

ACSE Sample Number Sample ID	75721 WS01	75722 WS01	75723 WS01
Clients Sample Ref.^			
Location / Sample Depth (m)^	0.8-1.0	0.05-0.15	0.5-0.6
Date Sampled^ Time Sampled^	17/07/2023 0900	17/07/2023 0900	17/07/2023 0900
Sample deviating codes			
Client's Sample Description^			
ACS Testing Material Description^	CLAY	LOAM	LOAM

ACSE Material Description (Principal Matrix - As Received)

Determination	HWOL Acroynm	Units	Method	Prepared As	Result	AS	Result	AS	Result	AS
m+p-xylene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	----		< 0.0100		< 0.0100	
o-xylene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	----		< 0.0100		< 0.0100	
Total BTEX	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	----		< 0.05		< 0.05	
Speciated Petroleum Hydrocarbons										
C5-C6 Aliphatic	HS_1D_AL	mg/kg	NAM/ACSE/X07	AR	----		< 0.10		< 0.10	
>C6-C8 Aliphatic	HS_1D_AL	mg/kg	NAM/ACSE/X07	AR	----		< 0.10		< 0.10	
>C8-C10 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	----		< 10.0		< 10.0	
>C10-C12 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	----		< 10.0		< 10.0	
>C12-C16 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	----		< 10.0		< 10.0	
>C16-C21 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	----		< 10.0		< 10.0	
>C21-C35 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	----		10.7		< 10.0	
>C35-C40 Aliphatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	----		< 10.0		< 10.0	
C6-C7 Aromatic	HS_1D_AR	mg/kg	NAM/ACSE/X07	AR	----		< 0.10		< 0.10	
C7-C8 Aromatic	HS_1D_AR	mg/kg	NAM/ACSE/X07	AR	----		< 0.10		< 0.10	
>C8-C10 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	----		< 10.0		< 10.0	
>C10-C12 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	----		< 10.0		< 10.0	
>C12-C16 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	----		< 10.0		< 10.0	
>C16-C21 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	----		< 10.0		< 10.0	
>C21-C35 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	----		14.2		< 10.0	
>C35-C40 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	----		< 10.0		< 10.0	
Total Speciated TPH (C6-C40)	EH+HS_2D_TOTAL	mg/kg	NAM/ACSE/X07	AR	----		24.8		< 10.0	
Total Speciated TPH (C6-C35)	EH+HS_2D_TOTAL	mg/kg	NAM/ACSE/X07	AR	----		24.8		< 10.0	
Subcontracted Analysis										
Asbestos Fibre ID		SC	SC	SC	----		Attached		Attached	
Free Cyanide		mg/kg	SC	SC	----		Attached		Attached	
Total TPH (C10-C40) with cleanup										
Mineral Oil (C10-C40)	EH_CU_1D_TOTAL	mg/kg	MT/ACSE/105	AR	----		----		< 50	

ACSE Sample Number	75724	75725	75726
Sample ID	WS02	WS02	WS02
Clients Sample Ref.^			
Location / Sample Depth (m)^	0.05-0.1	0.2-0.3	0.6-0.8
Date Sampled^	17/07/2023	17/07/2023	17/07/2023
Time Sampled^	0930	0930	0930
Sample deviating codes			
Client's Sample Description^			
ACS Testing Material Description^	LOAM	LOAM	CLAY

ACSE Material Description (Principal Matrix - As Received)

Determination	HWOL Acroynm	Units	Method	Prepared As	Result	AS	Result	AS	Result	AS
Anions										
Water Soluble Sulphate		mg/l	MT/ACSE/204	AD	19.1	*	25.3	*	402	*
BTEX										
Benzene	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.10	*	< 0.10	*	< 0.10	*
Ethylbenzene	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.10	*	< 0.10	*	< 0.10	*
m+p-xylene	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.19	*	< 0.19	*	< 0.19	*
o-xylene	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.10	*	< 0.10	*	< 0.10	*
Toluene	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.10	*	< 0.10	*	< 0.10	*
Total BTEX	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.60	*	< 0.60	*	< 0.60	*
Carbon										
TOC (Total Organic Carbon)		%	MT/ACSE/102	AR	3.21	*	2.40	*	0.22	*
Cyanide										
Free Cyanide_S		mg/kg	IHP	AR	S/C	*	S/C	*	S/C	*
Loss on Ignition										
Loss on Ignition (440 °C)		%	MT/ACSE/302	AD	----		----		----	
Metals (Soil)										
Arsenic		mg/kg	MT/ACSE/201	AD	8.51	*#	7.78	*#	11.4	*
Cadmium		mg/kg	MT/ACSE/201	AD	1.39	*#	3.80	*#	< 1.00	*
Chromium		mg/kg	MT/ACSE/201	AD	50.8	*#	49.8	*#	70.2	*
Copper		mg/kg	MT/ACSE/201	AD	30.3	*#	43.7	*#	23.2	*
Mercury		mg/kg	MT/ACSE/202	AD	0.235	*#	0.238	*#	0.051	*#
Nickel		mg/kg	MT/ACSE/201	AD	20.5	*#	22.1	*#	56.5	*
Lead		mg/kg	MT/ACSE/201	AD	63.6	*#	52.4	*#	13.4	*
Selenium		mg/kg	MT/ACSE/201	AD	< 6.00	*	< 6.00	*	< 6.00	*
Zinc		mg/kg	MT/ACSE/201	AD	284	*#	631	*#	82.6	*
Chromium Hexavalent		mg/kg	NAM/ACSE/X11	AD	< 0.20		< 0.20		< 0.20	
Boron (Hot Water Soluble)		mg/kg	NAM/ACSE/X08	AD	1.26		0.958		0.733	
pH and Conductivity										
pH (@ 20 °C)		units	MT/ACSE/301	AD	6.6	*	6.6	*	7.2	*
Phenols										
Monohydric Phenols		mg/kg	IHP	SC	< 2.00		< 2.00		< 2.00	
Poly Aromatic Hydrocarbons										
Total PAH		mg/kg	MT/ACSE/108	AR	----		----		----	
Total PAH		mg/kg	MT/ACSE/108	AR	S/C		S/C		S/C	
Polychlorinated Biphenyls (PCBs)										
PCB (7 Congeners)		mg/kg	MT/ACSE/110	AR	< 1.00	*	< 1.00	*	< 1.00	*
Speciated BTEX										
MTBE	HS_1D_TOTAL	mg/kg	NAM/ACSE/X12	AR	< 0.0100		< 0.0100		< 0.0100	
Hexane	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100		< 0.0100		< 0.0100	
Heptane	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100		< 0.0100		< 0.0100	
Octane	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100		< 0.0100		< 0.0100	
Benzene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100		< 0.0100		< 0.0100	

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ACSE Sample Number	75724	75725	75726
Sample ID	WS02	WS02	WS02
Clients Sample Ref.^			
Location / Sample Depth (m)^	0.05-0.1	0.2-0.3	0.6-0.8
Date Sampled^	17/07/2023	17/07/2023	17/07/2023
Time Sampled^	0930	0930	0930
Sample deviating codes			
Client's Sample Description^			
ACS Testing Material Description^	LOAM	LOAM	CLAY

ACSE Material Description (Principal Matrix - As Received)

Determination	HWOL Acroynm	Units	Method	Prepared As	Result	AS	Result	AS	Result	AS
Toluene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100		< 0.0100		< 0.0100	
Ethylbenzene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100		< 0.0100		< 0.0100	
m+p-xylene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100		< 0.0100		< 0.0100	
o-xylene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100		< 0.0100		< 0.0100	
Total BTEX	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.05		< 0.05		< 0.05	

Speciated Petroleum Hydrocarbons

C5-C6 Aliphatic	HS_1D_AL	mg/kg	NAM/ACSE/X07	AR	< 0.10		< 0.10		< 0.10	
>C6-C8 Aliphatic	HS_1D_AL	mg/kg	NAM/ACSE/X07	AR	< 0.10		< 0.10		< 0.10	
>C8-C10 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	< 10.0		< 10.0		< 10.0	
>C10-C12 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	< 10.0		< 10.0		< 10.0	
>C12-C16 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	< 10.0		< 10.0		< 10.0	
>C16-C21 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	< 10.0		< 10.0		< 10.0	
>C21-C35 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	11.7		< 10.0		< 10.0	
>C35-C40 Aliphatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	< 10.0		< 10.0		< 10.0	
C6-C7 Aromatic	HS_1D_AR	mg/kg	NAM/ACSE/X07	AR	< 0.10		< 0.10		< 0.10	
C7-C8 Aromatic	HS_1D_AR	mg/kg	NAM/ACSE/X07	AR	< 0.10		< 0.10		< 0.10	
>C8-C10 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	< 10.0		< 10.0		< 10.0	
>C10-C12 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	< 10.0		< 10.0		< 10.0	
>C12-C16 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	< 10.0		< 10.0		< 10.0	
>C16-C21 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	< 10.0		< 10.0		< 10.0	
>C21-C35 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	20.3		13.3		< 10.0	
>C35-C40 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	< 10.0		< 10.0		< 10.0	
Total Speciated TPH (C6-C40)	EH+HS_2D_TOTAL	mg/kg	NAM/ACSE/X07	AR	32.0		13.3		< 10.0	
Total Speciated TPH (C6-C35)	EH+HS_2D_TOTAL	mg/kg	NAM/ACSE/X07	AR	32.0		13.3		< 10.0	

Subcontracted Analysis

Asbestos Fibre ID	SC	SC	SC	Attached	Attached	Attached
Free Cyanide	mg/kg	SC	SC	Attached	Attached	Attached

Total TPH (C10-C40) with cleanup

Mineral Oil (C10-C40)	EH_CU_1D_TOTAL	mg/kg	MT/ACSE/105	AR	----	----	----
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ACSE Sample Number	75727	75728	75729
Sample ID	WS03	WS03	WS04
Clients Sample Ref.^			
Location / Sample Depth (m)^	0.1-0.2	0.5-0.6	0.2-0.4
Date Sampled^	17/07/2023	17/07/2023	17/07/2023
Time Sampled^	1015	1015	1100
Sample deviating codes			
Client's Sample Description^			
ACS Testing Material Description^	LOAM	CLAY	LOAM

ACSE Material Description (Principal Matrix - As Received)

Determination	HWOL Acroynm	Units	Method	Prepared As	Result	AS	Result	AS	Result	AS
Anions										
Water Soluble Sulphate		mg/l	MT/ACSE/204	AD	14.0	*	228	*	19.4	*
BTEX										
Benzene	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.10	*	----		< 0.10	*
Ethylbenzene	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.10	*	----		< 0.10	*
m+p-xylene	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.19	*	----		< 0.19	*
o-xylene	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.10	*	----		< 0.10	*
Toluene	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.10	*	----		< 0.10	*
Total BTEX	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.60	*	----		< 0.60	*
Carbon										
TOC (Total Organic Carbon)		%	MT/ACSE/102	AR	2.29	*	----		1.23	*
Cyanide										
Free Cyanide_S		mg/kg	IHP	AR	S/C	*	----		S/C	*
Loss on Ignition										
Loss on Ignition (440 °C)		%	MT/ACSE/302	AD	----		----		----	
Metals (Soil)										
Arsenic		mg/kg	MT/ACSE/201	AD	7.56	*#	----		7.50	*#
Cadmium		mg/kg	MT/ACSE/201	AD	< 1.00	*#	----		1.16	*#
Chromium		mg/kg	MT/ACSE/201	AD	50.0	*#	----		47.0	*#
Copper		mg/kg	MT/ACSE/201	AD	25.9	*#	----		28.3	*#
Mercury		mg/kg	MT/ACSE/202	AD	0.230	*#	----		0.285	*#
Nickel		mg/kg	MT/ACSE/201	AD	17.3	*#	----		16.7	*#
Lead		mg/kg	MT/ACSE/201	AD	52.4	*#	----		42.7	*#
Selenium		mg/kg	MT/ACSE/201	AD	< 6.00	*	----		< 6.00	*
Zinc		mg/kg	MT/ACSE/201	AD	114	*#	----		87.9	*#
Chromium Hexavalent		mg/kg	NAM/ACSE/X11	AD	< 0.20		----		< 0.20	
Boron (Hot Water Soluble)		mg/kg	NAM/ACSE/X08	AD	0.997		----		0.974	
pH and Conductivity										
pH (@ 20 °C)		units	MT/ACSE/301	AD	6.8	*	7.5	*	7.0	*
Phenols										
Monohydric Phenols		mg/kg	IHP	SC	< 2.00		----		< 2.00	
Poly Aromatic Hydrocarbons										
Total PAH		mg/kg	MT/ACSE/108	AR	----		----		----	
Total PAH		mg/kg	MT/ACSE/108	AR	S/C		----		S/C	
Polychlorinated Biphenyls (PCBs)										
PCB (7 Congeners)		mg/kg	MT/ACSE/110	AR	< 1.00	*	----		< 1.00	*
Speciated BTEX										
MTBE	HS_1D_TOTAL	mg/kg	NAM/ACSE/X12	AR	< 0.0100		----		< 0.0100	
Hexane	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100		----		< 0.0100	
Heptane	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100		----		< 0.0100	
Octane	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100		----		< 0.0100	

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ACSE Sample Number	75727	75728	75729
Sample ID	WS03	WS03	WS04
Clients Sample Ref.^			
Location / Sample Depth (m)^	0.1-0.2	0.5-0.6	0.2-0.4
Date Sampled^	17/07/2023	17/07/2023	17/07/2023
Time Sampled^	1015	1015	1100
Sample deviating codes			
Client's Sample Description^			
ACS Testing Material Description^	LOAM	CLAY	LOAM

ACSE Material Description (Principal Matrix - As Received)

Determination	HWOL Acroynm	Units	Method	Prepared As	Result	AS	Result	AS	Result	AS
Benzene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100		----		< 0.0100	
Toluene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100		----		< 0.0100	
Ethylbenzene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100		----		< 0.0100	
m+p-xylene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100		----		< 0.0100	
o-xylene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100		----		< 0.0100	
Total BTEX	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.05		----		< 0.05	

Speciated Petroleum Hydrocarbons

C5-C6 Aliphatic	HS_1D_AL	mg/kg	NAM/ACSE/X07	AR	< 0.10		----		< 0.10	
>C6-C8 Aliphatic	HS_1D_AL	mg/kg	NAM/ACSE/X07	AR	< 0.10		----		< 0.10	
>C8-C10 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	
>C10-C12 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	
>C12-C16 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	
>C16-C21 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	
>C21-C35 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	
>C35-C40 Aliphatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	
C6-C7 Aromatic	HS_1D_AR	mg/kg	NAM/ACSE/X07	AR	< 0.10		----		< 0.10	
C7-C8 Aromatic	HS_1D_AR	mg/kg	NAM/ACSE/X07	AR	< 0.10		----		< 0.10	
>C8-C10 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	
>C10-C12 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	
>C12-C16 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	
>C16-C21 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	
>C21-C35 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	
>C35-C40 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	
Total Speciated TPH (C6-C40)	EH+HS_2D_TOTAL	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	
Total Speciated TPH (C6-C35)	EH+HS_2D_TOTAL	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	

Subcontracted Analysis

Asbestos Fibre ID	SC	SC	SC	Attached		----		Attached
Free Cyanide	mg/kg	SC	SC	Attached		----		Attached

Total TPH (C10-C40) with cleanup

Mineral Oil (C10-C40)	EH_CU_1D_TOTAL	mg/kg	MT/ACSE/105	AR	----		----		----	
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ACSE Sample Number	75730	75731	75732
Sample ID	WS05	WS05	WS06
Clients Sample Ref.^			
Location / Sample Depth (m)^	0.2-0.3	0.5-0.6	0.1-0.2
Date Sampled^	17/07/2023	17/07/2023	17/07/2023
Time Sampled^	1200	1200	1300
Sample deviating codes			
Client's Sample Description^			
ACS Testing Material Description^	LOAM	CLAY	LOAM

ACSE Material Description (Principal Matrix - As Received)

Determination	HWOL Acroynm	Units	Method	Prepared As	Result	AS	Result	AS	Result	AS
Anions										
Water Soluble Sulphate		mg/l	MT/ACSE/204	AD	----		23.7	*	7.62	*
BTEX										
Benzene	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.10	*	----		< 0.10	*
Ethylbenzene	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.10	*	----		< 0.10	*
m+p-xylene	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.19	*	----		< 0.19	*
o-xylene	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.10	*	----		< 0.10	*
Toluene	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.10	*	----		< 0.10	*
Total BTEX	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.60	*	----		< 0.60	*
Carbon										
TOC (Total Organic Carbon)		%	MT/ACSE/102	AR	1.62	*	----		1.66	*
Cyanide										
Free Cyanide_S		mg/kg	IHP	AR	----		----		S/C	*
Loss on Ignition										
Loss on Ignition (440 °C)		%	MT/ACSE/302	AD	5.8	*	----		----	
Metals (Soil)										
Arsenic		mg/kg	MT/ACSE/201	AD	----		----		7.63	*#
Cadmium		mg/kg	MT/ACSE/201	AD	----		----		1.66	*#
Chromium		mg/kg	MT/ACSE/201	AD	----		----		56.8	*#
Copper		mg/kg	MT/ACSE/201	AD	----		----		31.5	*#
Mercury		mg/kg	MT/ACSE/202	AD	----		----		0.512	*#
Nickel		mg/kg	MT/ACSE/201	AD	----		----		17.1	*#
Lead		mg/kg	MT/ACSE/201	AD	----		----		51.3	*#
Selenium		mg/kg	MT/ACSE/201	AD	----		----		< 6.00	*
Zinc		mg/kg	MT/ACSE/201	AD	----		----		94.3	*#
Chromium Hexavalent		mg/kg	NAM/ACSE/X11	AD	----		----		< 0.20	
Boron (Hot Water Soluble)		mg/kg	NAM/ACSE/X08	AD	----		----		0.408	
pH and Conductivity										
pH (@ 20 °C)		units	MT/ACSE/301	AD	7.3	*	7.6	*	7.4	*
Phenols										
Monohydric Phenols		mg/kg	IHP	SC	----		----		< 2.00	
Poly Aromatic Hydrocarbons										
Total PAH		mg/kg	MT/ACSE/108	AR	S/C	*#	----		----	
Total PAH		mg/kg	MT/ACSE/108	AR	----		----		S/C	
Polychlorinated Biphenyls (PCBs)										
PCB (7 Congeners)		mg/kg	MT/ACSE/110	AR	< 1.00	*	----		< 1.00	*
Speciated BTEX										
MTBE	HS_1D_TOTAL	mg/kg	NAM/ACSE/X12	AR	----		----		< 0.0100	
Hexane	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	----		----		< 0.0100	
Heptane	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	----		----		< 0.0100	
Octane	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	----		----		< 0.0100	

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ACSE Sample Number Sample ID	75730 WS05	75731 WS05	75732 WS06
Clients Sample Ref.^			
Location / Sample Depth (m)^	0.2-0.3	0.5-0.6	0.1-0.2
Date Sampled^	17/07/2023	17/07/2023	17/07/2023
Time Sampled^	1200	1200	1300
Sample deviating codes			
Client's Sample Description^			
ACS Testing Material Description^	LOAM	CLAY	LOAM

ACSE Material Description (Principal Matrix - As Received)

Determination	HWOL Acroynm	Units	Method	Prepared As	Result	AS	Result	AS	Result	AS
Benzene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	----		----		< 0.0100	
Toluene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	----		----		< 0.0100	
Ethylbenzene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	----		----		< 0.0100	
m+p-xylene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	----		----		< 0.0100	
o-xylene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	----		----		< 0.0100	
Total BTEX	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	----		----		< 0.05	

Speciated Petroleum Hydrocarbons

C5-C6 Aliphatic	HS_1D_AL	mg/kg	NAM/ACSE/X07	AR	----		----		< 0.10	
>C6-C8 Aliphatic	HS_1D_AL	mg/kg	NAM/ACSE/X07	AR	----		----		< 0.10	
>C8-C10 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	----		----		< 10.0	
>C10-C12 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	----		----		< 10.0	
>C12-C16 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	----		----		< 10.0	
>C16-C21 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	----		----		< 10.0	
>C21-C35 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	----		----		< 10.0	
>C35-C40 Aliphatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	----		----		< 10.0	
C6-C7 Aromatic	HS_1D_AR	mg/kg	NAM/ACSE/X07	AR	----		----		< 0.10	
C7-C8 Aromatic	HS_1D_AR	mg/kg	NAM/ACSE/X07	AR	----		----		< 0.10	
>C8-C10 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	----		----		< 10.0	
>C10-C12 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	----		----		< 10.0	
>C12-C16 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	----		----		< 10.0	
>C16-C21 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	----		----		< 10.0	
>C21-C35 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	----		----		< 10.0	
>C35-C40 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	----		----		< 10.0	
Total Speciated TPH (C6-C40)	EH+HS_2D_TOTAL	mg/kg	NAM/ACSE/X07	AR	----		----		< 10.0	
Total Speciated TPH (C6-C35)	EH+HS_2D_TOTAL	mg/kg	NAM/ACSE/X07	AR	----		----		< 10.0	

Subcontracted Analysis

Asbestos Fibre ID	SC	SC	SC	----		----		Attached
Free Cyanide	mg/kg	SC	SC	----		----		Attached

Total TPH (C10-C40) with cleanup

Mineral Oil (C10-C40)	EH_CU_1D_TOTAL	mg/kg	MT/ACSE/105	AR	< 50		----		----	
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ACSE Sample Number	75733	75734	75735
Sample ID	WS06	WS07	WS07
Clients Sample Ref.^			
Location / Sample Depth (m)^	0.3-0.35	0.1-0.2	0.3-0.6
Date Sampled^	17/07/2023	17/07/2023	17/07/2023
Time Sampled^	1300	1400	1400
Sample deviating codes			
Client's Sample Description^			
ACS Testing Material Description^	SAND	CLAY	CLAY

ACSE Material Description (Principal Matrix - As Received)

Determination	HWOL Acroynm	Units	Method	Prepared As	Result	AS	Result	AS	Result	AS
Anions										
Water Soluble Sulphate		mg/l	MT/ACSE/204	AD	18.7	*	----		6.54	*
BTEX										
Benzene	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.10	*	< 0.10	*	< 0.10	*
Ethylbenzene	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.10	*	< 0.10	*	< 0.10	*
m+p-xylene	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.19	*	< 0.19	*	< 0.19	*
o-xylene	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.10	*	< 0.10	*	< 0.10	*
Toluene	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.10	*	< 0.10	*	< 0.10	*
Total BTEX	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.60	*	< 0.60	*	< 0.60	*
Carbon										
TOC (Total Organic Carbon)		%	MT/ACSE/102	AR	0.35	*	1.52	*	0.71	*
Cyanide										
Free Cyanide_S		mg/kg	IHP	AR	S/C	*	----		S/C	*
Loss on Ignition										
Loss on Ignition (440 °C)		%	MT/ACSE/302	AD	----		4.3	*	----	
Metals (Soil)										
Arsenic		mg/kg	MT/ACSE/201	AD	11.3	*#	----		10.6	*
Cadmium		mg/kg	MT/ACSE/201	AD	< 1.00	*#	----		< 1.00	*
Chromium		mg/kg	MT/ACSE/201	AD	41.0	*#	----		48.0	*
Copper		mg/kg	MT/ACSE/201	AD	22.6	*#	----		11.5	*
Mercury		mg/kg	MT/ACSE/202	AD	0.235	*#	----		0.069	*#
Nickel		mg/kg	MT/ACSE/201	AD	16.5	*#	----		17.3	*
Lead		mg/kg	MT/ACSE/201	AD	35.2	*#	----		14.2	*
Selenium		mg/kg	MT/ACSE/201	AD	< 6.00	*	----		< 6.00	*
Zinc		mg/kg	MT/ACSE/201	AD	72.0	*#	----		67.5	*
Chromium Hexavalent		mg/kg	NAM/ACSE/X11	AD	< 0.20		----		< 0.20	
Boron (Hot Water Soluble)		mg/kg	NAM/ACSE/X08	AD	0.380		----		0.642	
pH and Conductivity										
pH (@ 20 °C)		units	MT/ACSE/301	AD	10.2	*	5.8	*	5.9	*
Phenols										
Monohydric Phenols		mg/kg	IHP	SC	< 2.00		----		< 2.00	
Poly Aromatic Hydrocarbons										
Total PAH		mg/kg	MT/ACSE/108	AR	----		S/C	*	----	
Total PAH		mg/kg	MT/ACSE/108	AR	S/C		----		S/C	
Polychlorinated Biphenyls (PCBs)										
PCB (7 Congeners)		mg/kg	MT/ACSE/110	AR	< 1.00	*	< 1.00	*	< 1.00	*
Speciated BTEX										
MTBE	HS_1D_TOTAL	mg/kg	NAM/ACSE/X12	AR	< 0.0100		----		< 0.0100	
Hexane	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100		----		< 0.0100	
Heptane	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100		----		< 0.0100	
Octane	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100		----		< 0.0100	
Benzene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100		----		< 0.0100	

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ACSE Sample Number Sample ID	75733 WS06	75734 WS07	75735 WS07
Clients Sample Ref.^	0.3-0.35	0.1-0.2	0.3-0.6
Location / Sample Depth (m)^	17/07/2023 1300	17/07/2023 1400	17/07/2023 1400
Date Sampled^ Time Sampled^			
Sample deviating codes			
Client's Sample Description^			
ACS Testing Material Description^	SAND	CLAY	CLAY

ACSE Material Description (Principal Matrix - As Received)

Determination	HWOL Acroynm	Units	Method	Prepared As	Result	AS	Result	AS	Result	AS
Toluene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100		----		< 0.0100	
Ethylbenzene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100		----		< 0.0100	
m+p-xylene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100		----		< 0.0100	
o-xylene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100		----		< 0.0100	
Total BTEX	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.05		----		< 0.05	

Speciated Petroleum Hydrocarbons

C5-C6 Aliphatic	HS_1D_AL	mg/kg	NAM/ACSE/X07	AR	< 0.10		----		< 0.10	
>C6-C8 Aliphatic	HS_1D_AL	mg/kg	NAM/ACSE/X07	AR	< 0.10		----		< 0.10	
>C8-C10 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	
>C10-C12 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	
>C12-C16 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	
>C16-C21 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	
>C21-C35 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	
>C35-C40 Aliphatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	
C6-C7 Aromatic	HS_1D_AR	mg/kg	NAM/ACSE/X07	AR	< 0.10		----		< 0.10	
C7-C8 Aromatic	HS_1D_AR	mg/kg	NAM/ACSE/X07	AR	< 0.10		----		< 0.10	
>C8-C10 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	
>C10-C12 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	
>C12-C16 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	
>C16-C21 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	
>C21-C35 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	
>C35-C40 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	
Total Speciated TPH (C6-C40)	EH+HS_2D_TOTAL	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	
Total Speciated TPH (C6-C35)	EH+HS_2D_TOTAL	mg/kg	NAM/ACSE/X07	AR	< 10.0		----		< 10.0	

Subcontracted Analysis

Asbestos Fibre ID	SC	SC	SC	Attached	----	Attached
Free Cyanide	mg/kg	SC	SC	Attached	----	Attached

Total TPH (C10-C40) with cleanup

Mineral Oil (C10-C40)	EH_CU_1D_TOTAL	mg/kg	MT/ACSE/105	AR	----	< 50	----
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Technical Information for Analytical Results

Analysis

* - denotes analysis covered by our UKAS accreditation.

- denoted analysis covered by our MCERTS certification & UKAS accreditation.

Loss on Ignition (MT/ACSE/302) is carried out at our laboratory at Unit D11 Admiralty Park, Station Road, Holton Heath, Poole, Dorset BH16 6HX.

AD = Sample tested in air dried condition.

AR = Sample tested in as-received condition.

AS = Accreditation status.

D = Sample tested in dry condition.

L = Laboratory prepared leachate.

SC = Sub contracted.

[^] = Clients supplied information.

All MCERTS certified test values reported on a dry weight basis.

The preparation of 10:1 Leachates (to BS EN 12457-2:2002) and 2:1 leachates (to BS EN 12457-1:2002) fall outside the scope of our UKAS accreditation.

Soils and leachates are prepared at our laboratory at Unit D11 Admiralty Park, Station Road, Holton Heath, Poole, Dorset BH16 6HX.

Method uncertainty available on request.

Where results are less than the limit of detection, the value of 0 is used in calculations.

Key to HWOL Acronyms

Acronym	Description
HS	- Headspace analysis
EH	- Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	- Clean-up - e.g. by florisil, silica gel
1D	- GC - Single coil gas chromatography
Total	- Aliphatics & Aromatics
AL	- Aliphatics only
AR	- Aromatics only
2D	- GC-GC - Double coil gas chromatography
#1	- e.g. EH_2D_Total_#1 means humics mathematically subtracted
#2	- e.g. EH_2D_Total_#2 means fatty acids mathematically subtracted
-	- Operator - underscore to separate acronyms (exception for +)
+	- Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Deviating Codes

Deviating Samples

The use of any of the following symbols indicates that the sample was deviating and it is possible therefore that the results provided may not be representative of the sample taken.

- a - The date and /or time of sampling has not been provided, therefore it is not known if the time lapse between sampling and analysis has exceeded the acceptable holding time(s)*.
- b - The test item was received in a container which has not been recommended*.
- c - On receipt, the temperature of the sample received was found to fall outside the recommendations of BS ISO 18512:2007, Soil Quality. Guidance on long and short term storage of soil samples*.
- d - The sample was received in a container that had not been filled as recommended*.
- e - The delay between sampling and sample receipt is greater than the recommended holding time for the analyte of interest in this matrix*.
- f - The delay between sampling and analysis is greater than the recommended holding time for the analyte of interest in this matrix*.

In accordance with the requirements of Technical Policy Statement TPS 63; UKAS Policy on Deviating Samples, all UKAS accredited testing laboratories are required to notify their clients that calibration or test results may be invalid where samples are found to be deviating. It is the opinion of ACSE that the term invalid should be interpreted as 'not fully representative of the sample taken at source'.

The following Additional Deviating Sample Codes may also be used.

I/S - Insufficient sample mass/volume received for accurate quantification of this analyte.

U/S - The sample received was deemed unsuitable for accurate determination of this analyte using the Test Methods available.

S/C - The sample received was subcontracted for analysis.

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