 2

Volume of Leachant L8*	0.931
Volume of Eluate VE2*	0.88

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive
Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.

* DETS are accredited for the testing of leachates and not the leachate preparation stage which is unaccredited.

WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 23-17356

Client Ref NX406

Contract Title One City Road, Manchester

Sample Id RBH01 1.90

Sample Numbers 2206137 2206148 2206149

Date Analysed 15/08/2023

Test Results On Waste		
Determinand and Method Reference	Units	Result
DETSC 2084# Total Organic Carbon	%	5.0
DETSC 2003# Loss On Ignition	%	4.8
DETSC 3321# BTEX	mg/kg	< 0.04
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01
DETSC 3311# TPH (C10 - C40)	mg/kg	< 10
DETSC 3301 PAHs	mg/kg	< 1.6
DETSC 2008# pH	pH Units	8.5
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0

WAC Limit Values		
Inert Waste	SNRHW	Hazardous Waste
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

Test Results On Leachate				
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached* mg/kg	
	2:1	8:1	LS2	LS10
DETSC 2306 Arsenic as As	5.2	1.9	0.01	0.024
DETSC 2306 Barium as Ba	7.7	3.8	< 0.02	< 0.1
DETSC 2306 Cadmium as Cd	< 0.030	< 0.030	< 0.004	< 0.02
DETSC 2306 Chromium as Cr	3	0.84	< 0.02	< 0.1
DETSC 2306 Copper as Cu	2.7	1.8	0.005	< 0.02
DETSC 2306 Mercury as Hg	0.022	0.011	< 0.0004	< 0.002
DETSC 2306 Molybdenum as Mo	7.8	< 1.1	< 0.02	< 0.1
DETSC 2306 Nickel as Ni	< 0.50	< 0.50	< 0.02	< 0.1
DETSC 2306 Lead as Pb	2.1	2.2	< 0.01	< 0.05
DETSC 2306 Antimony as Sb	1.4	0.25	< 0.01	< 0.05
DETSC 2306 Selenium as Se	1.4	0.57	< 0.006	< 0.03
DETSC 2306 Zinc as Zn	< 1.3	< 1.3	< 0.002	< 0.01
DETSC 2055 Chloride as Cl	20000	2300	40	< 100
DETSC 2055* Fluoride as F	1200	300	2.4	4.36
DETSC 2055 Sulphate as SO4	8400	2600	< 20	< 100
DETSC 2009* Total Dissolved Solids	180000	37000	360	585.6
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1
DETSC 2085 Dissolved Organic Carbon	3800	2400	< 10	< 50

WAC Limit Values		
Limit values for LS10 Leachate		
Inert Waste	SNRHW	Hazardous Waste
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

Additional Information

DETSC 2008 pH	7.2	6.7
DETSC 2009 Conductivity uS/cm	261.0	52.9
* Temperature*	17.0	19.0

Mass of Sample Kg*	0.140
Mass of dry Sample Kg*	0.113

Stage 1

Volume of Leachant L2*	0.198
Volume of Eluate VE1*	0.17

Stage 2

Volume of Leachant L8*	0.902
Volume of Eluate VE2*	0.85

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive
Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. DETS does not accept responsibility for errors or omissions.
Values are correct at time of issue.

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Summary of Asbestos Analysis

Soil Samples

Our Ref 23-17356

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2206109	TP03 1.60	SOIL	NAD	NA	SUB
2206110	TP06 1.30	SOIL	NAD	NA	SUB
2206111	TP07 0.50	SOIL	NAD	NA	SUB
2206112	WS10 0.30	SOIL	NAD	NA	SUB
2206114	WS11 1.60	SOIL	NAD	NA	SUB
2206116	WS09A 0.50	SOIL	NAD	NA	SUB
2206117	WS09A 2.10	SOIL	NAD	NA	SUB
2206119	WS01 1.70	SOIL	NAD	NA	SUB
2206121	WS05 0.60	SOIL	NAD	NA	SUB
2206123	WS05 3.40	SOIL	NAD	NA	SUB
2206124	WS02 1.50	SOIL	NAD	NA	SUB
2206125	WS02 2.10	SOIL	NAD	NA	SUB
2206126	HP02 0.40	SOIL	Chrysotile / Amosite	Free Fibres	SUB
2206127	HP01 0.30	SOIL	NAD	NA	SUB
2206129	WS06 1.50	SOIL	NAD	NA	SUB
2206130	WS07 0.80	SOIL	NAD	NA	SUB
2206132	WS07 2.90	SOIL	NAD	NA	SUB
2206134	WS08 1.00	SOIL	NAD	NA	SUB
2206135	WS08 2.20	SOIL	NAD	NA	SUB
2206136	RBH01 0.60	SOIL	NAD	NA	SUB
2206138	RBH01 2.40	SOIL	NAD	NA	SUB

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

Summary of Asbestos Quantification Analysis

Soil Samples

Our Ref 23-17356

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2206126
Sample ID	HP02
Depth	0.40
Other ID	
Sample Type	
Sampling Date	13/07/2023
Sampling Time	

Test	Method	Units		
Total Mass% Asbestos (a+b+c)	DETS 1102	Mass %	0.006	
Gravimetric Quantification (a)	DETS 1102	Mass %	0.003	
Detailed Gravimetric Quantification (b)	DETS 1102	Mass %	0.002	
Quantification by PCOM (c)	DETS 1102	Mass %	na	
Potentially Respirable Fibres (d)	DETS 1102	Fibres/g	na	

Breakdown of Gravimetric Analysis (a)

Mass of Sample		g	1015.91	
ACMs present*		type	Board	Bitumen
Mass of ACM in sample		g	0.07	0.09
% ACM by mass		%	0.01	0.01
% asbestos in ACM		%	40	8
% asbestos in sample		%	0.003	0.001

Breakdown of Detailed Gravimetric Analysis (b)

% Amphibole bundles in sample		Mass %	na	
% Chrysotile bundles in sample		Mass %	0.002	

Breakdown of PCOM Analysis (c)

% Amphibole fibres in sample		Mass %	na	
% Chrysotile fibres in sample		Mass %	na	

Breakdown of Potentially Respirable Fibre Analysis (d)

Amphibole fibres		Fibres/g	na	
Chrysotile fibres		Fibres/g	na	

* Denotes test or material description outside of UKAS accreditation.
 % asbestos in Asbestos Containing Materials (ACMs) is determined by
 by reference to HSG 264.
 Recommended sample size for quantification is approximately 1kg
 # denotes deviating sample

Information in Support of the Analytical Results

Our Ref 23-17356
 Client Ref NX406
 Contract One City Road, Manchester

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
2206109	TP03 1.60 SOIL	17/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2206110	TP06 1.30 SOIL	17/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2206111	TP07 0.50 SOIL	17/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2206112	WS10 0.30 SOIL	12/07/23	GJ 250ml, GJ 60ml x2, PT 1L	pH + Conductivity (7 days)	
2206113	WS10 1.30 SOIL	12/07/23	GJ 250ml, GJ 60ml x2, PT 1L	pH + Conductivity (7 days)	
2206114	WS11 1.60 SOIL	12/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2	pH + Conductivity (7 days)	
2206115	WS11 2.10 SOIL	12/07/23	GJ 250ml, GJ 60ml x2, PT 1L	pH + Conductivity (7 days)	
2206116	WS09A 0.50 SOIL	14/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2206117	WS09A 2.10 SOIL	14/07/23	GJ 250ml, GJ 60ml x2, PT 1L		
2206118	WS01 0.50 SOIL	14/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2206119	WS01 1.70 SOIL	14/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2206120	WS01 3.10 SOIL	14/07/23	GJ 250ml, GJ 60ml x2, PT 1L		
2206121	WS05 0.60 SOIL	13/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2206122	WS05 2.40 SOIL	13/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2206123	WS05 3.40 SOIL	13/07/23	GJ 250ml, GJ 60ml x2, PT 1L		
2206124	WS02 1.50 SOIL	13/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2206125	WS02 2.10 SOIL	13/07/23	GJ 250ml, GJ 60ml x2, PT 1L		
2206126	HP02 0.40 SOIL	13/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2206127	HP01 0.30 SOIL	13/06/23	GJ 250ml, GJ 60ml x2, PT 1L x2	Aliphatics/Aromatics (14 days), BTEX / C5-C10 (14 days), Mercury (28 days), Total Sulphate ICP (30 days), Naphthalene (14 days), Organic Matter (Auto) (28 days), PAH MS (14 days), pH + Conductivity (7 days), Cyanide/Mono pHoh (14 days)	
2206128	HP01 1.00 SOIL	13/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2206129	WS06 1.50 SOIL	12/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2	pH + Conductivity (7 days)	
2206130	WS07 0.80 SOIL	12/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2	pH + Conductivity (7 days)	
2206131	WS07 1.90 SOIL	12/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2	pH + Conductivity (7 days)	
2206132	WS07 2.90 SOIL	12/07/23	GJ 250ml, GJ 60ml x2, PT 1L	pH + Conductivity (7 days)	
2206133	WS08 0.50 SOIL	12/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2	pH + Conductivity (7 days)	
2206134	WS08 1.00 SOIL	12/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2	pH + Conductivity (7 days)	
2206135	WS08 2.20 SOIL	12/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2	pH + Conductivity (7 days)	
2206136	RBH01 0.60 SOIL	11/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2	pH + Conductivity (7 days)	
2206137	RBH01 1.90 SOIL	11/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2	pH + Conductivity (7 days)	
2206138	RBH01 2.40 SOIL	11/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2	pH + Conductivity (7 days)	
2206139	RBH01 5.10 SOIL	11/07/23	GJ 250ml, GJ 60ml x2, PT 1L	pH + Conductivity (7 days)	
2206140	WS01 0.50 LEACHATE	14/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2206141	WS01 0.50 LEACHATE	14/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2206142	HP02 0.40 LEACHATE	13/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2206143	HP02 0.40 LEACHATE	13/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2206144	HP01 1.00 LEACHATE	13/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2206145	HP01 1.00 LEACHATE	13/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2206146	WS08 0.50 LEACHATE	12/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2206147	WS08 0.50 LEACHATE	12/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2206148	RBH01 1.90 LEACHATE	11/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2206149	RBH01 1.90 LEACHATE	11/07/23	GJ 250ml, GJ 60ml x2, PT 1L x2		

Information in Support of the Analytical Results

Our Ref 23-17356

Client Ref NX406

Contract One City Road, Manchester

Key: G-Glass P-Plastic J-Jar T-Tub

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

Soil Analysis Notes

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

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

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

Disposal

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

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

End of Report



Certificate of Analysis

Certificate Number 23-18879

Issued: 30-Aug-23

Client NX Consulting Ltd
Station House
Stamford New Road
Altricham
WA14 1EP

Our Reference 23-18879

Client Reference NX406

Order No NX406

Contract Title One City Road, Manchester

Description 10 Soil samples, 2 Leachate samples.

Date Received 08-Aug-23

Date Started 08-Aug-23

Date Completed 30-Aug-23

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

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

Approved By

Kirk Bridgewood
General Manager



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Summary of Chemical Analysis

Soil Samples

Our Ref 23-18879

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2215591	2215592	2215593	2215594	2215595	2215596
Sample ID	WS12	WS12	WS13	WS14A	WS15	WS15
Depth	0.30	2.30	1.40	1.70	0.50	1.50
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	03/08/2023	04/08/2023	04/08/2023	04/08/2023	03/08/2023	04/08/2023
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg	7.9		21	6.9		23
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	0.7		1.6	0.4		1.3
Cadmium	DETSC 2301#	0.1	mg/kg	0.1		11	0.1		0.1
Chromium	DETSC 2301#	0.15	mg/kg	22		21	9.1		14
Copper	DETSC 2301#	0.2	mg/kg	28		140	34		170
Lead	DETSC 2301#	0.3	mg/kg	210		590	24		170
Mercury	DETSC 2325#	0.05	mg/kg	0.15		1.3	0.07		0.45
Nickel	DETSC 2301#	1	mg/kg	18		29	12		30
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5		< 0.5	< 0.5		< 0.5
Zinc	DETSC 2301#	1	mg/kg	61		820	74		52
Inorganics									
pH	DETSC 2008#		pH	7.8	7.3	8.6	8.2	10.6	7.9
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.7		0.3	< 0.1		< 0.1
Total Organic Carbon	DETSC 2084#	0.5	%	1.9		7.8			9.2
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l		110			310	
Sulphide	DETSC 2024*	10	mg/kg	27		20	27		27
Sulphate as SO4, Total	DETSC 2321#	100	mg/kg	735		2920	396		1780
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01		< 0.01			< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01		< 0.01			< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01		< 0.01			< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5		4.2			< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2		13			< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5		17			< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4		28			< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10		63			< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01		< 0.01			< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01		< 0.01			< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01		< 0.01			< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9		18			< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5		230			< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6		870			< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4		950			< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10		2100			< 10
TPH Ali/Aro Total C5-C35	DETSC 3072*	10	mg/kg	< 10		2100			< 10
Benzene	DETSC 3321#	0.01	mg/kg	< 0.01		< 0.01			< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.01		< 0.01			< 0.01
Toluene	DETSC 3321#	0.01	mg/kg	< 0.01		< 0.01			< 0.01
Xylene	DETSC 3321#	0.01	mg/kg	< 0.01		< 0.01			< 0.01
MTBE	DETSC 3321	0.01	mg/kg	< 0.01		< 0.01			< 0.01

Summary of Chemical Analysis

Soil Samples

Our Ref 23-18879

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2215591	2215592	2215593	2215594	2215595	2215596
Sample ID	WS12	WS12	WS13	WS14A	WS15	WS15
Depth	0.30	2.30	1.40	1.70	0.50	1.50
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	03/08/2023	04/08/2023	04/08/2023	04/08/2023	03/08/2023	04/08/2023
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
PAHs									
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03		330	0.47		< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03		8.3	0.11		< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03		730	2.2		< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03		530	1.8		< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.17		1700	14		< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	0.04		680	3.7		< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.25		1500	15		< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	0.26		1400	12		< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.11		980	5.1		< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	0.14		940	5.2		< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.10		1000	4.8		< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.04		410	1.9		< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.08		750	4.0		< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.04		350	1.6		< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03		40	0.49		< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.04		390	1.8		< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	1.3		12000	74		< 0.10
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3		0.9	< 0.3		< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 23-18879

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2215597	2215598	2215599	2215600
Sample ID	WS15	WS16	WS16	WS16
Depth	2.80	0.60	2.10	3.10
Other ID				
Sample Type	SOIL	SOIL	SOIL	SOIL
Sampling Date	04/08/2023	04/08/2023	04/08/2023	04/08/2023
Sampling Time	n/s	n/s	n/s	n/s

Test	Method	LOD	Units				
Metals							
Arsenic	DETSC 2301#	0.2	mg/kg	6.0	8.6	9.0	
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	0.7	0.9	1.0	
Cadmium	DETSC 2301#	0.1	mg/kg	0.1	< 0.1	< 0.1	
Chromium	DETSC 2301#	0.15	mg/kg	21	11	20	
Copper	DETSC 2301#	0.2	mg/kg	27	39	56	
Lead	DETSC 2301#	0.3	mg/kg	12	58	64	
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	0.18	0.27	
Nickel	DETSC 2301#	1	mg/kg	28	13	27	
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	
Zinc	DETSC 2301#	1	mg/kg	57	44	53	
Inorganics							
pH	DETSC 2008#		pH	8.0	7.0	7.2	8.0
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1	0.3	< 0.1	
Total Organic Carbon	DETSC 2084#	0.5	%		2.7		
Sulphate Aqueous Extract as SO ₄ (2:1)	DETSC 2076#	10	mg/l			220	53
Sulphide	DETSC 2024*	10	mg/kg	43	12	24	
Sulphate as SO ₄ , Total	DETSC 2321#	100	mg/kg	540	2360	1150	
Petroleum Hydrocarbons							
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg		< 0.01		
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg		< 0.01		
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg		< 0.01		
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg		< 1.5		
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg		< 1.2		
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg		< 1.5		
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg		< 3.4		
Aliphatic C5-C35	DETSC 3072*	10	mg/kg		< 10		
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg		< 0.01		
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg		< 0.01		
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg		< 0.01		
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg		2.8		
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg		2.1		
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg		12		
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg		14		
Aromatic C5-C35	DETSC 3072*	10	mg/kg		31		
TPH Ali/Aro Total C5-C35	DETSC 3072*	10	mg/kg		31		
Benzene	DETSC 3321#	0.01	mg/kg		< 0.01		
Ethylbenzene	DETSC 3321#	0.01	mg/kg		< 0.01		
Toluene	DETSC 3321#	0.01	mg/kg		< 0.01		
Xylene	DETSC 3321#	0.01	mg/kg		< 0.01		
MTBE	DETSC 3321	0.01	mg/kg		< 0.01		

Summary of Chemical Analysis

Soil Samples

Our Ref 23-18879

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2215597	2215598	2215599	2215600
Sample ID	WS15	WS16	WS16	WS16
Depth	2.80	0.60	2.10	3.10
Other ID				
Sample Type	SOIL	SOIL	SOIL	SOIL
Sampling Date	04/08/2023	04/08/2023	04/08/2023	04/08/2023
Sampling Time	n/s	n/s	n/s	n/s

Test	Method	LOD	Units				
PAHs							
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10	< 0.10	< 0.10	
Phenols							
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3	

Summary of Chemical Analysis

Soil VOC/SVOC Samples

Our Ref 23-18879

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2215592	2215595	2215599
Sample ID	WS12	WS15	WS16
Depth	2.30	0.50	2.10
Other ID			
Sample Type	SOIL	SOIL	SOIL
Sampling Date	04/08/2023	03/08/2023	04/08/2023
Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
VOCs						
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	0.01	< 0.01	0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01

Summary of Chemical Analysis

Soil VOC/SVOC Samples

Our Ref 23-18879

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2215592	2215595	2215599
Sample ID	WS12	WS15	WS16
Depth	2.30	0.50	2.10
Other ID			
Sample Type	SOIL	SOIL	SOIL
Sampling Date	04/08/2023	03/08/2023	04/08/2023
Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Naphthalene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
SVOCs						
Phenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Chlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Benzyl Alcohol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Hexachlorocyclopentadiene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Acenaphthylene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	
3-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Acenaphthene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	
4-Nitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dibenzofuran	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Diethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Chlorophenylphenylether	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Fluorene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	

Summary of Chemical Analysis

Soil VOC/SVOC Samples

Our Ref 23-18879

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	2215592	2215595	2215599
Sample ID	WS12	WS15	WS16
Depth	2.30	0.50	2.10
Other ID			
Sample Type	SOIL	SOIL	SOIL
Sampling Date	04/08/2023	03/08/2023	04/08/2023
Sampling Time	n/s	n/s	n/s

Test	Method	LOD	Units			
4-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Methyl-4,6-Dinitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Diphenylamine	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Bromophenylphenylether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Pentachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Phenanthrene	DETSC 3433	0.1	mg/kg	< 0.1	0.7	
Anthracene	DETSC 3433	0.1	mg/kg	< 0.1	0.2	
Di-n-butylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Fluoranthene	DETSC 3433	0.1	mg/kg	< 0.1	0.8	
Pyrene	DETSC 3433	0.1	mg/kg	< 0.1	0.8	
Butylbenzylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	DETSC 3433	0.1	mg/kg	0.1	0.4	
Chrysene	DETSC 3433	0.1	mg/kg	< 0.1	0.6	
Bis(2-ethylhexyl)phthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Di-n-octylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	
Benzo(k)fluoranthene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	
Benzo(a)pyrene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	
Indeno(123cd)pyrene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	
Dibenzo(ah)anthracene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	
Benzo(ghi)perylene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	
1,4-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dimethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,3-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,2-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,3,5,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Azobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Carbazole	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1

WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 23-18879

Client Ref NX406

Contract Title One City Road, Manchester

Sample Id WS13 1.40

Sample Numbers 2215593 2215601

Date Analysed 25/08/2023

Test Results On Waste			WAC Limit Values		
Determinand and Method Reference	Units	Result	Inert Waste	SNRHW	Hazardous Waste
DETS 2084# Total Organic Carbon	%	7.8	3	5	6
DETS 2003# Loss On Ignition	%	6.8	n/a	n/a	10
DETS 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETS 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETS 3311# TPH (C10 - C40)	mg/kg	6900.0	500	n/a	n/a
DETS 3301 PAHs	mg/kg	1900.0	100	n/a	n/a
DETS 2008# pH	pH Units	8.6	n/a	>6	n/a
DETS 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETS 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate			WAC Limit Values		
Determinand and Method Reference	Conc in Eluate ug/l	Amount Leached* mg/kg	Limit values for LS10 Leachate		
	10:1	LS10	Inert Waste	SNRHW	Hazardous Waste
DETS 2306 Arsenic as As	1.9	0.019	0.5	2	25
DETS 2306 Barium as Ba	33	0.33	20	100	300
DETS 2306 Cadmium as Cd	0.075	< 0.02	0.04	1	5
DETS 2306 Chromium as Cr	0.37	< 0.1	0.5	10	70
DETS 2306 Copper as Cu	1.4	< 0.02	2	50	100
DETS 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETS 2306 Molybdenum as Mo	2.7	< 0.1	0.5	10	30
DETS 2306 Nickel as Ni	< 0.50	< 0.1	0.4	10	40
DETS 2306 Lead as Pb	1.9	< 0.05	0.5	10	50
DETS 2306 Antimony as Sb	1.5	< 0.05	0.06	0.7	5
DETS 2306 Selenium as Se	0.63	< 0.03	0.1	0.5	7
DETS 2306 Zinc as Zn	4.2	0.042	4	50	200
DETS 2055 Chloride as Cl	2600	< 100	800	15,000	25,000
DETS 2055* Fluoride as F	220	2.2	10	150	500
DETS 2055 Sulphate as SO4	53000	530	1000	20,000	50,000
DETS 2009* Total Dissolved Solids	190000	1900	4000	60,000	100,000
DETS 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETS 2085 Dissolved Organic Carbon	2800	< 50	500	800	1000

Additional Information	
DETS 2008 pH	7.0
DETS 2009 Conductivity uS/cm	267.0
* Temperature*	20.0
Mass of Sample Kg*	0.110
Mass of dry Sample Kg*	0.098
Stage 1	
Volume of Leachant L2*	0.967
Volume of Eluate VE1*	0.91

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive
Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.

* DETS are accredited for the testing of leachates and not the leachate preparation stage which is unaccredited.

WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 23-18879

Client Ref NX406

Contract Title One City Road, Manchester

Sample Id WS16 0.60

Sample Numbers 2215598 2215602

Date Analysed 25/08/2023

Test Results On Waste			WAC Limit Values		
Determinand and Method Reference	Units	Result	Inert Waste	SNRHW	Hazardous Waste
DETS 2084# Total Organic Carbon	%	2.7	3	5	6
DETS 2003# Loss On Ignition	%	5.2	n/a	n/a	10
DETS 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETS 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETS 3311# TPH (C10 - C40)	mg/kg	< 10	500	n/a	n/a
DETS 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETS 2008# pH	pH Units	7.0	n/a	>6	n/a
DETS 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETS 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate			WAC Limit Values		
Determinand and Method Reference	Conc in Eluate ug/l	Amount Leached* mg/kg	Limit values for LS10 Leachate		
	10:1	LS10	Inert Waste	SNRHW	Hazardous Waste
DETS 2306 Arsenic as As	0.76	< 0.01	0.5	2	25
DETS 2306 Barium as Ba	26	0.26	20	100	300
DETS 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETS 2306 Chromium as Cr	< 0.25	< 0.1	0.5	10	70
DETS 2306 Copper as Cu	1.8	< 0.02	2	50	100
DETS 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETS 2306 Molybdenum as Mo	< 1.1	< 0.1	0.5	10	30
DETS 2306 Nickel as Ni	0.69	< 0.1	0.4	10	40
DETS 2306 Lead as Pb	0.51	< 0.05	0.5	10	50
DETS 2306 Antimony as Sb	0.27	< 0.05	0.06	0.7	5
DETS 2306 Selenium as Se	< 0.25	< 0.03	0.1	0.5	7
DETS 2306 Zinc as Zn	4.7	0.047	4	50	200
DETS 2055 Chloride as Cl	2500	< 100	800	15,000	25,000
DETS 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETS 2055 Sulphate as SO4	76000	760	1000	20,000	50,000
DETS 2009* Total Dissolved Solids	180000	1800	4000	60,000	100,000
DETS 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETS 2085 Dissolved Organic Carbon	2600	< 50	500	800	1000

Additional Information	
DETS 2008 pH	7.0
DETS 2009 Conductivity uS/cm	261.0
* Temperature*	20.0
Mass of Sample Kg*	0.110
Mass of dry Sample Kg*	0.094
Stage 1	
Volume of Leachant L2*	0.926
Volume of Eluate VE1*	0.87

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive
Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.

* DETS are accredited for the testing of leachates and not the leachate preparation stage which is unaccredited.

Summary of Asbestos Analysis

Soil Samples

Our Ref 23-18879

Client Ref NX406

Contract Title One City Road, Manchester

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2215591	WS12 0.30	SOIL	NAD	none	Robertas Ciparis
2215593	WS13 1.40	SOIL	NAD	none	Robertas Ciparis
2215596	WS15 1.50	SOIL	NAD	none	Robertas Ciparis
2215598	WS16 0.60	SOIL	NAD	none	Robertas Ciparis

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * - not included in laboratory scope of accreditation.

Information in Support of the Analytical Results

Our Ref 23-18879
 Client Ref NX406
 Contract One City Road, Manchester

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
2215591	WS12 0.30 SOIL	03/08/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2215592	WS12 2.30 SOIL	04/08/23	GJ 250ml, GJ 60ml x2, PT 1L		
2215593	WS13 1.40 SOIL	04/08/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2215594	WS14A 1.70 SOIL	04/08/23	GJ 250ml, GJ 60ml x2, PT 1L		
2215595	WS15 0.50 SOIL	03/08/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2215596	WS15 1.50 SOIL	04/08/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2215597	WS15 2.80 SOIL	04/08/23	GJ 250ml, GJ 60ml x2, PT 1L		
2215598	WS16 0.60 SOIL	04/08/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2215599	WS16 2.10 SOIL	04/08/23	GJ 250ml, GJ 60ml x2, PT 1L		
2215600	WS16 3.10 SOIL	04/08/23	GJ 250ml, GJ 60ml x2, PT 1L		
2215601	WS13 1.40 LEACHATE	04/08/23	GJ 250ml, GJ 60ml x2, PT 1L x2		
2215602	WS16 0.60 LEACHATE	04/08/23	GJ 250ml, GJ 60ml x2, PT 1L x2		

Key: G-Glass P-Plastic J-Jar T-Tub

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

Soil Analysis Notes

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

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

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

Disposal

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

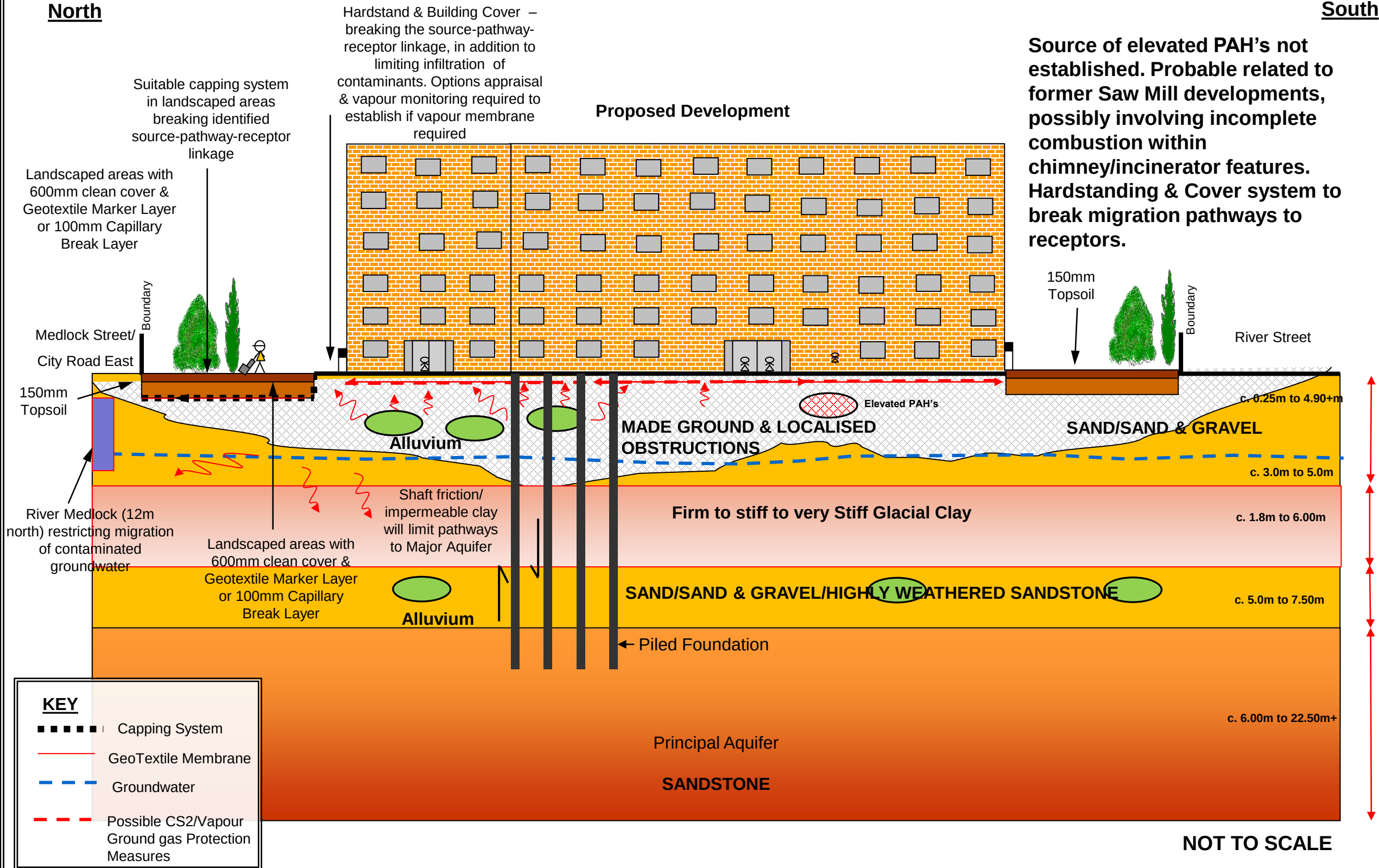
Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

End of Report

Appendix F – Conceptual Models & Risk Assessments

North

South



PRINCIPLES OF RISK ASSESSMENT

MONITORING AND ASSESSMENT CRITERIA

C 1.0 GENERAL

- C 1.1 The purpose of this appendix is to describe in detail the concepts underlying the risk-based approach to assessing potentially contaminated land, introduce the roles of key legislation and describe the qualitative methodology adopted for evaluating and characterising risk.
- C 1.2 Current best practice in the UK promotes a risk-based approach to dealing with both soil and groundwater contamination. The principal aim of the approach is to ensure protection of human health and the environment in a thorough, transparent and cost-effective manner.
- C 1.3 Fundamental to the risk-based approach is the concept that for 'Contaminated Land' to be designated, as a consequence of historic activities, a pathway for contamination must be shown to exist between a source of contamination and a receptor. The combined presence of a source, pathway and a receptor is described as a 'pollutant linkage'.
- C 1.4 The concepts associated with a contaminant source, pathway and receptor are defined in DETR Circular 02/2000 'Contaminated Land Environmental Protection Act 1990: Part II A'. A **source** of contamination may be considered as a 'substance which is in, on or under land that has the potential to cause harm or to cause pollution of controlled waters'. A **receptor** can be considered as either 'a living organism, a group of living organisms, an ecological system or a piece of property which is being, or could be harmed, by a contaminant or controlled waters which are being, or could be, polluted by a contaminant'. A **pathway** may be considered as one or more routes by, or through, which a receptor is being, or could be, exposed to or affected by a contaminant. Typical pathways may include migration in groundwater, surface water run-off or infiltration, inhalation, dermal contact and ingestion.
- C 1.5 The risks posed by an identified pollutant linkage can often be mitigated by removing the source of contamination, treating the source of contamination, blocking the relevant pathway(s) or by protecting the receptor.

C 2.0 PRINCIPLES OF RISK EVALUATION

- C 2.1 The risk evaluation methodology presented below is qualitative in nature, and is therefore a subjective method. It is based upon guidance presented in CIRIA publication referenced C552, 'Contaminated land risk assessment ~ A guide to good practice', 2001 and involves the classification of the following.
- C 2.2 The magnitude of the potential **consequence** (severity) of risk occurring (Table C 1).
- C 2.3 The magnitude of the **probability** (likelihood) of the risk occurring (Table C 2).
- C 2.4 These are then considered in conjunction to give a risk matrix (Table C 3)

Classification	Definition	Examples
Severe	Short-term (acute) risk to human health likely to result in 'significant harm' as defined by the Environmental Protection Act 1990, Part II A. Short-term risk of pollution (note: Water Resources Act contains no scope for considering significance of pollution) of sensitive water resource. Catastrophic damage to buildings/property. A short-term risk to a particular ecosystem, or organism forming part of such ecosystem (note the definitions of ecological systems within the Draft Circular on Contaminated Land, DETR, 2000).	High concentrations of cyanide on the surface of an informal recreation area. Major spillage of contaminants from site into controlled water. Explosion, causing building collapse (can also equate to a short-term human health risk if buildings are occupied).
Medium	Chronic damage to Human Health ('significant harm' as defined in DETR, 2000). Pollution of sensitive water resources (note: Water Resources Act contains no scope for considering significance of pollution). A significant change in a particular ecosystem, or organism forming part of such ecosystem. (Note: the definitions of ecological systems within Draft Circular on Contaminated Land, DETR, 2000).	Concentrations of a contaminant from site exceed the generic, or site-specific assessment criteria. Leaching of contaminants from a site to a major or minor aquifer. Death of a species within a designated nature reserve.
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ('significant harm' as defined in the <i>Draft Circular on Contaminated Land</i> , DETR, 2000). Damage to sensitive buildings/structures/ services or the environment.	Pollution of non-classified groundwater. Damage to building rendering it unsafe to occupy (e.g. foundation damage resulting in instability).
Minor	Harm although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve. Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc). Easily repairable effects of damage to buildings, structures and services.	The presence of contaminants at such concentrations that protective equipment is required during site works. The loss of plants in a landscaping scheme. Discolouration of concrete.

Table C 1: Classification of Consequence

Classification	Definition
High likelihood	There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution.
Likely	There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.
Low Likelihood	There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such event would take place, and is less likely in the shorter term.
Unlikely	There is a pollution linkage but circumstances are such that it is improbable that an event would occur even in the very long term.

Table C 2: Classification of Probability

		Consequence			
		Severe	Medium	Mild	Minor
Probability	High Likelihood	Very High Risk	High Risk	Moderate Risk	Moderate/Low Risk
	Likely	High Risk	Moderate Risk	Moderate/Low Risk	Low Risk
	Low Likelihood	Moderate Risk	Moderate/Low Risk	Low Risk	Very Low Risk
	Unlikely	Moderate/Low Risk	Low Risk	Very Low Risk	Very Low Risk

Table C 3: Comparison of Consequence Against Probability

Very High Risk	<p>There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening.</p> <p>This risk, if realised, is likely to result in a substantial liability.</p> <p>Urgent investigation (if not undertaken already) and remediation are likely to be required.</p>
High Risk	<p>Harm is likely to arise to a designated receptor from an identified hazard.</p> <p>Realisation of the risk is likely to present a substantial liability.</p> <p>Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely over the longer term.</p>
Moderate Risk	<p>It is possible that harm could arise to a designated receptor from an identified hazard. However, it is relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild.</p> <p>Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.</p>
Low Risk	<p>It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.</p>
Very Low Risk	<p>There is a low possibility that harm could arise to a receptor. In the event of such harm being realised, it is not likely to be severe.</p>

Table C 4: Description of the classified risks and likely action required

Conceptual Site Model (CSM) and Refined Risk Assessment Table 2.0 (Phase 2)

Table and Summary of Potential Risks, Sheet 1

SOURCE – PATHWAY -RECEPTOR LINKAGE				QUANTITATIVE RISK ASSESSMENT		
Contaminant	Location	Receptors	Pathways to Receptors	Associated Hazard (Potential Severity)	Likelihood of Occurrence	Risk*
<p>Potential contaminants may be present within Made Ground and natural strata beneath the site associated with historical past usage.</p> <ul style="list-style-type: none"> - Ash, cinder and clinker used for levelling / drainage: heavy metals, sulphates and PAHs. - Hydrocarbons. - Asbestos Containing Material (ACM). - VOCs, SVOCs <p>Asbestos Containing Materials may also present within existing structures</p>	Possibly within sub surface strata.	Ground water (Secondary A Aquifer & Principal Aquifer)	Vertical percolation to groundwater	Groundwater (Medium – pollution of sensitive water resource)	<p>Low Likelihood</p> <p>Slightly elevated concentrations of lead recorded. Localised elevated concentrations of PAH's, TPH in RBH01. Further intrusive works & remedial options appraisal and possible remediation required to minimise risks to controlled water receptors.</p>	Moderate reassessed as Low post construction
		Surface Water 12m north – River Medlock	Lateral percolation to surface water	Surface Water (Medium – pollution of Sensitive water resource)	<p>Unlikely</p> <p>Very slightly elevated organic contaminants recorded in groundwater tests. Localised hydrocarbon contamination within RBH01. Distance and presence of low permeability Clay will restrict vertical and lateral migration of potential contamination to the River Medlock. Supplementary works around RBH01 to determine spread of HC contamination.</p>	Moderate reassessed as Low to moderate
		End user of site (Staff and patrons)	Direct contact, Ingestion, Inhalation (Dust and Vapours)	Human Health (Medium)	<p>Unlikely</p> <p>Elevated concentrations of PAH's in soils within WS13 under existing building. Hardstanding & 600mm cover system required in new landscaped areas.</p>	Low/moderate reassessed as low post construction

		Construction workers if applicable	Direct contact, Ingestion, Inhalation (Dust and Vapours)	Groundwater (Medium – pollution of sensitive water resource)	Possible in soil samples retrieved within Made Ground. Appropriate PPE required & asbestos control measures	Low/Moderate reassessed as low post construction
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SOURCE – PATHWAY -RECEPTOR LINKAGE				QUANTITATIVE RISK ASSESSMENT		
Contaminant	Location	Receptors	Pathways to Receptors	Associated Hazard (Potential Severity)	Likelihood of Occurrence	Risk*
Off site contaminants from surrounding land use	Possibly within Made Ground surrounding site.	End user of site (Staff and patrons)	Direct contact, Ingestion, Inhalation (Dust and Vapours)	Human Health (Medium)	Unlikely No significant potentially mobile contaminants recorded.	Moderate reassessed as low post construction
		Construction workers if applicable	Direct contact, Ingestion, Inhalation (Dust and Vapours)	Human Health (Minor – Providing suitable PPE equipment is worn)	Likely Likely Possible in soil samples retrieved within Made Ground. Appropriate PPE required & asbestos control measures.	Low/Moderate reassessed as low post construction
Gas associated with Made Ground & Alluvium	Possibly within strata beneath the site.	End user of site (Staff and patrons)	Migration through strata and accumulation under buildings of explosive and asphyxiating gases.	Human Health (Severe)	CS2 measures required or post remediation ground gas monitoring to confirm low risk. No nearby landfills recorded. Full reinforced gas proof membrane installed, and passively vented underfloor sub-space required.	Low/Moderate reassessed as low post construction

* Where risk is evaluated as **moderate** or greater) either; a) remedial action is recommended to address this residual risk (Section 8.0 in the main body of the report) or, b) further investigation is recommended to better inform the risk classification and/or to enable a more detailed, quantitative risk assessment to be undertaken.

Appendix G – Gas Monitoring Results

Job No:	NX406		Site:	No. 1 City Road East, Manchester
Date:	31/07/2023		Client:	Marshall
Engineer:	MN		Equipment:	GA5000

WS12	Flow Rate (l/h)	Pressure Differential	Gas Concentration												Water		Start		Finish	
			Peak						Steady											
			CH ₄ %	CO ₂ %	O ₂ %	LEL %	H2S/ CO (ppm)	CH ₄ %	CO ₂ %	O ₂ %	LEL %	H2S/ CO (ppm)	Depth to Water	Depth to Base	Barometric Pressure	Barometric Pressure				
08/08/2023	0.0	0.02	0.2	2.8	16.8	4.0	0/0	0.2	2.8	16.8	4.0	0/0	Dry	2.97			1010		1010	
14/08/2023	0.0	0.09	0.3	4.1	15.8	6.0	0/0	0.3	4.1	15.8	6.0	0/0	Dry	2.97			1002		1002	
24/08/2023	0.0	0.07	0.2	3.0	17.3	4.0	0/0	0.2	3.0	17.3	4.0	0/0	Dry	2.97			1010		1010	
31/08/2023	0.0	0.05	0.2	3.1	16.2	4.0	0/1	0.2	3.1	16.2	4.0	0/1	Dry	2.98			1006		1006	
05/09/2023	0.0	0.16	0.1	1.8	18.4	2.0	0/1	0.1	1.8	18.4	2.0	0/1	Dry	2.98						

WS14a	Flow Rate (l/h)	Pressure Differential	Gas Concentration												Water		Start		Finish	
			Peak						Steady											
			CH ₄ %	CO ₂ %	O ₂ %	LEL %	H2S/ CO (ppm)	CH ₄ %	CO ₂ %	O ₂ %	LEL %	H2S/ CO (ppm)	Depth to Water	Depth to Base	Barometric Pressure	Barometric Pressure				
08/08/2023	0.0	0.21	0.2	0.3	20.5	4.0	0/0	0.2	0.3	20.5	4.0	0/0	Dry	1.91		1010	1010			
14/08/2023	0.0	0.07	0.3	1.0	19.6	6.0	0/0	0.3	1.0	19.6	6.0	0/0	Dry	1.90		1002	1002			
24/08/2023	0.0	0.09	0.2	0.3	20.3	4.0	0/0	0.2	0.3	20.3	4.0	0/0	Dry	1.90		1010	1010			
31/08/2023	0.0	0.05	0.2	0.2	19.5	4.0	0/1	0.2	0.2	19.5	4.0	0/1	Dry	1.88		1006	1006			
05/09/2023	0.0	0.09	0.1	0.1	19.9	2.0	0/1	0.1	0.1	19.9	2.0	0/1	Dry	1.88		1016	1016			

WS15a	Flow Rate (l/h)	Pressure Differential	Gas Concentration												Water		Start		Finish	
			Peak						Steady											
			CH ₄ %	CO ₂ %	O ₂ %	LEL %	H2S/ CO (ppm)	CH ₄ %	CO ₂ %	O ₂ %	LEL %	H2S/ CO (ppm)	Depth to Water	Depth to Base						
08/08/2023	0.0	0.05	9.1	5.2	12.1	182.0	0/1	9.1	5.2	12.1	182.0	0/1	Dry	2.90		1010		1010		
14/08/2023	0.0	0.07	12.6	5.7	10.6	252.0	0/2	12.6	5.7	10.6	252.0	0/2	Dry	2.90		1002		1002		
24/08/2023	0.0	0.11	7.8	5.6	11.5	156.0	0/1	7.8	5.6	11.5	156.0	0/1	Dry	2.90		1010		1010		
31/08/2023	0.0	0.05	0.4	2.5	16.7	8.0	0/1	0.4	2.5	16.7	8.0	0/1	Dry	2.89		1006		1006		
05/09/2023	0.0	0.16	2.2	3.4	14.2	44.0	0/2	2.2	3.4	14.2	44.0	0/2	Dry	2.88		1016		1016		

CH ₄		Above the 1.0% v/v guideline value in Waste Management Paper no 27 (WMP27).										CO ₂		Above the 1.5% v/v guideline value given in WMP27.									
Date	Weather	Pressure Trend										Ground Conditions											
31/07/2023	Cloudy with frequent rain.	Low and falling										Slightly wet											
08/08/2023	Sunny and warm.	High and steady										Dry											
14/08/2023	Sunny and warm, with occasional rain.	High and falling										Slightly wet											
24/08/2023	Overcast, cloudy with sunny spells.	High and steady										Dry											
31/08/2023	Sunny and warm.	High and steady										Dry											
05/09/2023	Sunny and warm.	High and steady										Dry											