

1.0 ENZYGO WS LOG CRM.1027.087 RICHMOND.GPJ GINT STD AGS 3\_1 ENZYGO.GPJ 3/5/21

Site										
R	ichmor	nd								
Job No			Dates	Start 28	8-04-21	Groun	d Level (	m)	Co-Ordinates WS1	
CRM	[.1027.	087		Finish 2	28-04-21					
Client									Sheet	
Н	ill Part	nershij	5						1 of 1	
Well	Water			In Situ Te	sting	Depth	Level	Logond	Stratum Description	
	Levels	Dept	:h (m)	No/Type	Results	(m)	(mAD)	Legend	Stratum Description	0
									MADE GROUND: Grass over multicoloured (brown to light brown and light black) clayey to very clayey occasionally gravelly fine SAND. Gravel is	-
65865		0.20 -	0.40	ES					subangular and subrounded, fine to coarse flint, tarmac, brick and ash.	-
65865										-
						0.45			Brown condu CLAX. Sond is fine	-[
									Brown sandy CLAY. Sand is fine.	_
						0.70		<u> </u>	Drawn alevau fina ta madium CAND	_
		0.90 -	1 00	D					Brown clayey fine to medium SAND.	-
		1.00 -		SPT	C7			·		-
									1.00 - 1.45 Loose.	[ '
										-
						1.30			Light brown slightly clayey fine to medium SAND.	_
								·····	Light blown slightly blayey line to medium on wb.	-
60860								· · · · · · · · ·		Ľ
										-
								<u> </u>		-
		1.90 - 2.00 -		D SPT	C 11			······································		-
		2.00 -	2.45	J JF I						- 2
						2.20				_
									Brown to light brown very sandy CLAY. Sand is fine.	-
										-
						2.60				F
65865								· · · · · · · · · · · · · · · · · · ·	Light brown slightly clayey gravelly fine to medium SAND. Gravel is angular	
									medium flint.	-
		2.90 -		D	0.50					-
		3.00 -	3.45	SPT	C 56	3.00			Light brown slightly clayey gravelly fine to medium SAND. Gravel is angular	3
								. · <u>···</u> a · . <del>··</del>	medium flint.	Ľ
								· · · · · · · · ·	3.00 - 3.45 Very dense, refused.	-
						3.45			-	
									Borehole completed at 3.45m.	F
										Ľ
										Ę
										-
						{4.00}				- 4
General	Rema	·ks								
EQUIPM	IENT: A	rchway	compac	t window	v sampling	g tracked	rig.	1.1100	. 2.00 - 1 - 1	
CASING	i: Not us	ed.	-	-		egi. Dyn	amic sam	pled 1.00h	n-3.00m begl.	
					ountered. was back	filled wit	h arisinos	S.		
	011		,				B			
Ground	water								cing Depth After	
Ground	i vv atel		Da	ite		Strike Do (m)	epth	Ca	sing Depth Depth Alter (m) Observation (m) (m)	
						. ,			(111)	
	ensions i		5						Logged By KC	
2	Scale 1:2	3							KC	



1.0 ENZYGO WS LOG CRM.1027.087 RICHMOND.GPJ GINT STD AGS 3\_1 ENZYGO.GPJ 3/5/21

Site										
	ichmon								WS2	
Job No		Dat	es Start 27	-04-21	Grour	nd Level (	m)	Co-Ordinates	VV32	
CRM	[.1027.0	087	Finish 2	27-04-21						
Client									Sheet 1 C 1	
Н	ill Part	nership							1 of 1	
Well	Water	Samples	& In Situ Te	sting	Depth	Level	Legend	Stratum Description		
	Levels	Depth (m)	No/Type	Results	(m)	(mAD)	Legenu	Stratum Description		L 0
								MADE GROUND: Grass over multicoloured (brown to light		
		0.20 - 0.40	ES		0.20			black) clayey to very clayey very gravelly fine SAND. Gra n and subrounded, fine to coarse flint, ash and brick.	vei is subangular	┢
								0.00 - 1.80 With roots.		╟
65865					0.45			MADE GROUND: Brown to black clayey very gravelly fine angular fine to coarse flint, ash and clinker.	e SAND. Gravel is	F
65366							<u> </u>	Brown sandy CLAY. Sand is fine.		1
66866								blown sandy CLAT. Sand is line.		Ľ
66866								-		L
66866		0.90 - 1.00	D							Ļ
60860		1.00 - 1.45	SPT	C 14				_		- 1
66866										F
60860										F
60360					1.40					F
					1.10			Brown clayey fine SAND.		Ţ
								-		Ļ
							·			F
					1.80					+
		1.90 - 2.00	D					Multicoloured (light brown to light grey and very light orar slightly clayey, occasionally gravelly fine to coarse SAND	nge) clayey to locally . Gravel is rounded	F
		2.00 - 2.45	SPT	C 29				and subrounded fine flint.		- 2
								2.00 - 2.45 Medium dense.		F
							· · · · · · · ·			Ē
										Ļ
								-		F
										F
		0.00 0.00						-		F
		2.90 - 3.00 3.00 - 3.45	D SPT	C 53	3.00					F.
		5.00 - 5.45		0.33	5.00			Multicoloured (light brown to light grey and very light orar		3
							. · <u>· · · ·</u> · · · · · ·	slightly clayey, occasionally gravelly fine to coarse SAND and subrounded fine flint.	. Gravel is rounded	[
								3.00 - 3.45 Very dense, refused.		Ļ
					3.45		. <u> </u>	3.00 - 3.45 Very dense, feldsed.		F
					0.10			Borehole completed at 3.45m.		7
										F
										F
										F
										4
<u> </u>		1			{4.00}					-
General				1:	~ tuo a1ra d					
METHO	D: Hand	rchway comp dug inspection	on pit 0.00n	n-1.00m b	egl. Dyn	amic sam	pled 1.00m	n-3.00m begl.		
CASING		ed. R: Groundwa	-	ountored			-	-		
BACKFI	LL: On o	completion, th	ne borehole	was back	filled wit	th arisngs				
						5				
Ground	water							Depth After		
Ground	e vv atel		Date		Strike D (m)		Ca	(m) Observation		
					()			(m)		
All dim	ensions in	n metres							Logged By	
	Scale 1:2:								KC	



			-			VVCL		2390.0011		
Site										
	ichmor								WS4	
Job No			Dates Start	27-04-21		d Level (	m)	Co-Ordinates	1104	
	[.1027.	087	Finisł	n 27-04-21					-	
Client								S	Sheet 1 of 1	
H		nership	es & In Situ	Tooting						-
Well	Water Levels	Depth (			Depth (m)	Level (mAD)	Legend	Stratum Description		
			m) No/Ty 40 ES 00 D 45 SPT	- C 22			Legend	Stratum Description         MADE GROUND: Grass over multicoloured (brown to light black) clayey to very clayey occasionally gravelly fine SAND subangular and subrounded, fine to coarse flint, brick and at a fine to coarse flint.         Multicoloured (light orange brown to light grey) gravelly fine foravel is angular coarse flint.         Multicoloured (light orange brown to light grey) gravelly fine foravel is angular coarse flint.         2.00 - 2.45 Very dense. Refused at 2.45m begl.         Borehole completed at 2.45m.	to coarse SAND.	
					{4.00}					- 4
General							_			_
METHO CASINC GROUN BACKFI	D: Hand : Not us DWATE LL: On o	l dug inspec ed. ER: Ground	mpact windo ction pit 0.00 water not er , the boreho	0m-1.00m	begl. Dyn	amic sam		n-2.00m begl.		
Ground	lwater		Date		Strike D (m)		Ca	sing Depth Depth After (m) (m) (m)		
	ensions i Scale 1:2	n metres 5						I	Logged By KC	



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Site												
R Job No	Richmor	nd	Dates			Groun	d Level (	(m)	Co-Ordinates		WS5	
	4.1027.	087	2	Start 27- Finish 2	-04-21 7-04-21			)				
Client			<u> </u>			<u> </u>					Sheet 1 of 2	
H	Hill Part							1	1		1 01 2	
Well	Water Levels		1 <b>ples &amp; li</b> :h (m)	n Situ Tes No/Type		Depth (m)	Level (mAD)	Legend		Stratum Descrip	tion	
		0.20 -	0.40	ES		0.20			black) clayey to v		brown to light brown and light SAND. Gravel is subangular brick.	0 
						0.45			MADE GROUND angular fine to co	): Brown to black clayey very oarse flint, ash and clinker.	gravelly fine SAND. Gravel is	- -
						0.10			Brown to light bro subrounded fine		gravelly fine SAND. Gravel is	-
	•								-			-
		0.90 - 1.00 -		D SPT	C 8				<b>-</b>			- 1
									1.00 - 1.45 Loose	e.		-
	•								-			
												-
	•					1.60			-			Ļ
									slightly clayey, or	ccasionally gravelly fine to co	ery light orange) clayey to locally parse SAND. Gravel is rounded	
		1.90 -		D	0.04				and subrounded			-
	•	2.00 -	2.45	SPT	C 24			· · · · · · ·	2.00 - 2.45 Mediu	um dense.		- 2
	I ⊻								-			E
	•											-
												È
	•											+
		2.90 -	3.00	D					-			Ļ
	•	3.00 -	3.45	SPT	C 24				3.00 - 3.45 Mediu	um dense.		- 3
									2			F
	•								-			E
	•								-			F
									5			
		2.00	4.00						-			-
		3.90 - 4.00 -		D SPT	C 51	4.00						
Genera	l Remai	:ks		1	1	{4.00}	1	1	1	Continued next st		
METHO	DD: Hand	dug ins	compact pection 1	t window pit 0.00m	sampling -1.00m b	g tracked egl. Dyna	rig. amic sam	pled 1.00n	n-4.00m begl.			
CASINO GROUN	G: Not us NDWATE	ed. ER: Grou	ındwater	encounte	ered at 2.	20m begl						
BACKF	TLL: On 0 10m-0.00	completi	ion, a slo	tted pipe	(50mm)	was insta	illed to 3.	.50m begl,	granular response	zone (3.50m-0.50m), bentor	nite seal 0.50m-0.10m, flush sto	eel
Ground	dwater		Dat	e		Strike De	epth	Ca	sing Depth	Depth After Observation		
			27/04			(m) 2.20			(m)	(m)		
			2,,01			2.20						

All dimensions in metres
Scale 1:25



Site										
	ichmor	nd								
Job No CRM	1.1027.0		Dates Start 2 Finish	7-04-21 27-04-21		nd Level (1	m)	Co-Ordinates		
Client H	lill Part	nership			1				Sheet 2 of 2	
Well	Water		les & In Situ T	-	Depth		Legend	Stratum Descriptio	on	
General EQUIPN METHO CASINO GROUN	Levels	Depth Charlen State Charlen St	(m) No/Typ (m) No/Typ	w sampling m-1.00m b	(m) 4.45 {8.00} g tracked pegl. Dyn 20m beg	rig. amic sam	pled 1.00m	Multicoloured (light brown to light grey and very slightly clayey, occasionally gravelly fine to coa and subrounded fine flint. 4.00 - 4.45 Very dense, refused. Borehole completed at 4.45m.	/ light orange) clayey to locally rse SAND. Gravel is rounded	
cover 0.1	10m-0.00	)m.								
Ground	lwater		Date		Strike D (m)	epth	Ca	sing Depth Depth After (m) (m) (m)		
									I ID	



		10				web	: www.ei	nzygo.com		
Site										
F	Richmor	nd								
Job No			GL 1 07	04.01	Groun	d Level (	m)	Co-Ordinates	WS6	
CRM	4.1027.	087	Start 27 Finish 2	-04-21 27-04-21						
Client								S	Sheet	
H	Hill Part	nership							1 of 1	
	Water	Samples & I	n Situ Te	sting	Depth	Level		Stature Description		
Well	Levels	Depth (m)	No/Type	Results	(m)	(mAD)	Legend	Stratum Description		- 0
		0.20 - 0.40	ES		0.15			MADE GROUND: Grass over multicoloured (brown to light b black) clayey to very clayey very gravelly fine SAND. Gravel and subrounded, fine to coarse flint and brick.		-
					0.60			MADE GROUND: Multicoloured (brown to light brown and lig to very clayey very gravelly fine SAND with asbestos fibres a pieces. Gravel is subangular and subrounded, fine to coarse	and cast iron	- - -
	•							Brown to light brown occasionally gravelly sand CLAY. Grav fine flint. Sand is fine.	el is subrounded	-
		0.90 - 1.00 1.00 - 1.45	D SPT	C 9						F
		1.00 - 1.45	551	0.9				1.00 - 1.45 Firm, low strength.		- 1
							- <u>-</u>	- - -		F
										F
	•				1.70					F
	•	1.90 - 2.00	D					Pale orange yellow slightly gravelly fine to coarse SAND, mo is subangular and subrounded fine flint.	ostly fine. Gravel	F
		2.00 - 2.45	SPT	C 34						- 2
							· · · · · ·	2.00 - 2.45 Dense.		F
										F
		2.50 - 2.60 2.60 - 2.98	D SPT	C 53	2.60					F
								2.60 Sampler barrel refused. 2.60 - 2.98 Very dense, refused.		-
					2.98		· · · · ·	Pale orange yellow slightly gravelly fine to coarse SAND, mo is subangular and subrounded fine flint.	ostly fine. Gravel	-
					2.00			Borehole completed at 2.98m.		- 3  -
										-
										F
										F
										F
										E,
C	 1 ש	.1			{4.00}					- 4
METHO CASINO GROUN BACKF	MENT: A DD: Hand G: Not us IDWATE	rchway compac dug inspection ed. ER: Groundwate completion, a slo	pit 0.00n r not enco	n-1.00m b ountered.	egl. Dyna	amic sam	-	n-2.60m begl. granular response zone (2.50m-0.50m), bentonite seal 0.50m	-0.10m, flush stee	1
Groun	dwater	Da	te		Strike De	epth	Ca	sing Depth Depth After (m) Observation (m) (m)		



Site											
R	ichmor	nd								14/07	
Job No			Dates	Start 27	04 21	Groun	d Level (	m)	Co-Ordinates	WS7	
CRM	1.1027.	087		Finish 2	27-04-21						
Client						-				Sheet	
Н	[ill Part	nership	1							1 of 1	
	Water	-		n Situ Te	sting	Depth	Level	l			Τ
Well	Levels	Dept	ח (m)	No/Type	Results	(m)	(mAD)	Legend	Stratum Description		- o
		0.20 -	0.40	ES		0.55			MADE GROUND: Grass over multicoloured (brown to ligit black) occasionally gravelly clayey to very clayey fine SA fragments. Gravel is subangular and subrounded, fine to and ash.	ND with glass	-
		0.90 -	1.00	D					Dark brown to brown occasionally gravelly CLAY. Gravel medium flint.	is subangular	-
		1.00 -	1.45	SPT	C 16	1.00			1.00 - 1.45 Medium dense. Brown to light grey brown clayey very gravelly fine SAND and subrounded, fine to medium flint.	. Gravel is angular	+ 1 - - -
		4.00				1.70			Very light green to very light brown very slightly clayey fin	e SAND.	-
		1.90 - 2.00 -		D SPT	C 53	2.00			Very light green to very light brown very slightly clayey fin 2.00 - 2.45 Very dense, refused.		2 2 
						2.45			Borehole completed at 2.45m.		- - - -
											- - 3 - -
											-
											4
METHO CASINO GROUN	MENT: A D: Hand d: Not us DWATE ILL: On (	rchway o dug insp ed. ER: Grou completio	ndwate	pit 0.00n r not enco	n-1.00m b ountered.		amic sam	-	n-2.00m begl. granular response zone (2.00m-0.50m), bentonite seal 0.5	0m-0.10m, flush stee	
Ground	lwater		Da	te		Strike Do (m)	epth	Ca	sing Depth (m) Depth After Observation (m)		
All dim	ensions i	n metrec								Logged By	



1.0 ENZYGO WS LOG CRM.1027.087 RICHMOND.GPJ GINT STD AGS 3\_1 ENZYGO.GPJ 3/5/21

		,				vver	. www.ei			
Site	: -1	l								
Job No	ichmor [.1027.	Dat	Start 2	7-04-21 27-04-21		nd Level (	m)	Co-Ordinates	WS8	
Client									Sheet	
Η	ill Part	mership							1 of 1	
Well	Water Levels	Samples Depth (m)	& In Situ Te No/Type	esting Results	Depth (m)	Level (mAD)	Legend	Stratum Description		- 0
		0.20 - 0.40	D ES		0.15			MADE GROUND: Grass over multicoloured (brown to ligh black) clayey to very clayey very gravelly fine SAND. Grav and subrounded, fine to coarse flint and brick.	vel is subangular	
					0.40			MADE GROUND: Multicoloured (brown to light brown and to very clayey very gravelly fine SAND with asbestos fibre subangular and subrounded, fine to coarse flint, ash, and Brown to light grey brown clayey fine SAND.	s. Gravel is	Ē
		0.90 - 1.00	D							-
		1.00 - 1.45	SPT	C 9				1.00 - 1.45 Loose.		- 1
										-
		1.90 - 2.00	D		1.70			Very light green to very light brown very slightly clayey oc fine SAND. Gravel is subrounded fine flint.	casionally gravelly	-
		2.00 - 2.45	SPT	C 51	2.00			Very light green to very light brown very slightly clayey oc fine SAND. Gravel is subrounded fine flint. 2.00 - 2.45 Very dense, refused.	 casionally gravelly	2 
					2.45			Borehole completed at 2.45m.		-  -  -
										-
										- 3
										-
										-
					{4.00}					- - 4
METHO CASINC GROUN	IENT: A D: Hand d: Not us DWATH	Archway comp l dug inspectio	on pit 0.00r ater not enc	n-1.00m b ountered.	begl. Dyna	amic sam	-	n-2.00m begl.		
Ground	lwater	]	Date		Strike De (m)	epth	Ca	sing Depth Depth After (m) (m) (m)		
	ensions i Scale 1:2	in metres							Logged By KC	



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Site										
	lichmor	hd								
Job No		lu	Dates			Groun	d Level (	(m)	Co-Ordinates WS9	
	1.1027.0	097		Start 28	-04-21 28-04-21	Groun	u Level (			
	1.1027.	087		Finish 2	28-04-21				Chaot	
Client H	Iill Part	nership	)						Sheet 1 of 1	
Well	Water Levels		<b>iples &amp; l</b> i h (m)	n Situ Te No/Type	sting Results	Depth (m)	Level (mAD)	Legend	Stratum Description	- 0
		0.20 -	0.40	ES		0.40			MADE GROUND: Grass over multicoloured (brown to light brown and light black) clayey to very clayey occasionally gravelly fine SAND. Gravel is subangular and subrounded, fine to coarse flint, brick and ash.	-
									Brown CLAY.	-
		0.90 - 1.00 -		D SPT	C 12	0.90			Brown very clayey fine SAND. 1.00 - 1.45 Medium dense.	- - 1
						1.50			Multiceleured /light brown to light grou and your light groups) eleven to locally	- -
		1.90 -		D					Multicoloured (light brown to light grey and very light orange) clayey to locally slightly clayey occasionally gravelly fine to coarse SAND. Gravel is rounded and subrounded fine flint.	- - -
<u></u>		2.00 -	2.45	SPT	C 51	2.00			Multicoloured (light brown to light grey and very light orange) clayey to locally slightly clayey occasionally gravelly fine to coarse SAND. Gravel is rounded and subrounded fine flint. 2.00 - 2.45 Very dense, refused.	- 2 - -
						2.45			Borehole completed at 2.45m.	-
										- - - 3 -
										-
						{4.00}				- - - - 4
METHO CASINO GROUN BACKF	MENT: A DD: Hand G: Not us IDWATE	rchway dug ins ed. ER: Grou completi	pection j indwater	pit 0.00m	ountered.	egl. Dyn	amic sam	-	n-2.00m begl. granular response zone (2.00m-0.50m), bentonite seal 0.50m-0.10m, flush stee	el
Ground	dwater		Dat	e		Strike Do (m)	epth	Ca	sing Depth Depth After (m) (m) (m)	
									Logged By	



1.0 ENZYGO WS LOG CRM.1027.087 RICHMOND.GPJ GINT STD AGS 3\_1 ENZYGO.GPJ 3/5/21

Site									
	ichmor							WS10	
Job No CRM	1.1027.0	087	Dates Start 29 Finish 2	-04-21 29-04-21		d Level (	m)	Co-Ordinates	
Client		1						Sheet 1 of 1	
H	lill Part	nership					1	1 01 1	
Well	Water Levels	Sample Depth (	es & In Situ Te m) No/Type	sting Results	Depth (m)	Level (mAD)	Legend	Stratum Description	
		0.20 - 0.4	40 B ES		0.15			MADE GROUND: Grass over multicoloured (brown to light brown and light black) clayey to very clayey very occasionally gravelly fine SAND. Gravel is subangular and subrounded, fine to coarse flint, brick and ash. MADE GROUND: Multicolored (brown to red to light grey) sandy gravelly CLAY. Gravel is angular, fine to coarse flint, brick, concrete and ash. Sand i	s - 0
		0.90 - 1.0	00 D		0.60			fine. Brown CLAY.	
		1.00 - 1.4		C 28	1.10			Multicoloured (light orange brown to light grey) gravelly fine to coarse SANE Gravel is angular coarse flint.	- 1
		1.50 - 1.0 1.60 - 2.0		C 52	1.60			1.60 Sampler barrel refused. 1.60 - 2.05 Very dense, refused.	-
					2.05			Multicoloured (light orange brown to light grey) gravelly fine to coarse SANE Gravel is angular coarse flint. Borehole completed at 2.05m.	). - - - -
Genera	Demo	dza			{4.00}				- 3 - 3 
EQUIPM METHC CASINC GROUN	IENT: A D: Hand d: Not us DWATE	rchway con l dug inspec ed. ER: Ground	mpact window ction pit 0.00n water not ence , the borehole	n-1.00m b ountered.	begl. Dyn	amic sam	-	n-1.60m begl.	
Ground	lwater		Date		Strike D (m)	epth	Ca	sing Depth Depth After (m) (m) (m)	
	ensions i Scale 1:2	n metres 5						Logged By KC	



						WC	5			
Site	ichmor	d								
Job No	1.1027.0	Dat	Start 28	3-04-21 28-04-21		nd Level (	(m)	Co-Ordinates	- WS11	
Client									Sheet 1 C 1	
H	[ill Part	nership			1	1	1	1	1 of 1	
Well	Water Levels	Samples Depth (m)	& In Situ Te	esting Results	Depth (m)	Level (mAD)	Legend	Stratum Description		
Well			) No/Type ES D SPT	-			Legend	Stratum Description         MADE GROUND: Grass over multicoloured (brown to libblack) clayey to very clayey occasionally gravelly fine S, subangular and subrounded, fine to coarse flint, brick a         Brown sandy CLAY. Sand is fine.         Brown clayey fine to medium SAND.         Multicoloured (light brown to light grey and very light orasightly clayey occasionally gravelly fine to coarse SANI and subrounded fine flint.         Multicoloured (light brown to light grey and very light orasightly clayey occasionally gravelly fine to coarse SANI and subrounded fine flint.         2.00 - 2.45 Very dense. Refused at 2.45m begl.         Borehole completed at 2.45m.	AND. Gravel is nd ash. ange) clayey to locally Caravel is rounded ange) clayey to locally	- 2
Genera	l Rema	rks			{4.00}					
EQUIPM METHC CASINC GROUN BACKF	AENT: A DD: Hand G: Not us IDWATE ILL: On (	rchway com dug inspecti	on pit 0.00r ater not enc	n-1.00m b countered.	begl. Dyn	amic sam	-	n-2.00m begl.		
Ground	lwater		Date		Strike D (m)		Ca	sing Depth Depth After (m) (m) (m)		
	ensions i Scale 1:2	n metres							Logged By KC	



1.0 ENZYGO WS LOG CRM.1027.087 RICHMOND.GPJ GINT STD AGS 3\_1 ENZYGO.GPJ 3/5/21

			$\smile$						2390.0011	
Site										
R	lichmor	nd								WO40
Job No			Dates	Start 29	04 21	Groun	d Level (	m)	Co-Ordinates	WS12
CRM	1.1027.	087		Finish 2	-04-21 29-04-21					
Client										Sheet
H	lill Part	nershij	р							1 of 1
Well	Water			In Situ Te		Depth	Level	Legend	Stratum Description	
	Levels	Dept	th (m)	No/Type	Results	(m)	(mAD)	XXXXXX		0
60860			0.40						MADE GROUND: Grass over multicoloured (brown to lig black) very clayey very occasionally gravelly fine SAND.	
		0.20 -	- 0.40	ES		0.20			subangular and subrounded, fine to coarse flint, brick an	d ash.
									MADE GROUND: Multicolored (brown to red to light grey CLAY. Gravel is angular, fine to coarse flint, brick, concre	r) sandy gravelly
									fine.	
						0.60			Brown CLAY.	
									BIOWIT CLAT.	-
		0.90 -	- 1.00	D				<u> </u>		
		1.00 -		SPT	C 12					- 1
								F	1.00 - 1.45 Firm, medium strength.	-
										-
60360										-
						1.50				
									Multicoloured (light orange brown to light grey) gravelly fi	ne to coarse SAND.
								o . 	Gravel is angular coarse flint.	-
		1.90 -	2.00	D						-
		2.00 -		SPT	C 15					- 2
									2.00 - 2.45 Medium dense.	
								· · · · ·		-
								· · · · · · · · · · · ·		-
60860								o		-
60860								<sup>.</sup> a		
										_
								· · · · · · · ·	2.70 - 3.00 Becoming very gravelly.	-
		2.90 - 3.00 -		D SPT	C 53	3.00				-
		3.00 -	- 3.45	551	0.55	3.00				3
									Gravel is angular coarse flint.	
i b									3.00 - 3.45 Very dense, refused.	-
5						3.45		· · · α · · ·		
									Borehole completed at 3.45m.	-
l ī										
										-
										-
						{4.00}				- 4
Genera										
EQUIPM METHO	/IENT: A	rchway	compac	t window	sampling	g tracked	rig. amic sam	mled 1 00m	n-3.00m begl.	
CASING	3: Not us	ed.				egi. Dyi	anne sam	ipied 1.00ii	1.5.00m begi.	
GROUN BACKF	ILL: On	CR: Grou	undwate	r not enco borehole	ountered. was back	filled wit	h arisngs.			
		1	,				0-1			
Ground	lwater					a			Depth After	
Ground	a mater		Da	ite		Strike De (m)	epth	Ca	sing Depth Depth After (m) (m) (m)	
						. /			(111)	
	ensions i		s							Logged By
	Scale 1:2									KC KC



1.0 ENZYGO WS LOG CRM.1027.087 RICHMOND.GPJ GINT STD AGS 3\_1 ENZYGO.GPJ 3/5/21

						vver	J. WWW.CI	12,990.0011	
Site									
R	ichmor	nd							<b>。</b>
Job No		Dates	Start 20	04 21	Groun	nd Level (	(m)	Co-Ordinates WS1	5
CRM	1.1027.		Start 29	29-04-21 29-04-21					
Client		007	1 1111311 2	29-04-21				Sheet	
	ill Part	nership						Sheet 1 of 1	
	Water	Samples &	In Situ Te	sting	Depth	Level			
Well	Levels	Depth (m)		Results		(mAD)	Legend	Stratum Description	
20220								MADE GROUND: Grass over multicoloured (brown to light brown and light	0
		0.20 - 0.40	ES		0.20			black) very clayey very occasionally gravelly fine SAND. Gravel is	1
								subangular and subrounded, fine to coarse flint, brick and ash.	/L
								MADE GROUND: Multicolored (brown to red to light grey) sandy gravelly CLAY. Gravel is angular, fine to coarse flint, brick, concrete and ash. Sand	ie
								fine.	
60360					0.65				
								Brown CLAY.	
ASSAS		0.90 - 1.00	D						
		1.00 - 1.45	SPT	C 50	1.00		<u> </u>		1
							1	Brown CLAY.	'
							[	1.00 - 1.45 Very stiff, very high strength. Refused at 1.45m begl.	Ļ
									_
					1.45				_
					1.45			Borehole completed at 1.45m.	
									_
									_
									_
									-
									- 2
									-
									-
									-
									-
									-
									-
									-
									-
									-
									- 3
									-
									-
									F
									F
									F
									F
									F
									F
									F
					{4.00}				- 4
General	Rema	rks							
EQUIPN	IENT: A	archway compac	et window	v samplin	g tracked	rig.			
METHO	D: Hand	l dug inspection	pit 0.00n	n-1.0Ôm b	begl.	-			
CASINC GROUN	J. INOT US DWATE	ed. ER: Groundwate	er not ene	ountered					
BACKF	LL: On	completion, the	borehole	was back	filled wit	h arising	s.		
						2			
C	1 ·								
Ground	iwater	Da	ate		Strike D	epth	Ca	sing Depth Depth After Observation	
		Da			(m)			(m) (m)	
All dim	ensions i	n metres						Logged By	
	Scale 1:2							KC	



							wer		izygo.com			
Site												
	Richmor	nd										
Job No			Dates	Start 28	04.21	Groun	d Level (	(m)	Co-Ordinates		— WS14	
CRM	1.1027.	087		Start 28 Finish 2	28-04-21							
Client						_					Sheet	
H	Hill Part	nership									1 of 1	
Well	Water			n Situ Te		Depth	Level	Legend		Stratum Description		
	Levels	Depth	(m)	No/Type	Results	(m)	(mAD)			-		+ 0
		0.20 - 0	1 40	ES					black) clayey to	D: Grass over multicoloured (brown t very clayey occasionally gravelly fine	SAND. Gravel is	-
		0.20 0	.40						subangular and	subrounded, fine to coarse flint, bric	and ash.	
												-
						0.50			Brown sandv CL	AY. Sand is fine.		+
									-			-
		0.90 - 1 1.00 - 1		D SPT	C 10				-			-
		1.00 - 1	.45						-			- 1
						1.20						+
									Brown clayey fin	e to medium SAND.		F
								· · · · · · · · ·	-			
									-			-
						1.70			Multicoloured (lid	ght brown occasionally Light green to	cream) clavey gravelly	+
		1.90 - 2	2.00	D						el is subangular fine flint.	oreani) elayey gravely	Ľ
	-	2.00 - 2	2.45	SPT	C 50	2.00						-2
									fine SAND. Grav	ght brown occasionally Light green to /el is subangular fine flint.	o cream) clayey gravelly	-
								· · · · · · ·	2.00 - 2.45 Very	dense. Refused at 2.45m begl.		Ľ
						2.45			-			_
						2.10			Borehole comple	eted at 2.45m.		-
												Ľ
												-
												-
												- 3
												_
												-
												Ľ
												-
												-
												Ľ
						{4.00}						- 4
Genera	l Rema	rks				{4.00}						
METHO CASINO GROUN BACKF	D: Hand G: Not us JDWATH	ed. ER: Groun completion	ection j dwater	pit 0.00n mot enco	n-1.00m b ountered.	egl. Dyn	amic sam	-	n-2.00m begl. granular response	zone (2.00m-0.50m), bentonite sea	0.50m-0.10m, flush ste	el
Ground	dwater		Dat	e		Strike D	epth	Ca	sing Depth	Depth After Observation		
			Dal			(m)	-		(m)	(m)		
All dim	onciona	n matrac	1								Logged By	



Site											
	ichmor	hd									
Job No			Dates	Start 27	04.21	Grour	nd Level (	m)	Co-Ordinates	WS15	
CRM	.1027.0	087		Start 27 Finish 2	-04-21 27-04-21						
Client						- 1				Sheet	
Н	ill Part	nership								1 of 1	
Well	Water			n Situ Te	-	Depth	Level	Legend	Stratum Description		
2002006	Levels	Depth	(m)	No/Type	Results	(m)	(mAD)		MADE GROUND: Grass over multicoloured (brown to light	at brown and light	+ 0
		0.20 - 0	.40	ES		0.15			black) clayey to very clayey very gravelly fine SAND. Gra and subrounded, fine to coarse flint and brick.		ļ.
						0.40			MADE GROUND: Multicoloured (brown to light brown and to very clayey occasionally cobbly very gravelly fine SANI subangular and subrounded, fine to coarse flint, ash, bric cobble of brick.	D. Gravel is	F
						0.70			MADE GROUND: Brown very clayey fine SAND with occa	asional coarse	
		0.90 - 1 1.00 - 1		D SPT	C 9				Brown to light grey brown clayey very gravelly fine SAND and subrounded, fine to medium flint.	Gravel is angular	-
		1.00 - 1	.45	501	0.9				1.00 - 1.45 Loose.		- 1
											-
											F
									-		+
						1.70		· · · · · · · · · · · · · · · · · · ·	2		ļ
									Very light green to very light brown very slightly clayey oc fine SAND. Gravel is subrounded fine flint.	casionally gravelly	+
		1.90 - 2 2.00 - 2		D SPT	C 55	2.00		· · · · · · · ·			F _
									Very light green to very light brown very slightly clayey oc fine SAND. Gravel is subrounded fine flint.	casionally gravelly	2
									2.00 - 2.45 Very dense, refused.		F
						- <b>1</b> -					Ĺ
						2.45			Borehole completed at 2.45m.		+
											F
											Ę
											F
											- 3
											Ę
											+
											F
											Ę
											F
											F
											4
General	Remai	·ks				{4.00}					
EQUIPM METHO	IENT: A D: Hand	rchway co dug inspe	ompact ection p	window oit 0.00n	v sampling n-1.00m b	g tracked begl. Dyn	rig. amic sam	pled 1.00n	n-2.00m begl.		
CASING	h: Not use	ed. ER: Groune	-			-					
BACKFI	LL: On o	completion	n, the b	orehole	was back	filled wit	h arisings	8.			
Ground	weter								Dead Adam		
Ground	water		Dat	e		Strike D (m)		Ca	sing Depth (m) Depth After Observation (m)		
						. /			(m)		
	ensions i Scale 1:2	n metres								Logged By KC	



		/ 、					vveu	. www.ei	12990.0011	
Site										
R	lichmor	d								
Job No			Dates C		04.01	Groun	d Level (	m)	Co-Ordinates WS16	j
CRM	1.1027.0		51	art 28- nish 2	04-21 8-04-21		,			
Client									Sheet	
	Iill Part	nershin							1 of 1	
1.	Water		oles & In S	Situ Tes	tina	Depth	Level			
Well	Levels	Depth			Results	(m)	(mAD)	Legend	Stratum Description	
		0.20 - 0	).40	ES					MADE GROUND: Grass over multicoloured (brown to light brown and light black) clayey to very clayey occasionally gravelly fine SAND. Gravel is subangular and subrounded, fine to coarse flint, brick and ash.	0 
						0.50			Brown sandy CLAY. Sand is fine.	-
						0.80				-
		0.90 - 1		D	0.0				Brown clayey fine to medium SAND.	-
		1.00 - 1	1.45	SPT	C 8				1.00 - 1.45 Loose.	1 - -
										-
						1.70			· · · · · · · · · · · · · · · · · · · ·	-
		1.90 - 2 2.00 - 2		D SPT	C 29				Light brown to very light green very slightly clayey very occasionally gravelly fine SAND. Gravel is subangular fine flint.	- 2
						2.20			2.00 - 2.45 Medium dense. Multicoloured (light brown to light grey and very light orange) clayey to local	_
									slightly clayey occasionally gravelly fine to coarse SAND. Gravel is rounded and subrounded fine flint.	y _ - - -
		2.90 - 3 3.00 - 3		D SPT	C 50	3.00			Multicoloured (light brown to light grey and very light orange) clayey to local	
									slightly clayey occasionally gravelly fine to coarse SAND. Gravel is rounded and subrounded fine flint.	
						3.45		. · · · · · · · ·	3.00 - 3.45 Very dense. Refused at 3.45m begl.	
									Borehole completed at 3.45m.	- - - - -
Con	1 D	.1				{4.00}				
METHO CASINO GROUN BACKF	MENT: A D: Hand G: Not use IDWATE	rchway co dug inspo ed. R: Groun completion	ection pit ndwater n	: 0.00m ot enco	-1.00m b untered.	egl. Dyna	imic sam	-	n-3.00m begl. granular response zone (3.00m-1.00m), bentonite seal 1.00m-0.10m, flush st	teel
Ground	dwater		Date			Strike De (m)	pth	Ca	sing Depth Depth After (m) (m) (m)	



1.0 ENZYGO WS LOG CRM.1027.087 RICHMOND.GPJ GINT STD AGS 3\_1 ENZYGO.GPJ 3/5/21

Site	ichmon	d									
Job No	.1027.0		Dates	Start 27 Finish 2	7-04-21 27-04-21		nd Level (i	m)	Co-Ordinates	WS17	
Client H	ill Part	nership	)			1				Sheet 1 of 1	
Well	Water Levels	Sam Depti	-	n Situ Te	sting Results	Depth (m)	Level (mAD)	Legend	Stratum Description		
		0.20 -		ES		0.40			MADE GROUND: Grass over multicoloured (brown to light black) clayey to very clayey very gravelly fine SAND. Grav and subrounded, fine to coarse flint, ash and brick. MADE GROUND: Multicoloured (brown to light brown occ: grey) occasionally gravelly slightly to very sandy CLAY wit fragments. Gravel is subangular and subrounded medium ash, Sand is fine.	el is subangular asionally light h sewer pipe	- 0    
		0.90 - 1.00 -		D SPT	C 7	1.20			1.00 - 1.45 Soft, low strength. Brown sandy CLAY. Sand is fine.		- - - 1 - -
		1.90 - 2.00 -		D SPT	C 15	1.60			Multicoloured (light brown to light grey and very light orang slightly clayey, occasionally gravelly fine to coarse SAND. and subrounded fine flint. 2.00 - 2.45 Medium dense.		- - - - - 2 - - -
		2.90 - 3.00 -		D SPT	C 50	3.00 3.45			Multicoloured (light brown to light grey and very light orang slightly clayey, occasionally gravelly fine to coarse SAND, and subrounded fine flint. 3.00 - 3.45 Very dense. Refused at 3.45m begl. Borehole completed at 3.45m.	je) clayey to locally Gravel is rounded	- - - - - - - - - - - -
						{4.00}					- - - - 4
METHO CASING GROUN	IENT: A D: Hand : Not use DWATE	rchway dug insj ed. R: Grou	pection ndwate	pit 0.00n r not enco		egl. Dyn	amic sam	-	n-3.00m begl.		
Ground	water		Da	te		Strike Do (m)	epth	Ca	sing Depth Depth After (m) (m) (m)		
	ensions in Scale 1:2									Logged By KC	



~.										
Site	liahmar									
Job No	Richmor 4.1027.0	1	Dates	Start 27 Finish 2	-04-21 27-04-21	Groun	d Level (	m)	Co-Ordinates WS18	
Client									Sheet 1 of 1	
ŀ	Iill Part	nership					1		1 01 1	
Well	Water Levels	Sampl Depth		n Situ Te No/Type	sting Results	Depth (m)	Level (mAD)	Legend	Stratum Description	
Ň		0.20 - 0.	( )	ES		0.45			MADE GROUND: Grass over multicoloured (brown to light brown and light black) clayey to very clayey very gravelly fine SAND. Gravel is subangular and subrounded, fine to coarse flint, ash and brick.	0 
		0.90 - 1. 1.00 - 1.		D SPT	C 10				Brown sandy CLAY. Sand is fine.	- - - - - - 1
						1.20			Brown clayey fine to medium SAND.	
		1.90 - 2. 2.00 - 2.		D	C 13	1.70 2.00		· · · · · · · · · · · · · · · · · · ·	Multicoloured (brown to light brown and light grey) clayey very gravelly medium to coarse SAND. Gravel is subrounded fine flint.	2
		2.90 - 3.		D					2.00 - 2.45 Medium dense. Multicoloured (light brown to light grey and very light orange) clayey to locall slightly clayey, occasionally gravelly fine to coarse SAND. Gravel is rounded and subrounded fine flint.	y -
		3.00 - 3.		SPT	C 51	3.00			Multicoloured (light brown to light grey and very light orange) clayey to locall slightly clayey, occasionally gravelly fine to coarse SAND. Gravel is rounded and subrounded fine flint. 3.00 - 3.45 Very dense, refused.	y3
						3.45		<u> </u>	Borehole completed at 3.45m.	
						{4.00}				- 4
METHO CASINO GROUN BACKF cover 0.	MENT: A DD: Hand G: Not us NDWATE ILL: On ( 10m-0.00	rchway co dug inspe ed. ER: Ground completion	ection j dwater	pit 0.00n r not enco	n-1.00m b ountered.	g tracked begl. Dyna	amic sam	-	n-3.00m begl. granular response zone (3.00m-1.00m), bentonite seal 1.00m-0.10m, flush st	eel
Ground	dwater		Dat	te		Strike Do (m)	epth	Ca	sing Depth Depth After (m) (m) (m)	



b No		ham Road, R	ichmon	d				DUA
		Dates	Start 16		Groun	d Level (I	m)	Co-Ordinates BH1
CRM ient	.1027.0	187	Finish 1	7-08-21				Sheet
н	lill Part	nership Ltd						1 of 4
ell	Water Levels	Samples &		-	Depth (m)	Level (mAD)	Legend	Stratum Description
200	Levels	Depth (m)	по/туре	Results	(111)			MADE GROUND: Grass over firm brown slightly sandy slightly gravelly
								CLAY. Gravel is subnagular and fine of brick and flint.
					0.60			Firm brown to light brown very sandy slightly gravelly CLAY. Gravel is
								subnaguar and coarse of flint.
8								
		1.50 - 1.95	SPT	23	1.60			M. C
								Medium dense to dense light brown slightly clayey slightly gravelly medium and coarse SAND. Gravel is angular and subangular coarse of flint.
8								
×		3.00 - 3.45	SPT	22				
22								
8								
	$\overline{\Delta}$							
		4.50 - 4.95	SPT	21				
		5.00	D					
					5.40			Stiff greyish brown slightly gravelly CLAY. Gravel is angular and coarse of
								claystone.
		6.00 - 6.45	SPT	11				Note: Groundwater encountered at 4.3 m bgl.
×								
		7.50 - 7.95	SPT	18				
R								
	Remarl				{8.00}			Continued next sheet

1.0 ENZYGO WSLOG CRM.1027.087 ASHBURNHAM ROAD.GPJ GINT STD AGS 3\_1 ENZYGO.GPJ 19/8/21



o No CRM	.1027.(	ham Ro 087	Dates	Start 16		Groun	id Level (	m)	Co-Ordinates		BH1
ent H	ill Part	nership	l td								Sheet 2 of 4
	Water	-		n Situ Te	sting	Depth	Level				
ell	Levels	Depth			Results	(m)	(mAD)	Legend		Stratum Description	
X									2		
									-		
X											
									-		
283		9.00 -	9.45	SPT	20						
283											
								- <u> </u>	3		
190											
60											
68		10.00		D							
783 783											
299 		10 50	- 10.95	SPT	30						
293		10.00	- 10.35		50				-		
29									3		
X									1		
X									2		
283											
283									3		
202		12.00	- 12.45	SPT	25				-		
									-		
60											
68											
		13.50 ·	- 13.95	SPT	28				3		
									7		
20											
									3		
								[	-		
283											
200		15.00		D	46						
283		15.00 -	- 15.45	SPT							
50											
RA						(16.00)		<u> </u>	-	Continued next sheet	
	Remarl					<u>{16.00}</u>	0 m h m			Continued next sheet ater encountered at 4.3 m bgl	

 Groundwater
 Date
 Strike Depth (m)
 Casing Depth (m)
 Depth After Observation (m)

 All dimensions in metres Scale 1:50
 Logged By KC



		/							nzygo.com				
Site													
	shburn	ham Ro		chmon	d	0			On Ondinator			BH1	
Job No			Dates	Start 16	-08-21	Groun	id Level (	m)	Co-Ordinates				
CRM Client	.1027.0	087		Finish 1	7-08-21							Sheet	
												3 of 4	
H	lill Part			n Situ Tes	<b>A</b> lina au								
Well	Water Levels	Depti			Results	Depth (m)	Level (mAD)	Legend		Stratum	Description		
			. ,						2				
3363		16.50	- 16.95	SPT	29				-				-
<u>Stop</u>									2				Ē
									5				- - 1
									-				·
									- -				Ē
2822									-				È
348		18.00	- 18.45	SPT	37				5				- 1
									-				Ē
									-				E
									- 5				-
									-				- 19
348													E
<u>à 36 à</u>		19.50	- 19.95	SPT	37				-				Ē
				_									
		20.00		D									- 20
									-				Ē
888									- -				E
2555		21.00	- 21.45	SPT	37				-				- 2
													<b>F</b> <sup>2</sup>
									-				Ē
									-				F
													- 2
<u>SSS</u>									-				Ē
		22.50	- 22.95	SPT	39				7				F
									-				Ē
2222									-				- 2
8268									2				F
BAB									-				Ē
									7				E
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		24.00	- 24.45	SPT	41	{24.00}			-	Continue	d next sheet		- 24
	Remarl			and for		nuel († 27	0 / /	Na '		a mahurtan a	mediat 4.0 · · ·	Dealifille during	
Cable Pe	rcussive mpletion.	Borehol	eadvand	;ea from	ground le	evel to 25	o.u m bgl.	INO SEIVIC	es encountered. Gro	ounawater encounte	rea at 4.3 m bgl.	Backfilled with arisi	ngs
Crown	du , <del>a t</del>												
Ground	Jwater		Date	e		Strike De (m)	pth	Ca	sing Depth (m)	Depth After Observation (m)			
						(11)			(	(m)			

1.0 ENZYGO WSLOG CRM.1027.087 ASHBURNHAM ROAD.GPJ GINT STD AGS 3\_1 ENZYGO.GPJ 19/8/21



Job No	.1027.0	ham Ro	Dates	Start 16			id Level (	m)	Co-Ordinates	BH1
Client		nership								Sheet 4 of 4
	Water	-		n Situ Te	sting	Depth	Level			
Well	Levels	Depth			Results	(m)	(mAD)		Stratum Description	24
		25.00		D		25.00			Borehole completed at 25.00m.	225 226 227 228 229 30 31
										-
						{32.00}				- 32
General Cable Pe upon cor	rcussive	Borehole	e advan	ced from	ground l		5.0 m bgl.	No service	encountered. Groundwater encountered at 4.3 m	bgl. Backfilled with arisings
Ground	dwater		Dat	e		Strike De (m)	pth	Cæ	ing Depth Depth After (m) (m) (m)	
All dime	nsions in Scale 1:50	metres								Logged By KC



Site									
	shhurn	ham Roar	l, Richmon	d					
Job No			ates Start 16		Groun	nd Level (	m)	Co-Ordinates	BH2
CRM	.1027.0	)87		-08-21 7-08-21					
Client		I							Sheet 1 of 4
Н	lill Part	nership Lt						r	1014
Well	Water Levels	Samples Depth (m		sting Results	Depth (m)	Level (mAD)	Legend	Stratum Description	
		Dehtii (ti		INCOULS	()	(.1		MADE GROUND: Grass over firm brown slightly sandy s	slightly gravelly
					0.50			CLAY. Gravel is subangular and fine of brick and flint.	
					0.50			Firm brown and mottled light brown very sandy slightly g	ravelly CLAY.
								Gravel is subangular and fine to coarse of flint.	- 1
									- '
		1.50 - 1.9	5 SPT	14	1.50				
								Medium dense to dense light brown slightly clayey slight and coarse SAND. Gravel is angular and subangular me	tly sandy medium
								flint.	- 2
								Note: Groundwater encountered at 3.8 m bgl.	- -
									F
		3.00 - 3.4	5 SPT	41					Ē
		0.00 011							- 3
									-
	V								-
									- 4
		4.50 - 4.8	0 SPT	50					Ē
		F 00							-
		5.00	D		5.20				- 5
								Stiff greyish brown slightly gravelly CLAY. Gravel is ang claystone.	ular and coarse of
									-
		6.00 - 6.4	5 SPT	14					- 6
									-
								-	-
									-
									- 7
		7.50 - 7.9	5 SPT	19				-	-
		7.50 - 7.9		19					-
									- 8
General	Remarl	(5			{8.00}			Continued next sheet	0
Cable Pe	ercussive	Borehole ad	lvanced from	ground le	evel to 25	5.0 m bgl.	No service	encountered. Ground water encountered at 5.0 m bgl.	Backfilled with arisings
upon cor	npretron.								
Ground	dwater		Date		Strike De	pth	Cas	ing Depth Depth After (m) (m) (m)	
			2		(m) 3.80			(m) (m)	
					5.00				
All dime	nsions in	metres							Logged By
5	Scale 1:50	)							KC



Site									,g		I		
	shhurn	ham Roa	ad Ri	chmon	Ч								
Job No	SIDUIT		Dates			Groun	d Level (	m)	Co-Ordinates			BH2	
CRM	.1027.0	)87	F	Start 16 Finish 1	-08-21 7-08-21								
Client											S	heet	
F	lill Part	nership l	Ltd									2 of 4	
Well	Water			Situ Tes		Depth	Level (mAD)	Legend		Stratum Description	า		
	Levels	Depth	(m)	No/Type	Results	(m)	(MAD)		5	·			8
									-				E
								<u> </u>					-
		9.00 - 9.	45	SPT	16								Ē
		9.00 - 9.	.45	JE I									- 9
									-				-
		10.00		D									- 10
									7				-
		10.50 -	10.95	SPT	23								-
								<u>c</u>					Ē.
													- 11
													-
													E
		12.00 -	12.45	SPT	22								- 12
													-
													-
													-
													- 13
		13.50 -	13.95	SPT	26				7				Ē
													- 14
													-
													F
		15.00		D	25								-
		15.00 -	15.45	SPT	20				-				- 15
													-
								- <u>-</u>					-
						{16.00}			1	Continued next shee	t		- 16
General				1			1	1	1				
Cable Pe	ercussive mpletion.	Borehole	advanc	ed from	ground le	evel to 25	5.0 m bgl.	No service	es encountered. Gr	round water encountered at 5.0	m bgl. Back	filled with arisi	ngs
Ground	dwatar									Douth After			
Ground	uwaler		Date	9		Strike De (m)	pth	Cæ	sing Depth (m)	Depth After Observation (m)			
										\''' <sup>1</sup>			
All dime	ensions in Scale 1:50	) metres									L	ogged By KC	
		-	1									1.0	



Well         Water         Sample & Is NUTSUNG         Depth         (mAD)         Legen         Stratum Description           Well         Veres         Sample & Is NUTSUNG         NonType         Results         0m)         (mAD)         Legend         Stratum Description           Image: Sample & Supervised in Stutzetting           Image: Sample & Supervised in Stutzetting         Image: Sample & Supervised in Stutzetting         Image: Sample & Supervised in Stutzetting         Image: Sample & Supervised in Stutzetting         Image: Sample & Supervised in Stutzetting         Image: Sample & Supervised in Stutzetting         Image: Sample & Supervised in Stutzetting         Image: Sample & Supervised in Stutzetting         Image: Sample & Supervised in Stutzetting         Image: Sample & Supervised in Stutzetting         Image: Sample & Supervised in Stutzetting         Image: Sample & Supervised in Stutzetting         Image: Sample & Supervised in Stutzetting         Image: Sample & Supervised in Stutzetting         Image: Sample & Supervised in Stutzetting         Image: Sample & Supervised in Stutzetting         Image: Sample & Supervised in Stutzetting         Image: Sample & Supervised in Stutzetting         Image: Sample & Supervised in Stutzetting         Image: Sample & Supervised in Stutzetting         Image: Sample & Supervised in Stutzetting         Image:	CRM.1027.00 ent Hill Partr	87 hership Ltd Samples & I Depth (m) 16.50 - 16.95	Start 16 Finish 1	7-08-21 sting Results	Depth	Level			Stratum Description	Sheet 3 of 4	
30           Weil         Samples & In Situ Testing Depth (m)         No.Type         Results         On the Max Press         Stratum Description           Image: Press Pres	Hill Partr	Samples & I Depth (m) 16.50 - 16.95	No/Type	Results	Depth (m)	Level (mAD)	Legend		Stratum Description	Sheet 3 of 4	
Heat         Samples & is	Water	Samples & I Depth (m) 16.50 - 16.95	No/Type	Results	Depth (m)	Level (mAD)	Legend		Stratum Description		
Velue         Depth (m)         NoType         Results         (m)         (mAD)         Legend         Stratum Description           18.00 - 18.45         SPT         25         25         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27         27		Depth (m) 16.50 - 16.95	No/Type	Results	(m)	(mAD)	Legend	5 	Stratum Description		$\perp$
18.00 - 18.45     SPT     27     30       19.50 - 19.95     SPT     30       20.00     D       21.00 - 21.45     SPT     30       22.50 - 22.95     SPT     30       24.00 - 24.45     SPT     34       (24.00)     SPT     34				25							
18.00 - 18.45       SPT       27       27         19.50 - 19.95       SPT       30       20.00         20.00       D       20.00       D         21.00 - 21.45       SPT       24       20.00         22.50 - 22.95       SPT       30       20.00         24.00 - 24.45       SPT       34       (24.00)				25				1			
19.50 - 19.95       SPT       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30 <td></td> <td>18.00 - 18.45</td> <td>SPT</td> <td></td> <td></td> <td></td> <td></td> <td>3</td> <td></td> <td></td> <td>E</td>		18.00 - 18.45	SPT					3			E
19.50 - 19.95       SPT       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30 <td></td> <td>18.00 - 18.45</td> <td>SPT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>F</td>		18.00 - 18.45	SPT								F
19.50 - 19.95       SPT       30       30         20.00       D       0       0       0         21.00 - 21.45       SPT       24       0       0         22.50 - 22.95       SPT       30       0       0         24.00 - 24.45       SPT       34       (24.00)       Continued next sheet		18.00 - 18.45	SPT					3			F
19.50 - 19.95       SPT       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30 <td></td> <td>18.00 - 18.45</td> <td>SPT</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>Ē</td>		18.00 - 18.45	SPT					-			Ē
19.50 - 19.95       SPT       30       30         20.00       D       0       0         21.00 - 21.45       SPT       24         22.50 - 22.95       SPT       30       0         24.00 - 24.45       SPT       34       (24.00)		18.00 - 18.45	SPT								F
19.50 - 19.95       SPT       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30 <td></td> <td>18.00 - 18.45</td> <td>501</td> <td>07</td> <td></td> <td></td> <td></td> <td>7</td> <td></td> <td></td> <td>Ē</td>		18.00 - 18.45	501	07				7			Ē
20.00       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D <td></td> <td></td> <td></td> <td>21</td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>E</td>				21				-			E
20.00       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u> </u></td> <td>1 7 -</td> <td></td> <td></td> <td>F</td>							<u> </u>	1 7 -			F
20.00       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D <td></td> <td>F</td>											F
20.00       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3</td> <td></td> <td></td> <td></td>								3			
20.00       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7</td> <td></td> <td></td> <td>F</td>								7			F
21.00 - 21.45 SPT 24		19.50 - 19.95	SPT	30				-			F
21.00 - 21.45 SPT 24								3			Ē
22.50 - 22.95 SPT 30		20.00	D								F
22.50 - 22.95 SPT 30								3			F
22.50 - 22.95 SPT 30								3			E
22.50 - 22.95     SPT     30       24.00 - 24.45     SPT     34         (24.00)     SPT         (24.00)     Continued next sheet								-			F
24.00 - 24.45 SPT 34 {24.00} Continued next sheet		21.00 - 21.45	SPT	24				2			F
24.00 - 24.45 SPT 34 {24.00} Continued next sheet											Ē
24.00 - 24.45 SPT 34 {24.00}								3			Ē
24.00 - 24.45 SPT 34 {24.00} Continued next sheet								3			F
24.00 - 24.45 SPT 34 {24.00} Continued next sheet								-			Ē
24.00 - 24.45 SPT 34 {24.00} Continued next sheet		22.50 - 22.95	SPT	30				3			F
{24.00} Continued next sheet								-			E
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{24.00} Continued next sheet								-			F
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{24.00} Continued next sheet								3			Ē
		24.00 - 24.45	SPT	34	{24 001		[		Continued next sheet		F
le Percussive Borehole advanced from ground level to 25.0 m bgl. No services encountered. Ground water encountered at 5.0 m bgl. Backfilled with	eral Remark		ced from	ground le		5.0 m bgl.	No service	es encountered. Gro		bgl. Backfilled with aris	 sing
a lef al Remarks cable Percussive Borehole advanced from ground level to 25.0 m bgl. No services encountered. Ground water encountered at 5.0 m bgl. Backfilled with pon completion.	ble Percussive B		ced from	ground le	evel to 25	5.0 m bgl.	No service	es encountered. Gro	ound water encountered at 5.0 m	bgl. Backfilled with aris	si
	Indwater	 ₽~+	<b>A</b>		StrikeDe	pth	Cas	ing Depth	Depth After		
Dundwater Date Strike Depth Casing Depth Observation		Da	6		(m)			(m)	(m)		
Dundwater Strike Depth Casing Depth Depth After Date (m) (m) (m)											



Site										
Job No CRM	shburn		Dates	Start 16			id Level (	m)	Co-Ordinates	BH2
Client H	lill Part	nershir	o Ltd							Sheet 4 of 4
Well	Water Levels		ples & l	n Situ Te	sting Results	Depth (m)	Level (mAD)	Legend	Stratum Description	
General Cable Po upon cor	ercussive	Borehol		D		25.00 {32.00} evel to 25	5.0 m bgl.	No servic	Borehole completed at 25.00m.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Ground	dwater		Dat	e		Strike De	epth	Ca	ing Depth Depth After Observation (m) (m)	
All dime	ensions ir Scale 1:50	n metres								Logged By KC



A shburr	hom Dood D							
	inan Ruau, R	lichmon	d				BUG	
	Dates	Start 16	-08-21	Grour	nd Level (	(m)	Co-Ordinates BH3	)
CRM.1027.	087	Finish 1	16-08-21					
lient							Sheet 1 of 2	,
Hill Par	tnership Ltd						1012	
Vell Water	Samples &			Depth	Level	Legend	Stratum Description	
Cill Levels	Depth (m)	No/Type	Results	(m)	(mAD)		MADE GROUND: Grass over firm brown slightly sandy slightly gravelly	
							CLAY. Gravel is subangular and fine of brick and flint.	F
				0.60				
¥.							Firm brown and mottled light brown very sandy slightly gravelly CLAY. Gravel is subangular and fine to coarse of flint.	E
8	1.20 - 1.65	SPT	6					-
S	1.20 - 1.05	551	0					Ē
				1.50			Medium dense to dense light brown slightly clayey slightly gravelly medium	n –
8							and coarse SAND. Gravel is angular and subangular and coarse of flint.	E
224							Note: Groundwater encountered at 3.4 m bgl.	
								E
								E
	3.00 - 3.45	SPT	33					-
	0.00 - 0.40		55			· · · · · · · · · · · · · · · · · · ·		E
$\overline{\nabla}$								F
20 4								-
	4.50 - 4.95	SPT	13					E
								Ę
\$ \$	5.00	D						-
ġ G				5.30				F
				0.00			Firm greyish brown CLAY.	_
								Ē
A Contraction of the second se	6.00 - 6.45	SPT	14			[- <u>-</u>		E
								Ē
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244								Ē
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	7.50 - 7.95	SPT	23					E
X						[		F
₹.				{8.00}			Continued next sheet	F



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Site											
A	shburn	ham Road	d, Richmon	nd							
Job No			ates Start 16		Groun	nd Level (	m)	Co-Ordinates			BH3
CRM	.1027.0	087	Finish	16-08-21							
Client										Sheet	2
Н	lill Part	nership L	td								2 of 2
Well	Water		es & In Situ Te		Depth	Level	Legend		Stratum Descrip	otion	
	Levels	Depth (n	n) No/Type	Results	(m)	(mAD)					8
							<u> </u>				
								+			F
		9.00 - 9.4	15 SPT	21				-			- 9
								· -			- -
63563											
65865								-			-
		10.00	D		10.00			Borehole comple	ated at 10.00m		10
											-
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											- 11
											Ē
											- 12
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											- 15
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					{16.00}						- 16
General	Remarl	KS			10.00	1					I
Cable Pe	ercussive	Boreholead	dvanced from	n ground le	evel to 10	).0 m bgl.	No servic	es encountered. G	roundwater encountered at 3	3.4 m bgl. Backfilled	witharisings
upon cor	npretron.										
Ground	dwater				Strike	anth	·~~	sing Depth	Depth After		
			Date		Strike De (m)	ምጠ	Ud	sing Depth (m)	Depth After Observation (m)		
All dime	nsionsir Scale 1:50	n metres								Logge	d By KC



AS ob No			N: - I	-1					
	muun	ham Road, F	3		Groun	nd Level (	m)	Co-Ordinates	BH4
CRM.	1027 0		Start 18	-08-21 8-08-21		,			
lient	1027.0	107	FILISITI	0-00-21					Sheet
Hi	II Parti	nership Ltd							1 of 2
Wall	Water	Samples &			Depth	Level	Legend	Stratum Description	
	Levels	Depth (m)	No/Type	Results	(m)	(mAD)	XXXXXXX	· · · · · · · · · · · · · · · · · · ·	
								MADE GROUND: Firm brown slightly sandy slightly grav subangular and fine of brick and flint.	elly CLAY. Gravel is
					0.60				
								Firm light brown and orangish brown very sandy CLAY. S coarse.	Sand is fine to
SAS .								COALSE.	
88									
866		1.50 - 1.95	SPT	17					
							<u> </u>		
					2.50			Medium dense light brown slightly clayey slightly gravelly	/ medium and
868		2 00 2 45	CDT.	13				coarse SAND. Gravel is angular and subangular and coa	arse of flint.
565		3.00 - 3.45	SPT	13				Note: Groundwater encountered at 4.3 m bgl.	
	$\overline{\Sigma}$	4.50 - 4.95	SPT	11					
		5.00	D						
					5.20			Firm greyish brown CLAY.	
868							F		
		6.00 - 6.45	SPT	14			[- <u>-</u>		
<u><u></u></u>							F		
							[		
868			0.07	4.0					
		7.50 - 7.95	SPT	19					
	Remark				{8.00}			Continued next sheet	



		/ (				vvec	: www.e	nzygo.com			
Site											
А	shburn	ham Roar	d, Richmon	nd							
Job No			)ates		Groun	d Level (	m)	Co-Ordinates			BH4
CRM	.1027.0	)87	Start 18 Finish 1	3-08-21 18-08-21							
Client										Sheet	
F	lill Part	nership L	td								2 of 2
	Water		es & In Situ Te	esting	Depth	Level					
Well	Levels	Depth (r		Results	(m)	(mAD)	Legend		Stratum Descrip	otion	8
83483								-			-
								-			
66866							[- <u>-</u>	-			-
		9.00 - 9.4	45 SPT	19				+ - -			- 9
			-				<u> </u>				5
							<u> </u>				F
								+			
		10.00	D		10.00		[- <u>-</u>	·			-
		10.00			10.00			Borehole compl	eted at 10.00m.		10 
											-
											E
											-
											- 11
											Ē
											F
											Ē
											- 12
											-
											- 13
											E E
											E
											- 14
											E
											E E
											-
											- 15
											-
											E E
											F
					{16.00}						- 16
General							•				
Cable Pe upon cor	ercussive moletion	Boreholea	dvanced from	n ground le	evel to 10	).0 m bgl.	No servic	es encountered. G	Groundwater encountered at 4	.3 m bgl. Backfilled	with arisings
apoirtool	nprocion.										
Ground	dwater		Det -		Strike De	pth	Ca	sing Depth	Depth After Observation		
			Date		Strike De (m)	•	24	(m)	Observation (m)		
		r									
All dime	ensionsin Scale 1:50	) metres								Logge	By KC



b No		ham Road, Date			Cround	d l aval (	m) (	Co-Ordinates	BH5
	1.1027.0		Start 18	8-08-21 18-08-21		d Level (	m) (	lo-Ordinates	2110
lient		nership Ltd							Sheet 1 of 2
Nell	Water Levels		& In Situ Te	sting Results	Depth (m)	Level (mAD)	Legend	Stratum Des	scription
		Depth (III)		- INCOULO	()	(		IADE GROUND: Brown slightly sandy s ubangular and fine of brick and flint.	lightly gravelly CLAY. Gravel is
		1.50 - 1.95	SPT	10	0.50			irm brown and mottled light brown very Gravel is subangular and fine to coarse of Medium dense to dense light brown sligh nd coarse SAND. Gravel is angular and	of flint.
	Ţ	3.00 - 3.45	SPT	37				lote: Groundwater encountered at 2.5 m	
		4.50 - 4.95 5.00	SPT D	37					
		6.00 - 6.45	SPT	13	5.80		<u>                                     </u>	irm to stiff greyish brown CLAY. lote: Claystone between 8.3 and 8.4 m l	ogl.
		7.50 - 7.95	SPT	14					
able Pe	Remarl ercussive mpletion	Borehole adv	anced from	ground le	{8.00}	.0 m bgl.	No services	Continued ne	
round	dwater	[	Date		Strike De	pth	Casin	g Depth Depth After m) Observation (m)	



		/ (				vvec	: www.e	nzygo.com			
Site											
A	shburn	ham Roa	d, Richmor	nd						-	
Job No			)ates	8-08-21	Groun	id Level (	m)	Co-Ordinates			BH5
CRM	.1027.0	087	Finish	0-00-21 18-08-21							
Client										Sheet	-4.0
F	lill Part	nership L	td							2	of 2
Well	Water	Sample	es & In Situ Te		Depth	Level	Legend		Stratum Descript	tion	
	Levels	Depth (I	m) No/Typ	e Results	(m)	(mAD)		-			8
											Ē
							<u> </u>				-
								+ -			E
		9.00 - 9.4	45 SPT	19			<u> </u>	-			- 9
							[	- -			-
69469								1			Ē
								-			-
		10.00	D		10.00			Borehole comple	ated at 10.00m		10
								Borenole comple			-
											Ē
											-
											- 11
											-
											Ē
											- 12
											E
											E
											-
											- 13
											-
											E
											- 14
											- 14
											Ē
											-
											_ 15
											E
											-
											Ē
					{16.00}						- 16
General	Remarl	ks			10.00	1		1			
Cable Pe	ercussive	Boreholea	advanced fron	n ground l	evel to 10	).0 m bgl.	No servic	es encountered. G	roundwater encountered at 2.	5 m bgl. Backfilled wi	th arisings
upon cor	npretron.										
Ground	dwater				StrikeDo	nth	<u> </u>	sing Depth	Depth After Observation		
			Date		Strike De (m)	ተጣ	Ud	(m)	Observation (m)		
All dime	ensionsir Scale 1:50	n metres D								Logged E	<sup>3y</sup> KC



-I-NI-	burnh	nam Road, F		d					ВПС
ob No		Dates	Start 17	′-08-21	Groun	d Level (	m)	Co-Ordinates	BH6
CRM.10	)27.08	37		17-08-21					
Client									Sheet 1 of 2
Hill	Partn	ership Ltd							1012
Well Wa	ater	Samples &			Depth	Level	Legend	Stratum Description	,
Lev	vels	Depth (m)	No/Type	Results	(m)	(mAD)			
								MADE GROUND: Firm brown slightly sandy slightly gra subangular and fine of brick, concrete and flint.	velly CLAY. Gravel is
								· · · · · · · · · · · · · · · · · · ·	
					0.70				Canad in fina
								Firm light brown and orangish brown very sandy CLAY.	Sand is line.
								-	
		1.50 - 1.95	SPT	13					
<b>BAS</b>									
2663									
					2.80				
		3.00 - 3.45	SPT	34	2.00			Medium dense to dense light brown slightly clayey sligh	tly gravelly medium
								and coarse SAND. Gravel is angular and subangular ar	nd coarse of flint.
								Note: Groundwater encountered at 3.8 m bgl.	
, kee									
849 -	$\overline{\nabla}$								
SES .									
868		4.50 - 4.95	SPT	36					
566									
		5.00	D						
					5.40			Frim to stifff greyish brown CLAY.	
							<u> </u>		
849		6.00 - 6.45	SPT	11			[		
568								-	
268							F		
2663							[		
								-	
							[		
		7.50 - 7.95	SPT	15			[		
849							<u> </u>		
					{8.00}			Continued next sheet	



<u> </u>		-/:	50			Web	: www.e	nzygo.com		
Site										
Job No		C	nd, Richmon Dates Start 17	7-08-21		d Level (	m)	Co-Ordinates	BH6	
CRIM	.1027.0	187	Finish 1	17-08-21					Sheet	
	lill Part	nership L	_td						2 of 2	
Well	Water	Sample	es & In Situ Te		Depth	Level	Legend	Stratum Description		
500200E	Levels	Depth (	m) No/Type	Results	(m)	(mAD)				- 8
										-
								-		F
		9.00 - 9.4	45 SPT	18				-		- 9
								-		F
								-		Ē
		10.00	D		10.00			-		-
		10.00			10.00			Borehole completed at 10.00m.	-	- 10 -
									-	-
										-
										- 11
									-	-
										F
										- 12
										Ē
										Ē
									-	- 13
										-
										Ē
										- - 14
										- ''
										-
										-
										- 15 -
										F
										- -
					{16.00}					- 16
General Cable Pe			advanced from	around le	evel to 10	0 m bal	No servic	es encountered. Groundwater encountered at 3.8 m	bol Backfilled with arising	\$
upon cor	mpletion.	Dorahore		r gi ouria i		.o mogi.			bgi. Daokimea with aronge	,
Ground	dwater		Date		Strike De (m)	pth	Ca	ing Depth Depth After (m) Observation (m) (m)		
					(11)			(m)		
All dime	nsions in Scale 1:50	) metres							Logged By KC	



A Job No	shburn	ham Road, I			Ground	nd Level (1		Co-Ordinates	WS1	
	[.1027.0	Date	Start 22	5-10-21 25-10-21	Groun	id Level (1	m)	Co-Ordinates		
Client H	ill Parti	nership							Sheet 1 of 1	
Well	Water Levels	Samples & Depth (m)		esting Results	Depth (m)	Level (mAD)	Legend	Stratum Description		
		200()			0.02 0.15			MADE GROUND: - Angular fine GRAVEL of basalt.		ړ
		0.30 - 0.40	ES		0.15			MADE GROUND: Tarmacadam comprising light black to lig subrounded coarse GRAVEL of flint in tar. Sand is coarse.	ght grey very sandy	ŀ
		0.30 - 0.40			0.50			MADE GROUND: Multicoloured (yellow to red occasionally occasionally clayey sandy GRAVEL of brick and flint with co ash. Gravel is angular fine to coarse flint. Sand is fine to co	barse sand-sized	
		0.70 - 0.80	ES					Brown occasionally gravelly sandy CLAY. Gravel is angular fine.		, -
										-
										-
					1.30					Ļ
							- · · · · · · ·	Light brown orange occasionally gravelly slightly clayey means SAND. Gravel is subangular fine flint.	dium to coarse	-
										-
										-
										_
68668					2.00		· <u>···</u> ·	Borehole completed at 2.00m.		+ 2
										-
										L
										_
										-
										- 3
										-
										È
										-
										-
										È
					{4.00}					- 4
General										
METHO CASINC GROUN	D: Hand 3: Not use DWATE	hway compact dug inspectior ed. ER: Groundwat completion, the	n pit 0.00m er not enco	n-1.00m be	egl. Dyna	imic samp	led 1.00m-	2.00m begl.		
Ground	lwater	E	Date		Strike D (m)		Cas	sing Depth Depth After (m) Observation		
					()			(m) (m)		
All dim	ensions in Scale 1:2	n metres 5							Logged By KC	



Site A	shburnl	ham Ro	oad, Ric	hmond	l						
Job No CRM.1027.087 Dates Start 25-10-21 Finish 25-10-21					-10-21 5-10-21	Groun	d Level (1	m)	Co-Ordinates	- WS2	
Client	ill Parti		<u> </u>							Sheet 1 of 1	
Well	Water		nples & In		s <b>ting</b> Results	Depth (m)	Level (mAD)	Legend	Stratum Description		
	Levels	Depu	n (m)	NO/Type	Results	. ,			MADE GROUND: Tarmacadam comprising light black to lig	ht grey very sandy	- o
		0.30 - 0.40 0.60 - 0.80		ES ES		0.15 0.22 0.55			subrounded coarse GRAVEL of flint in tar. Sand is coarse.	ſ	Ļ
									MADE GROUND: Subbase comprising light grey to cream coarse SAND. Gravel is angular and subrounded fine to me	dium flint.	F
									MADE GROUND: Multicoloured (yellow to red occasionally light black to light brown) occasionally clayey sandy, angular fine to coarse GRAVEL of brick and flint. Sand is fine to coarse.		Ē
									Brown occasionally gravelly sandy CLAY. Gravel is angular	fine flint. Sand is	ŀ
								<u> </u>	fine.		Ľ
											- 1
											Ľ
								<u> </u>			ŀ
											Ľ
											F
						1.75					E
								- · · · · · · · · · · · · · · · · · · ·	ight brown orange occasionally gravelly slightly clayey medium to coarse AND. Gravel is subangular fine flint.		_
								· • · · · · · · · · · ·			<u> </u> 2
											L
								- · ·· ·a · :			È
								· • · · · · · •			F
								· · · · · · ·			E
								- · ·· ·a ·			F
						3.00		· • · · · · · · · · · · · · ·			È a
									Borehole completed at 3.00m.		-
											-
											╞
											Ľ
						{4.00}					- 4
General											
EUIPME METHO	D: Hand	dug insp	mpact win	ndow sa t 0.00m-	mpling tr •1.00m be	acked rig egl. Dyna	mic samp	led 1.00m-	3.00m begl.		
CASING GROUN	DWATE	R: Grou	ndwater r	not enco	untered.						
BACKFI	LL: On c	ompletic	on, the bo	rehole w	/as backfi	lled with	arisings.				
Groundwater						Strike De	epth	Cas	ing Depth Depth After Observation		
			Date			(m)	-		(m) Observation (m) (m)		
	ensions in Scale 1:2									Logged By KC	



Job No			utes Start 25	5-10-21	Groun	nd Level (1	m)	Co-Ordinates	WS3	
CRM	[.1027.	087	Finish 2	25-10-21					Sheet	
	ill Part	nership							1 of 1	
Well	Water Levels		& In Situ Te		Depth (m)	Level (mAD)	Legend	Stratum Description	ļ	
	Levels	Depth (m	) INO/Type	Results	0.02			MADE GROUND: - Angular fine GRAVEL of basalt.		┟╹
					0.13			MADE GROUND: Tarmacadam comprising light black to li	ght grey very sandy	F
		0.30 - 0.45	5 ES		0.45			subrounded coarse GRAVEL of flint in tar. Sand is coarse. MADE GROUND: Multicoloured (yellow to red occasionally occasionally clayey sandy GRAVEL of brick and flint with c	parse sand-sized	
		0.60 - 0.70	) ES				- <u>·</u>	ash. Gravel is angular fine to coarse flint. Sand is fine to co Brown occasionally gravelly sandy CLAY. Gravel is angular		1
							<u> </u>	fine.	nne nint. Odna is	-
							- <u> </u>			Ļ
										- 1
							<u> </u>			Ļ
					1.30		<u> </u>	Light brown orange occasionally gravelly slightly clayey me	dium to coarse	+
								SAND. Gravel is subangular fine flint.		F
								-		-
								,		F
					2.00		· · · · · · · · · · · · · · · · · · ·			-
								Borehole completed at 2.00m.		F
										E
										F
										-
										F
										- 3
										È
										-
										E
										$\left  \right $
										Ľ
										-
					{4.00}					- 4
General EUIPME		·ks hway compa	ct window sa	ampling tr	acked rig	r.				
METHO CASINO	D: Hand	dug inspecti	on pit 0.00m	-1.00m be	egl. Dyna	mic samp	oled 1.00m-	2.00m begl.		
GROUN	DWATE	R: Groundw completion, th	ater not enco	ountered. was backf	illed with	arisings.				
		1 ,	-			6				
Ground	lwater		Date		Strike D (m)	epth	Ca	sing Depth Depth After (m) Observation		
					(11)			(m)		
	ensions i Scale 1:2	n metres							Logged By KC	



1.0 ENZYGO WS LOG CRM: 1027.087 RICHMOND (2).GPJ GINT STD AGS 3\_1 ENZYGO.GPJ 28/10/21

Site A	shburn	ham Ro	oad, Ri	ichmon	d						
Job No CRM	1.1027.	087	Dates	Start 25 Finish 2	5-10-21 25-10-21	Grour	nd Level (	m)	Co-Ordinates	WS4	
Client				1 111311 2						Sheet 1 of 1	
	lill Part Water			In Situ Te	stina	Depth	Level				
Well	Levels	Dept			Results	(m)	(mAD)	Legend	Stratum Description		0
						0.02 0.12			MADE GROUND: - Angular fine GRAVEL of basalt. MADE GROUND: Tarmacadam comprising light black to	light grev very sandy	
		0.30 -	0.50	ES					subrounded coarse GRAVEL of flint in tar. Sand is coarse		_[
									MADE GROUND: Subbase comprising light grey to crean coarse SAND. Gravel is angular and subrounded fine to n	n gravelly fine to nedium flint.	-
						0.55			Brown occasionally gravelly sandy CLAY. Gravel is angula	ar fine flint. Sand is	-[
		0.70 -	0.80	ES					fine.		F
									Ş 		Ę
									7		- 1
											Ę
											F
						1.45			Light brown orange occasionally gravelly slightly clayey m	edium to coarse	-[
									SAND. Gravel is subangular fine flint.		-
											Ę
						0.00			2		-
						2.00		<del>- ·</del> ·	Borehole completed at 2.00m.		2 
											-
											Ľ
											-
											-
											- 3
											-
											Ľ
											-
											F
											F
											-
						{4.00}					- 4
General	l Remai	:ks				<u>{4.00}</u>	1				
EUIPME	ENT: Arc	hway co	mpact v	vindow s	ampling tr	acked rig	g. mic samr	vled 1 00m	-2.00m begl.		
CASINC	3: Not us	ed.	-			egi. Dyna	unie samp	ica 1.00m	-2.00m begi.		
					was backf	illed with	arisings.				
Ground	1										
Ground	iwater		Da	te		Strike D (m)	epth	Ca	sing Depth Depth After (m) (m) (m)		
									(11)		
	ensions i Scale 1:2									Logged By KC	



1.0 ENZYGO WS LOG CRM: 1027.087 RICHMOND (2).GPJ GINT STD AGS 3\_1 ENZYGO.GPJ 28/10/21

Site	11	D 1	D' 1	1					
Job No	shburn	ham Road, Dat		-10-21	Groun	nd Level (1	m)	Co-Ordinates	WS5
Client		nership	1 111011 2	5 10 21					Sheet 1 of 1
Well	Water Levels	Samples	& In Situ Te	sting Results	Depth (m)	Level (mAD)	Legend	Stratum Description	
	LOVOID	Depth (m)		Results	0.02 0.13			MADE GROUND: - Angular fine GRAVEL of basalt.	(
		0.35 - 0.48	ES		0.45			MADE GROUND: Tarmacadam comprising light black to subrounded coarse GRAVEL of flint in tar. Sand is coarse MADE GROUND: Subbase comprising light grey to crean subrounded medium GRAVEL of flint and concrete. Sand	n sandy rounded to
		0.60 - 0.70	ES		0.48			MADE GROUND: Orange brown to black rounded to sub GRAVEL of flint with coarse sand-sized ash.	-h
					1.10			Brown occasionally gravelly sandy CLAY. Gravel is angula fine.	r fine flint. Sand is
								Brown to light brown very clayey fine SAND.	-
					1.60			Light brown orange occasionally gravelly slightly clayey m SAND. Gravel is subangular fine flint.	edium to coarse
					2.90		<u> </u>	Sampler refused. Borehole completed at 2.90m.	
					{4.00}				
METHO CASING GROUN	NT: Arc D: Hand : Not use DWATE	hway compac dug inspectio	n pit 0.00m ter not enco	-1.00m be untered.	acked rig gl. Dyna	mic samp		2.90m begl.	
Ground	lwater	1	Date		Strike D (m)	epth	Ca	sing Depth Depth After (m) (m) (m)	
	ensions i Scale 1:2	n metres 5							Logged By KC



1.0 ENZYGO WS LOG CRM: 1027.087 RICHMOND (2).GPJ GINT STD AGS 3\_1 ENZYGO.GPJ 28/10/21

Site											
	shburn	ham Ro	oad, Ric	hmond						WS6	
Job No			Dates S	Start 25-	-10-21	Groun	d Level (1	m)	Co-Ordinates		
CRM	.1027.	087	F	Finish 2	5-10-21						
Client										Sheet 1 of 1	
Н	ill Part	nership	)							1 01 1	
Well	Water	Sam	nples & In		_	Depth	Level	Legend	Stratum Description		
	Levels	Dept	:h (m)	No/Type	Results	(m)	(mAD)				0 لم
						0.02 0.15			MADE GROUND: - Angular fine GRAVEL of basalt.		₽
60860		0.30 -	0.40	ES					MADE GROUND: Tarmacadam comprising light black to l subrounded coarse GRAVEL of flint in tar. Sand is coarse		┠
		0.30 -	0.40	EO		0.35			MADE GROUND: Subbase comprising light grey to cream		1
									coarse SAND. Gravel is angular and subrounded fine to m		Ţ
						0.60			MADE GROUND: Multicoloured (yellow to red occasionally brown) occasionally clayey sandy, angular fine to coarse		F
		0.70 -	0.80	ES					flint. Sand is fine to coarse.		┟
									Brown occasionally gravelly sandy CLAY. Gravel is angula	r fine flint. Sand is	-
									fine.		۲,
									1.00 - 1.40 Increasing sand conent.		['
											-
								 			-
						1.40		<u> </u>	Light brown orange occasionally gravelly slightly clayey me	edium to coarse	+
66866								. · · · · · · · · · · · · · · · · · · ·	SAND. Gravel is subangular fine flint.		Ľ
											-
									-		-
											-
											- 2
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								- · · · · · · ·			-
								······································			-
									-		-
								· · · · · · · · · · · · · · · · · · ·			
66866								· · · · · · · · ·			-
								· · · · · · · · · · · · · · · · · · ·			- 3
								. <u> </u>	-		-
											Ľ
									-		_
											-
											-
											-
						4.00					<u>+</u> 4
General	Remar	·ks				{4.00}	1	I	Borehole completed at 4.00m.		
			mpact wi	ndow sa	mpling tr	acked rig					
METHO CASING	D: Hand	dug inst	pection pi	t 0.00m-	1.00m be	egl. Dyna	mic samp	led 1.00m-	4.00m begl.		
GROUN	DWATE	R: Grou	ındwater r								
BACKFI	LL: On c	completio	on, the bo	rehole w	as backfi	lled with	arisings.				
Ground	water		Date			Strike D	epth	Ca	sing Depth Depth After Observation		
			Duit			(m)			(m) (m)		
										Lagerd D-	
	ensions i Scale 1:2									Logged By KC	

	nzy	90			Tel: ( Fax:	/go Ltd 01454 26 01454 26 : www.er	69760	m							
Site	A -1.1	- 1 D'-1	.1												
Job No	Ashburnham R	Datas	nd 7-10-21	Grou	und Level (n	m)	Co-Ordin	nates						SA1	
	M.1027.087	Finish	27-10-21												
Client	Hill Partnership	2											Sheet	1 of 1	
Water	Samples & In	Situ Testing	Depth		Legend				Stratur	n Descrij	otion				
Water Levels		Situ Testing No/Type Results	Depth (m) 0.40 1.00 1.80 2.00	Level (mAD)	Legend	Brown Cl	subangula		t brown sli	ghtly grav	elly very sa	ndy CL4 is fine.	AY with rea	d tiles.	
Dimens 1. Macl 2. Grou 3. Trial	al Remarks sions: 2.00x0.60x2 hine excavated pit indwater not encou pit sides remained ompletion, trial pit	from ground leve intered. I vertical and stat	ole.												- - - - - - - -

	nΖγ	/00			Tel: ( Fax:	go Ltd )1454 26 01454 2 : www.e				
Site		_ / _ / /								
Job No		Road, Richmor		Gray	und Level (r	m)	Co-Ordinates		SA2	
	M.1027.087	Start 2	7-10-21 27-10-2		ind Level (r	n)	Co-Ordinates			
Client	M.1027.087	Finish	27-10-2	1					Sheet	
	Hill Partnersh	nip							1 of 1	
Water		n Situ Testing	Depth	Level	Laward		Stratum Description			
Levels	Depth (m)	No/Type Results	(m)	(mAD)	Legend		Stratum Description			— o
Dimens 1. Macl 2. Grou 3. Trial	al Remarks sions: 2.00x0.60 nine excavated pi ndwater not enco		0.30 1.10 1.50 2.00 {4.00} el to 2.001 ble.	n begl.		Brown C	ROUND: Black to dark brown slightly gravelly very sa subangular and subrounded fine flint and brick. Sand LAY.	andy CLA J is fine.	AY with red tiles.	
	monsions in mot								Logged By	

$\bigcirc$	nΖγ	/90	)		Tel: ( Fax:	go Ltd 01454 269237 01454 269760 : www.enzygo.com		
Job No		Dates Star	t 26-10-21		nd Level (r	n) Co-Ordinates	SA3	
Client	M.1027.087 Hill Partnersh	I	sh 26-10-2	1			Sheet 1 of 1	
Water Levels	Samples & I Depth (m)	n <b>Situ Testing</b> No/Type Resu	Depth Its (m)	Level (mAD)	Legend	Stratum Description		
						MADE GROUND: Grass over black to dark brown slightly gravelly very Gravel is subangular and subrounded fine flint and brick. Sand is fine.	y sandy CLAY.	0 
			0.30		<u> </u>	Brown slightly sandy CLAY. Sand is fine.		Ŧ
			0.50			Light brown occasionally gravelly sandy CLAY. Gravel is subangular fir Trial Pit completed at 2.00m.	ne flint. Sand is fine.	
Dimens 1. Mach 2. Grou 3. Trial	al Remarks ions: 2.00x0.60x ine excavated pi ndwater not encc pit sides remaine ompletion, trial p	t from ground le ountered. ed vertical and s	stable.					- - - - - - - - - - - - - - - - - - -

С	nzy	9	$\bigcirc$			Tel: ( Fax:	go Ltd )1454 26 01454 26 : www.er			
Job No	Ashburnham F M.1027.087	Road, R	Start 2	nd 6-10-21 26-10-21		nd Level (r	n)	Co-Ordinates	SA4	
	Hill Partnershi	р							1 of 1	
Water Levels	Samples & In Depth (m)		sting Results	Depth (m)	Level (mAD)	Legend		Stratum Description		
							MADE G subangul	ROUND: Black to dark brown slightly gravelly very sandy CL ar and subrounded fine flint and brick. Sand is fine.	AY. Gravel is	- 0 - - -
				0.40			Brown sli	ghtly sandy CLAY. Sand is fine.		+
1 ENZYGO.GPJ 28/10/21				2.00			flint.	ompleted at 2.00m.		
GINT STD AGS 3	al Damarka			{4.00}						- - 4
Center Dimens 1. Mach 2. Grou 3. Trial 4. On co 4. On co All din	al Remarks ions: 2.00x0.60x/ nine excavated pit ndwater not encor pit sides remaine ompletion, trial pi	2.00 from grc intered. d vertica t was bad	ound leve	el to 2.00m ble. with arisin	n begl. gs.				Logged By KC	

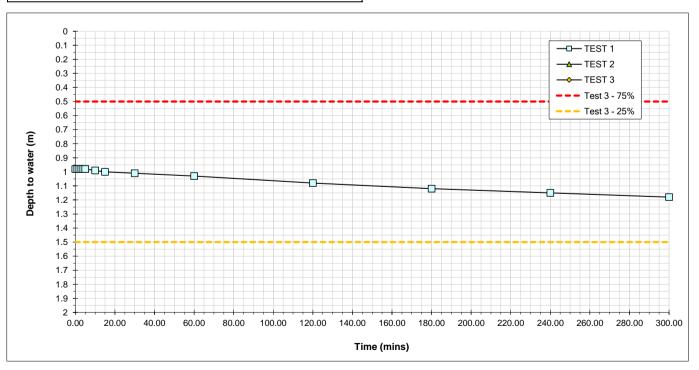
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Site								
	Ashburnham H	Road, R	Richmor	nd				045
Job No		Dates	<sup>5</sup> Start 2	6-10-21	Grou	und Level (n	n) Co-Ordinates	SA5
CR	M.1027.087		Finish	26-10-21				
Client							Sheet	1 01
	Hill Partnershi	ip						1 of 1
Water	Samples & Ir			Depth	Level	Legend	Stratum Description	
Levels	Depth (m)	No/Type	Results	(m)	(mAD)	XXXXXX		0
							MADE GROUND: Black to dark brown slightly gravelly very sandy CLAY. Grave subangular and subrounded fine flint and brick. Sand is fine.	el is
				0.30			5	F
				0.00			MADE GROUND: Multicoloured (yellow to red occasionally light black to light b	
				0.55			occasionally clayey sandy angular fine to coarse GRAVEL of brick, concrete an Sand is fine to coarse.	d flint.
				0.00			Light brown occasionally gravelly sandy CLAY. Gravel is subangular fine flint. Sa	and is fine.
								F
								Ľ
								- 1
								-
								F
								F
								-
								F
								-
				2.00		<u> </u>		2
							Trial Pit completed at 2.00m.	
								F
								F
								Ľ
								-
								F
								-
								Ē.
								- 3
								Ļ
								-
								F
								-
								F
				{4.00}				- 4
Dimens 1. Mach 2. Grou 3. Trial	al Remarks ions: 2.00x0.60x ine excavated pit ndwater not enco pit sides remaine ompletion, trial p	t from gro untered. d vertica	l and stat	ole.				

Job No	Ashburnham I			nd 7-10-21	Grou	und Level (n	n)	Co-Ordinates	SA6	
CR Client	M.1027.087		Finish	27-10-2	1				Sheet	
Water	Hill Partnersh Samples & II		etina	Depth	Level	Legend		Stratum Description	1 of 1	
Levels	Depth (m)		Results	(m) 0.40 2.00	(mAD)		Gravel i	ROUND: Black to dark brown slightly gravelly very sandy C subangular and subrounded fine flint and brick. Sand is fine wn to light orange brown slightly clayey medium SAND.	LAY with red tiles.	
				{4.00}						- - - 4
Dimens 1. Mach 2. Grou 3. Trial 4. On co	al Remarks ions: 2.00x0.60x ine excavated pindwater not enco pit sides remaine ompletion, trial p	t from gruntered. d vertica it was ba		el to 2.001					Logged By KC	

SOIL INFILTRATION RATE	m/s	#DIV/0!		#DIV/0!			#DIV/0!	
t (75%-25%)	mins	0.00		0.00			0.00	
a (50%)	m2	2.64		4.45			4.45	
/ (75%-25%)	m3	0.38		0.75			0.75	
Time to fall to 25% effective depth	mins							
Time to fall to 75% effective depth	mins							
Effective Storage Depth 75%-25%	m	0.51		1.00			1.00	
i.e. depth below GL)	m	1.75		1.50			1.50	
25% Effective Storage Depth	m	0.26		0.50			0.50	
i.e. depth below GL)	m	1.24		0.50			0.50	
75% Effective Storage Depth	m	0.77		1.50			1.50	
Effective Storage Depth	m	1.02		2.00			2.00	
			120.0	1.92		0.0	0.00	
	120.0		0.0	0.00		0.0	0.00	
	60.0	1.03	0.0	0.00		0.0	0.00	
	30.0	1.01	0.0	0.00		0.0	0.00	
	15.0	1.00	0.0	0.00		0.0	0.00	
	5.0	0.98	0.0	0.00		0.0	0.00	
	4.0 5.0	0.98 0.98	0.0 0.0	0.00 0.00		0.0 0.0	0.00 0.00	
	3.0	0.98	0.0	0.00		0.0	0.00	
	2.0	0.98	0.0	0.00		0.0	0.00	
	1.0	0.98	0.0	0.00		0.0	0.00	
	0.0	0.98	0.0	0.00		0.0	0.00	
	Time(m	n) Depth to Water (m)	Time(min)	Depth to Wat	er (m)	Time(min)	Depth to Water (	(m)
		TEST 1		TEST 2			TEST 3	
		See B.R.E. Digest 365, 1		Design.	Cround		,	
		SOIL INFILTRATION RA	TE TEST		- ·	water Level	Dry	r
		2						1
		Date of Test		1			0.60	I
enzyo	)	Job Number CRM.10					1.25	ı
		Site Ashbur	nham Rd Richmon	nd	Soakav	vay Number	SA1	

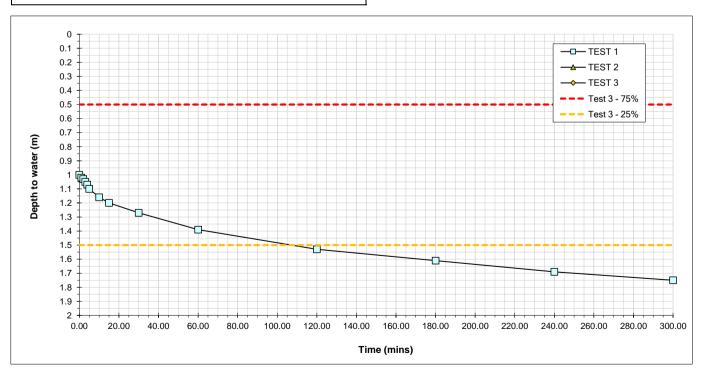
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Compiled By:	Date:	Checked By:	Date:	Approved By:	Date:
G.Parr		R.Hamilton		S.Rhodes	
Gen	19.04.21	Rottanilla -	19.04.21	SB	19.04.21

enzygo			SiteAshburnham Rd Richmond Job NumberCRM.1027.087 Date of Test26th to 27th October 2021			Soakaway Number Length Width Depth		SA2 1.50 0.60 2.00	m m m
		9	SOIL INFILTRATION RA	TE TEST		Ground	water Level	Dry	m
		9	See B.R.E. Digest 365, 1	991, Soakaway	Design.			-	
			TEST 1		TEST 2			TEST 3	
		Time(min)	Depth to Water (m)	Time(min)	Depth to Wat	ter (m)	Time(min)	Depth to Water (	m)
		0.0	1.00	0.0	0.00		0.0	0.00	
		1.0	1.02	0.0	0.00		0.0	0.00	
		2.0	1.03	0.0	0.00		0.0	0.00	
		3.0	1.05	0.0	0.00		0.0	0.00	
		4.0	1.07	0.0	0.00		0.0	0.00	
		5.0	1.10	0.0	0.00		0.0	0.00	
		10.0	1.16	0.0	0.00		0.0	0.00	
		15.0	1.20	0.0	0.00		0.0	0.00	
		30.0	1.27	0.0	0.00		0.0	0.00	
		60.0	1.39	0.0	0.00		0.0	0.00	
		120.0	1.53	0.0	0.00		0.0	0.00	
				120.0	1.92		0.0	0.00	
Effective Storage Depth	m		1.00		2.00			2.00	
75% Effective Storage Depth	m		0.75		1.50			1.50	
i.e. depth below GL)	m		1.25		0.50			0.50	
25% Effective Storage Depth	m		0.25		0.50			0.50	
(i.e. depth below GL)	m		1.75		1.50			1.50	
Effective Storage Depth 75%-25%	m		0.50		1.00			1.00	
Time to fall to 75% effective depth	mins		25.00						
Time to fall to 25% effective depth	mins		300.00						
/ (75%-25%)	m3		0.45		0.90			0.90	
a (50%)	m2		3.00		5.10			5.10	
t (75%-25%)	mins		275.00		0.00			0.00	
SOIL INFILTRATION RATE	m/s		9.09E-06		#DIV/0!			#DIV/0!	

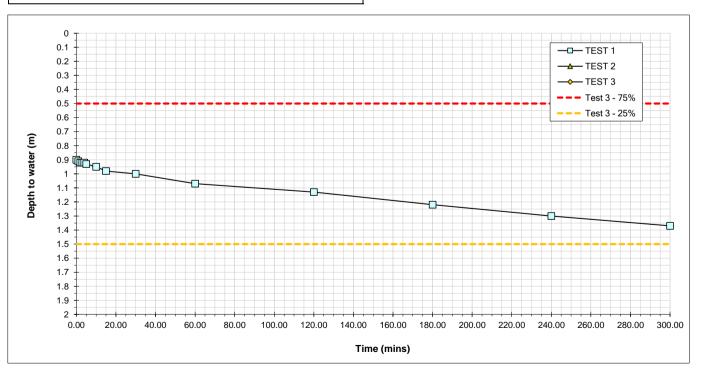
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Compiled By:	Date:	Checked By:	Date:	Approved By:	Date:
G.Parr		R.Hamilton		S.Rhodes	
Gm	19.04.21	Rottanilla -	19.04.21	SB	19.04.21

enzyge	Job Number.	Site         Ashburnham Rd Richmond         S           Job Number         CRM.1027.087         L           Date of Test			SA3 1.30 0.60 2.00	m m m	
		SOIL INFIL	TRATION RATE TEST		n ndwater Level	Dry	m
		See B.R.E.	Digest 365, 1991, Soakawa	y Design.			
		TEST 1		TEST 2		TEST 3	
	Time	e(min) Depth to	Water (m) Time(min)	Depth to Water (m)	Time(min)	Depth to Water (	(m)
	C	.0 0.90	0.0	0.00	0.0	0.00	
	1	.0 0.91	0.0	0.00	0.0	0.00	
	2	.0 0.92	0.0	0.00	0.0	0.00	
	3	.0 0.92	0.0	0.00	0.0	0.00	
	4	.0 0.92	0.0	0.00	0.0	0.00	
	5	.0 0.93	0.0	0.00	0.0	0.00	
		0.0 0.95	0.0	0.00	0.0	0.00	
		5.0 0.98	0.0	0.00	0.0	0.00	
	-	0.0 1.00	0.0	0.00	0.0	0.00	
		0.0 1.07	0.0	0.00	0.0	0.00	
	12	0.0 1.13	0.0 120.0	0.00 1.92	0.0 0.0	0.00 0.00	
			120.0	1.02	0.0	0.00	
Effective Storage Depth	m	1.10		2.00		2.00	
75% Effective Storage Depth	m	0.83		1.50		1.50	
(i.e. depth below GL)	m	1.18		0.50		0.50	
25% Effective Storage Depth	m	0.28		0.50		0.50	
(i.e. depth below GL)	m	1.73		1.50		1.50	
Effective Storage Depth 75%-25%	m	0.55		1.00		1.00	
Time to fall to 75% effective depth	mins						
Time to fall to 25% effective depth	mins						
√ (75%-25%)	m3	0.43		0.78		0.78	
a (50%)	m2	2.87		4.58		4.58	
t (75%-25%)	mins	0.00		0.00		0.00	
SOIL INFILTRATION RATE	m/s	#DIV/0!	!	#DIV/0!		#DIV/0!	

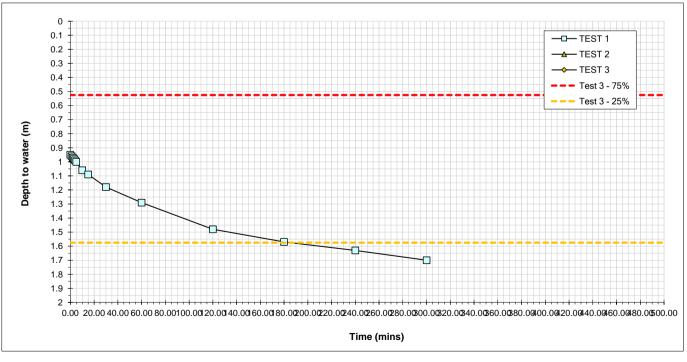
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Compiled By:	Date:	Checked By:	Date:	Approved By:	Date:
G.Parr		R.Hamilton		S.Rhodes	
Gen	19.04.21	Rottan:1/2-	19.04.21	SE	19.04.21

enzyge	Job Number CRM.	Job Number CRM.1027.087			vay Number		m m m	
		SOIL INFILTRATION R				lwater Level	Dry	m
		See B.R.E. Digest 365,	1991, Soakaway			1	TEOTO	
	Time(n	TEST 1 nin) Depth to Water (m)	Time(min)	TEST 2 Depth to Wa	ter (m)	Time(min)	TEST 3 Depth to Water (	(m)
	1			Doparto Ha		)		(,
	0.0	0.95	0.0	0.00		0.0	0.00	
	1.0		0.0	0.00		0.0	0.00	
	2.0		0.0	0.00		0.0	0.00	
	3.0		0.0	0.00		0.0	0.00	
	4.0		0.0	0.00		0.0	0.00	
	5.0		0.0	0.00		0.0	0.00	
	10.0		0.0	0.00		0.0	0.00	
	15.0		0.0	0.00		0.0	0.00	
	30.0		0.0	0.00		0.0	0.00	
	60.0		0.0	0.00		0.0	0.00	
	120.	0 1.48	0.0 120.0	0.00 1.92		0.0 0.0	0.00 0.00	
Effective Storage Depth	m	1.15		2.10			2.10	
75% Effective Storage Depth	m	0.86 <b>1.24</b>		1.58 <b>0.53</b>			1.58	
(i.e. depth below GL) 25% Effective Storage Depth	m	1.24 0.29		0.53 0.53			<b>0.53</b> 0.53	
(i.e. depth below GL)	m m	0.29 <b>1.81</b>		0.53 <b>1.58</b>			0.53 <b>1.58</b>	
Effective Storage Depth 75%-25%	m	0.58		1.05			1.05	
Time to fall to 75% effective depth	mins	45.00						
Time to fall to 25% effective depth	mins	500.00						
/ (75%-25%)	m3	0.48		0.88			0.88	
a (50%)	m2	3.14		5.04			5.04	
: (75%-25%)	mins	455.00		0.00			0.00	
SOIL INFILTRATION RATE	m/s	5.63E-06		#DIV/0!			#DIV/0!	

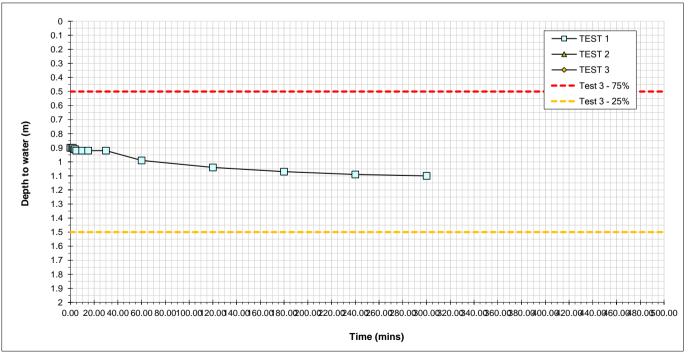
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Compiled By:	Date:	Checked By:	Date:	Approved By:	Date:
G.Parr		R.Hamilton		S.Rhodes	
Gh	19.04.21	Rotton:// -	19.04.21	SB	19.04.21

SOIL INFILTRATION RATE	m/s		#DIV/0!		#DIV/0!			#DIV/0!	
(13/0-2370)	111115		0.00		0.00			0.00	
a (50%) (75%-25%)	m2 mins		3.21 0.00		5.10 0.00			5.10 0.00	
/ (75%-25%)	m3		0.50		0.90			0.90	
Fime to fall to 75% effective depth Fime to fall to 25% effective depth	mins mins								
Effective Storage Depth 75%-25%	m		0.55		1.00			1.00	
(i.e. depth below GL)	m		1.73		1.50			1.50	
25% Effective Storage Depth	m		0.28		0.50			0.50	
(i.e. depth below GL)	m		0.83 1.18		0.50			0.50	
Effective Storage Depth 75% Effective Storage Depth	m m		1.10 0.83		2.00 1.50			2.00 1.50	
							0.0	0.00	
		120.0	1.04	120.0	1.92		0.0	0.00	
		60.0 120.0	0.99 1.04	0.0	0.00		0.0	0.00	
		30.0 60.0	0.92 0.99	0.0 0.0	0.00 0.00		0.0 0.0	0.00 0.00	
		15.0	0.92	0.0	0.00		0.0	0.00	
		10.0	0.92	0.0	0.00		0.0	0.00	
		5.0	0.92	0.0	0.00		0.0	0.00	
		4.0	0.91	0.0	0.00		0.0	0.00	
		3.0	0.91	0.0	0.00		0.0	0.00	
		2.0	0.90	0.0	0.00		0.0	0.00	
		1.0	0.90	0.0	0.00		0.0	0.00	
		0.0	0.90	0.0	0.00		0.0	0.00	
	Tin	ne(min)	Depth to Water (m)	Time(min)	Depth to Wat	er (m)	Time(min)	Depth to Water (	m)
			TEST 1		TEST 2	•		TEST 3	
			Gee B.R.E. Digest 365, 1		Design.	oround		2.9	
		5	OIL INFILTRATION RA	TE TEST		Ground	water Level	Dry	ı
						Depth		2.00	I
		C	ate of Test 26th to 2	27th October 2021		•		0.60	ı
	)	-	ob Number CRM.10					1.50	ı
		S	ite Ashburn	ham Rd Richmon	d	Soakav	ay Number	SA5	

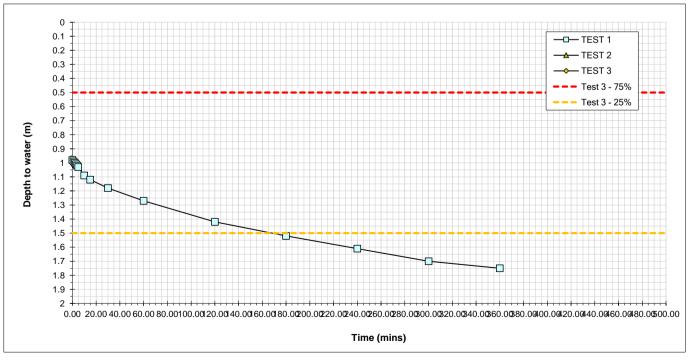
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Compiled By:	Date:	Checked By:	Date:	Approved By:	Date:
G.Parr		R.Hamilton		S.Rhodes	
60	19.04.21	Rotanilla -	19.04.21	SB	19.04.21

enzyge	Job Number CRM.	Site Ashburnham Rd Richmond Job Number CRM.1027.087 Date of Test 26th to 27th October 2021			vay Number		m m m	
		SOIL INFILTRATION R	ATE TEST		Ground	water Level	Dry	m
		See B.R.E. Digest 365,	1991, Soakaway	Design.			-	
		TEST 1		TEST 2			TEST 3	
	Time(m	in) Depth to Water (m)	Time(min)	Depth to War	ter (m)	Time(min)	Depth to Water (	(m)
	0.0	0.98	0.0	0.00		0.0	0.00	
	1.0	0.99	0.0	0.00		0.0	0.00	
	2.0	1.00	0.0	0.00		0.0	0.00	
	3.0	1.01	0.0	0.00		0.0	0.00	
	4.0	1.02	0.0	0.00		0.0	0.00	
	5.0	1.03	0.0	0.00		0.0	0.00	
	10.0	1.09	0.0	0.00		0.0	0.00	
	15.0	1.12	0.0	0.00		0.0	0.00	
	30.0	1.18	0.0	0.00		0.0	0.00	
	60.0	1.27	0.0	0.00		0.0	0.00	
	120.0	) 1.42	0.0	0.00		0.0	0.00	
						0.0	0.00	
Effective Storage Depth	m	1.02		2.00			2.00	
75% Effective Storage Depth	m	0.77		1.50			1.50	
(i.e. depth below GL)	m	1.24		0.50			0.50	
25% Effective Storage Depth	m	0.26		0.50			0.50	
(i.e. depth below GL)	m	1.75		1.50			1.50	
Effective Storage Depth 75%-25%	m	0.51		1.00			1.00	
Fime to fall to 75% effective depth	mins	50.00						
Time to fall to 25% effective depth	mins	360.00						
√ (75%-25%)	m3	0.37		0.72			0.72	
a (50%)	m2	2.56		4.32			4.32	
t (75%-25%)	mins	310.00		0.00			0.00	
SOIL INFILTRATION RATE	m/s	7.72E-06		#DIV/0!			#DIV/0!	

#DIV/0!



Compiled By:	Date:	Checked By:	Date:	Approved By:	Date:
G.Parr		R.Hamilton		S.Rhodes	
Gm	19.04.21	Rotanilto -	19.04.21	SB	19.04.21



**APPENDIX C – CHEMICAL TESTING** 





**Steve Rhodes** Enzygo Geoenvironmental Ltd The Byre Woodend Lane Cromhall Gloucestershire GL12 8AA



i2 Analytical Ltd. 7 Woodshots Meadow, Croxley Green Business Park, Watford, Herts, WD18 8YS

t: 01923 225404 f: 01923 237404 e: reception@i2analytical.com

e: steve.rhodes@enzygo.com

# Analytical Report Number : 21-72260

Project / Site name:	Richmond	Samples received on:	29/04/2021
Your job number:	CRM.1265.087	Samples instructed on/ Analysis started on:	30/04/2021
Your order number:		Analysis completed by:	11/05/2021
Report Issue Number:	1	Report issued on:	11/05/2021
Samples Analysed:	22 soil samples		

Signed: Keroline Harel

Karolina Marek PL Head of Reporting Team For & on behalf of i2 Analytical Ltd.

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

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

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

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

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

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





Lab Sample Number		1856420	1856421	1856422	1856423	1856424		
Sample Reference				WS1	WS2	WS2	WS4	WS5
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.40	0.20-0.45	1.00	0.40	0.40
Date Sampled				28/04/2021	28/04/2021	28/04/2021	28/04/2021	28/04/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
	1	F		None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
	%	5 0.1	NONE	. 0.1	. 0.1	. 0.1	. 0.1	. 0.1
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	kg	0.001	NONE	8.3	5.9	10	11	8.4
Total mass of sample received	Ng	0.001	NONE	1.2	1.2	0.50	1.2	1.2
Asbestos in Soil Screen / Identification Name	Туре	N/A	ISO 17025		Crocidolite		-	
Asbestos in Soil Screen / Identification Name	Туре	N/A N/A	ISO 17025	- Not-detected	Detected	- Not-detected	- Not-detected	- Not-detected
	1ype %	0.001	ISO 17025	NOL-delected		Not-detected		Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025 ISO 17025	-	0.006	-	-	-
Asbestos Quantification Total	,0	0.001	100 1/025	-	0.006	-	-	-
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	7.7	7.7	8.2	6.9	8.1
pri - Automated Total Organic Carbon (TOC)	%	0.1	MCERTS	1.4	1.3	0.3	0.9	1.2
Total Organic Carbon (TOC)	70	0.12	HOLIND	1.4	1.5	0.5	0.9	1.2
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	0.74	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.57	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.60	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	6.5	< 0.05	< 0.05	0.76	< 0.05
Anthracene	mg/kg	0.05	MCERTS	1.8	< 0.05	< 0.05	0.20	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	15	0.53	< 0.05	1.3	0.46
Pyrene	mg/kg	0.05	MCERTS	14	0.51	< 0.05	1.2	0.46
Benzo(a)anthracene	mg/kg	0.05	MCERTS	8.1	0.36	< 0.05	0.67	0.26
Chrysene	mg/kg	0.05	MCERTS	5.2	0.32	< 0.05	0.55	0.23
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	8.1	0.44	< 0.05	0.63	0.30
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	3.2	0.24	< 0.05	0.33	0.15
Benzo(a)pyrene	mg/kg	0.05	MCERTS	7.0	0.40	< 0.05	0.60	0.27
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	4.0	0.25	< 0.05	0.41	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	1.1	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	4.6	0.29	< 0.05	0.43	< 0.05
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	80.9	3.34	< 0.80	7.12	2.13
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	16	40	16	17	16
Boron (water soluble)	mg/kg	0.2	MCERTS	1.1	0.8	1.5	0.4	0.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	22	26	26	26	28
Copper (aqua regia extractable)	mg/kg	1	MCERTS	52	36	7.6	26	35
Lead (aqua regia extractable)	mg/kg	1	MCERTS	310	150	11	73	84
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	1.2	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	20	19	21	22	23
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	140	110	46	94	130





Lab Sample Number				1856420	1856421	1856422	1856423	1856424
Sample Reference				WS1	WS2	WS2	WS4	WS5
Sample Number				None Supplied				
Depth (m)				0.40	0.20-0.45	1.00	0.40	0.40
Date Sampled				28/04/2021	28/04/2021	28/04/2021	28/04/2021	28/04/2021
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Petroleum Hydrocarbons	-	-	-	-			-	-
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	7.3	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	38	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	99	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	140	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	140	< 10	< 10	< 10	< 10
					-			-
TPH (>C5 - C7)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (>C7 - C8)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	7.3	< 4.0	< 4.0	< 4.0	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	38	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C21 - C35)	mg/kg	1	MCERTS	99	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C35 - C44)	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH Total C5 - C44	mg/kg	10	NONE	140	< 10	< 10	< 10	< 10

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





Lab Sample Number		1856425	1856426	1856427	1856428	1856429		
Sample Reference				WS5	WS6	WS6	WS7	WS8
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	0.40	1.00	0.40	1.00
Date Sampled				28/04/2021	28/04/2021	28/04/2021	28/04/2021	28/04/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter	ç	Limit of	Accree Sta					
(Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	-	< 0.1	-
Moisture Content	%	0.01	NONE	10	9.1	-	7.5	-
Total mass of sample received	kg	0.001	NONE	0.50	1.2	-	1.0	-
Asbestos in Soil Screen / Identification Name	Туре	N/A	ISO 17025	-	Chrysotile	-	-	-
Asbestos in Soil	Туре	N/A	ISO 17025	Not-detected	Detected	Not-detected	Not-detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	< 0.001	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	< 0.001	-	-	-
General Inorganics		N//A	MCEDTO	0.1				
pH - Automated	pH Units %	N/A 0.1	MCERTS MCERTS	8.4	7.8	-	7.2	-
Total Organic Carbon (TOC)	70	0.1	MCER15	0.3	1.5	-	1.6	-
Total Phenols			MCEDIC					
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
Speciated PAHs		0.05	MCERTS	0.05	0.05		0.05	
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	< 0.05	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	< 0.05	-
Acenaphthene	mg/kg mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	< 0.05	-
Fluorene Phenanthrene	mg/kg	0.05	MCERTS	< 0.05 < 0.05	< 0.05	-	< 0.05 < 0.05	-
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	< 0.05	
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.64	-	0.60	
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.57		0.55	
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.38	-	0.37	-
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.33	-	0.32	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.42	-	0.50	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.23	-	0.28	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.33	-	0.42	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.25	-	< 0.05	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.22	-	< 0.05	-
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	3.37	-	3.04	-
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	15	19	-	18	-
Boron (water soluble)	mg/kg	0.2	MCERTS	1.6	0.7	-	0.8	_
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2	-
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	-	< 4.0	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	26	21	-	25	_
Copper (aqua regia extractable)	mg/kg	1	MCERTS	11	32	-	33	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	15	160	-	120	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	22	20	-	21	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	48	110	-	170	-
		1		.0	-10		2/0	





Lab Sample Number				1856425	1856426	1856427	1856428	1856429
Sample Reference				WS5	WS6	WS6	WS7	WS8
Sample Number				None Supplied				
Depth (m)				1.00	0.40	1.00	0.40	1.00
Date Sampled				28/04/2021	28/04/2021	28/04/2021	28/04/2021	28/04/2021
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Petroleum Hydrocarbons					=		=	=
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	-	< 2.0	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	-	< 8.0	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	-	< 8.0	-
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	-	< 8.4	-
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	-	< 10	-
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	-	< 10	-
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	-	< 2.0	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	-	< 10	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	-	< 10	-
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	-	< 8.4	-
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	-	< 10	-
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	-	< 10	-
TPH (>C5 - C7)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
TPH (>C7 - C8)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	< 0.1	-
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0	-	< 2.0	-
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	< 4.0	-	< 4.0	-
TPH (C16 - C21)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
TPH (C21 - C35)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
TPH (C35 - C44)	mg/kg	10	NONE	< 10	< 10	-	< 10	-
TPH Total C5 - C44	mg/kg	10	NONE	< 10	< 10	-	< 10	-

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





Lab Sample Number		1856430	1856431	1856432	1856433	1856434		
Sample Reference				WS8	WS9	WS10	WS11	WS12
Sample Number				None Supplied				
Depth (m)				0.40	0.40	0.40	0.40	0.40
Date Sampled				28/04/2021	28/04/2021	28/04/2021	28/04/2021	28/04/2021
Time Taken				None Supplied				
		<b>_</b>	1	None Supplied				
		Limit of detection	Ac					
Analytical Parameter	S	9	Accreditation Status					
(Soil Analysis)	Units	dete	creditat Status					
		cti	ion					
		_						
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	5.7	7.1	9.3	8.7	9.4
Total mass of sample received	kg	0.001	NONE	0.50	1.2	1.2	1.2	1.2
	-	-						
Asbestos in Soil Screen / Identification Name	Туре	N/A	ISO 17025	Chrysotile	-	-	-	-
Asbestos in Soil	Туре	N/A	ISO 17025	Detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	3.127	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	3.13	-	-	-	-
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	8.6	8.2	10.8	7.9	8.0
Total Organic Carbon (TOC)	%	0.1	MCERTS	2.7	1.2	1.6	1.0	1.7
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
						8		
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	2.2	< 0.05	< 0.05	0.48	< 0.05
Anthracene	mg/kg	0.05	MCERTS	0.43	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	5.9	0.46	0.48	0.81	0.50
Pyrene	mg/kg	0.05	MCERTS	4.8	0.41	0.55	0.72	0.50
Benzo(a)anthracene	mg/kg	0.05	MCERTS	3.8	0.26	0.43	0.44	0.24
Chrysene	mg/kg	0.05	MCERTS	2.3	0.27	0.36	0.38	0.38
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	3.4	0.35	0.47	0.48	0.52
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	1.5	0.21	0.26	0.26	0.13
Benzo(a)pyrene	mg/kg	0.05	MCERTS	2.6	0.32	0.47	0.42	0.34
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.6	< 0.05	0.31	0.30	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.53	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.7	< 0.05	0.38	0.31	< 0.05
serre/am/ber/iene	5. 5	I	I	1./	< 0.05	0.00	0.31	< 0.0J
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	30.7	2.28	3.71	4.60	2.61
		5.0		30.7	2.20	5./1	-1.0U	2.01
Heavy Metals / Metalloids								
	mg/kg	1	MCERTS	24	10	17	10	10
Arsenic (aqua regia extractable)	mg/kg	0.2	MCERTS	34	16	17	19	18
Boron (water soluble)		0.2	MCERTS	2.3	0.9	0.3	0.6	1.1
Cadmium (aqua regia extractable)	mg/kg			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	32	22	25	25	25
Copper (aqua regia extractable)	mg/kg	1	MCERTS	110	37	27	30	40
Lead (aqua regia extractable)	mg/kg	1	MCERTS	320	140	250	110	140
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.9	< 0.3	< 0.3	< 0.3	0.9
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	48	18	19	23	21
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	310	120	160	190	180





Lab Sample Number				1856430	1856431	1856432	1856433	1856434
Sample Reference				WS8	WS9	WS10	WS11	WS12
Sample Number				None Supplied				
Depth (m)				0.40	0.40	0.40	0.40	0.40
Date Sampled				28/04/2021	28/04/2021	28/04/2021	28/04/2021	28/04/2021
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	16	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	50	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	66	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	66	< 10	< 10	< 10	< 10
TPH (>C5 - C7)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (>C7 - C8)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	16	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C21 - C35)	mg/kg	1	MCERTS	50	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C35 - C44)	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH Total C5 - C44	mg/kg	10	NONE	66	< 10	< 10	< 10	< 10

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





Lab Sample Number		1856435	1856436	1856437	1856438	1856439		
Sample Reference				WS13	WS13	WS14	WS15	WS16
Sample Number				None Supplied				
•				0.40	1.00	0.40	0.40	0.40
Depth (m)								
Date Sampled				28/04/2021	28/04/2021	28/04/2021	28/04/2021	28/04/2021
Time Taken	-		1	None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	6.3	14	8.7	11	7.9
Total mass of sample received	kg	0.001	NONE	1.2	0.40	1.2	1.2	1.2
···· ··· ··· ·· ·· ··								
Asbestos in Soil Screen / Identification Name	Туре	N/A	ISO 17025	_	-	_	-	
Asbestos in Soil	Туре	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
			1	-	-	-	-	-
Concert Incorporation								
General Inorganics	all 11.2	N1/A	MCEDIC	0.5	0.7	0.1	0.7	
pH - Automated	pH Units	N/A 0.1	MCERTS	8.2	8.3	8.4	8.3	7.9
Total Organic Carbon (TOC)	%	0.1	MCERTS	1.1	0.4	2.5	1.2	1.2
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.31	< 0.05	0.55	0.66	0.27
	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Anthracene	mg/kg	0.05	MCERTS			< 0.05	< 0.05	< 0.05
Fluoranthene			MCERTS	0.59	< 0.05	0.81	1.7	0.42
Pyrene	mg/kg	0.05		0.54	< 0.05	0.69	1.5	0.39
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.39	< 0.05	0.46	0.73	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.39	< 0.05	0.41	1.0	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.40	< 0.05	0.48	1.1	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.29	< 0.05	< 0.05	0.66	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.36	< 0.05	0.41	0.87	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.26	0.60	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.30	0.59	< 0.05
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	3.27	< 0.80	4.37	9.38	1.08
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	17	18	19	19	16
Boron (water soluble)	mg/kg	0.2	MCERTS	0.7	1.2	0.7	0.8	0.8
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	23	30	28	29	25
Copper (aqua regia extractable) Copper (aqua regia extractable)	mg/kg	1	MCERTS	35	30 14	42	43	25
Lead (aqua regia extractable)	mg/kg	1	MCERTS	110	26	85	43	370
		0.3	MCERTS					
Mercury (aqua regia extractable)	mg/kg			< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	22	28	33	28	21
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	160	55	110	150	110





Lab Sample Number				1856435	1856436	1856437	1856438	1856439
Sample Reference				WS13	WS13	WS14	WS15	WS16
Sample Number				None Supplied				
Depth (m)				0.40	1.00	0.40	0.40	0.40
Date Sampled				28/04/2021	28/04/2021	28/04/2021	28/04/2021	28/04/2021
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Petroleum Hydrocarbons							-	_
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	15	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	22	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10	22	< 10
TPH (>C5 - C7)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (>C7 - C8)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
ТРН (С10 - С12)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
ТРН (С12 - С16)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	6.8	< 1.0
TPH (C21 - C35)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	15	< 1.0
TPH (C35 - C44)	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH Total C5 - C44	mg/kg	10	NONE	< 10	< 10	< 10	22	< 10

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





Lab Sample Number				1856440	1856441
Sample Reference				WS17	WS18
Sample Number				None Supplied	
•				0.40	None Supplied
Depth (m) Date Sampled					0.40
				28/04/2021	28/04/2021
Time Taken		_	-	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	7.9	6.1
Total mass of sample received	kg	0.001	NONE	1.2	1.0
Asbestos in Soil Screen / Identification Name	Туре	N/A	ISO 17025	-	-
Asbestos in Soil	Туре	N/A	ISO 17025	Not-detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-
					-
General Inorganics					
pH - Automated	pH Units	N/A	MCERTS	8.1	8.2
Total Organic Carbon (TOC)	%	0.1	MCERTS	1.1	1.9
	I				2.0
Total Phenols					
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0
	5, 5			< 1.0	< 1.0
Speciated PAHs					
Naphthalene	mg/kg	0.05	MCERTS	. 0.05	- 0.05
•	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthylene		0.05	MCERTS	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.46
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Fluoranthene	mg/kg			0.56	1.0
Pyrene	mg/kg	0.05	MCERTS	0.49	0.87
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.29	0.57
Chrysene	mg/kg	0.05	MCERTS	0.28	0.38
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.71
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.18
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.57
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.33
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.42
Total PAH					
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	1.62	5.49
Heavy Metals / Metalloids					
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	17	18
Boron (water soluble)	mg/kg	0.2	MCERTS	0.7	0.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0
Chromium (agua regia extractable)	mg/kg	1	MCERTS	25	25
Copper (aqua regia extractable)	mg/kg	1	MCERTS	26	41
Lead (aqua regia extractable)	mg/kg	1	MCERTS	92	280
(uu .egu enclaciable)		0.3	MCERTS	< 0.3	< 0.3
Mercury (aqua regia extractable)	11111/KU				
Mercury (aqua regia extractable) Nickel (aqua regia extractable)	mg/kg mg/kg	1			
Mercury (aqua regia extractable) Nickel (aqua regia extractable) Selenium (aqua regia extractable)	mg/kg mg/kg		MCERTS	20 < 1.0	20





Lab Sample Number				1856440	1856441
Sample Reference				WS17	WS18
Sample Number				None Supplied	None Supplied
Depth (m)				0.40	0.40
Date Sampled				28/04/2021	28/04/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Petroleum Hydrocarbons					
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	11
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	< 10	11
TPH (>C5 - C7)	mg/kg	1	MCERTS	< 1.0	< 1.0
TPH (>C7 - C8)	mg/kg	1	MCERTS	< 1.0	< 1.0
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	< 1.0	2.9
TPH (C21 - C35)	mg/kg	1	MCERTS	< 1.0	7.7
TPH (C35 - C44)	mg/kg	10	NONE	< 10	< 10
TPH Total C5 - C44	mg/kg	10	NONE	< 10	11

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





Analytical Report Number:21-72260Project / Site name:RichmondYour Order No:X

# **Certificate of Analysis - Asbestos Quantification**

## Methods:

## **Qualitative Analysis**

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

## **Quantitative Analysis**

The analysis was carried out using our documented in-house method A006-PL based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
1856421	WS2	0.20-0.45	165	Loose Fibrous Debris	Crocidolite	0.006	0.006
1856426	WS6	0.40	220	Loose Fibrous Debris	Chrysotile	< 0.001	< 0.001
1856430	WS8	0.40	158	Hard/Cement Type Material	Chrysotile	3.127	3.13

Both Qualitative and Quantitative Analyses are UKAS accredited.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.





## Analytical Report Number : 21-72260

# Project / Site name: Richmond

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1856420	WS1	None Supplied	0.4	Brown sandy loam with gravel and vegetation.
1856421	WS2	None Supplied	0.20-0.45	Brown sandy loam with gravel and vegetation.
1856422	WS2	None Supplied	1	Brown clay and sand with gravel.
1856423	WS4	None Supplied	0.4	Brown clay and loam with gravel and vegetation.
1856424	WS5	None Supplied	0.4	Brown clay and loam with gravel and brick.
1856425	WS5	None Supplied	1	Brown clay and loam.
1856426	WS6	None Supplied	0.4	Brown loam and clay with gravel and vegetation.
1856428	WS7	None Supplied	0.4	Brown sandy loam with gravel and vegetation.
1856430	WS8	None Supplied	0.4	Brown sandy loam with gravel.
1856431	WS9	None Supplied	0.4	Brown loam and clay with gravel.
1856432	WS10	None Supplied	0.4	Brown loam and clay with gravel and brick.
1856433	WS11	None Supplied	0.4	Brown loam and clay with gravel and brick.
1856434	WS12	None Supplied	0.4	Brown loam and clay with gravel and vegetation.
1856435	WS13	None Supplied	0.4	Brown loam and clay with gravel and brick.
1856436	WS13	None Supplied	1	Brown loam and clay with gravel and vegetation.
1856437	WS14	None Supplied	0.4	Brown clay and loam with gravel.
1856438	WS15	None Supplied	0.4	Brown loam and clay with gravel and vegetation.
1856439	WS16	None Supplied	0.4	Brown sandy clay with gravel and vegetation.
1856440	WS17	None Supplied	0.4	Brown sandy clay with gravel and vegetation.
1856441	WS18	None Supplied	0.4	Brown sandy clay with gravel and vegetation.





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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.		L080-PL	w	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.		L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE

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

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

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





Steve Rhodes Enzygo Geoenvironmental Ltd The Byre Woodend Lane Cromhall Gloucestershire GL12 8AA

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e: steve.rhodes@enzygo.com

# Analytical Report Number : 21-72267

Project / Site name:	Richmond	Samples received on:	29/04/2021
Your job number:	CRM.1265.087	Samples instructed on/ Analysis started on:	30/04/2021
Your order number:		Analysis completed by:	12/05/2021
Report Issue Number:	1	Report issued on:	12/05/2021
Samples Analysed:	5 wac multi samples		

Signed: <

Zina Abdul Razzak Senior Quality Specialist **For & on behalf of i2 Analytical Ltd.** 

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland. Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation. Standard sample disposal times, unless otherwise agreed with the laboratory, are : Standard sample disposal times, unless otherwise agreed with the laboratory, are : Standard sample disposal times, unless otherwise agreed with the laboratory, are : Standard sample disposal times, unless otherwise agreed with the laboratory, are : Standard sample disposal times, unless otherwise agreed with the laboratory, are : Standard sample disposal times, unless otherwise agreed with the laboratory, are : Standard sample disposal times, unless otherwise agreed with the laboratory, are : Standard sample disposal times, unless otherwise agreed with the laboratory, are : Standard sample disposal times, unless otherwise agreed with the laboratory, are : Standard sample disposal times, unless otherwise agreed with the laboratory, are : Standard sample disposal times, unless otherwise agreed with the laboratory, are : Standard sample disposal times, unless otherwise agreed with the laboratory, are : Standard sample disposal times, unless otherwise agreed with the laboratory, are : Standard sample disposal times, unless otherwise agreed with the laboratory, are : Standard sample disposal times, unless otherwise agreed with the laboratory, are : Standard sample disposal times, unless otherwise agreed with the laboratory, are : Standard sample disposal times, unless otherwise agreed with the laboratory, are : Standard sample disposal times, unless otherwise agreed with the laboratory, are : Standard sample disposal times, unless otherwise agreed with the laboratory, are : Standard sample disposal times, unless otherwise agreed with the laboratory, are : Standard sample disposal times, unless otherwise agreed with the laboratory, are : Standard sample disposa

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





## i2 Analytical

7 Woodshots Meadow Croxley Green Business Park Watford, WD18 8YS Telephone: 01923 225404 Fax: 01923 237404 email:reception@i2analytical.com

Report No:		21-72	267			
				Client:	ENZYGOGEC	)
Location		Richm	ond	1 101		
Lab Reference (Sample Number)	1856455			Landfill	Waste Acceptane	ce Criteria
Sampling Date	28/04/2021				Stable Non-	
Sample ID		WS			reactive	
Depth (m)		0.40	Inert Waste Landfill	HAZARDOUS waste in non- hazardous Landfill	Hazardous Waste Landfil	
Solid Waste Analysis						
OC (%)**	1.4			3%	5%	6%
oss on Ignition (%) **	3.7					10%
TEX (μg/kg) **	< 10			6000		
um of PCBs (mg/kg) **	< 0.30			1		
1ineral Oil (mg/kg) #	95			500		
otal PAH (WAC-17) (mg/kg)	81.9			100		
H (units)**	7.9	<b>├</b> ───┼			>6	
cid Neutralisation Capacity (mol / kg)	3.8				To be evaluated	To be evaluated
luate Analysis	2:1	8:1	Cumulative	10.1	es for compliance l	
BS EN 12457 - 3 preparation utilising end over end leaching rocedure)	mg/l	mg/l	mg/kg	using BS Ef	N 12457-3 at L/S 10	) l/kg (mg/kg)
rsenic *	< 0.010	< 0.010	0.080	0.5	2	25
arium *	0.023	0.043	0.41	20	100	300
admium *	< 0.0005	< 0.0005	0.0035		1	5
Chromium *	< 0.0010	0.0010	0.0095	0.5	10	70
Copper *	0.032	0.026	0.26	2	50	100
lercury *	< 0.0015	< 0.0015	< 0.01	0.01	0.2	2
10lybdenum *	< 0.0030	< 0.0030	< 0.02	0.5	10	30
lickel *	0.0068	0.0058	0.059	0.4	10	40
ead *	0.0098	0.057	0.52	0.5	10	50
ntimony *	0.014	0.0060	0.069	0.06	0.7	5
elenium *	< 0.010	< 0.010	0.049	0.1	0.5	7
inc *	0.017	0.0398	0.37	4	50	200
Chloride *	< 4.0	< 4.0	38	800	15000	25000
luoride	0.76	0.59	6.1	10	150	500
ulphate *	5.6	6.6	65	1000	20000	50000
DS*	91	60	630	4000	60000	100000
henol Index (Monohydric Phenols) *	< 0.13	< 0.13	< 0.50	1	-	-
000	15	23	220	500	800	1000
each Test Information						
tone Content (%)	< 0.1	ļ Ī			<u> </u>	
ample Mass (kg)	1.2					
Ory Matter (%)	92	ļ				
loisture (%)	8.3	<b>├</b> ──── <b>├</b>				
stage 1		<b>├</b> ───┤			+	
folume Eluate L2 (litres)	0.34	┟────┤				
iltered Eluate VE1 (litres)	0.19					
tesults are expressed on a dry weight basis, after correction for moi	sture content whe	re applicable.		*= UKAS accredi	ted (liquid eluate ana	alysis only)
tated limits are for guidance only and i2 cannot be held responsible			ation	** = MCERTS acc		,

amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.





## i2 Analytical

7 Woodshots Meadow Croxley Green Business Park Watford, WD18 8YS Telephone: 01923 225404 Fax: 01923 237404 email:reception@i2analytical.com

Report No:		21-7226	,			
				Client:	ENZYGOGEO	1
Location		Richmon	1			
				Landfill Waste Acceptance Criteria		
Lab Reference (Sample Number)	1856456				Limits	
Sampling Date		28/04/202	1		Stable Non-	
Sample ID	WS6 1.00			Inort Wasto	reactive	Hazardouc
Depth (m)				Inert Waste Landfill	HAZARDOUS waste in non- hazardous Landfill	Hazardous Waste Landfill
Solid Waste Analysis						
FOC (%)**	0.4			3%	5%	6%
loss on Ignition (%) **	2.2					10%
3TEX (μg/kg) **	< 10			6000		
Sum of PCBs (mg/kg) **	< 0.30			1		
Mineral Oil (mg/kg) #	49			500		
Total PAH (WAC-17) (mg/kg)	< 0.85			100		
pH (units)**	7.5				>6	
Acid Neutralisation Capacity (mol / kg)	1.7				To be evaluated	To be evaluate
Eluate Analysis	2:1	8:1	Cumulative 10:1	Limit value	es for compliance le	eaching test
BS EN 12457 - 3 preparation utilising end over end leaching	2:1	8:1	Cumulative 10:1		12457-3 at L/S 10	
procedure)	mg/l	mg/l	mg/kg			
Arsenic *	< 0.010	< 0.010	< 0.050	0.5	2	25
Barium *	0.0058	0.029	0.27	20	100	300
Cadmium *	< 0.0005	< 0.0005	< 0.0020	0.04	1	5
Chromium *	< 0.0010	< 0.0010	< 0.0050	0.5	10	70
Copper *	0.0086	0.0067	0.069	2	50	100
fercury *	< 0.0015	< 0.0015	< 0.010	0.01	0.2	2
10lybdenum *	< 0.0030	< 0.0030	< 0.020	0.5	10	30
Nickel *	0.013	0.0040	0.047	0.4	10	40
.ead *	< 0.0050	< 0.0050	< 0.020	0.5	10	50
Antimony *	< 0.0050	< 0.0050	< 0.020	0.06	0.7	5
Selenium *	< 0.010	< 0.010	< 0.040	0.1	0.5	7
linc *	0.014	0.0067	0.074	4	50	200
Chloride *	< 4.0	4.7	45	800	15000	25000
Fluoride	0.15	0.16	1.6	10	150	500
Sulphate *	7.4	5.1	53	1000	20000	50000
۲DS*	45	34	350	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.13	< 0.13	< 0.50	1	-	-
DOC	8.6	21	200	500	800	1000
each Test Information						
Stone Content (%)	< 0.1					
Sample Mass (kg)	0.80					
Dry Matter (%)	86				ļ	
loisture (%)	14					
Stage 1					<u> </u>	
/olume Eluate L2 (litres)	0.32					
Filtered Eluate VE1 (litres)	0.15					
tesults are expressed on a dry weight basis, after correction for moi	sture content when	e applicable.		*= UKAS accredit	ed (liquid eluate and	lysis only)
		cies with current legislatio		** = MCERTS acc		

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

#### i2 Analytical

7 Woodshots Meadow

Croxley Green Business Park

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Watford, WD18 8YS

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Waste Acceptance Criteria Analytical Report No:		21-7226	7					
				Client:	ENZYGOGEC	<b>`</b>		
				Client:	ENZIGUGEU	,		
Location		Richmor	d					
				Landfill	Landfill Waste Acceptance Criteria			
Lab Reference (Sample Number)	1856457				Limits			
Sampling Date		28/04/202	21		Stable Non- reactive			
Sample ID		WS8		Inert Waste	HAZARDOUS	Hazardous		
Depth (m)		1.00	Landfill	hazardous Landfill	Waste Landfil			
Solid Waste Analysis								
TOC (%)**	0.6			3%	5%	6%		
Loss on Ignition (%) **	2.2					10%		
BTEX (µg/kg) **	< 10			6000				
Sum of PCBs (mg/kg) **	< 0.30			1				
Mineral Oil (mg/kg) #	< 10			500				
Total PAH (WAC-17) (mg/kg)	< 0.85			100				
pH (units)**	7.6				>6			
Acid Neutralisation Capacity (mol / kg)	1.4				To be evaluated	To be evaluat		
Eluate Analysis	2:1	8:1	Cumulative 10:1	Limit valu	es for compliance l	eaching test		
(BS EN 12457 - 3 preparation utilising end over end leaching	2.1	0.1	Culturative 10.1	using BS EN	12457-3 at L/S 10	) l/kg (mg/kg)		
procedure)	mg/l	mg/l	mg/kg					
Arsenic *	< 0.010	< 0.010	< 0.050	0.5	2	25		
Barium *	0.0075	0.031	0.29	20	100	300		
Cadmium *	< 0.0005	< 0.0005	< 0.0020	0.04	1	5		
Chromium *	< 0.0010	< 0.0010	0.0090	0.5	10	70		
Copper *	0.0047	0.017	0.16	2	50	100		
Mercury *	< 0.0015	< 0.0015	< 0.010	0.01	0.2	2		
Molybdenum *	< 0.0030	< 0.0030	< 0.020	0.5	10	30		
Nickel *	0.0042	0.0044	0.044	0.4	10	40		
Lead *	< 0.0050	< 0.0050	< 0.020	0.5	10	50		
Antimony *	< 0.0050	< 0.0050	< 0.020	0.06	0.7	5		
Selenium *	< 0.010	< 0.010	0.046	0.1	0.5	7		
Zinc *	0.013	0.0128	0.13	4	50	200		
Chloride *	< 4.0	4.2	41	800	15000	25000		
Fluoride	0.27	0.24	2.5	10	150	500		
Sulphate *	4.4	6.1	60	1000	20000	50000		
TDS*	52	39	400	4000	60000	100000		
Phenol Index (Monohydric Phenols) *	< 0.13	< 0.13	< 0.50	1	-	-		
200	9.1	19	180	500	800	1000		
Leach Test Information								
Stone Content (%)	< 0.1				1			
Sample Mass (kg)	0.80							
Dry Matter (%)	87							
Moisture (%)	13							
Stage 1								
/olume Eluate L2 (litres)	0.32			ļ		ļ		
Filtered Eluate VE1 (litres)	0.14							
Results are expressed on a dry weight basis, after correction for mo	isture content wher	e applicable.	1	*= UKAS accredi	ted (liquid eluate and	alysis only)		
Stated limits are for guidance only and i2 cannot be held responsible				** = MCERTS acc				

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.

This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

i2 Analytical

7 Woodshots Meadow Croxley Green Business Park Watford, WD18 8YS Telephone: 01923 225404 Fax: 01923 237404 email:reception@i2analytical.com

Waste Acceptance Criteria Analytical Results
Report No:

21-72267





				Client:	ENZYGOGEC	
				chent.	LINZIGUGLU	,
Location		Richmo	nd	_		
Lab Reference (Sample Number)	1856458			Landfill	Waste Acceptan	ce Criteria
	28/04/2021				Limits Stable Non-	
Sampling Date Sample ID		28/04/20 WS10	21	-	reactive	
Sample ID		1010		Inert Waste	HAZARDOUS	Hazardous
Depth (m)		0.40		Landfill	waste in non- hazardous Landfill	Waste Landfi
Solid Waste Analysis						
TOC (%)**	0.7			3%	5%	6%
Loss on Ignition (%) **	2.3					10%
BTEX (µg/kg) **	< 10			6000		
Sum of PCBs (mg/kg) **	< 0.30			1		
Mineral Oil (mg/kg) #	< 10	-		500		
Total PAH (WAC-17) (mg/kg)	3.71	-		100		
pH (units)**	8.1				>6	
Acid Neutralisation Capacity (mol / kg)	7.5				To be evaluated	To be evaluat
Eluate Analysis	2:1	8:1	Cumulative 10:	Limit valu	es for compliance l	eaching test
(PC EN 124EZ - 2 proposition utilizing and over and leaching	2.1	0.1	Cumulative 10.		12457-3 at L/S 10	) l/kg (mg/kg)
(BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l	mg/l	mg/kg	_		
Arsenic *	< 0.010	< 0.010	< 0.050	0.5	2	25
Barium *	0.020	0.023	0.23	20	100	300
Cadmium *	< 0.0005	< 0.0005	0.0032	0.04	1	5
Chromium *	0.0072	0.012	0.11	0.5	10	70
Copper *	0.012	0.018	0.17	2	50	100
Mercury *	< 0.0015	< 0.0015	< 0.010	0.01	0.2	2
Molybdenum *	< 0.0030	< 0.0030	< 0.020	0.5	10	30
Nickel *	0.0031	0.0043	0.042	0.4	10	40
Lead *	< 0.0050	0.026	0.23	0.5	10	50
Antimony *	0.011	< 0.0050	0.042	0.06	0.7	5
Selenium *	< 0.010	< 0.010	0.052	0.1	0.5	7
Zinc *	0.0079	0.0285	0.26	4	50	200
Chloride * Fluoride	< 4.0 0.54	< 4.0 0.40	35 4.1	800 10	15000 150	25000 500
		23	4.1	10	20000	
Sulphate * TDS*	9.3 94	80	820	4000	60000	50000 100000
Phenol Index (Monohydric Phenols) *	< 0.13	< 0.13	< 0.50	1	-	-
DOC	8.0	13	120	500	800	1000
Leach Test Information						
Stone Content (%)	< 0.1	<u> </u>		1		
Sample Mass (kg)	1.2			1	1	
Dry Matter (%)	91				1	
Moisture (%)	9.3			1	İ	
Stage 1						
Volume Eluate L2 (litres)	0.33					
Filtered Eluate VE1 (litres)	0.20				1	
· ·						
						L
Results are expressed on a dry weight basis, after correction for mo				*= UKAS accredi	ted (liquid eluate and	aysis only)
Stated limits are for guidance only and i2 cannot be held responsible	e for any discrepend	ies with current legisla	tion	** = MCERTS acc	redited	

s (sp illy ng s) by e (Engl s) eg iiys amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

# i2 Analytical

7 Woodshots Meadow Croxley Green Business Park Watford, WD18 8YS

Telephone: 01923 225404 Fax: 01923 237404 email:reception@i2analytical.com

Waste Acceptance Criteria Analytical Results								
Report No:	21-72267							
		Client:	ENZYGOGEO					





Location	Richmond				Landfill Waste Acceptance Criteria				
Lab Reference (Sample Number)		1856	459	Landfill	Landfill Waste Acceptance Criteria Limits				
Compling Data				_	Stable Non-				
Sampling Date Sample ID Depth (m)	28/04/2021 WS18 0.40				reactive HAZARDOUS waste in non- hazardous Landfill	Hazardous Waste Landfill			
Solid Waste Analysis									
TOC (%)**	0.9			3%	5%	6%			
Loss on Ignition (%) **	3.0					10%			
BTEX (µg/kg) **	< 10			6000					
Sum of PCBs (mg/kg) **	< 0.30			1					
Mineral Oil (mg/kg) #	< 10			500					
Total PAH (WAC-17) (mg/kg)	10.4			100					
pH (units)**	7.4				>6				
Acid Neutralisation Capacity (mol / kg)	1.1				To be evaluated	To be evaluate			
Eluate Analysis	2:1	8:1	Cumulative	10:1	es for compliance I				
(BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l	mg/l	mg/kg	using BS EN	12457-3 at L/S 10	) I/kg (mg/kg)			
Arsenic *	< 0.010	< 0.010	< 0.050	0.5	2	25			
Barium *	0.017	0.019	0.18	20	100	300			
Cadmium *	< 0.0005	< 0.0005	0.0025	0.04	1	5			
Chromium *	< 0.0010	< 0.0010	0.0099	0.5	10	70			
Copper *	0.021	0.016	0.16	2	50	100			
Mercury *	< 0.0015	< 0.0015	< 0.010		0.2	2			
Molybdenum *	< 0.0010	< 0.0015	< 0.020		10	30			
Nickel *	0.0092	0.0046	0.051	0.4	10	40			
Lead *	< 0.0050	0.0072	0.070	0.5	10	50			
Antimony *	0.024	0.0058	0.075	0.06	0.7	5			
Selenium *	< 0.010	< 0.010	< 0.040		0.5	7			
Zinc *	0.0099	0.0230	0.22	4	50	200			
Chloride *	< 4.0	< 4.0	33	800	15000	25000			
Fluoride	0.58	0.45	4.6	10	150	500			
Sulphate *	5.3	8.5	82	1000	20000	50000			
TDS*	95	72	740	4000	60000	100000			
Phenol Index (Monohydric Phenols) *	< 0.13	< 0.13	< 0.50	1	-	-			
DOC	13	17	170	500	800	1000			
Leach Test Information									
Stone Content (%)	< 0.1					<u> </u>			
Sample Mass (kg)	1.0								
Dry Matter (%)	94								
Moisture (%)	6.1								
Stage 1									
Volume Eluate L2 (litres)	0.34								
Filtered Eluate VE1 (litres)	0.16								
Results are expressed on a dry weight basis, after correction for mo	isture contont when	e applicable		*=   KAC accord	ted (liquid eluate an	alveis only)			
Stated limits are for guidance only and i2 cannot be held responsible			slation	*= UKAS accredit ** = MCERTS acc					
Landfill WAC analysis (specifically leaching test results) must	not be used for b	azardous wasto dar	critication numbers as defined			lations 2011 (ac			

This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.





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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1856455	WS1	None Supplied	0.4	Brown sandy loam with gravel and vegetation.
1856456	WS6	None Supplied	1	Brown clay and sand.
1856457	WS8	None Supplied	1	Brown clay.
1856458	WS10	None Supplied	0.4	Brown loam and clay with gravel and brick.
1856459	WS18	None Supplied	0.4	Brown sandy clay with gravel and vegetation.





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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status	
loisture Content Moisture content, determined gravimetrically. (30 oC)		In house method.	L019-UK/PL	W	NONE	
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE	
Preparation WAC leachate		In-house method	L043-PL	W	NONE	
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270. MCERTS accredited except Coronene.	L064-PL	D	MCERTS	
Chloride in WAC leachate (BS EN 12457-3 Prep)	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260.	L082-PL	w	ISO 17025	
Fluoride in WAC leachate (BS EN 12457-3 Prep)	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L033-PL	w	ISO 17025	
Phenol Index in WAC leachate (BS EN 12457-3 Prep)	Determination of monohydric phenols in leachate by continuous flow analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	w	ISO 17025	
Sulphate in WAC leachate (BS EN 12457-3 Prep)	Determination of sulphate in leachate by acidification followed by ICP-OES.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039-PL	w	ISO 17025	
TDS in WAC leachate (BS EN 12457-3 Prep)	Determination of total dissolved solids in leachate by electrometric measurement.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L031-PL	w	NONE	
DOC in WAC leachate (BS EN 12457-3 Prep)	Determination of dissolved organic carbon in leachate by TOC/DOC NDIR analyser.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L037-PL	w	NONE	
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe.	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046-PL	w	NONE	
Loss on ignition of soil @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace.	In house method.	L047-PL	D	MCERTS	
Mineral Oil in Soil C10 - C40	Determination of dichloromethane/hexane extractable hydrocarbons in soil by GC-MS.	In-house method based on USEPA 8270	L076-PL	D	NONE	
pH in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In house method.	L005-PL	w	MCERTS	
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L023-PL	D	MCERTS	
Metals in WAC leachate (BS EN 12457-3 Prep)	termination of metals in leachate by acidification lowed by ICP-OES. In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.		L039-PL	w	ISO 17025	
PCB's by GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS	





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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BTEX (Sum of BTEX compounds) in soil	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L073B-PL	W	MCERTS

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

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

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



**Steve Rhodes** Enzygo Geoenvironmental Ltd The Byre Woodend Lane Cromhall Gloucestershire GL12 8AA



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## Analytical Report Number : 21-18748

Project / Site name:	Richmond	Samples received on:	26/10/2021
Your job number:	CRM 1265 087	Samples instructed on/ Analysis started on:	26/10/2021
Your order number:		Analysis completed by:	02/11/2021
Report Issue Number:	1	Report issued on:	02/11/2021
Samples Analysed:	6 soil samples		

Signed: Keroline Harel

Karolina Marek PL Head of Reporting Team For & on behalf of i2 Analytical Ltd.

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

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

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

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

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

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





Lab Sample Number				2060566	2060567	2060568	2060569	2060570
Sample Reference	WS101	WS102	WS103	WS104	WS105			
				None Supplied				
Depth (m)				0.30-0.50	0.30-0.40	0.30-0.45	0.30-0.50	0.35-0.45
Date Sampled				25/10/2021	25/10/2021	25/10/2021	25/10/2021	25/10/2021
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	12	15	16	10	6.6
Total mass of sample received	kg	0.001	NONE	1.0	1.0	1.0	1.0	1.0
Asbestos in Soil	Туре	N/A	ISO 17025	Not detected				
Aspestos III Soli	.,pc	,//	100 17020	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	10.3	9.8	8.9	10.8	11.1
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.9	1.1	1.7	1.2	1.5
Total Phenols		-	-		-	-	-	
Total Phenois Total Phenois (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	5. 5			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.33	< 0.05	0.28	0.37
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.28	0.48	< 0.05	0.59	0.50
Pyrene	mg/kg	0.05	MCERTS	0.30	0.57	< 0.05	0.50	0.49
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.28	0.66	< 0.05	0.43	0.37
Chrysene	mg/kg	0.05	MCERTS	0.20	0.49	< 0.05	0.39	0.33
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	1.1	< 0.05	0.43	0.29
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.74	< 0.05	0.26	0.24
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	1.3	< 0.05	0.34	0.30
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.72	< 0.05	0.27	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.91	< 0.05	0.33	< 0.05
Total PAH		<b>B</b>						
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	1.06	7.35	< 0.80	3.82	2.89
		-	•		•	-	-	-
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	19	18	30	83	23
Boron (water soluble)	mg/kg	0.2	MCERTS	0.7	0.7	1.7	14	2.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	37	25	35	64	32
Copper (aqua regia extractable)	mg/kg	1	MCERTS	470	28	79	340	180
Lead (aqua regia extractable)	mg/kg	1	MCERTS	180	1400	130	510	320
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	1.1	< 0.3	0.6	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	35	17	44	34	30
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (agua regia extractable)	mg/kg	1	MCERTS	470	230	110	340	260





Lab Sample Number				2060566	2060567	2060568	2060569	2060570
Sample Reference				WS101	WS102	WS103	WS104	WS105
Sample Number				None Supplied				
Depth (m)				0.30-0.50	0.30-0.40	0.30-0.45	0.30-0.50	0.35-0.45
Date Sampled				25/10/2021	25/10/2021	25/10/2021	25/10/2021	25/10/2021
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Petroleum Hydrocarbons	-		-	-				
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	5.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	68	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	82	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	36	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	17	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	190	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	210	< 10	< 10
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	13	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	58	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	30	50	< 10	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	27	38	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	36	120	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	< 10	63	160	< 10	< 10
TPH (>C5 - C7)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (>C7 - C8)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0	5.0	< 2.0	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	< 4.0	82	< 4.0	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	< 1.0	6.2	140	< 1.0	< 1.0
TPH (C21 - C35)	mg/kg	1	MCERTS	< 1.0	30	86	< 1.0	< 1.0
TPH (C35 - C44)	mg/kg	10	NONE	< 10	27	55	< 10	< 10
TPH Total C5 - C44	mg/kg	10	NONE	< 10	63	370	< 10	< 10





Lab Sample Number				2060571
Sample Reference				WS106
Sample Number	None Supplied			
Depth (m)	0.30-0.40			
Date Sampled				25/10/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	9.9
Total mass of sample received	kg	0.001	NONE	1.0
	True	NI/A	100 17025	
Asbestos in Soil	Туре	N/A	ISO 17025	Not-detected
General Inorganics				
pH - Automated	pH Units	N/A	MCERTS	10.3
Total Organic Carbon (TOC)	%	0.1	MCERTS	1.0
Total Phenols Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0
	5, 5			< 1.0
Speciated PAHs		0.05	MOEDTO	0.05
Naphthalene	mg/kg	0.05	MCERTS MCERTS	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthene	mg/kg mg/kg	0.05	MCERTS	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05 < 0.05
Anthracene Fluoranthene	mg/kg	0.05	MCERTS	0.33
Pyrene	mg/kg	0.05	MCERTS	0.35
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.33
Chrysene	mg/kg	0.05	MCERTS	0.21
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05
Denzo(gni)perviene				< 0.05
Total PAH				
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	1.10
Heavy Metals / Metalloids				
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8.4
Boron (water soluble)	mg/kg	0.2	MCERTS	3.1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0
Chromium (agua ragia ovtractablo)	mg/kg	1	MCERTS	< 1.0 2E

Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	25
Copper (aqua regia extractable)	mg/kg	1	MCERTS	17
Lead (aqua regia extractable)	mg/kg	1	MCERTS	45
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	17
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	49





Lab Sample Number				2060571
Sample Reference				WS106
Sample Number	None Supplied			
Depth (m)				0.30-0.40
Date Sampled				25/10/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Petroleum Hydrocarbons				_
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	13
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	23
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	13
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	36
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	32
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	62
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	35
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	96
TPH (>C5 - C7)	mg/kg	1	MCERTS	< 1.0
TPH (>C7 - C8)	mg/kg	1	MCERTS	< 1.0
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	2.5
TPH (C21 - C35)	mg/kg	1	MCERTS	45

NONE

NONE

85

130

mg/kg

mg/kg

10

10

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

TPH (C35 - C44)

TPH Total C5 - C44





### Analytical Report Number : 21-18748

## Project / Site name: Richmond

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2060566	WS101	None Supplied	0.30-0.50	Grey clay and sand with gravel.
2060567	WS102	None Supplied	0.30-0.40	Brown clay and sand with rubble.
2060568	WS103	None Supplied	0.30-0.45	Brown clay and sand with rubble.
2060569	WS104	None Supplied	0.30-0.50	Brown clay and sand with rubble.
2060570	WS105	None Supplied	0.35-0.45	Brown sand with rubble.
2060571	WS106	None Supplied	0.30-0.40	Brown sand with gravel and rubble.





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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status	
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS	
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025	
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS	
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS	
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE	
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodiun hydroxide followed by distillation followed by colorimetry.		L080-PL	w	MCERTS	
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS	
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS	
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE	
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS	
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS	
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE	
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE	

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom. For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland. Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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

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## Human Health Assessment Reference Values

	Units	GAC Value Residential					
Determinant		Wit	h Plant U			nout Plant	Uptake
Arsenic	mg/kg		37			40	
Cadmium	mg/kg		11		85		
Chromium	mg/kg		910			910	
Chromium VI	mg/kg		6			6	
Lead	mg/kg		200			310	
Mercury	mg/kg		40			56	
Nickel	mg/kg		180			180	
Selenium	mg/kg		250			430	
Copper	mg/kg		2400			7100	
Zinc	mg/kg		3700			40000	
Cyanide	mg/kg		791			800	
				-			
SOM	%	1	2.5	6	1	2.5	6
Phenol	mg/kg	120	200	380	440	690	1200
Napthalene	mg/kg	2.3	5.6	13	2.3	5.6	13
Acenaphtylene	mg/kg	170	420	920	2900	4600	6000
Acenaphthene	mg/kg	210	510	1100	3000	4700	6000
Flourene	mg/kg	170	400	860	2800	3800	4500
Phenanthrene	mg/kg	95	220	440	1300	1500	1500
Anthracene	mg/kg	2400	5400	11000	31000	35000	37000
Fluoranthene	mg/kg	280	560	890	1500	1600	1600
Pyrene	mg/kg	620	1200	2000	3700	3800	3800
Benzo(a)Anthracene	mg/kg	7.2	11	13	11	14	15
Chrysene	mg/kg	15	22	27	30	31	32
Benzo(b)Flouranthene	mg/kg	2.6	3.3	3.7	3.9	4.0	4.0
Benzo(k)Flouranthene	mg/kg	77	93	100	110	110	110
Benzo(a)Pyrene	mg/kg	2.2	2.7	3.0	3.2	3.2	3.2
Indeno(123-cd)Pyrene	mg/kg	27	36	41	45	46	46
Dibenzo(a,h)Anthracene	mg/kg	0.24	0.28	0.3	0.31	0.32	0.32
Benzo(ghi)Perylene	mg/kg	320	340	350	360	360	360
TPH C₅-C₅ Aliphatic	mg/kg	42	78	160	42	78	160
TPH C <sub>6</sub> -C <sub>8</sub> Aliphatic	mg/kg	100	230	530	100	230	530
TPH C <sub>8</sub> -C <sub>10</sub> Aliphatic	mg/kg	27	65	150	27	65	150
TPH C <sub>10</sub> -C <sub>12</sub> Aliphatic	mg/kg	130	330	760	130	330	770
TPH $C_{10}$ - $C_{16}$ Aliphatic	mg/kg	1100	2400	4300	1100	2400	4400
TPH C <sub>16</sub> -C <sub>35</sub> Aliphatic	mg/kg	65000	92000	110000	65000	92000	110000
TPH C <sub>16</sub> C <sub>35</sub> Aliphatic	mg/kg	65000	92000	110000	65000	92000	110000
	1116/16	05000	52000	110000	05000	52000	110000
TPH C₅-C7 Aromatic	mg/kg	70	140	300	370	690	1400
TPH C <sub>7</sub> -C <sub>8</sub> Aromatic	mg/kg	130	290	660	860	1800	3900
TPH C <sub>8</sub> -C <sub>10</sub> Aromatic	mg/kg	34	83	190	47	110	270
TPH C <sub>10</sub> -C <sub>12</sub> Aromatic	mg/kg	74	180	380	250	590	1200
TPH C <sub>12</sub> -C <sub>16</sub> Aromatic	mg/kg	140	330	660	1800	2300	2500
TPH C <sub>16</sub> -C <sub>21</sub> Aromatic	mg/kg	260	540	930	1900	1900	1900
TPH C <sub>21</sub> -C <sub>35</sub> Aromatic	mg/kg	1100	1500	1700	1900	1900	1900
TPH C <sub>35</sub> -C <sub>44</sub> Aromatic	mg/kg	1100	1500	1700	1900	1900	1900
		0.007	0.17	0.27	0.20	0.70	
Benzene	mg/kg	0.087	0.17	0.37	0.38	0.70	1.4
Toluene	mg/kg	130	290	660	880	1900	3900
Ethylebenzene	mg/kg	47	110	260	83	190	440
Xylene	mg/kg	56	130	310	79	180	430

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	Units	nits GAC Value					
Determinant		Re	sidential			Commerc	ial
Arsenic	mg/kg		79			640	
Cadmium	mg/kg	120		190			
Chromium	mg/kg		1500		8600		
Chromium VI	mg/kg	7.7		33			
Lead	mg/kg		630			2330	
Mercury	mg/kg		120			1100	
Nickel	mg/kg		230			980	
Selenium	mg/kg		1100			12000	
Copper	mg/kg		12000			68000	
Zinc	mg/kg		81000			730000	
Cyanide	mg/kg		N/A			16200	
		- 1	ī	r	1	r	
SOM	%	1	2.5	6	1	2.5	6
Phenol	mg/kg	440	690	1300	440	690	1300
Napthalene	mg/kg	4900	4900	4900	190	460	1100
Acenaphtylene	mg/kg	15000	15000	15000	83000	97000	100000
Acenaphthene	mg/kg	15000	15000	15000	84000	97000	100000
Flourene	mg/kg	9900	9900	9900	63000	68000	71000
Phenanthrene	mg/kg	3100	3100	3100	22000	22000	23000
Anthracene	mg/kg	74000	74000	74000	520000	540000	540000
Fluoranthene	mg/kg	3100	3100	3100	23000	23000	23000
Pyrene	mg/kg	7400	7400	7400	54000	54000	54000
Benzo(a)Anthracene	mg/kg	29	29	29	170	170	180
Chrysene	mg/kg	57	57	57	350	350	350
Benzo(b)Flouranthene	mg/kg	7.1	7.2	7.2	44	44	45
Benzo(k)Flouranthene	mg/kg	190	190	190	1200	1200	1200
Benzo(a)Pyrene	mg/kg	5.7	5.7	5.7	35	35	36
Indeno(123-cd)Pyrene	mg/kg	82	82	82	500	510	510
Dibenzo(a,h)Anthracene	mg/kg	0.57	0.57	0.58	3.5	3.6	3.6
Benzo(ghi)Perylene	mg/kg	640	640	640	3900	4000	4000
				I	T	Г П	
TPH C <sub>5</sub> -C <sub>6</sub> Aliphatic	mg/kg	570000	590000	600000	3200	5900	12000
TPH C <sub>6</sub> -C <sub>8</sub> Aliphatic	mg/kg	600000	610000	620000	7800	17000	40000
TPH C <sub>8</sub> -C <sub>10</sub> Aliphatic	mg/kg	13000	13000	13000	2000	4800	11000
TPH C <sub>10</sub> -C <sub>12</sub> Aliphatic	mg/kg	13000	13000	13000	9700	23000	47000
TPH C <sub>12</sub> -C <sub>16</sub> Aliphatic	mg/kg	13000	13000	13000	59000	82000	90000
TPH C <sub>16</sub> -C <sub>35</sub> Aliphatic	mg/kg	250000	250000	250000	1600000	1700000	1800000
TPH C <sub>35</sub> -C <sub>44</sub> Aliphatic	mg/kg	250000	250000	250000	1600000	1700000	1800000
	mg/kg	56000	56000	56000	26000	46000	86000
TPH C <sub>5</sub> -C <sub>7</sub> Aromatic	mg/kg	56000	56000	56000	56000	110000	180000
TPH $C_7$ - $C_8$ Aromatic TPH $C_8$ - $C_{10}$ Aromatic	mg/kg	5000	5000	5000	3500	8100	17000
	mg/kg	5000	5000	5000	16000	28000	34000
TPH C <sub>10</sub> -C <sub>12</sub> Aromatic	mg/kg	5100	5100	5000	36000	37000	38000
TPH C <sub>12</sub> -C <sub>16</sub> Aromatic	mg/kg	3800	3800	3800	28000	28000	28000
TPH C <sub>16</sub> -C <sub>21</sub> Aromatic	mg/kg	3800	3800	3800	28000	28000	28000
TPH C <sub>21</sub> -C <sub>35</sub> Aromatic	mg/kg	3800	3800	3800	28000	28000	28000
TPH C <sub>35</sub> -C <sub>44</sub> Aromatic	116/16	3000	3300		20000	20000	2000
Benzene	mg/kg	72	72	73	27	47	90
Toluene	mg/kg	56000	56000	56000	56000	110000	180000
Ethylebenzene	mg/kg	24000	24000	25000	5700	13000	27000
•		41000	42000	43000	5900	14000	30000

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<b>.</b>	Units			GA	C Value		
Determinant			Park PO	S		Allotmer	nts
Arsenic	mg/kg		170			43	
Cadmium	mg/kg		532			1.9	
Chromium	mg/kg		33000			18000	
Chromium VI	mg/kg		220			1.8	
Lead	mg/kg		1300			80	
Mercury	mg/kg		240			19	
Nickel	mg/kg		3400			230	
Selenium	mg/kg		1800			88	
Copper	mg/kg		44000			520	
Zinc	mg/kg		170000			620	
Cyanide	mg/kg						
•							
SOM	%	1	2.5	6	1	2.5	6
Phenol	mg/kg	440	690	1300	23	42	83
Napthalene	mg/kg	1200	1900	3000	4.1	10	24
Acenaphtylene	mg/kg	29000	30000	30000	28	69	160
Acenaphthene	mg/kg	29000	30000	30000	34	85	200
Flourene	mg/kg	20000	20000	20000	27	67	160
Phenanthrene	mg/kg	6200	6200	6300	15	38	90
Anthracene	mg/kg	150000	150000	150000	380	950	2200
Fluoranthene	mg/kg	6300	6300	6400	52	130	290
Pyrene	mg/kg	15000	15000	15000	110	270	620
Benzo(a)Anthracene	mg/kg	49	56	62	2.9	6.5	13
Chrysene	mg/kg	93	110	120	4.1	9.4	19
Benzo(b)Flouranthene	mg/kg	13	15	16	0.99	2.1	3.9
Benzo(k)Flouranthene	mg/kg	370	410	440	37	75	130
Benzo(a)Pyrene	mg/kg	11	12	13	0.97	2.0	3.5
Indeno(123-cd)Pyrene	mg/kg	150	170	180	9.5	21	39
Dibenzo(a,h)Anthracene	mg/kg	1.1	1.3	1.4	0.14	0.27	0.43
Benzo(ghi)Perylene	mg/kg	1400	1500	1600	290	470	640
TPH C <sub>5</sub> -C <sub>6</sub> Aliphatic	mg/kg	95000	130000	180000	730	1700	3900
TPH C <sub>6</sub> -C <sub>8</sub> Aliphatic	mg/kg	150000	220000	320000	2300	5600	13000
TPH C <sub>8</sub> -C <sub>10</sub> Aliphatic	mg/kg	14000	18000	21000	320	770	1700
TPH C <sub>10</sub> -C <sub>12</sub> Aliphatic	mg/kg	21000	23000	24000	2200	4400	7300
TPH C <sub>12</sub> -C <sub>16</sub> Aliphatic	mg/kg	25000	25000	26000	11000	13000	13000
TPH C <sub>16</sub> -C <sub>35</sub> Aliphatic	mg/kg	450000	480000	490000	260000	270000	270000
TPH C <sub>35</sub> -C <sub>44</sub> Aliphatic	mg/kg	450000	480000	490000	260000	270000	270000
TDULC C Aromatia	mg/kg	76000	84000	92000	13	27	57
TPH $C_5$ - $C_7$ Aromatic	mg/kg	87000	95000	100000	22	51	120
TPH C <sub>7</sub> -C <sub>8</sub> Aromatic TPH C <sub>8</sub> -C <sub>10</sub> Aromatic	mg/kg	7200	8500	9300	8.6	21	51
	mg/kg	9200	9700	10000	13	31	74
TPH $C_{10}$ - $C_{12}$ Aromatic	mg/kg	10000	10000	10000	23	57	130
TPH $C_{12}$ - $C_{16}$ Aromatic	mg/kg	7600	7700	7800	46	110	260
TPH C <sub>16</sub> -C <sub>21</sub> Aromatic	mg/kg	7800	7800	7900	370	820	1600
TPH C <sub>21</sub> -C <sub>35</sub> Aromatic	mg/kg	7800	7800	7900	370	820	1600
TPH C <sub>35</sub> -C <sub>44</sub> Aromatic	ing/ Kg	1			370	020	1000
Benzene	mg/kg	90	100	110	0.017	0.034	0.075
Toluene	mg/kg	87000	95000	100000	22	51	120
Ethylebenzene	mg/kg	17000	22000	27000	16	39	91
Xylene	mg/kg	17000	23000	31000	28	67	160

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### **Controlled Waters Assessment Reference Values**

Determinant	Unit	EQS Freshwater	Uk DWS	WHO
Arsenic	ug/l	50	10	10
Boron	ug/l	2000	1000	0.3
Cadmium	ug/l	5	5	3
Chromium	ug/l	5 - 250	50	50
Lead	ug/l	4 - 250	25	10
Mercury	ug/l	1	1	1
Selenium	ug/l		10	10
Copper	ug/l	1 - 28	20000	2000
Nickel	ug/l	50 - 200	20	70
Zinc	ug/l	8 - 50	5000	3000
Sulphate	mg/l	400	250	250
РАН	ug/l		0.1	
Anthracene	ug/l	0.02		
Napthalene	ug/l	10		
Benzo(a)Pyrene	ug/l	0.03		0.01
Fluoranthene	ug/l	0.02		
Benzene	ug/l	30	1	10
Toluene	ug/l	50		
Ethylebenzene	ug/l	20		
Xylene	ug/l	30		
, TPH	ug/l			
$C_5 - C_6$ Aliphatic	ug/l			15000
$C_6 - C_8$ Aliphatic	ug/l			15000
C <sub>8</sub> – C <sub>10</sub> Aliphatic	ug/l			300
C <sub>10</sub> – C <sub>12</sub> Aliphatic	ug/l			300
C <sub>12</sub> – C <sub>16</sub> Aliphatic	ug/l			300
C <sub>16</sub> – C <sub>36</sub> Aliphatic	ug/l			N/A
C <sub>6</sub> – C <sub>7</sub> Aromatic	ug/l			10
C <sub>7</sub> – C <sub>8</sub> Aromatic	ug/l	50		10
C <sub>8</sub> – C <sub>10</sub> Aromatic	ug/l	20		300
C <sub>10</sub> – C <sub>12</sub> Aromatic	ug/l			1000
C <sub>12</sub> – C <sub>16</sub> Aromatic	ug/l			1000
C <sub>16</sub> – C <sub>21</sub> Aromatic	ug/l			90
C <sub>21</sub> – C <sub>35</sub> Aromatic	ug/l			90





### Liquid and Plastic Limits

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

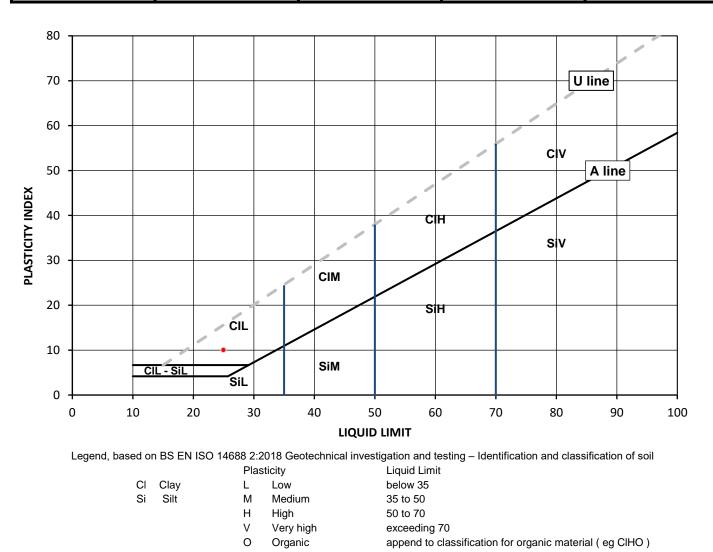


Tested in Accordance with: BS 1377-2: 1990: Clause 4.4 and 5

Client:	Enzygo Geoenvironmental Ltd	Client Reference:	CRM 1027 087
Client Address:	The Byre, Woodend Lane,	Job Number:	21-72520
	Cromhall, Gloucestershire,	Date Sampled:	28/04/2021
	GL12 8AA	Date Received:	27/04/2021
Contact:	Steve Rhodes	Date Tested:	19/05/2021
Site Address:	Richmond	Sampled By:	Client
Testing carried out at i	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland		
Test Results:			
Laboratory Reference:	1857736	Depth Top [m]:	1.00
Hole No.:	WS2	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Brown clayey SAND with fragments of rootlets		

Sample Preparation: Tested in natural condition

As Received Moisture	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [ W ] %	[ WL ] %	[ Wp ] %	[ lp ] %	BS Test Sieve
16	25	15	10	100



Remarks:			
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	Page 1 of 1	Date Reported: 24/05/2021	GF 2



### Liquid and Plastic Limits

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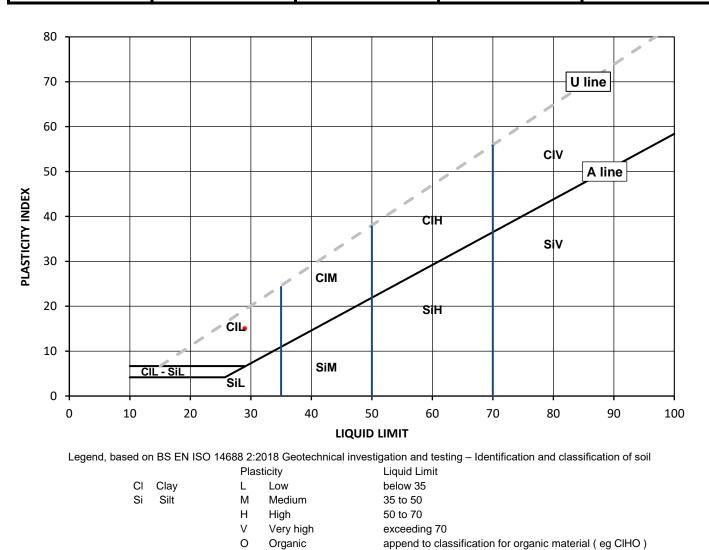


Tested in Accordance with: BS 1377-2: 1990: Clause 4.4 and 5

Client:	Enzygo Geoenvironmental Ltd	Client Reference: CRM 1027 087
Client Address:	The Byre, Woodend Lane,	Job Number: 21-72520
	Cromhall, Gloucestershire,	Date Sampled: 28/04/2021
	GL12 8AA	Date Received: 27/04/2021
Contact:	Steve Rhodes	Date Tested: 19/05/2021
Site Address:	Richmond	Sampled By: Client
Testing carried out at it	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland	
Test Results:		
Laboratory Reference:	1857737	Depth Top [m]: 2.00
Hole No.:	WS2	Depth Base [m]: Not Given
Sample Reference:	Not Given	Sample Type: D
Soil Description:	Yellowish brown very gravelly very sandy CLAY	

Sample Preparation: Tested after washing to remove >425um

As Received Moisture	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [ W ] %	[ WL ] %	[ Wp ] %	[ lp ] %	BS Test Sieve
8.2	29	14	15	29



Remarks:			
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raboratory. The results included within the report relate only to the sample(s) submitted for testing.	Page 1 of 1	Date Reported: 24/05/2021	GF 232.10



### Liquid and Plastic Limits

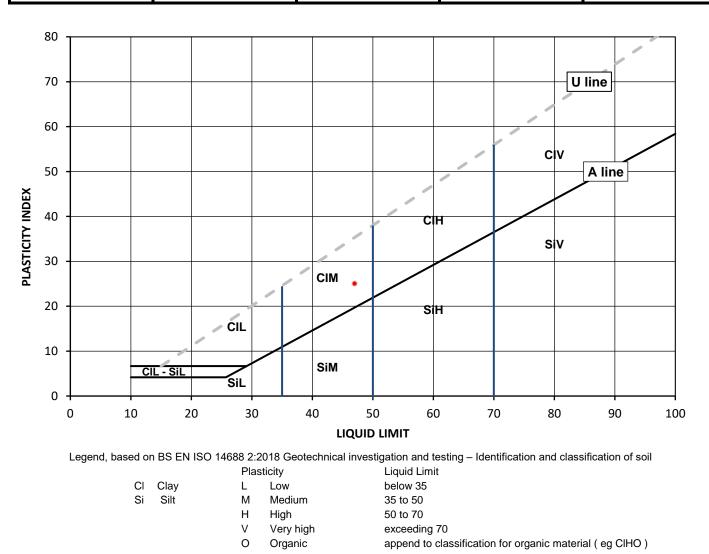
i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



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

Client:	Enzygo Geoenvironmental Ltd	Client Reference: CRM 1027 087
Client Address:	The Byre, Woodend Lane,	Job Number: 21-72520
	Cromhall, Gloucestershire,	Date Sampled: 28/04/2021
	GL12 8AA	Date Received: 27/04/2021
Contact:	Steve Rhodes	Date Tested: 19/05/2021
Site Address:	Richmond	Sampled By: Client
Testing carried out at it	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland	
Test Results:		
Laboratory Reference:	1857738	Depth Top [m]: 1.00
Hole No.:	WS4	Depth Base [m]: Not Given
Sample Reference:	Not Given	Sample Type: D
Soil Description:	Brown slightly sandy CLAY	
Sample Preparation:	Tested in natural condition	

As Received Moisture	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [ W ] %	[ WL ] %	[ Wp ] %	[ lp ] %	BS Test Sieve
22	47	22	25	100



Remarks:			
Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.	Signed: Sergen Inlatan	Szczepan Bielatowicz PL Deputy Head of Geotechnical Section for and on behalf of i2 Analytical Ltd	
	Page 1 of 1	Date Reported: 24/05/2021	GF 232.10



### Liquid and Plastic Limits

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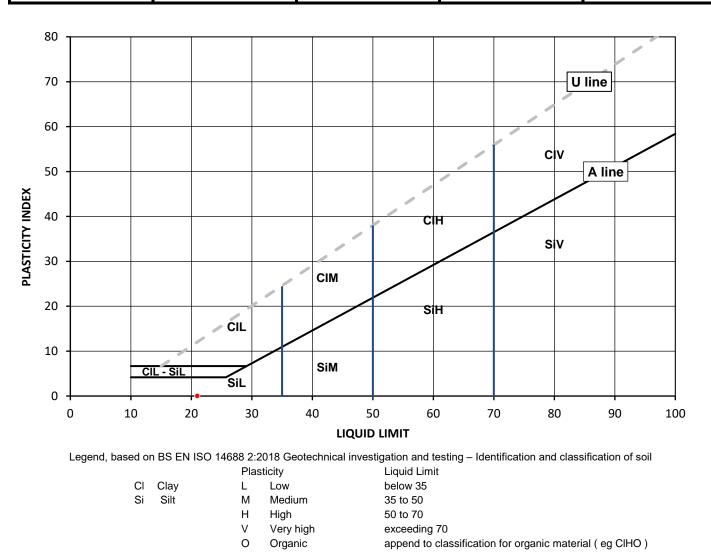


Tested in Accordance with: BS 1377-2: 1990: Clause 4.4 and 5

Client:	Enzygo Geoenvironmental Ltd	Client Reference:	CRM 1027 087
Client Address:	The Byre, Woodend Lane,	Job Number:	21-72520
	Cromhall, Gloucestershire,	Date Sampled:	28/04/2021
	GL12 8AA	Date Received:	27/04/2021
Contact:	Steve Rhodes	Date Tested:	19/05/2021
Site Address:	Richmond	Sampled By:	Client
Testing carried out at it	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland		
Test Results:			
Laboratory Reference:	1857739	Depth Top [m]:	2.00
Hole No.:	WS4	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Yellowish brown slightly gravelly slightly clayey SAND		

Sample Preparation: Tested after >425um removed by hand

As Received Moisture	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [ W ] %	[WL]%	[ Wp ] %	[ lp ] %	BS Test Sieve
13	21	NP	NP	68



Remarks:	NP - non plastic			
Opinions and interpre report may not be rep	tations expressed herein are outside of the scope of the UKAS Accreditation. This roduced other than in full without the prior written approval of the issuing s included within the report relate only to the sample(s) submitted for testing.	Signed: Engen Guldan	Szczepan Bielatowicz PL Deputy Head of Geotechnical Section for and on behalf of i2 Analytical Ltd	
aboratory. The result		Page 1 of 1	Date Reported: 24/05/2021	GF 232.10



#### Liquid and Plastic Limits

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

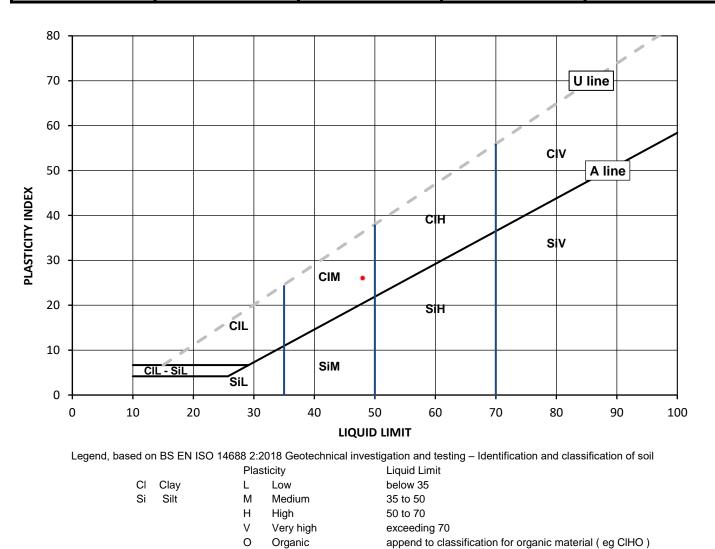


Tested in Accordance with: BS 1377-2: 1990: Clause 4.4 and 5

	rested in Accordance with Do 1677 2. 1550. Olduse 4.4 and 5		
Client:	Enzygo Geoenvironmental Ltd	Client Reference	CRM 1027 087
Client Address:	The Byre, Woodend Lane,	Job Number	21-72520
	Cromhall, Gloucestershire,	Date Sampled	28/04/2021
	GL12 8AA	Date Received	27/04/2021
Contact:	Steve Rhodes	Date Tested	19/05/2021
Site Address:	Richmond	Sampled By	Client
Testing carried out at it	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland		
Test Results:			
Laboratory Reference:	1857740	Depth Top [m]	: 1.00
Hole No.:	WS7	Depth Base [m]	Not Given
Sample Reference:	Not Given	Sample Type	D
Soil Description:	Dark brown slightly gravelly slightly sandy CLAY with fragments of flintstone		

Sample Preparation: Tested after >425um removed by hand

As Received Moisture	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [ W ] %	[WL]%	[ Wp ] %	[ lp ] %	BS Test Sieve
22	48	22	26	76



Remarks:			
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	Page 1 of 1	Date Reported: 24/05/2021	GF 232.10



### Liquid and Plastic Limits

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

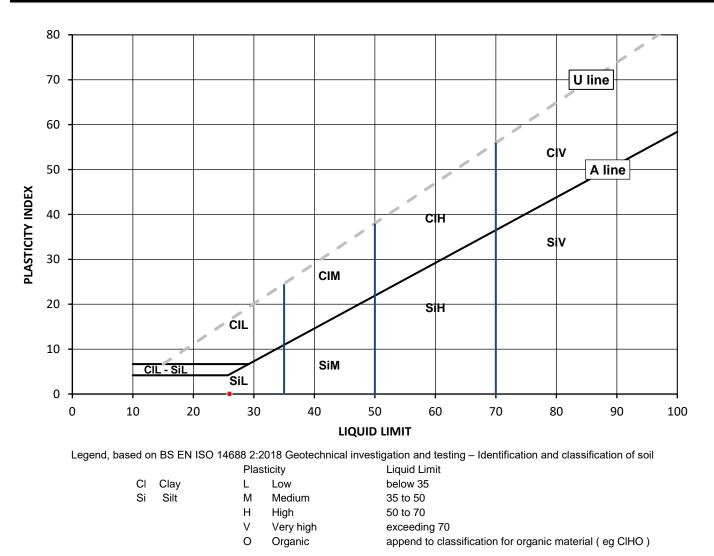


Tested in Accordance with: BS 1377-2: 1990: Clause 4.4 and 5

Client:	Enzygo Geoenvironmental Ltd	Client Reference:	CRM 1027 087
Client Address:	The Byre, Woodend Lane,	Job Number:	21-72520
	Cromhall, Gloucestershire,	Date Sampled:	28/04/2021
	GL12 8AA	Date Received:	27/04/2021
Contact:	Steve Rhodes	Date Tested:	19/05/2021
Site Address:	Richmond	Sampled By:	Client
Testing carried out at i	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland		
Test Results:			
Laboratory Reference:	1857741	Depth Top [m]:	2.00
Hole No.:	WS7	Depth Base [m]:	Not Given
	-		
Sample Reference:	Not Given	Sample Type:	D

Sample Preparation: Tested in natural condition

As Received Moisture	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [ W ] %	[ WL ] %	[ Wp ] %	[ lp ] %	BS Test Sieve
6.6	26	NP	NP	100



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

Remarks:	NP - non plastic			
report may not be rep	stations expressed herein are outside of the scope of the UKAS Accreditation. Thi produced other than in full without the prior written approval of the issuing is included within the report relate only to the sample(s) submitted for testing.	Signed: s <u>Sengun</u> Inlitan_	Szczepan Bielatowicz PL Deputy Head of Geotechnical Section for and on behalf of i2 Analytical Ltd	
	- · · · · · · · · · · · · · · · · · · ·	Page 1 of 1	Date Reported: 24/05/2021	GF 232.10



### Liquid and Plastic Limits

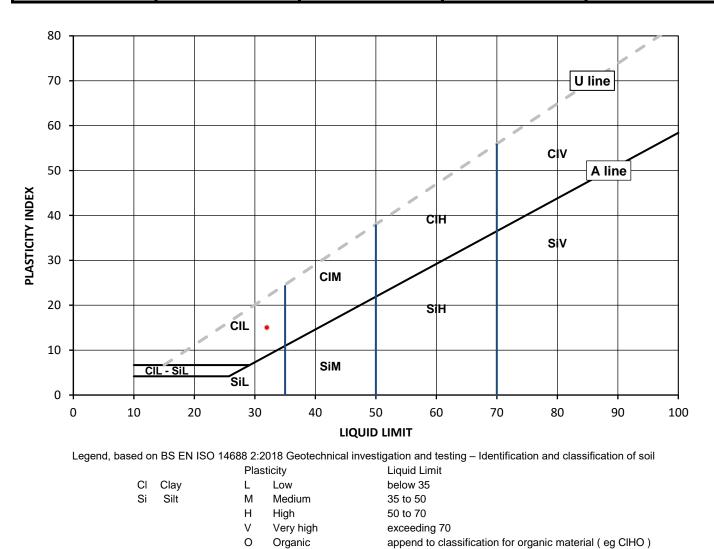
i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



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

4041	Tested in Accordance with: BS 13	77-2. 1990. Clause 4.4 and 5	
Client:	Enzygo Geoenvironmental Ltd	Client Reference:	CRM 1027 087
Client Address:	The Byre, Woodend Lane,	Job Number:	21-72520
	Cromhall, Gloucestershire,	Date Sampled:	28/04/2021
	GL12 8AA	Date Received:	27/04/2021
Contact:	Steve Rhodes	Date Tested:	19/05/2021
Site Address:	Richmond	Sampled By:	Client
Testing carried out at i2	? Analytical Limited, ul. Pionierow 39, 41-711 Ruda Sla	ska, Poland	
Test Results:			
Laboratory Reference:	1857742	Depth Top [m]:	1.00
Hole No.:	WS9	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Brown very sandy CLAY		
Sample Preparation:	Tested in natural condition		
As Reseived Meist	uro Liquid Limit Dioctio I	imit Placticity Index	% Dessing 425um

As Received Moisture	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [ W ] %	[WL]%	[ Wp ] %	[ lp ] %	BS Test Sieve
18	32	17	15	



Remarks:			
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	Page 1 of 1	Date Reported: 24/05/2021	GF



### Liquid and Plastic Limits

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

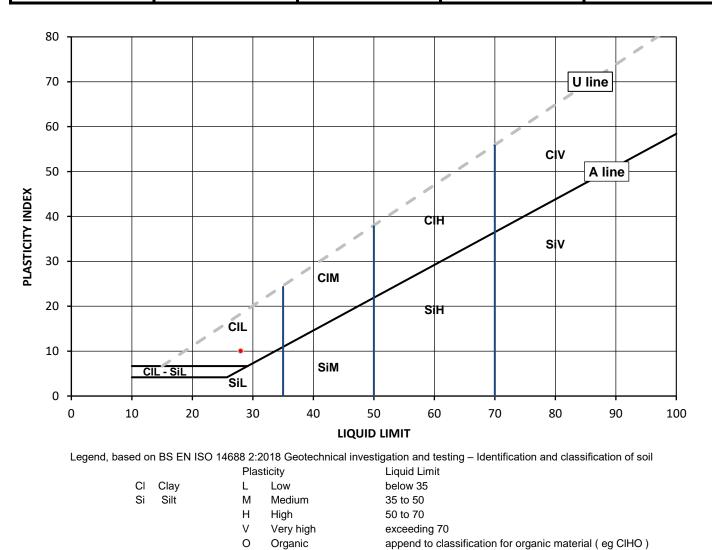


Tested in Accordance with: BS 1377-2: 1990: Clause 4.4 and 5

Client:	Enzygo Geoenvironmental Ltd	Client Reference: CRM 1027 087
Client Address:	The Byre, Woodend Lane,	Job Number: 21-72520
	Cromhall, Gloucestershire,	Date Sampled: 28/04/2021
	GL12 8AA	Date Received: 27/04/2021
Contact:	Steve Rhodes	Date Tested: 19/05/2021
Site Address:	Richmond	Sampled By: Client
Testing carried out at it	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland	
Test Results:		
Laboratory Reference:	1857743	Depth Top [m]: 2.00
Hole No.:	WS9	Depth Base [m]: Not Given
Sample Reference:	Not Given	Sample Type: D
Soil Description:	Light brown slightly gravelly very sandy CLAY	

Sample Preparation: Tested after >425um removed by hand

As Received Moisture	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [ W ] %	[ WL ] %	[ Wp ] %	[ lp ] %	BS Test Sieve
24	28	18	10	



Remarks:			
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	Page 1 of 1	Date Reported: 24/05/2021	GF 232.10

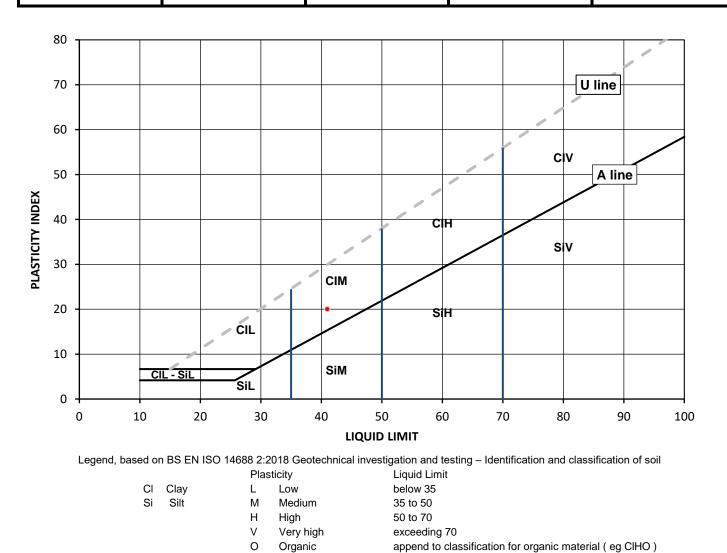


### Liquid and Plastic Limits

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



4041	Tested in Ac	ccordance with: BS 1377-2: 1990: Clau	use 4.4 and 5		
Client:	Enzygo Geoenvironmental Ltd		Client Refer	ence: CRM 1027 087	
Client Address:	The Byre, Woodend Lane,		Job Nu	mber: 21-72520	
	Cromhall, Gloucestershire,		Date San	npled: 28/04/2021	
	GL12 8AA		Date Rec	eived: 27/04/2021	
Contact:	Steve Rhodes		Date Te	ested: 19/05/2021	
Site Address:	Richmond		Sample	ed By: Client	
Testing carried out at it	2 Analytical Limited, ul. Pionierow 3	9, 41-711 Ruda Slaska, <u>P</u> oland			
Test Results:					
Laboratory Reference:	1857744		Depth To	p [m]: 1.00	
Hole No.:	WS11		Depth Bas	e [m]: Not Given	
Sample Reference:	Not Given		Sample Type: D		
Soil Description:	Light brown sandy CLAY				
Sample Preparation:	Tested in natural condition				
As Received Moist	ure Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm	
Content [ W ] %		[Wp]%	[ lp ] %	BS Test Sieve	
19	41	21	20	100	



Remarks:			
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	Page 1 of 1	Date Reported: 24/05/2021	GF 23



### Liquid and Plastic Limits

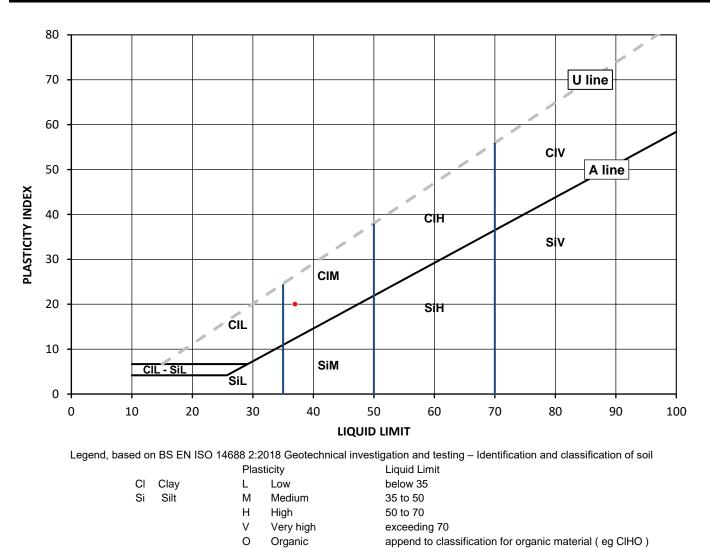
i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



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

4041	I ested in Acco	rdance with: BS 1377-2: 1990: Cla	use 4.4 and 5	
Client:	Enzygo Geoenvironmental Ltd		Client Refere	nce: CRM 1027 087
Client Address:	The Byre, Woodend Lane,		Job Num	ber: 21-72520
	Cromhall, Gloucestershire,		Date Sam	oled: 28/04/2021
	GL12 8AA		Date Recei	ved: 27/04/2021
Contact:	Steve Rhodes		Date Tes	sted: 19/05/2021
Site Address:	Richmond		Sampleo	By: Client
Testing carried out at i.	2 Analytical Limited, ul. Pionierow 39,	41-711 Ruda Slaska, Poland		-
Test Results:				
Laboratory Reference:	1857745		Depth Top	[m]: 1.00
Hole No.:	WS13		Depth Base	[m]: Not Given
Sample Reference:	Not Given		Sample T	ype: D
Soil Description:	Dark brown sandy CLAY			
Sample Preparation:	Tested in natural condition			
As Received Moist	ure Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm

As Received Moisture	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [ W ] %	[WL]%	[ Wp ] %	[ lp ] %	BS Test Sieve
22	37	17	20	



Remarks:			
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	Page 1 of 1	Date Reported: 24/05/2021	GF 232.10



### Liquid and Plastic Limits

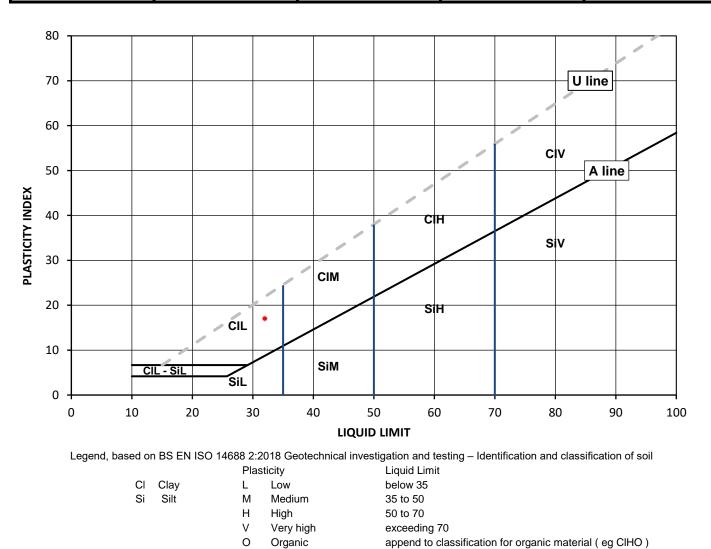
i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



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

4041	I ested in Acc	cordance with: BS 1377-2: 1990: Clause 4.4 and 5		
Client:	Enzygo Geoenvironmental Ltd		Client Reference:	CRM 1027 087
Client Address:	The Byre, Woodend Lane,		Job Number:	21-72520
	Cromhall, Gloucestershire,		Date Sampled:	28/04/2021
	GL12 8AA		Date Received:	27/04/2021
Contact:	Steve Rhodes		Date Tested:	19/05/2021
Site Address:	Richmond		Sampled By:	Client
Testing carried out at i2	2 Analytical Limited, ul. Pionierow 39	, 41-711 Ruda Slaska, Poland		
Test Results:				
Laboratory Reference:	1857746		Depth Top [m]:	1.00
Hole No.:	WS5		Depth Base [m]:	Not Given
Sample Reference:	Not Given		Sample Type:	D
Soil Description:	Brown very sandy CLAY			
Sample Preparation:	Tested in natural condition			
As Received Moist	ure Liquid Limit	Plastic Limit Plasti	city Index	% Passing 425um

As Received Moisture	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [ W ] %	[WL]%	[Wp]%	[ lp ] %	BS Test Sieve
17	32	15	17	100



Rer	narks:			
repor	ons and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This t may not be reproduced other than in full without the prior written approval of the issuing atory. The results included within the report relate only to the sample(s) submitted for testing.	Signed: Seripun Inlitan	Szczepan Bielatowicz PL Deputy Head of Geotechnical Section for and on behalf of i2 Analytical Ltd	
		Page 1 of 1	Date Reported: 24/05/2021	GF 2



### Liquid and Plastic Limits

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

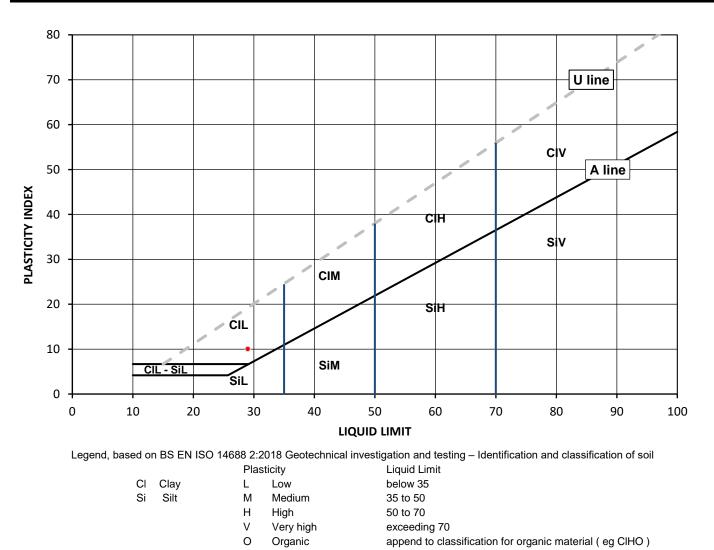


Tested in Accordance with: BS 1377-2: 1990: Clause 4.4 and 5

Client:	Enzygo Geoenvironmental Ltd	Client Reference:	CRM 1027 087
Client Address:	The Byre, Woodend Lane,	Job Number:	21-72520
	Cromhall, Gloucestershire,	Date Sampled:	28/04/2021
	GL12 8AA	Date Received:	27/04/2021
Contact:	Steve Rhodes	Date Tested:	19/05/2021
Site Address:	Richmond	Sampled By:	Client
Testing carried out at	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland		
. comig callou out ut	Z Analytical Elitited, al. Fiorierow 33, 417 FT Ruda Slaska, Foland		
Test Results:	z Analyticar Elimitod, al. Fromotow 55, 41711 Adda Slaska, Foland		
ě.		Depth Top [m]:	2.00
Test Results:		Depth Top [m]: Depth Base [m]:	
Test Results: Laboratory Reference:	1857747		Not Given

Sample Preparation: Tested in natural condition

As Received Moisture	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [ W ] %	[ WL ] %	[ Wp ] %	[ lp ] %	BS Test Sieve
23	29	19	10	100



Remarks:			
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	Page 1 of 1	Date Reported: 24/05/2021	GF

## SUMMARY REPORT

#### Summary of Classification Test Results

#### Tested in Accordance with:

Moisture Content by BS 1377-2: 1990: Clause 3.2; Water Content by BS EN

17892-1: 2014; Atterberg by BS 1377-2: 1990: Clause 4.3 (4 Point Test),

Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2: 1990: Clause 8.2

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



Client Reference: CRM 1027 087 Job Number: 21-72520 Date Sampled: 28/04/2021 Date Received: 27/04/2021 Date Tested: 19/05/2021 Sampled By: Client

Client: Enzygo Geoenvironmental Ltd Client Address: The Byre, Woodend Lane, Cromhall, Gloucestershire, GL12 8AA Contact: Steve Rhodes

Site Address: Richmond

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

#### Test results

4041

			Sample	2				Content / ]	Content W ]		Atte	rberg			Density		#	
Laboratory Reference	Hole No.	Reference	Depth Top	Depth Base	Туре	Description	C) en risio Remarks ni sio M		Water Con [ W ]	% Passing 425um	WL	Wp	lp	bulk	dry	PD	Total Porosity#	
			m	m				%	%	%	%	%	%	Mg/m3	Mg/m3	Mg/m3	%	
1857744	WS11	Not Given	1.00	Not Given	D	Light brown sandy CLAY	Atterberg 1 Point	19		100	41	21	20					
1857745	WS13	Not Given	1.00	Not Given	D	Dark brown sandy CLAY	Atterberg 1 Point	22		100	37	17	20					
1857736	WS2	Not Given	1.00	Not Given	D	Brown clayey SAND with fragments of rootlets	Atterberg 1 Point	16		100	25	15	10					
1857737	WS2	Not Given	2.00	Not Given	D	Yellowish brown very gravelly very sandy CLAY	Atterberg 1 Point	8.2		29	29	14	15					
1857738	WS4	Not Given	1.00	Not Given	D	Brown slightly sandy CLAY	Atterberg 1 Point	22		100	47	22	25					
1857739	WS4	Not Given	2.00	Not Given	D	Yellowish brown slightly gravelly slightly clayey SAND	Atterberg 1 Point	13		68	21	NP	NP					
1857746	WS5	Not Given	1.00	Not Given	D	Brown very sandy CLAY	Atterberg 1 Point	17		100	32	15	17					
1857747	WS5	Not Given	2.00	Not Given	D	Yellowish brown very sandy CLAY	Atterberg 1 Point	23		100	29	19	10					
1857740	WS7	Not Given	1.00	Not Given	D	Dark brown slightly gravelly slightly sandy CLAY with fragments of flintstone	Atterberg 1 Point	22		76	48	22	26					
1857741	WS7	Not Given	2.00	Not Given	D	Light brown slightly clayey SAND	Atterberg 1 Point	6.6		100	26	NP	NP					

Note: # Non accredited; NP - Non plastic

Comments:

#### Signed:



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

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## SUMMARY REPORT

#### Summary of Classification Test Results

#### Tested in Accordance with:

Moisture Content by BS 1377-2: 1990: Clause 3.2; Water Content by BS EN

17892-1: 2014; Atterberg by BS 1377-2: 1990: Clause 4.3 (4 Point Test),

Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2: 1990: Clause 8.2

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



Client Reference: CRM 1027 087 Job Number: 21-72520 Date Sampled: 28/04/2021 Date Received: 27/04/2021 Date Tested: 19/05/2021 Sampled By: Client

 4041

 Client:
 Enzygo Geoenvironmental Ltd

 Client Address:
 The Byre, Woodend Lane, Cromhall, Gloucestershire, GL12 8AA

 Contact:
 Steve Rhodes

Site Address: Richmond

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

#### Test results

			Sample	9				ntent	tent		Atte	rberg			Density		#		
Laboratory Reference	Hole No.	Reference	Depth Top	Depth Base	Туре	Description	Remarks	Moisture Content [ W ] Water Content [ W ]		% Passing 425um	WL	Wp	lp	bulk	dry	PD	Total Porosity#		
			m	m				%	%	%	%	%	%	Mg/m3	Mg/m3	Mg/m3	%	<del>_</del>	
1857742	WS9	Not Given	1.00	Not Given	D	Brown very sandy CLAY	Atterberg 1 Point	18		100	32	17	15						
1857743	WS9	Not Given	2.00	Not Given	D	Light brown slightly gravelly very sandy CLAY	Atterberg 1 Point	24		99	28	18	10						

Note: # Non accredited; NP - Non plastic

Comments:

Signed:



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

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**Steve Rhodes** Enzygo Geoenvironmental Ltd The Byre Woodend Lane Cromhall Gloucestershire GL12 8AA



i2 Analytical Ltd. 7 Woodshots Meadow, Croxley Green Business Park, Watford, Herts, WD18 8YS

t: 01923 225404 f: 01923 237404 e: reception@i2analytical.com

e: steve.rhodes@enzygo.com

## Analytical Report Number : 21-72525

Project / Site name:	Richmond	Samples received on:	27/04/2021
Your job number:	CRM 1027 087	Samples instructed on/ Analysis started on:	30/04/2021
Your order number:		Analysis completed by:	14/05/2021
Report Issue Number:	1	Report issued on:	20/05/2021
Samples Analysed:	7 soil samples		

Durado Signed:

Joanna Wawrzeczko Technical Reviewer (Reporting Team) For & on behalf of i2 Analytical Ltd.

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

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

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

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

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





Lab Sample Number				1857753	1857754	1857755	1857756	1857757
Sample Reference				WS2	WS2	WS7	WS7	WS11
Sample Number				None Supplied				
Depth (m)				1.00	2.00	1.00	2.00	1.00
Date Sampled				28/04/2021	28/04/2021	28/04/2021	28/04/2021	28/04/2021
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	10	11	16	4.5	15
Total mass of sample received	kg	0.001	NONE	0.50	0.50	0.50	0.50	0.50

#### **General Inorganics**

pri Automateu	pH Units	N/A	MCERTS	8.0	7.5	6.8	8.5	7.9
equivalent)	g/l	0.00125	MCERTS	0.013	0.015	0.016	0.0058	0.016





Lab Sample Number					1857758	1857759
Sample Reference					WS5	WS5
Sample Number	None Supplied	None Supplied				
Depth (m)	1.00	2.00				
Date Sampled					28/04/2021	28/04/2021
Time Taken					None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units		Limit of detection	Accreditation Status		
Stone Content	%	)	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	)	0.01	NONE	10	16
Total mass of sample received	kg	)	0.001	NONE	0.50	0.50

#### **General Inorganics**

pH - Automated	pH Units	N/A	MCERTS	8.2	8.5
Equivalent)	g/l	0.00125	MCERTS	0.034	0.013





### Analytical Report Number : 21-72525

## Project / Site name: Richmond

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1857753	WS2	None Supplied	1	Brown clay and sand with gravel.
1857754	WS2	None Supplied	2	Brown sandy clay with gravel and vegetation.
1857755	WS7	None Supplied	1	Brown clay and sand with gravel and vegetation.
1857756	WS7	None Supplied	2	Light brown sand.
1857757	WS11	None Supplied	1	Brown clay and sand with vegetation and gravel
1857758	WS5	None Supplied	1	Brown clay and loam.
1857759	WS5	None Supplied	2	Brown sandy clay with gravel.





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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom. For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland. Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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



**Steve Rhodes** Enzygo Geoenvironmental Ltd The Byre Woodend Lane Cromhall Gloucestershire GL12 8AA



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## Analytical Report Number : 21-94030

Project / Site name:	Richmond	Samples received on:	19/08/2021
Your job number:	CRM.1265.087	Samples instructed on/ Analysis started on:	19/08/2021
Your order number:		Analysis completed by:	25/08/2021
Report Issue Number:	1	Report issued on:	26/08/2021
Samples Analysed:	17 soil samples		

Signed: M. Cherwiniska

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

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

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

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

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

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

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





Lab Sample Number				1979344	1979345	1979346	1979347	1979348
Sample Reference				BH1	BH1	BH1	BH1	BH1
Sample Number				None Supplied				
Depth (m)	5.00	10.00	15.00	20.00	25.00			
Date Sampled	18/08/2021	18/08/2021	18/08/2021	18/08/2021	18/08/2021			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	9.0	15	11	12	11
Total mass of sample received	kg	0.001	NONE	1.0	0.50	0.50	0.50	0.50

#### **General Inorganics**

pH - Automated	pH Units	N/A	MCERTS	9.0	9.1	8.8	9.0	9.3
Equivalent)	g/l	0.00125	MCERTS	0.019	0.25	0.45	0.49	0.38





Lab Sample Number				1979349	1979350	1979351	1979352	1979353
Sample Reference				BH2	BH2	BH2	BH2	BH2
Sample Number				None Supplied				
Depth (m)	5.00	10.00	15.00	20.00	25.00			
Date Sampled	18/08/2021	18/08/2021	18/08/2021	18/08/2021	18/08/2021			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	12	13	11	13	11
Total mass of sample received	kg	0.001	NONE	1.0	0.50	0.50	0.60	0.50

#### **General Inorganics**

pH - Automated	pH Units	N/A	MCERTS	9.0	9.2	9.2	9.0	9.3
Equivalent)	g/l	0.00125	MCERTS	0.015	0.31	0.35	0.47	0.50





Lab Sample Number				1979354	1979355	1979356	1979357	1979358
Sample Reference				BH3	BH3	BH4	BH4	BH5
Sample Number				None Supplied				
Depth (m)				5.00	10.00	5.00	10.00	5.00
Date Sampled				18/08/2021	18/08/2021	18/08/2021	18/08/2021	18/08/2021
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	8.7	12	7.6	14	2.6
Total mass of sample received	kg	0.001	NONE	1.0	0.50	1.0	0.60	0.80

#### **General Inorganics**

pH - Automated	pH Units	N/A	MCERTS	8.9	9.2	8.6	9.0	8.9
equivalent)	g/l	0.00125	MCERTS	0.013	0.27	0.021	0.24	0.0059





Lab Sample Number					1979359	1979531
Sample Reference					BH6	BH6
Sample Number	None Supplied	None Supplied				
Depth (m)	5.00	10.00				
Date Sampled	18/08/2021	18/08/2021				
Time Taken	None Supplied	None Supplied				
Analytical Parameter (Soil Analysis)	Units		Limit of detection	Accreditation Status		
Stone Content	%	0	).1	NONE	< 0.1	< 0.1
Moisture Content	%	0.	.01	NONE	1.7	11
Total mass of sample received	kg	0.0	001	NONE	0.90	0.60

#### **General Inorganics**

pH - Automated	pH Units	N/A	MCERTS	8.8	9.1
Equivalent)	g/l	0.00125	MCERTS	0.0087	0.22





### Analytical Report Number : 21-94030

## Project / Site name: Richmond

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1979344	BH1	None Supplied	5	Brown sand with gravel.
1979345	BH1	None Supplied	10	Brown clay.
1979346	BH1	None Supplied	15	Brown clay.
1979347	BH1	None Supplied	20	Brown clay.
1979348	BH1	None Supplied	25	Brown clay.
1979349	BH2	None Supplied	5	Brown sand with gravel.
1979350	BH2	None Supplied	10	Brown clay.
1979351	BH2	None Supplied	15	Brown clay.
1979352	BH2	None Supplied	20	Grey clay.
1979353	BH2	None Supplied	25	Grey clay.
1979354	BH3	None Supplied	5	Brown sand with gravel.
1979355	BH3	None Supplied	10	Grey clay.
1979356	BH4	None Supplied	5	Brown sand with gravel.
1979357	BH4	None Supplied	10	Grey clay.
1979358	BH5	None Supplied	5	Brown sand with gravel.
1979359	BH6	None Supplied	5	Brown sand with gravel.
1979531	BH6	None Supplied	10	Brown clay.





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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE

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