

Lab Ref	25083916
Project Ref	C2-224
Contract Title	Mon & Brec

Lab No	001-005
.Sample ID	1-5 mean
Sample Type	silt
Sampling Date	19/08/2025

				WM3 assessment	S4UL					C4SL Residential uptake	BSV		BS3882 Guideline & limit for PTEs	
					Residential uptake	Residential without plant uptake	Commerce / Industrial	Public open space (residential)	Public open space (park)		Human health			
Test					Units						with plant uptake	Grazing animal s		without plant uptake
			DM	FW	Result	Result					Result		BS3882 value	
Dry matter %			31.9											
Moisture Content 30øC		%	68.1											
Metals				Non-hazardous									50	
Arsenic	mg/kg	4.7	1.5		Non-hazardous	ok					ok			
Barium	mg/kg	208.0	66.4			ok					ok			
Boron, Water Soluble	mg/kg	1.1	0.4	ok					ok					
Cadmium	mg/kg	0.6	0.2	Non-hazardous	ok						ok		3	
Chromium (III)	mg/kg		0.0		ok						ok			
Chromium, Hexavalent	mg/kg	0.2	0.1		ok						ok			
Chromium (tot)	mg/kg	25.1	8.0	Non-hazardous									400	
Copper	mg/kg	23.9	7.6	Non-hazardous	ok						ok		135	
Lead	mg/kg	31.8	10.1	Non-hazardous							ok	ok		300
Magnesium, by mass	mg/kg	334.0	106.5										51-600	
Mercury	mg/kg		0.0	Non-hazardous	ok					ok		1		
Molybdenum	mg/kg		0.0							ok		4		
Nickel	mg/kg	25.4	8.1	Non-hazardous	ok					ok		75		
Phosphorus, by mass	mg/kg	123.2	39.3									16-100		
Potassium, by mass	mg/kg	199.8	63.7									121-900		
Selenium	mg/kg	1.1	0.4	Non-hazardous	ok					ok		3		
Sodium	mg/kg	255.0	81.3											

Vanadium	mg/kg		0.0	Non-hazardous								ok				
Zinc	mg/kg	110.9	35.4		ok	ok	ok	ok	ok		ok	ok	300			
Inorganics																
Conductivity	uS/cm	135.0		Non-hazardous												
pH	pH	7.2														
Cyanide, Total	mg/kg		0.0													
Cyanide, Free	mg/kg		0.0													
Organic matter	%	14.7	4.7									5 - 20%				
Total Organic Carbon	%	8.6	2.7													
Ammoniacal Nitrogen as N	mg/kg		0.0													
Fluoride	mg/kg	0.3	0.1									500				
Nitrate as NO3	mg/kg		0.0													
Nitrite as NO2	mg/kg		0.0													
Nitrogen	%	0.6	0.2													
Kjeldahl Nitrogen, Total	%	5660.0	1805.5									≥0.15				
Sulphide	mg/kg	5.1	1.6													
Sulphur as S, Total	%		0.0													
Sulphate as SO4, Total	%		0.0													
Petroleum Hydrocarbons																
C6-C10	mg/kg		0.0							-						
C6-C8 (Aliphatic)	mg/kg		0.0									ok	ok	ok	ok	ok
C7-C8 (Aromatic)	mg/kg		0.0													
C8-C10 (Aliphatic)	mg/kg		0.0									ok	ok	ok	ok	ok
C8-C10 (Aromatic)	mg/kg		0.0									ok	ok	ok	ok	ok
C5-C6 (Aliphatic)	mg/kg		0.0									ok	ok	ok	ok	ok
C5-C7 (Aromatic)	mg/kg		0.0									ok	ok	ok	ok	ok
Total GRO C5-C10	mg/kg		0.0													
C10-C12 (Aliphatic)	mg/kg		0.0									ok	ok	ok	ok	ok
C12-C16 (Aliphatic)	mg/kg		0.0									ok	ok	ok	ok	ok
C16-C21 (Aliphatic)	mg/kg		0.0													
C21-C35 (Aliphatic)	mg/kg		0.0													
C16-C35 (Aliphatic)	mg/kg		0.0									ok	ok	ok	ok	ok
C35-C44 (Aliphatic)	mg/kg		0.0									ok	ok	ok	ok	ok

Total TPH C8-C40 (Aliphatic)	mg/kg	110.0	35.1											
C10-C12 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok					
C12-C16 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok					
C16-C21 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok					
C21-C35 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok					
C35-C44 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok					
Total TPH C8-C40 (Aromatic)	mg/kg	174.4	55.6											
C10-C25 (SCU)	mg/kg	64.9	20.7								-			
C25-C40 (SCU)	mg/kg	150.8	48.1											
Total TPH C10-C40 (SUM Ali+Aro)	mg/kg	284.4	90.7											
Total TPH C6-C40 (Sum of Ali+Aro+GRO)	mg/kg	284.4	90.7	Non-hazardous										
PAHs														
Acenaphthen e	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok		
Acenaphthylene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok		
Anthracene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok		
Benzo[a]anthracene	mg/kg	0.48	0.15		ok	ok	ok	ok	ok		ok	ok		
Benzo[a]pyrene	mg/kg	0.62	0.20		ok	ok	ok	ok	ok		ok	ok		
Benzo[b]fluoranthene	mg/kg	0.98	0.31		ok	ok	ok	ok	ok		ok	ok		
Benzo[g,h,i]perylene	mg/kg	0.44	0.14		ok	ok	ok	ok	ok		ok	ok		
Benzo[k]fluoranthene	mg/kg	0.36	0.11		ok	ok	ok	ok	ok		ok	ok		
Chrysene	mg/kg	0.48	0.15		ok	ok	ok	ok	ok		ok	ok		
Dibenzo[a,h]anthracene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok		
Fluoranthene	mg/kg	0.77	0.25		ok	ok	ok	ok	ok		ok	ok		
Fluorene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok		
Indeno[1,2,3-cd]pyrene	mg/kg	0.47	0.15		ok	ok	ok	ok	ok		ok	ok		
Naphthalene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok		
Phenanthrene	mg/kg	0.36	0.11		ok	ok	ok	ok	ok		ok	ok		
Pyrene	mg/kg	0.55	0.18		ok	ok	ok	ok	ok		ok	ok		
PAH 16 Total	mg/kg	7.02	2.24	Non-Hazardous										
Phenols														
Phenol - Monohydric	mg/kg		0.0		ok	ok	ok	ok	ok			ok		

Lab Ref

25083916

<i>Project Ref</i>	C2-224
<i>Contract Title</i>	Mon & Brec

Lab No	006-010
.Sample ID	6-10 mean
Sample Type	silt
Sampling Date	19/08/2025

				WM3 assessment	S4UL					C4SL Residential with plant uptake	BSV		BS3882 Guideline & limit for PTEs
					Residential with plant uptake	Residential without plant uptake	Commerce / Industrial	Public open space (residential)	Public open space (park)		Human health without plant uptake		
Test	Units												
		DM	FW	Result	Result					Result	Result		
Dry matter %		27											
Moisture Content 30øC		%	73										
Metals				Non-hazardous	Result					Result	Result		
Arsenic	mg/kg	4.1	1.1										
Barium	mg/kg	229.0	61.8										
Boron, Water Soluble	mg/kg	0.9	0.2	Non-hazardous	Result					Result	Result		
Cadmium	mg/kg	0.7	0.2										
Chromium (III)	mg/kg		0.0										
Chromium, Hexavalent	mg/kg	0.2	0.1	Non-hazardous	Result					Result	Result		
Chromium (tot)	mg/kg	27.6	7.5										
Copper	mg/kg	29.0	7.8										
Lead	mg/kg	39.7	10.7	Non-hazardous	Result					Result	Result		
Magnesium, by mass	mg/kg	236.4	63.8										
Mercury	mg/kg		0.0										
Molybdenum	mg/kg		0.0	Non-hazardous	Result					Result	Result		
Nickel	mg/kg	26.7	7.2										
Phosphorus, by mass	mg/kg	190.4	51.4										
Potassium, by mass	mg/kg	150.4	40.6	Non-hazardous	Result					Result	Result		
Selenium	mg/kg	1.3	0.4										
Sodium	mg/kg	275.0	74.3										
Vanadium	mg/kg		0.0	Non-hazardous	Result					Result	Result		

Zinc	mg/kg	136.1	36.7	Non-hazardous	ok	ok	ok	ok	ok		ok	ok	300			
Inorganics																
Conductivity	uS/cm	146.0		Non-hazardous												
pH	pH	7.0														
Cyanide, Total	mg/kg		0.0													
Cyanide, Free	mg/kg		0.0													
Organic matter	%	13.8	3.7										5 - 20%			
Total Organic Carbon	%	8.0	2.1													
Ammoniacal Nitrogen as N	mg/kg		0.0													
Fluoride	mg/kg		0.0										500			
Nitrate as NO3	mg/kg		0.0													
Nitrite as NO2	mg/kg		0.0													
Nitrogen	%	0.7	0.2													
Kjeldahl Nitrogen, Total	%	7020.0	1895.4										≥0.15			
Sulphide	mg/kg	5.4	1.5													
Sulphur as S, Total	%		0.0													
Sulphate as SO4, Total	%		0.0													
Petroleum Hydrocarbons																
C6-C10	mg/kg		0.0							-						
C6-C8 (Aliphatic)	mg/kg		0.0									ok	ok	ok	ok	ok
C7-C8 (Aromatic)	mg/kg		0.0													
C8-C10 (Aliphatic)	mg/kg		0.0									ok	ok	ok	ok	ok
C8-C10 (Aromatic)	mg/kg		0.0									ok	ok	ok	ok	ok
C5-C6 (Aliphatic)	mg/kg		0.0									ok	ok	ok	ok	ok
C5-C7 (Aromatic)	mg/kg		0.0									ok	ok	ok	ok	ok
Total GRO C5-C10	mg/kg		0.0													
C10-C12 (Aliphatic)	mg/kg		0.0									ok	ok	ok	ok	ok
C12-C16 (Aliphatic)	mg/kg		0.0									ok	ok	ok	ok	ok
C16-C21 (Aliphatic)	mg/kg		0.0													
C21-C35 (Aliphatic)	mg/kg		0.0													
C16-C35 (Aliphatic)	mg/kg		0.0									ok	ok	ok	ok	ok
C35-C44 (Aliphatic)	mg/kg		0.0									ok	ok	ok	ok	ok
Total TPH C8-C40 (Aliphatic)	mg/kg	108.2	29.2													

C10-C12 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok				
C12-C16 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok				
C16-C21 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok				
C21-C35 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok				
C35-C44 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok				
Total TPH C8-C40 (Aromatic)	mg/kg	235.4	63.6										
C10-C25 (SCU)	mg/kg	103.0	27.8										
C25-C40 (SCU)	mg/kg	200.8	54.2										
Total TPH C10-C40 (SUM Ali+Aro)	mg/kg	343.6	92.8										
Total TPH C6-C40 (Sum of Ali+Aro+GRO)	mg/kg	343.6	92.8		Non-hazardous								
PAHs													
Acenaphthen e	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Acenaphthylene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Anthracene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Benzo[a]anthracene	mg/kg	0.52	0.14		ok	ok	ok	ok	ok		ok	ok	
Benzo[a]pyrene	mg/kg	0.61	0.16		ok	ok	ok	ok	ok		ok	ok	
Benzo[b]fluoranthene	mg/kg	0.96	0.26		ok	ok	ok	ok	ok		ok	ok	
Benzo[g,h,i]perylene	mg/kg	0.43	0.12		ok	ok	ok	ok	ok		ok	ok	
Benzo[k]fluoranthene	mg/kg	0.42	0.11		ok	ok	ok	ok	ok		ok	ok	
Chrysene	mg/kg	0.51	0.14		ok	ok	ok	ok	ok		ok	ok	
Dibenzo[a,h]anthracene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Fluoranthene	mg/kg	0.77	0.21		ok	ok	ok	ok	ok		ok	ok	
Fluorene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Indeno[1,2,3-cd]pyrene	mg/kg	0.46	0.12		ok	ok	ok	ok	ok		ok	ok	
Naphthalene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Phenanthrene	mg/kg	0.48	0.13		ok	ok	ok	ok	ok		ok	ok	
Pyrene	mg/kg	0.54	0.15		ok	ok	ok	ok	ok		ok	ok	
PAH 16 Total	mg/kg	7.15	1.93	Non-Hazardous									
Phenols													
Phenol - Monohydric	mg/kg		0.0		ok	ok	ok	ok	ok			ok	

Lab Ref

25083916

Project Ref

C2-224

Contract Title Mon & Brec

Lab No	010-015
.Sample ID	10-15 mean
Sample Type	silt
Sampling Date	19/08/2025

				WM3 assessment	S4UL Residentia l Residential / Commerce Public Public open space (residential) (park)					C4SL Residentia l with plant uptake	BSV Human health Grazing animal s without plant uptake		BS3882 Guideline & limit for PTEs				
Test	Units																
		DM	FW	Result	Result						Result		BS3882 value				
Dry matter %		30.64															
Moisture Content 30øC	%	69.36															
Metals				Non-hazardous	ok ok ok ok ok						ok ok		50				
Arsenic	mg/kg	3.4	1.1											Non-hazardous			
Barium	mg/kg	176.2	54.0														
Boron, Water Soluble	mg/kg	0.7	0.2		ok	ok	ok	ok	ok		ok	ok	3				
Cadmium	mg/kg	0.7	0.2	Non-hazardous	ok	ok	ok	ok	ok		ok	ok					
Chromium (III)	mg/kg		0.0		ok	ok	ok	ok	ok		ok	ok					
Chromium, Hexavalent	mg/kg	0.2	0.1		ok	ok	ok	ok	ok			ok	400				
Chromium (tot)	mg/kg	19.7	6.0	Non-hazardous													
Copper	mg/kg	23.2	7.1	Non-hazardous	ok	ok	ok	ok	ok		ok	ok		ok	135		
Lead	mg/kg	38.5	11.8	Non-hazardous		ok	ok	ok	ok	ok	ok	ok	ok	300			
Magnesium, by mass	mg/kg	210.4	64.5										51-600				
Mercury	mg/kg		0.0	Non-hazardous	ok	ok	ok	ok	ok		ok	ok		ok	1		
Molybdenum	mg/kg		0.0								ok	ok		4			
Nickel	mg/kg	19.3	5.9	Non-hazardous	ok	ok	ok	ok	ok		ok	ok	75				
Phosphorus, by mass	mg/kg	148.6	45.5										16-100				
Potassium, by mass	mg/kg	136.4	41.8														
Selenium	mg/kg	1.2	0.4	Non-hazardous	ok	ok	ok	ok	ok		ok	ok	3				
Sodium	mg/kg	225.2	69.0														
Vanadium	mg/kg		0.0									ok					

Zinc	mg/kg	121.0	37.1	Non-hazardous	ok	ok	ok	ok	ok		ok	ok	300				
Inorganics																	
Conductivity	uS/cm	142.6		Non-hazardous													
pH	pH	7.0															
Cyanide, Total	mg/kg		0.0														
Cyanide, Free	mg/kg		0.0														
Organic matter	%	13.1	4.0										5 - 20%				
Total Organic Carbon	%	7.6	2.3														
Ammoniacal Nitrogen as N	mg/kg	2.2	0.7														
Fluoride	mg/kg		0.0										500				
Nitrate as NO3	mg/kg		0.0														
Nitrite as NO2	mg/kg		0.0														
Nitrogen	%	0.6	0.2														
Kjeldahl Nitrogen, Total	%	5498.0	1684.6										≥0.15				
Sulphide	mg/kg	4.8	1.5														
Sulphur as S, Total	%		0.0														
Sulphate as SO4, Total	%		0.0														
Petroleum Hydrocarbons																	
C6-C10	mg/kg		0.0								-						
C6-C8 (Aliphatic)	mg/kg		0.0										ok	ok	ok	ok	ok
C7-C8 (Aromatic)	mg/kg		0.0														
C8-C10 (Aliphatic)	mg/kg		0.0										ok	ok	ok	ok	ok
C8-C10 (Aromatic)	mg/kg		0.0										ok	ok	ok	ok	ok
C5-C6 (Aliphatic)	mg/kg		0.0										ok	ok	ok	ok	ok
C5-C7 (Aromatic)	mg/kg		0.0										ok	ok	ok	ok	ok
Total GRO C5-C10	mg/kg		0.0														
C10-C12 (Aliphatic)	mg/kg		0.0										ok	ok	ok	ok	ok
C12-C16 (Aliphatic)	mg/kg		0.0										ok	ok	ok	ok	ok
C16-C21 (Aliphatic)	mg/kg		0.0														
C21-C35 (Aliphatic)	mg/kg		0.0														
C16-C35 (Aliphatic)	mg/kg		0.0										ok	ok	ok	ok	ok
C35-C44 (Aliphatic)	mg/kg		0.0										ok	ok	ok	ok	ok
Total TPH C8-C40 (Aliphatic)	mg/kg	75.0	23.0														

C10-C12 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok				
C12-C16 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok				
C16-C21 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok				
C21-C35 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok				
C35-C44 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok				
Total TPH C8-C40 (Aromatic)	mg/kg	152.3	46.7										
C10-C25 (SCU)	mg/kg	82.3	25.2										
C25-C40 (SCU)	mg/kg	134.4	41.2										
Total TPH C10-C40 (SUM Ali+Aro)	mg/kg	227.3	69.6										
Total TPH C6-C40 (Sum of Ali+Aro+GRO)	mg/kg	227.3	69.6		Non-hazardous								
PAHs													
Acenaphthen e	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Acenaphthylene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Anthracene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Benzo[a]anthracene	mg/kg	0.70	0.21		ok	ok	ok	ok	ok		ok	ok	
Benzo[a]pyrene	mg/kg	0.74	0.23		ok	ok	ok	ok	ok		ok	ok	
Benzo[b]fluoranthene	mg/kg	0.70	0.21		ok	ok	ok	ok	ok		ok	ok	
Benzo[g,h,i]perylene	mg/kg	0.42	0.13		ok	ok	ok	ok	ok		ok	ok	
Benzo[k]fluoranthene	mg/kg	0.52	0.16		ok	ok	ok	ok	ok		ok	ok	
Chrysene	mg/kg	0.61	0.19		ok	ok	ok	ok	ok		ok	ok	
Dibenzo[a,h]anthracene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Fluoranthene	mg/kg	0.59	0.18		ok	ok	ok	ok	ok		ok	ok	
Fluorene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Indeno[1,2,3-cd]pyrene	mg/kg	0.51	0.15		ok	ok	ok	ok	ok		ok	ok	
Naphthalene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Phenanthrene	mg/kg	0.54	0.17		ok	ok	ok	ok	ok		ok	ok	
Pyrene	mg/kg	0.66	0.20		ok	ok	ok	ok	ok		ok	ok	
PAH 16 Total	mg/kg	6.09	1.87	Non-Hazardous									
Phenols													
Phenol - Monohydric	mg/kg		0.0		ok	ok	ok	ok	ok			ok	

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Zinc	mg/kg	94.2	30.6	Non-hazardous	ok	ok	ok	ok	ok		ok	ok	300					
Inorganics																		
Conductivity	uS/cm	129.4		Non-hazardous														
pH	pH	7.1																
Cyanide, Total	mg/kg		0.0															
Cyanide, Free	mg/kg		0.0															
Organic matter	%	12.1	3.9										5 - 20%					
Total Organic Carbon	%	7.0	2.3															
Ammoniacal Nitrogen as N	mg/kg	3.1	1.0															
Fluoride	mg/kg	0.2	0.1										500					
Nitrate as NO3	mg/kg		0.0															
Nitrite as NO2	mg/kg		0.0															
Nitrogen	%	0.6	0.2															
Kjeldahl Nitrogen, Total	%	5540.0	1799.4										≥0.15					
Sulphide	mg/kg	4.9	1.6															
Sulphur as S, Total	%		0.0															
Sulphate as SO4, Total	%		0.0															
Petroleum Hydrocarbons																		
C6-C10	mg/kg		0.0								-							
C6-C8 (Aliphatic)	mg/kg		0.0										ok	ok	ok	ok	ok	
C7-C8 (Aromatic)	mg/kg		0.0															
C8-C10 (Aliphatic)	mg/kg		0.0										ok	ok	ok	ok	ok	
C8-C10 (Aromatic)	mg/kg		0.0										ok	ok	ok	ok	ok	
C5-C6 (Aliphatic)	mg/kg		0.0										ok	ok	ok	ok	ok	
C5-C7 (Aromatic)	mg/kg		0.0										ok	ok	ok	ok	ok	
Total GRO C5-C10	mg/kg		0.0															
C10-C12 (Aliphatic)	mg/kg		0.0										ok	ok	ok	ok	ok	
C12-C16 (Aliphatic)	mg/kg		0.0										ok	ok	ok	ok	ok	
C16-C21 (Aliphatic)	mg/kg		0.0															
C21-C35 (Aliphatic)	mg/kg		0.0															
C16-C35 (Aliphatic)	mg/kg		0.0										ok	ok	ok	ok	ok	
C35-C44 (Aliphatic)	mg/kg		0.0										ok	ok	ok	ok	ok	
Total TPH C8-C40 (Aliphatic)	mg/kg	88.7	28.8															

C10-C12 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok				
C12-C16 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok				
C16-C21 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok				
C21-C35 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok				
C35-C44 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok				
Total TPH C8-C40 (Aromatic)	mg/kg	266.4	86.5										
C10-C25 (SCU)	mg/kg	82.3	26.7										
C25-C40 (SCU)	mg/kg	134.4	43.7										
Total TPH C10-C40 (SUM Ali+Aro)	mg/kg	355.1	115.3										
Total TPH C6-C40 (Sum of Ali+Aro+GRO)	mg/kg	355.1	115.3		Non-hazardous								
PAHs													
Acenaphthen e	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Acenaphthylene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Anthracene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Benzo[a]anthracene	mg/kg	0.55	0.18		ok	ok	ok	ok	ok		ok	ok	
Benzo[a]pyrene	mg/kg	0.56	0.18		ok	ok	ok	ok	ok		ok	ok	
Benzo[b]fluoranthene	mg/kg	0.80	0.26		ok	ok	ok	ok	ok		ok	ok	
Benzo[g,h,i]perylene	mg/kg	0.34	0.11		ok	ok	ok	ok	ok		ok	ok	
Benzo[k]fluoranthene	mg/kg	0.30	0.10		ok	ok	ok	ok	ok		ok	ok	
Chrysene	mg/kg	0.48	0.15		ok	ok	ok	ok	ok		ok	ok	
Dibenzo[a,h]anthracene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Fluoranthene	mg/kg	0.75	0.24		ok	ok	ok	ok	ok		ok	ok	
Fluorene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Indeno[1,2,3-cd]pyrene	mg/kg	0.40	0.13		ok	ok	ok	ok	ok		ok	ok	
Naphthalene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Phenanthrene	mg/kg	0.36	0.12		ok	ok	ok	ok	ok		ok	ok	
Pyrene	mg/kg	0.57	0.19		ok	ok	ok	ok	ok		ok	ok	
PAH 16 Total	mg/kg	6.63	2.15	Non-Hazardous									
Phenols													
Phenol - Monohydric	mg/kg		0.0		ok	ok	ok	ok	ok			ok	

Lab Ref

25083916

Project Ref

C2-224

Contract Title Mon & Brec

Lab No	021-025
.Sample ID	21-25 mean
Sample Type	silt
Sampling Date	19/08/2025

				WM3 assessment	S4UL Residentia l Residential / Commerce Public Public open space (residential) (park)					C4SL Residentia l with plant uptake	BSV Human health Grazing animal s without plant uptake		BS3882 Guideline & limit for PTEs	
Test	Units				Result						Result		BS3882 value	
		DM	FW	Result									BS3882 value	
Dry matter %		32.46												
Moisture Content 30øC		%	67.54											
Metals				Non-hazardous										
Arsenic	mg/kg	3.9	1.3		Non-hazardous									
Barium	mg/kg	175.6	57.0											
Boron, Water Soluble	mg/kg	0.9	0.3		ok	ok	ok	ok	ok		ok	ok		
Cadmium	mg/kg	0.6	0.2	Non-hazardous	ok	ok	ok	ok	ok		ok	ok		
Chromium (III)	mg/kg		0.0		ok	ok	ok	ok	ok		ok	ok		
Chromium, Hexavalent	mg/kg	0.2	0.1		ok	ok	ok	ok	ok			ok		
Chromium (tot)	mg/kg	20.4	6.6	Non-hazardous										
Copper	mg/kg	21.5	7.0	Non-hazardous	ok	ok	ok	ok	ok		ok	ok		
Lead	mg/kg	31.4	10.2	Non-hazardous		ok	ok	ok	ok	ok	ok	ok		
Magnesium, by mass	mg/kg	255.4	82.9										51-600	
Mercury	mg/kg		0.0	Non-hazardous	ok	ok	ok	ok	ok		ok	ok		
Molybdenum	mg/kg		0.0								ok	ok		
Nickel	mg/kg	21.2	6.9	Non-hazardous	ok	ok	ok	ok	ok		ok	ok	75	
Phosphorus, by mass	mg/kg	95.3	30.9										16-100	
Potassium, by mass	mg/kg	151.0	49.0											
Selenium	mg/kg	0.9	0.3	Non-hazardous	ok	ok	ok	ok	ok		ok	ok	3	
Sodium	mg/kg	206.6	67.1											
Vanadium	mg/kg		0.0									ok		

Zinc	mg/kg	100.7	32.7	Non-hazardous	ok	ok	ok	ok	ok		ok	ok	300			
Inorganics																
Conductivity	uS/cm	119.8		Non-hazardous												
pH	pH	7.2														
Cyanide, Total	mg/kg		0.0													
Cyanide, Free	mg/kg		0.0													
Organic matter	%	13.4	4.3									5 - 20%				
Total Organic Carbon	%	7.8	2.5													
Ammoniacal Nitrogen as N	mg/kg	2.7	0.9													
Fluoride	mg/kg	0.2	0.1									500				
Nitrate as NO3	mg/kg		0.0													
Nitrite as NO2	mg/kg		0.0													
Nitrogen	%	0.6	0.2													
Kjeldahl Nitrogen, Total	%	5678.0	1843.1									≥0.15				
Sulphide	mg/kg	4.2	1.4													
Sulphur as S, Total	%	0.08	0.0													
Sulphate as SO4, Total	%		0.0													
Petroleum Hydrocarbons																
C6-C10	mg/kg		0.0							-						
C6-C8 (Aliphatic)	mg/kg		0.0									ok	ok	ok	ok	ok
C7-C8 (Aromatic)	mg/kg		0.0													
C8-C10 (Aliphatic)	mg/kg		0.0									ok	ok	ok	ok	ok
C8-C10 (Aromatic)	mg/kg		0.0									ok	ok	ok	ok	ok
C5-C6 (Aliphatic)	mg/kg		0.0									ok	ok	ok	ok	ok
C5-C7 (Aromatic)	mg/kg		0.0									ok	ok	ok	ok	ok
Total GRO C5-C10	mg/kg		0.0													
C10-C12 (Aliphatic)	mg/kg		0.0									ok	ok	ok	ok	ok
C12-C16 (Aliphatic)	mg/kg		0.0							ok		ok	ok	ok	ok	
C16-C21 (Aliphatic)	mg/kg		0.0													
C21-C35 (Aliphatic)	mg/kg		0.0													
C16-C35 (Aliphatic)	mg/kg		0.0							ok		ok	ok	ok	ok	
C35-C44 (Aliphatic)	mg/kg		0.0							ok		ok	ok	ok	ok	
Total TPH C8-C40 (Aliphatic)	mg/kg	87.7	28.5													

C10-C12 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok				
C12-C16 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok				
C16-C21 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok				
C21-C35 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok				
C35-C44 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok				
Total TPH C8-C40 (Aromatic)	mg/kg	202.0	65.6										
C10-C25 (SCU)	mg/kg	47.4	15.4										
C25-C40 (SCU)	mg/kg	192.9	62.6										
Total TPH C10-C40 (SUM Ali+Aro)	mg/kg	289.7	94.0										
Total TPH C6-C40 (Sum of Ali+Aro+GRO)	mg/kg	289.7	94.0		Non-hazardous								
PAHs													
Acenaphthen e	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Acenaphthylene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Anthracene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Benzo[a]anthracene	mg/kg	0.51	0.17		ok	ok	ok	ok	ok		ok	ok	
Benzo[a]pyrene	mg/kg	0.46	0.15		ok	ok	ok	ok	ok		ok	ok	
Benzo[b]fluoranthene	mg/kg	0.78	0.25		ok	ok	ok	ok	ok		ok	ok	
Benzo[g,h,i]perylene	mg/kg	0.36	0.12		ok	ok	ok	ok	ok		ok	ok	
Benzo[k]fluoranthene	mg/kg	0.32	0.10		ok	ok	ok	ok	ok		ok	ok	
Chrysene	mg/kg	0.48	0.16		ok	ok	ok	ok	ok		ok	ok	
Dibenzo[a,h]anthracene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Fluoranthene	mg/kg	0.82	0.26		ok	ok	ok	ok	ok		ok	ok	
Fluorene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Indeno[1,2,3-cd]pyrene	mg/kg	0.38	0.12		ok	ok	ok	ok	ok		ok	ok	
Naphthalene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Phenanthrene	mg/kg	0.44	0.14		ok	ok	ok	ok	ok		ok	ok	
Pyrene	mg/kg	0.59	0.19		ok	ok	ok	ok	ok		ok	ok	
PAH 16 Total	mg/kg	6.49	2.11	Non-Hazardous									
Phenols													
Phenol - Monohydric	mg/kg		0.0		ok	ok	ok	ok	ok			ok	

Lab Ref

25083916

Project Ref

C2-224

Mon & Brec

Lab No	025-030
.Sample ID	26-30 mean
Sample Type	silt
Sampling Date	19/08/202 5

				WM3 assessment	S4UL Residential uptake Residential without plant uptake Commerce / Industrial Public open space (residential) Public open space (park)					C4SL Residential uptake	BSV Human health without plant uptake		BS3882 Guideline & limit for PTEs		
Test	Units				Result						Result		BS3882 value		
		DM	FW	Result									BS3882 value		
Dry matter %		39.54													
Moisture Content 30øC		%	60.46												
Metals				Non-hazardous											
Arsenic	mg/kg	4.5	1.8		Non-hazardous	ok	ok	ok	ok		ok	ok		ok	50
Barium	mg/kg	166.4	65.8		Non-hazardous										
Boron, Water Soluble	mg/kg	0.8	0.3		ok	ok	ok	ok	ok		ok	ok	3		
Cadmium	mg/kg	0.6	0.2	Non-hazardous	ok	ok	ok	ok	ok		ok	ok			
Chromium (III)	mg/kg		0.0		ok	ok	ok	ok	ok		ok	ok			
Chromium, Hexavalent	mg/kg	0.2	0.1		ok	ok	ok	ok	ok			ok	400		
Chromium (tot)	mg/kg	18.3	7.2	Non-hazardous										135	
Copper	mg/kg	17.6	7.0	Non-hazardous	ok	ok	ok	ok	ok		ok	ok		300	
Lead	mg/kg	24.5	9.7	Non-hazardous						ok	ok	ok	51-600		
Magnesium, by mass	mg/kg	194.8	77.0										1		
Mercury	mg/kg		0.0	Non-hazardous	ok	ok	ok	ok	ok		ok	ok		4	
Molybdenum	mg/kg		0.0											75	
Nickel	mg/kg	20.1	7.9	Non-hazardous	ok	ok	ok	ok	ok		ok	ok	16-100 121-900		
Phosphorus, by mass	mg/kg	79.2	31.3											3	
Potassium, by mass	mg/kg	106.2	42.0												
Selenium	mg/kg	0.7	0.3	Non-hazardous	ok	ok	ok	ok	ok	ok	ok				
Sodium	mg/kg	206.2	81.5												
Vanadium	mg/kg		0.0												

Zinc	mg/kg	93.8	37.1	Non-hazardous	ok	ok	ok	ok	ok		ok	ok	300			
Inorganics																
Conductivity	uS/cm	120.8		Non-hazardous												
pH	pH	7.1														
Cyanide, Total	mg/kg		0.0													
Cyanide, Free	mg/kg		0.0													
Organic matter	%	12.4	4.9									5 - 20%				
Total Organic Carbon	%	7.2	2.9													
Ammoniacal Nitrogen as N	mg/kg	1.8	0.7													
Fluoride	mg/kg	0.4	0.2									500				
Nitrate as NO3	mg/kg		0.0													
Nitrite as NO2	mg/kg		0.0													
Nitrogen	%	0.5	0.2													
Kjeldahl Nitrogen, Total	%	5220.0	2064.0									≥0.15				
Sulphide	mg/kg	5.1	2.0													
Sulphur as S, Total	%	0.09	0.0													
Sulphate as SO4, Total	%		0.0													
Petroleum Hydrocarbons																
C6-C10	mg/kg		0.0							-						
C6-C8 (Aliphatic)	mg/kg		0.0									ok	ok	ok	ok	ok
C7-C8 (Aromatic)	mg/kg		0.0													
C8-C10 (Aliphatic)	mg/kg		0.0									ok	ok	ok	ok	ok
C8-C10 (Aromatic)	mg/kg		0.0									ok	ok	ok	ok	ok
C5-C6 (Aliphatic)	mg/kg		0.0									ok	ok	ok	ok	ok
C5-C7 (Aromatic)	mg/kg		0.0									ok	ok	ok	ok	ok
Total GRO C5-C10	mg/kg		0.0													
C10-C12 (Aliphatic)	mg/kg		0.0									ok	ok	ok	ok	ok
C12-C16 (Aliphatic)	mg/kg		0.0									ok	ok	ok	ok	ok
C16-C21 (Aliphatic)	mg/kg		0.0													
C21-C35 (Aliphatic)	mg/kg		0.0													
C16-C35 (Aliphatic)	mg/kg		0.0									ok	ok	ok	ok	ok
C35-C44 (Aliphatic)	mg/kg		0.0									ok	ok	ok	ok	ok
Total TPH C8-C40 (Aliphatic)	mg/kg		0.0													

C10-C12 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok				
C12-C16 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok				
C16-C21 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok				
C21-C35 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok				
C35-C44 (Aromatic)	mg/kg		0.0		ok	ok	ok	ok	ok				
Total TPH C8-C40 (Aromatic)	mg/kg	202.0	79.9										
C10-C25 (SCU)	mg/kg	45.2	17.9										
C25-C40 (SCU)	mg/kg	210.1	83.1										
Total TPH C10-C40 (SUM Ali+Aro)	mg/kg	202.0	79.9										
Total TPH C6-C40 (Sum of Ali+Aro+GRO)	mg/kg	202.0	79.9		Non-hazardous								
PAHs													
Acenaphthen e	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Acenaphthylene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Anthracene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Benzo[a]anthracene	mg/kg	0.34	0.13		ok	ok	ok	ok	ok		ok	ok	
Benzo[a]pyrene	mg/kg	0.34	0.14		ok	ok	ok	ok	ok		ok	ok	
Benzo[b]fluoranthene	mg/kg	0.49	0.19		ok	ok	ok	ok	ok		ok	ok	
Benzo[g,h,i]perylene	mg/kg	0.32	0.12		ok	ok	ok	ok	ok		ok	ok	
Benzo[k]fluoranthene	mg/kg	0.34	0.13		ok	ok	ok	ok	ok		ok	ok	
Chrysene	mg/kg	0.35	0.14		ok	ok	ok	ok	ok		ok	ok	
Dibenzo[a,h]anthracene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Fluoranthene	mg/kg	0.45	0.18		ok	ok	ok	ok	ok		ok	ok	
Fluorene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Indeno[1,2,3-cd]pyrene	mg/kg	0.29	0.12		ok	ok	ok	ok	ok		ok	ok	
Naphthalene	mg/kg		0.00		ok	ok	ok	ok	ok		ok	ok	
Phenanthrene	mg/kg	0.38	0.15		ok	ok	ok	ok	ok		ok	ok	
Pyrene	mg/kg	0.40	0.16		ok	ok	ok	ok	ok		ok	ok	
PAH 16 Total	mg/kg	4.56	1.80	Non-Hazardous									
Phenols													
Phenol - Monohydric	mg/kg		0.0		ok	ok	ok	ok	ok			ok	