A2 Site Investigation One Westminster Bridge Road, London SE1 7XW	Client	Project	Location	Created by	Approved by	Date
	The Crown Estate	East Hemel – Ground Water Sampling	D1	MB	FA	30/07/2025

A2 Site Investigation One Westminster Bridge Road, London SE1 7XW	Client	Project	Location	Created by	Approved by	Date
	The Crown Estate	East Hemel – Ground Water Sampling	D2	MB	FA	30/07/2025

A2 Site Investigation One Westminster Bridge Road, London SE1 7XW	Client	Project	Location	Created by	Approved by	Date
	The Crown Estate	East Hemel – Ground Water Sampling	D3	MB	FA	30/07/2025

A2 Site Investigation One Westminster Bridge Road, London SE1 7XW	Client	Project	Location	Created by	Approved by	Date
	The Crown Estate	East Hemel – Ground Water Sampling	D4	MB	FA	30/07/2025

Appendix D: Geoenvironmental Laboratory Testing Results

Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US
Tel: (01244) 528777
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

A2 Site Investigations
Broom House
39 / 43 London Road, Hadleigh, Benfleet
South Bank
Essex
SS7 2QL

Attention: Fernando Afonso

CERTIFICATE OF ANALYSIS

Date of report Generation:	21 August 2025
Customer:	A2 Site Investigations
Sample Delivery Group (SDG):	250725-20
Your Reference:	64225
Location:	East Hemel
Report No:	774826
Order Number:	PO5504-ALS-01

This report has been revised and directly supersedes 774821 in its entirety.

We received 16 samples on Friday July 25, 2025 and 16 of these samples were scheduled for analysis which was completed on Thursday August 21, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.
Incorrect sampling dates and/or sample information will affect the validity of results.

Approved By:

[redacted]

Justin Keeton
Business Unit Leader - Land

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
31880359	A3			22/07/2025
31880360	A6			22/07/2025
31880361	A8			22/07/2025
31880362	B1			22/07/2025
31880363	B2			22/07/2025
31880364	B3			22/07/2025
31880689	C1			23/07/2025
31880690	C3			23/07/2025
31880691	C4			22/07/2025
31880692	C6			23/07/2025
31880693	C8			23/07/2025
31881134	DUP1			23/07/2025
31881135	DUP2			23/07/2025
31880694	EB1			22/07/2025
31881140	FIELD BLANK (FB)			22/07/2025
31881138	TRIP BLANK(TB)			

Only received samples which have had analysis scheduled will be shown on the following pages.

Validated

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

Results Legend
X Test
N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type
			31880359	A3			0.5l glass bottle (ALE227)	GW
							250ml BOD (ALE212)	GW
							500ml Plastic (ALE208)	GW
							Digitube fo PFAS analysis.	GW
							H2SO4 (ALE244)	GW
							HNO3 Filtered (ALE204)	GW
							NaOH (ALE245)	GW
							Vial (ALE297)	GW
			31880360	A6			0.5l glass bottle (ALE227)	GW
							250ml BOD (ALE212)	GW
							500ml Plastic (ALE208)	GW
							Digitube fo PFAS analysis.	GW
							H2SO4 (ALE244)	GW
							HNO3 Filtered (ALE204)	GW
							NaOH (ALE245)	GW
							Vial (ALE297)	GW
			31880361	A8			0.5l glass bottle (ALE227)	GW
							250ml BOD (ALE212)	GW
							500ml Plastic (ALE208)	GW
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 15						
							H2SO4 (ALE244)	X
							H2SO4 (ALE244)	X
Anions by Kone (w)	All	NDPs: 0 Tests: 15						
							500ml Plastic (ALE208)	X
							500ml Plastic (ALE208)	X
							500ml Plastic (ALE208)	X
BOD True Total	All	NDPs: 0 Tests: 15						
							250ml BOD (ALE212)	X
							250ml BOD (ALE212)	X
							250ml BOD (ALE212)	X
Chromium III	All	NDPs: 0 Tests: 15						
							HNO3 Filtered (ALE204)	X
							HNO3 Filtered (ALE204)	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 15						
							HNO3 Filtered (ALE204)	X
							HNO3 Filtered (ALE204)	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 15						
							0.5l glass bottle (ALE227)	X
							0.5l glass bottle (ALE227)	X
							0.5l glass bottle (ALE227)	X
EPH and CWG by FID	All	NDPs: 0 Tests: 15						
							0.5l glass bottle (ALE227)	X
							0.5l glass bottle (ALE227)	X
							0.5l glass bottle (ALE227)	X
GRO by GC-FID (W)	All	NDPs: 0 Tests: 15						
							Vial (ALE297)	X
							Vial (ALE297)	X
Hexavalent Chromium (w)	All	NDPs: 0 Tests: 15						
							500ml Plastic (ALE208)	X
							500ml Plastic (ALE208)	X
							500ml Plastic (ALE208)	X
Mercury Dissolved	All	NDPs: 0 Tests: 15						
							HNO3 Filtered (ALE204)	X
							HNO3 Filtered (ALE204)	X
Nitrite by Kone (w)	All	NDPs: 0 Tests: 15						
							NaOH (ALE245)	X
							NaOH (ALE245)	X
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 15						
							0.5l glass bottle (ALE227)	X
							0.5l glass bottle (ALE227)	X
							0.5l glass bottle (ALE227)	X
Pesticides (Suite I) by GCMS	All	NDPs: 0 Tests: 15						
							0.5l glass bottle (ALE227)	X
							0.5l glass bottle (ALE227)	X
							0.5l glass bottle (ALE227)	X
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 17						
							Digitube fo PFAS analysis.	X
							Digitube fo PFAS analysis.	X
pH Value	All	NDPs: 0 Tests: 15						
							500ml Plastic (ALE208)	X
							500ml Plastic (ALE208)	X
							500ml Plastic (ALE208)	X

31880363	B2			Vial (ALE297)	GW										X							
				NaOH (ALE245)	GW														X			
				HNO3 Filtered (ALE204)	GW					X		X						X				
				H2SO4 (ALE244)	GW		X															
				Digitube fo PFAS analysis.	GW																	X
				500ml Plastic (ALE208)	GW			X								X							X
				250ml BOD (ALE212)	GW				X														
				0.5l glass bottle (ALE227)	GW							X		X						X			
31880362	B1			Vial (ALE297)	GW										X							
				NaOH (ALE245)	GW														X			
				HNO3 Filtered (ALE204)	GW					X		X						X				
				H2SO4 (ALE244)	GW		X															
				Digitube fo PFAS analysis.	GW																	X
				500ml Plastic (ALE208)	GW			X								X							X
				250ml BOD (ALE212)	GW				X														
				0.5l glass bottle (ALE227)	GW							X		X						X			
31880361	A8			Vial (ALE297)	GW										X							
				NaOH (ALE245)	GW														X			
				HNO3 Filtered (ALE204)	GW					X		X						X				
				H2SO4 (ALE244)	GW		X															
				Digitube fo PFAS analysis.	GW																	X

Validated

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

Results Legend
X Test
N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type
			31880359	A3			0.5l glass bottle (ALE227)	GW
							250ml BOD (ALE212)	GW
							500ml Plastic (ALE208)	GW
							Digitube fo PFAS analysis.	GW
							H2SO4 (ALE244)	GW
							HNO3 Filtered (ALE204)	GW
							NaOH (ALE245)	GW
							Vial (ALE297)	GW
			31880360	A6			0.5l glass bottle (ALE227)	GW
							250ml BOD (ALE212)	GW
							500ml Plastic (ALE208)	GW
							Digitube fo PFAS analysis.	GW
							H2SO4 (ALE244)	GW
							HNO3 Filtered (ALE204)	GW
							NaOH (ALE245)	GW
							Vial (ALE297)	GW
			31880361	A8			0.5l glass bottle (ALE227)	GW
							250ml BOD (ALE212)	GW
							500ml Plastic (ALE208)	GW
Phosphate by Kone (w)	All	NDPs: 0 Tests: 15						
							X	
							X	
							X	
Suspended Solids	All	NDPs: 0 Tests: 15						
							X	
							X	
							X	
SVOC MS (W) - Aqueous	All	NDPs: 0 Tests: 15						
			X					
							X	
							X	
Total Metals by ICP-MS	All	NDPs: 0 Tests: 15						
							X	
							X	
							X	
Total Nitrogen	All	NDPs: 0 Tests: 15						
							X	
							X	
							X	
Total Organic and Inorganic Carbon	All	NDPs: 0 Tests: 15						
					X			
							X	
TPH CWG (W)	All	NDPs: 0 Tests: 15						
			X					
							X	
							X	
VOC MS (W)	All	NDPs: 0 Tests: 15						
							X	
							X	

31880363	B2			Vial (ALE297)	GW																X
				NaOH (ALE245)	GW																
				HNO3 Filtered (ALE204)	GW																
				H2SO4 (ALE244)	GW												X				
				Digitube fo PFAS analysis.	GW																
				500ml Plastic (ALE208)	GW		X		X				X		X						
				250ml BOD (ALE212)	GW																
				0.5l glass bottle (ALE227)	GW						X								X		
31880362	B1			Vial (ALE297)	GW																X
				NaOH (ALE245)	GW																
				HNO3 Filtered (ALE204)	GW																
				H2SO4 (ALE244)	GW												X				
				Digitube fo PFAS analysis.	GW																
				500ml Plastic (ALE208)	GW		X		X				X		X						
				250ml BOD (ALE212)	GW																
				0.5l glass bottle (ALE227)	GW						X								X		
31880361	A8			Vial (ALE297)	GW																X
				NaOH (ALE245)	GW																
				HNO3 Filtered (ALE204)	GW																
				H2SO4 (ALE244)	GW												X				
				Digitube fo PFAS analysis.	GW																

Validated

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

Results Legend
X Test
N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type
			31880364	B3			0.5l glass bottle (ALE227)	GW
							250ml BOD (ALE212)	GW
							500ml Plastic (ALE208)	GW
							Digitube fo PFAS analysis.	GW
							H2SO4 (ALE244)	GW
							HNO3 Filtered (ALE204)	GW
							NaOH (ALE245)	GW
							Vial (ALE297)	GW
			31880689	C1			0.5l glass bottle (ALE227)	GW
							250ml BOD (ALE212)	GW
							500ml Plastic (ALE208)	GW
							Digitube fo PFAS analysis.	GW
							H2SO4 (ALE244)	GW
							HNO3 Filtered (ALE204)	GW
							NaOH (ALE245)	GW
							Vial (ALE297)	GW
			31880690	C3			0.5l glass bottle (ALE227)	GW
							250ml BOD (ALE212)	GW
							500ml Plastic (ALE208)	GW
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 15						
							H2SO4 (ALE244)	GW
							H2SO4 (ALE244)	GW
Anions by Kone (w)	All	NDPs: 0 Tests: 15						
							500ml Plastic (ALE208)	GW
							500ml Plastic (ALE208)	GW
							500ml Plastic (ALE208)	GW
BOD True Total	All	NDPs: 0 Tests: 15						
							250ml BOD (ALE212)	GW
							250ml BOD (ALE212)	GW
							250ml BOD (ALE212)	GW
Chromium III	All	NDPs: 0 Tests: 15						
							HNO3 Filtered (ALE204)	GW
							HNO3 Filtered (ALE204)	GW
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 15						
							HNO3 Filtered (ALE204)	GW
							HNO3 Filtered (ALE204)	GW
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 15						
							0.5l glass bottle (ALE227)	GW
							0.5l glass bottle (ALE227)	GW
							0.5l glass bottle (ALE227)	GW
EPH and CWG by FID	All	NDPs: 0 Tests: 15						
							0.5l glass bottle (ALE227)	GW
							0.5l glass bottle (ALE227)	GW
							0.5l glass bottle (ALE227)	GW
GRO by GC-FID (W)	All	NDPs: 0 Tests: 15						
							Vial (ALE297)	GW
							Vial (ALE297)	GW
Hexavalent Chromium (w)	All	NDPs: 0 Tests: 15						
							500ml Plastic (ALE208)	GW
							500ml Plastic (ALE208)	GW
							500ml Plastic (ALE208)	GW
Mercury Dissolved	All	NDPs: 0 Tests: 15						
							HNO3 Filtered (ALE204)	GW
							HNO3 Filtered (ALE204)	GW
Nitrite by Kone (w)	All	NDPs: 0 Tests: 15						
							NaOH (ALE245)	GW
							NaOH (ALE245)	GW
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 15						
							0.5l glass bottle (ALE227)	GW
							0.5l glass bottle (ALE227)	GW
							0.5l glass bottle (ALE227)	GW
Pesticides (Suite I) by GCMS	All	NDPs: 0 Tests: 15						
							0.5l glass bottle (ALE227)	GW
							0.5l glass bottle (ALE227)	GW
							0.5l glass bottle (ALE227)	GW
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 17						
							Digitube fo PFAS analysis.	GW
							H2SO4 (ALE244)	GW
							Digitube fo PFAS analysis.	GW
pH Value	All	NDPs: 0 Tests: 15						
							500ml Plastic (ALE208)	GW
							500ml Plastic (ALE208)	GW
							500ml Plastic (ALE208)	GW

31880692	C6			Vial (ALE297)	GW							X								
				NaOH (ALE245)	GW										X					
				HNO3 Filtered (ALE204)	GW				X	X				X						
				H2SO4 (ALE244)	GW	X														
				Digitube fo PFAS analysis.	GW														X	
				500ml Plastic (ALE208)	GW		X						X							X
				250ml BOD (ALE212)	GW			X												
				0.5l glass bottle (ALE227)	GW						X	X					X	X		
31880691	C4			Vial (ALE297)	GW							X								
				NaOH (ALE245)	GW										X					
				HNO3 Filtered (ALE204)	GW				X	X				X						
				H2SO4 (ALE244)	GW	X														
				Digitube fo PFAS analysis.	GW														X	
				500ml Plastic (ALE208)	GW		X						X							X
				250ml BOD (ALE212)	GW			X												
				0.5l glass bottle (ALE227)	GW						X	X					X	X		
31880690	C3			Vial (ALE297)	GW							X								
				NaOH (ALE245)	GW										X					
				HNO3 Filtered (ALE204)	GW				X	X				X						
				H2SO4 (ALE244)	GW	X														
				Digitube fo PFAS analysis.	GW														X	

Validated

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

Results Legend
X Test
N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Lab Sample No(s)			31880364	31880689	31880690
Customer Sample Reference			B3	C1	C3
AGS Reference					
Depth (m)					
Container			0.5l glass bottle (ALE227)	0.5l glass bottle (ALE227)	0.5l glass bottle (ALE227)
			250ml BOD (ALE212)	250ml BOD (ALE212)	250ml BOD (ALE212)
			500ml Plastic (ALE208)	500ml Plastic (ALE208)	500ml Plastic (ALE208)
			Digitube fo PFAS analysis.	Digitube fo PFAS analysis.	
			H2SO4 (ALE244)	H2SO4 (ALE244)	
			HNO3 Filtered (ALE204)	HNO3 Filtered (ALE204)	
			NaOH (ALE245)	NaOH (ALE245)	
			Vial (ALE297)	Vial (ALE297)	
Sample Type			GW	GW	GW
Phosphate by Kone (w)	All	NDPs: 0 Tests: 15	X	X	X
Suspended Solids	All	NDPs: 0 Tests: 15	X	X	X
SVOC MS (W) - Aqueous	All	NDPs: 0 Tests: 15	X	X	X
Total Metals by ICP-MS	All	NDPs: 0 Tests: 15	X	X	X
Total Nitrogen	All	NDPs: 0 Tests: 15	X	X	X
Total Organic and Inorganic Carbon	All	NDPs: 0 Tests: 15	X	X	
TPH CWG (W)	All	NDPs: 0 Tests: 15	X	X	X
VOC MS (W)	All	NDPs: 0 Tests: 15	X	X	

31880692	C6			Vial (ALE297)	GW								X
				NaOH (ALE245)	GW								
				HNO3 Filtered (ALE204)	GW								
				H2SO4 (ALE244)	GW						X		
				Digitube fo PFAS analysis.	GW								
				500ml Plastic (ALE208)	GW	X	X		X	X			
				250ml BOD (ALE212)	GW								
				0.5l glass bottle (ALE227)	GW			X				X	
31880691	C4			Vial (ALE297)	GW								X
				NaOH (ALE245)	GW								
				HNO3 Filtered (ALE204)	GW								
				H2SO4 (ALE244)	GW						X		
				Digitube fo PFAS analysis.	GW								
				500ml Plastic (ALE208)	GW	X	X		X	X			
				250ml BOD (ALE212)	GW								
				0.5l glass bottle (ALE227)	GW			X				X	
31880690	C3			Vial (ALE297)	GW								X
				NaOH (ALE245)	GW								
				HNO3 Filtered (ALE204)	GW								
				H2SO4 (ALE244)	GW						X		
				Digitube fo PFAS analysis.	GW								

Validated

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

Results Legend
X Test
N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type
			31880693	C8			0.5l glass bottle (ALE227)	GW
							250ml BOD (ALE212)	GW
							500ml Plastic (ALE208)	GW
							Digitube fo PFAS analysis.	GW
							H2SO4 (ALE244)	GW
							HNO3 Filtered (ALE204)	GW
							NaOH (ALE245)	GW
							Vial (ALE297)	GW
			31881134	DUP1			0.5l glass bottle (ALE227)	GW
							250ml BOD (ALE212)	GW
							500ml Plastic (ALE208)	GW
							Digitube fo PFAS analysis.	GW
							H2SO4 (ALE244)	GW
							HNO3 Filtered (ALE204)	GW
							NaOH (ALE245)	GW
							Vial (ALE297)	GW
			31881135	DUP2			0.5l glass bottle (ALE227)	GW
							250ml BOD (ALE212)	GW
							500ml Plastic (ALE208)	GW
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 15						
							H2SO4 (ALE244)	X
							H2SO4 (ALE244)	X
Anions by Kone (w)	All	NDPs: 0 Tests: 15						
							500ml Plastic (ALE208)	X
							500ml Plastic (ALE208)	X
							500ml Plastic (ALE208)	X
BOD True Total	All	NDPs: 0 Tests: 15						
							250ml BOD (ALE212)	X
							250ml BOD (ALE212)	X
							250ml BOD (ALE212)	X
Chromium III	All	NDPs: 0 Tests: 15						
							HNO3 Filtered (ALE204)	X
							HNO3 Filtered (ALE204)	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 15						
							HNO3 Filtered (ALE204)	X
							HNO3 Filtered (ALE204)	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 15						
							0.5l glass bottle (ALE227)	X
							0.5l glass bottle (ALE227)	X
							0.5l glass bottle (ALE227)	X
EPH and CWG by FID	All	NDPs: 0 Tests: 15						
							0.5l glass bottle (ALE227)	X
							0.5l glass bottle (ALE227)	X
							0.5l glass bottle (ALE227)	X
GRO by GC-FID (W)	All	NDPs: 0 Tests: 15						
							Vial (ALE297)	X
							Vial (ALE297)	X
Hexavalent Chromium (w)	All	NDPs: 0 Tests: 15						
							500ml Plastic (ALE208)	X
							500ml Plastic (ALE208)	X
							500ml Plastic (ALE208)	X
Mercury Dissolved	All	NDPs: 0 Tests: 15						
							HNO3 Filtered (ALE204)	X
							HNO3 Filtered (ALE204)	X
Nitrite by Kone (w)	All	NDPs: 0 Tests: 15						
							NaOH (ALE245)	X
							NaOH (ALE245)	X
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 15						
							0.5l glass bottle (ALE227)	X
							0.5l glass bottle (ALE227)	X
							0.5l glass bottle (ALE227)	X
Pesticides (Suite I) by GCMS	All	NDPs: 0 Tests: 15						
							0.5l glass bottle (ALE227)	X
							0.5l glass bottle (ALE227)	X
							0.5l glass bottle (ALE227)	X
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 17						
							Digitube fo PFAS analysis.	X
							Digitube fo PFAS analysis.	X
pH Value	All	NDPs: 0 Tests: 15						
							500ml Plastic (ALE208)	X
							500ml Plastic (ALE208)	X
							500ml Plastic (ALE208)	X

31881138	TRIP BLANK(TB)			Vial (ALE297)	GW									X							
				NaOH (ALE245)	GW												X				
				H2SO4 (ALE244)	GW	X															
				Digitube fo PFAS analysis.	GW															X	
				500ml Plastic (ALE208)	GW		X		X	X					X	X					X
				250ml BOD (ALE212)	GW			X													
				0.5l glass bottle (ALE227)	GW						X	X						X	X		
31881140	FIELD BLANK (FB)			Vial (ALE297)	GW									X							
				NaOH (ALE245)	GW												X				
				HNO3 Filtered (ALE204)	GW				X	X						X					
				H2SO4 (ALE244)	GW	X															
				Digitube fo PFAS analysis.	GW															X	
				500ml Plastic (ALE208)	GW		X								X						X
				250ml BOD (ALE212)	GW			X													
				0.5l glass bottle (ALE227)	GW						X	X						X	X		
31880694	EB1			Digitube fo PFAS analysis.	GW															X	
31881135	DUP2			Vial (ALE297)	GW									X							
				NaOH (ALE245)	GW												X				
				HNO3 Filtered (ALE204)	GW				X	X						X					
				H2SO4 (ALE244)	GW	X															
				Digitube fo PFAS analysis.	GW															X	

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

Results Legend
X Test
N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Lab Sample No(s)			31880693	31881134	31881135
Customer Sample Reference			C8	DUP1	DUP2
AGS Reference					
Depth (m)					
Container			0.5l glass bottle (ALE227)	0.5l glass bottle (ALE227)	0.5l glass bottle (ALE227)
			250ml BOD (ALE212)	250ml BOD (ALE212)	250ml BOD (ALE212)
			500ml Plastic (ALE208)	500ml Plastic (ALE208)	500ml Plastic (ALE208)
			Digitube fo PFAS analysis.	Digitube fo PFAS analysis.	
			H2SO4 (ALE244)	H2SO4 (ALE244)	
			HNO3 Filtered (ALE204)	HNO3 Filtered (ALE204)	
			NaOH (ALE245)	NaOH (ALE245)	
			Vial (ALE297)	Vial (ALE297)	
Sample Type			GW	GW	GW
Phosphate by Kone (w)	All	NDPs: 0 Tests: 15	X	X	X
Suspended Solids	All	NDPs: 0 Tests: 15	X	X	X
SVOC MS (W) - Aqueous	All	NDPs: 0 Tests: 15	X	X	X
Total Metals by ICP-MS	All	NDPs: 0 Tests: 15	X	X	X
Total Nitrogen	All	NDPs: 0 Tests: 15	X	X	X
Total Organic and Inorganic Carbon	All	NDPs: 0 Tests: 15	X	X	
TPH CWG (W)	All	NDPs: 0 Tests: 15	X	X	X
VOC MS (W)	All	NDPs: 0 Tests: 15	X	X	

31881138	TRIP BLANK(TB)			Vial (ALE297)	GW																X
				NaOH (ALE245)	GW																
				H2SO4 (ALE244)	GW												X				
				Digitube fo PFAS analysis.	GW																
				500ml Plastic (ALE208)	GW		X		X				X		X						
				250ml BOD (ALE212)	GW																
				0.5l glass bottle (ALE227)	GW						X								X		
31881140	FIELD BLANK (FB)			Vial (ALE297)	GW																X
				NaOH (ALE245)	GW																
				HNO3 Filtered (ALE204)	GW																
				H2SO4 (ALE244)	GW												X				
				Digitube fo PFAS analysis.	GW																
				500ml Plastic (ALE208)	GW		X		X				X		X						
				250ml BOD (ALE212)	GW																
				0.5l glass bottle (ALE227)	GW						X								X		
31880694	EB1			Digitube fo PFAS analysis.	GW																
31881135	DUP2			Vial (ALE297)	GW																X
				NaOH (ALE245)	GW																
				HNO3 Filtered (ALE204)	GW																
				H2SO4 (ALE244)	GW												X				
				Digitube fo PFAS analysis.	GW																

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	A3	A6	A8	B1	B2	B3
			Depth (m)	.	.	.	.	.	.
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
			Date Sampled	22/07/2025	22/07/2025	22/07/2025	22/07/2025	22/07/2025	22/07/2025
			Sample Time	.	.	.	.	.	.
			Date Received	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025
			SDG Ref	250725-20	250725-20	250725-20	250725-20	250725-20	250725-20
			Lab Sample No.(s)	31880359	31880360	31880361	31880362	31880363	31880364
			AGS Reference						
Suspended solids, Total	<2 mg/l	TM022		445 #	129 #	807 #	8.15 #	1120 #	1330 #
BOD, unfiltered	<1 mg/l	TM045		<10 #	<10 #	<10 #	<1 #	<10 #	<10 #
Carbon, Organic (diss.filt)	<3 mg/l	TM090		<3	<3	<3	<3	<3	<3
Organic Carbon, Total	<3 mg/l	TM090		<3 #	<3 #	<3 #	<3 #	5.13 #	<3 #
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099		<0.2 #	<0.2 #	<0.2 #	<0.2 #	<0.2 #	<0.2 #
Chromium, Trivalent	<0.03 mg/l	TM152		<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Arsenic (diss.filt)	<0.5 µg/l	TM152		<0.5 #	<0.5 #	<0.5 #	<0.5 #	<0.5 #	<0.5 #
Barium (diss.filt)	<0.2 µg/l	TM152		26.7 #	32.4 #	50.7 #	36.5 #	30 #	35.4 #
Beryllium (diss.filt)	<0.1 µg/l	TM152		<0.1 #	<0.1 #	<0.1 #	<0.1 #	<0.1 #	<0.1 #
Boron (diss.filt)	<10 µg/l	TM152		32 #	29.2 #	15.6 #	<10 #	<10 #	<10 #
Cadmium (diss.filt)	<0.08 µg/l	TM152		<0.08 #	<0.08 #	<0.08 #	<0.08 #	<0.08 #	<0.08 #
Chromium (diss.filt)	<1 µg/l	TM152		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Copper (diss.filt)	<0.3 µg/l	TM152		<0.3 #	0.713 #	0.641 #	0.32 #	0.492 #	0.458 #
Lead (diss.filt)	<0.2 µg/l	TM152		<0.2 #	<0.2 #	<0.2 #	<0.2 #	<0.2 #	<0.2 #
Molybdenum (diss.filt)	<3 µg/l	TM152		<3 #	<3 #	<3 #	<3 #	<3 #	<3 #
Nickel (diss.filt)	<0.4 µg/l	TM152		0.403 #	1.62 #	2.59 #	1.77 #	0.644 #	0.42 #
Selenium (diss.filt)	<1 µg/l	TM152		<1 #	<1 #	<1 #	1.17 #	<1 #	<1 #
Vanadium (diss.filt)	<1 µg/l	TM152		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Zinc (diss.filt)	<1 µg/l	TM152		2.29 #	7.03 #	2.7 #	3.14 #	1.78 #	3.74 #
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152		595 2	456 2	1740 2	352 2	1170 2	1650 2
Mercury (diss.filt)	<0.01 µg/l	TM183		<0.01 #	<0.01 #	<0.01 #	<0.01 #	<0.01 #	<0.01 #
Nitrite as NO2	<0.05 mg/l	TM184		<0.05 #	<0.05 #	<0.05 #	<0.05 #	<0.05 #	<0.05 #
Sulphate	<2 mg/l	TM184		35 #	35.5 #	32 #	29.5 #	27.2 #	15.2 #
Chloride	<2 mg/l	TM184		20.2 #	28.9 #	40.8 #	30.2 #	19.7 #	28.1 #
Phosphate (Ortho as P)	<0.02 mg/l	TM184		<0.02 #	0.0372 #	0.0427 #	0.0346 #	0.0343 #	0.0206 #
Nitrate as NO3	<0.3 mg/l	TM184		58.6 #	23.1 #	23 #	48.5 #	46.5 #	36.3 #
Nitrogen, Total	<1 mg/l	TM212		16.2 #	5.64 #	5.73 #	12.3 #	11.8 #	8.99 #
Chromium, Hexavalent	<0.03 mg/l	TM241		<0.03 #	<0.03 #	<0.03 #	<0.03 #	<0.03 #	<0.03 #
pH	<1 pH Units	TM256		7.41 #	7.57 #	7.39 #	7.41 #	7.37 #	7.38 #
Trifluralin	<0.01 µg/l	TM343		<0.1	<0.05	<0.02	<0.015	<0.015	<0.1
alpha-HCH	<0.01 µg/l	TM343		<0.1	<0.05	<0.02	<0.015	<0.015	<0.1
gamma-HCH (Lindane)	<0.01 µg/l	TM343		<0.1	<0.05	<0.02	<0.015	<0.015	<0.1
Heptachlor	<0.01 µg/l	TM343		<0.1	<0.05	<0.02	<0.015	<0.015	<0.1

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4★§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	A3	A6	A8	B1	B2	B3
			Depth (m)	.	.	.	.	.	.
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
			Date Sampled	22/07/2025	22/07/2025	22/07/2025	22/07/2025	22/07/2025	22/07/2025
			Sample Time	.	.	.	.	.	.
			Date Received	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025
			SDG Ref	250725-20	250725-20	250725-20	250725-20	250725-20	250725-20
			Lab Sample No.(s)	31880359	31880360	31880361	31880362	31880363	31880364
			AGS Reference						
Aldrin	<0.01 µg/l	TM343		<0.1	<0.05	<0.02	<0.015	<0.015	<0.1
beta-HCH	<0.01 µg/l	TM343		<0.1	<0.05	<0.02	<0.015	<0.015	<0.1
Isodrin	<0.01 µg/l	TM343		<0.1	<0.05	<0.02	<0.015	<0.015	<0.1
delta-HCH	<0.01 µg/l	TM343		<0.1	<0.05	<0.02	<0.015	<0.015	<0.1
Heptachlor epoxide	<0.01 µg/l	TM343		<0.1	<0.05	<0.02	<0.015	<0.015	<0.1
o,p'-DDE	<0.01 µg/l	TM343		<0.1	<0.05	<0.02	<0.015	<0.015	<0.1
Endosulphan I	<0.01 µg/l	TM343		<0.1	<0.05	<0.02	<0.015	<0.015	<0.1
trans-Chlordane	<0.01 µg/l	TM343		<0.1	<0.05	<0.02	<0.015	<0.015	<0.1
cis-Chlordane	<0.01 µg/l	TM343		<0.1	<0.05	<0.02	<0.015	<0.015	<0.1
p,p'-DDE	<0.01 µg/l	TM343		<0.1	<0.05	<0.02	<0.015	<0.015	<0.1
Dieldrin	<0.01 µg/l	TM343		<0.1	<0.05	<0.02	<0.015	<0.015	<0.1
o,p'-DDD (TDE)	<0.01 µg/l	TM343		<0.1	<0.05	<0.02	<0.015	<0.015	<0.1
Endrin	<0.01 µg/l	TM343		<0.1	<0.05	<0.02	<0.015	<2	<2
o,p'-DDT	<0.01 µg/l	TM343		<0.1	<0.05	<0.02	<0.015	<0.015	<0.1
p,p'-DDD (TDE)	<0.01 µg/l	TM343		<0.1	<0.05	<0.02	<0.015	<0.015	<0.1
Endosulphan II	<0.02 µg/l	TM343		<0.2	<0.1	<0.04	<0.03	<0.03	<0.2
p,p'-DDT	<0.01 µg/l	TM343		<0.2	<2	<0.04	<2		
o,p'-Methoxychlor	<0.01 µg/l	TM343		<0.1	<0.05	<0.02	<0.015	<2	<2
p,p'-Methoxychlor	<0.01 µg/l	TM343		<0.2	<2	<0.04	<2	<2	<2
Endosulphan Sulphate	<0.02 µg/l	TM343		<0.2	<0.1	<0.04	<0.03	<0.03	<0.2
Permethrin I	<0.01 µg/l	TM343		<0.1	<0.05	<0.02	<0.015	<0.015	<0.1
Permethrin II	<0.01 µg/l	TM343		<0.1	<0.05	<0.02	<0.015	<0.015	<0.1
PFBA (375-22-4)	<2 ng/l	TM434		<20 #	<10 #	42.8 #	57.6 #	<20 #	<20 #
PFMOPrA (377-73-1)	<1 ng/l	TM434		<10 #	<5 #	<10 #	<1 #	<10 #	<10 #
3:3 FTCA (356-02-5)	<5 ng/l	TM434		<20 #	<10 #	<20 #	<2 #	<20 #	<20 #
PFPA (2706-90-3)	<1 ng/l	TM434		<10 #	18.8 #	143 #	307 #	18.5 #	<10 #
PFMOBA (863090-89-5)	<1 ng/l	TM434		<10 #	<5 #	<10 #	<1 #	<10 #	<10 #
4:2 FTS (757124-72-4)	<1 ng/l	TM434		<10 #	<5 #	<10 #	<1 #	<10 #	<10 #
NFDHA (151772-58-6)	<3 ng/l	TM434		<30 #	<15 #	<30 #	<3 #	<30 #	<30 #
PFBS (375-73-5)	<1 ng/l	TM434		<10 #	<5 #	93.1 #	58 #	<10 #	<10 #
PFHxA (307-24-4)	<1 ng/l	TM434		<10 #	11.5 #	165 #	197 #	<10 #	<10 #
HFPO-DA (13252-13-6)	<2 ng/l	TM434		<20 #	<10 #	<20 #	<2 #	<20 #	<20 #
PFEESA (113507-82-7)	<1 ng/l	TM434		<10 #	<5 #	<10 #	<1 #	<10 #	<10 #

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4#§@ Sample deviation (see appendix)

Customer Sample Ref.	A3	A6	A8	B1	B2	B3
Depth (m)	.	.	.	.	.	.
Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
Date Sampled	22/07/2025	22/07/2025	22/07/2025	22/07/2025	22/07/2025	22/07/2025
Sample Time	.	.	.	.	.	.
Date Received	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025
SDG Ref	250725-20	250725-20	250725-20	250725-20	250725-20	250725-20
Lab Sample No.(s)	31880359	31880360	31880361	31880362	31880363	31880364
AGS Reference						

Component	LOD/Units	Method											
PFHpA (375-85-9)	<1 ng/l	TM434	<10	#	8.33	#	51.5	#	65.1	#	<10	#	<10	#
PFPeS (2706-91-4)	<1 ng/l	TM434	<10	#	5.82	#	68.9	#	60.6	#	<10	#	<10	#
5:3 FTCA (914637-49-3)	<5 ng/l	TM434	<50	#	<25	#	<50	#	<5	#	<50	#	<50	#
ADONA (919005-14-4)	<1 ng/l	TM434	<10	#	<5	#	<10	#	<1	#	<10	#	<10	#
6:2 FTS (27619-97-2)	<1 ng/l	TM434	<10	#	<5	#	731	#	102	#	<10	#	<10	#
FBSA (30334-69-1)	<1 ng/l	TM434	<10	#	<5	#	42.1	#	52	#	<10	#	<10	#
PFOA (335-67-1)	<0.65 ng/l	TM434	<6.5	#	6.49	#	93.2	#	60.5	#	<6.5	#	<6.5	#
PFHxS (355-46-4)	<1 ng/l	TM434	<10	#	38.9	#	427	#	289	#	<10	#	<10	#
PFNA (375-95-1)	<1 ng/l	TM434	<10	#	<5	#	<10	#	3.03	#	<10	#	<10	#
PFHpS (375-92-8)	<1 ng/l	TM434	<10	#	<5	#	20.3	#	19.1	#	<10	#	<10	#
8:2 FTS (39108-34-4)	<2 ng/l	TM434	<20	#	<10	#	34.4	#	2.4	#	<20	#	<20	#
HFPO-TA (13252-14-7)	<5 ng/l	TM434	<50	#	<25	#	<50	#	<5	#	<50	#	<50	#
PFDA (335-76-2)	<2 ng/l	TM434	<20	#	<10	#	<20	#	<2	#	<20	#	<20	#
MeFOSAA (2355-31-9)	<2 ng/l	TM434	<20	#	<10	#	<20	#	<2	#	<20	#	<20	#
7:3 FTCA (812-70-4)	<5 ng/l	TM434	<50	#	<25	#	<50	#	<5	#	<50	#	<50	#
Linear PFOS (1763-23-1)	<0.65 ng/l	TM434	<6.5	#	43.9	#	436	#	392	#	<6.5	#	<6.5	#
Branched PFOS	<0.65 ng/l	TM434	<6.5	#	35.3	#	478	#	355	#	<6.5	#	<6.5	#
EtFOSAA (2991-50-6)	<2 ng/l	TM434	<20	#	<10	#	<20	#	<2	#	<20	#	<20	#
PFUnA (2058-94-8)	<2 ng/l	TM434	<20	#	<10	#	<20	#	<2	#	<20	#	<20	#
9Cl-PF3ONS (756426-58-1)	<1 ng/l	TM434	<10	#	<5	#	<10	#	<1	#	<10	#	<10	#
PFNS (68259-12-1)	<1 ng/l	TM434	<10	#	<5	#	<10	#	<1	#	<10	#	<10	#
FHxSA (41997-13-1)	<1 ng/l	TM434	<10	#	<5	#	111	#	97.2	#	<10	#	<10	#
PFDoA (307-55-1)	<2 ng/l	TM434	<20	#	<10	#	<20	#	<2	#	<20	#	<20	#
PFDS (335-77-3)	<2 ng/l	TM434	<20	#	<10	#	<20	#	<2	#	<20	#	<20	#
PFTrDA (72629-94-8)	<3 ng/l	TM434	<30	#	<15	#	<30	#	<3	#	<30	#	<30	#
11Cl-PF3OUdS (763051-92-9)	<2 ng/l	TM434	<20	#	<10	#	<20	#	<2	#	<20	#	<20	#
PFUnDS (749786-16-1)	<2 ng/l	TM434	<20	#	<10	#	<20	#	<2	#	<20	#	<20	#
PFTeA (376-06-7)	<1 ng/l	TM434	<10	#	<5	#	<10	#	<1	#	<10	#	<10	#
PFOSA (754-91-6)	<2 ng/l	TM434	<20	#	<10	#	<20	#	<2	#	<20	#	<20	#
PFDoS (79780-39-5)	<2 ng/l	TM434	<20	#	<10	#	<20	#	<2	#	<20	#	<20	#
PFHxDA (67905-19-5)	<1 ng/l	TM434	<10	#	<5	#	<10	#	<1	#	<10	#	<10	#
MeFOSE (24448-09-7)	<10 ng/l	TM434	<100	#	<50	#	<100	#	<10	#	<100	#	<100	#
N-MeFOSA (31506-32-8)	<1 ng/l	TM434	<10	#	<5	#	<10	#	<1	#	<10	#	<10	#

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Customer Sample Ref.			A3	A6	A8	B1	B2	B3
Depth (m)			.	.	.	.	.	.
Sample Type			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
Date Sampled			22/07/2025	22/07/2025	22/07/2025	22/07/2025	22/07/2025	22/07/2025
Sample Time			.	.	.	.	.	.
Date Received			25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025
SDG Ref			250725-20	250725-20	250725-20	250725-20	250725-20	250725-20
Lab Sample No.(s)			31880359	31880360	31880361	31880362	31880363	31880364
AGS Reference								
Component	**LOD/Units**	**Method**						
EtFOSE (1691-99-2)	<10 ng/l	TM434	<100 #	<50 #	<100 #	<10 #	<100 #	<100 #
PFODA (16517-11-6)	<1 ng/l	TM434	<10 #	<5 #	<10 #	<1 #	<10 #	<10 #
N-EtFOSA (4151-50-2)	<1 ng/l	TM434	<10 #	<5 #	<10 #	<1 #	<10 #	<10 #
6:2 FTAB (34455-29-3)	<10 ng/l	TM434	<100	<50	744	369	<100	<100
Total PFOS	<0.65 ng/l	TM434	<6.5 #	79.2 #	914 #	746 #	<6.5 #	<6.5 #
Total PFAS DWI 47	<90 ng/l	TM434	<900	<450	2940	2120	<900	<900
PFecHS (133201-07-7)	<1 ng/l	TM434	<10 #	<5 #	<10 #	<1 #	<10 #	<10 #
PFTrDS (174675-49-1)	<1 ng/l	TM434	<10 #	<5 #	<10 #	<1 #	<10 #	<10 #

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	C1	C3	C4	C6	C8	DUP1
			Depth (m)	.	.	.	.	.	.
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
			Date Sampled	23/07/2025	23/07/2025	22/07/2025	23/07/2025	23/07/2025	23/07/2025
			Sample Time	.	.	.	.	.	.
			Date Received	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025
			SDG Ref	250725-20	250725-20	250725-20	250725-20	250725-20	250725-20
			Lab Sample No.(s)	31880689	31880690	31880691	31880692	31880693	31881134
			AGS Reference						
Suspended solids, Total	<2 mg/l	TM022		685 #	672 #	<2 #	772 #	934 #	<2 #
BOD, unfiltered	<1 mg/l	TM045		<10 #	2.99 #	<1 #	<10 #	<10 #	<1 #
Carbon, Organic (diss.filt)	<3 mg/l	TM090		5.35	<3	3.53	<3	<3	<3
Organic Carbon, Total	<3 mg/l	TM090		<3 ♦ #	11.5 ♦ #	5.03 #	<3 ♦ #	21.9 ♦ #	<3 ♦ #
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099		<0.2 #	<0.2 #	<0.2 #	<0.2 #	<0.2 #	<0.2 #
Chromium, Trivalent	<0.03 mg/l	TM152		<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Arsenic (diss.filt)	<0.5 µg/l	TM152		<0.5 #	<0.5 #	<0.5 #	<0.5 #	<0.5 #	<0.5 #
Barium (diss.filt)	<0.2 µg/l	TM152		37.6 #	41.6 #	52.1 #	38.3 #	25 #	49.3 #
Beryllium (diss.filt)	<0.1 µg/l	TM152		<0.1 #	<0.1 #	<0.1 #	<0.1 #	<0.1 #	<0.1 #
Boron (diss.filt)	<10 µg/l	TM152		18.8 #	13.2 #	23.9 #	<10 #	<10 #	18.9 #
Cadmium (diss.filt)	<0.08 µg/l	TM152		<0.08 #	<0.08 #	<0.08 #	<0.08 #	<0.08 #	<0.08 #
Chromium (diss.filt)	<1 µg/l	TM152		<1 #	3.69 #	<1 #	2.56 #	2.17 #	<1 #
Copper (diss.filt)	<0.3 µg/l	TM152		0.533 #	0.413 #	1.73 #	0.651 #	<0.3 #	0.73 #
Lead (diss.filt)	<0.2 µg/l	TM152		0.295 #	0.484 #	<0.2 #	<0.2 #	<0.2 #	<0.2 #
Molybdenum (diss.filt)	<3 µg/l	TM152		<3 #	<3 #	<3 #	<3 #	<3 #	<3 #
Nickel (diss.filt)	<0.4 µg/l	TM152		1.06 #	0.876 #	1.1 #	0.762 #	0.98 #	1.18 #
Selenium (diss.filt)	<1 µg/l	TM152		<1 #	1.02 #	1.04 #	<1 #	<1 #	<1 #
Vanadium (diss.filt)	<1 µg/l	TM152		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Zinc (diss.filt)	<1 µg/l	TM152		4.59 #	1.86 #	18.3 #	2.07 #	1.86 #	7.43 #
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152		583 2	894 2	271 2	903 2	570 2	299 2
Mercury (diss.filt)	<0.01 µg/l	TM183		<0.01 #	<0.01 #	<0.01 #	<0.01 #	<0.01 #	<0.01 #
Nitrite as NO2	<0.05 mg/l	TM184		<0.05 #	0.156 #	<0.05 #	<0.05 #	<0.05 #	<0.05 #
Sulphate	<2 mg/l	TM184		30.3 #	26.8 #	47 #	22.1 #	<2 #	35.1 #
Chloride	<2 mg/l	TM184		23 #	25.8 #	14.2 #	15.8 #	10.8 #	26.8 #
Phosphate (Ortho as P)	<0.02 mg/l	TM184		0.033 #	0.0235 #	0.0496 #	0.0379 #	0.0215 #	0.0392 #
Nitrate as NO3	<0.3 mg/l	TM184		47.2 #	63.4 #	48 #	67.7 #	15.8 #	44.4 #
Nitrogen, Total	<1 mg/l	TM212		12.4 #	16.6 #	12.2 #	17.8 #	3.85 #	11.4 #
Chromium, Hexavalent	<0.03 mg/l	TM241		<0.03 #	<0.03 #	<0.03 #	<0.03 #	<0.03 #	<0.03 #
pH	<1 pH Units	TM256		7.42 #	7.43 #	7.34 #	7.41 #	7.57 #	7.32 #
Trifluralin	<0.01 µg/l	TM343		<0.1	<0.05	<0.01	<0.1	<0.1	<0.01
alpha-HCH	<0.01 µg/l	TM343		<0.1	<0.05	<0.01	<0.1	<0.1	<0.01
gamma-HCH (Lindane)	<0.01 µg/l	TM343		<0.1	<0.05	<0.01	<0.1	<0.1	<0.01
Heptachlor	<0.01 µg/l	TM343		<0.1	<0.05	<0.01	<0.1	<0.1	<0.01

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
***	6:2 FTAB (see appendix)
1-4♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	C1	C3	C4	C6	C8	DUP1
			Depth (m)	.	.	.	.	.	.
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
			Date Sampled	23/07/2025	23/07/2025	22/07/2025	23/07/2025	23/07/2025	23/07/2025
			Sample Time	.	.	.	.	.	.
			Date Received	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025
			SDG Ref	250725-20	250725-20	250725-20	250725-20	250725-20	250725-20
			Lab Sample No.(s)	31880689	31880690	31880691	31880692	31880693	31881134
			AGS Reference						
Aldrin	<0.01 µg/l	TM343		<0.1	<0.05	<0.01	<0.1	<0.1	<0.01
beta-HCH	<0.01 µg/l	TM343		<0.1	<0.05	<0.01	<0.1	<0.1	<0.01
Isodrin	<0.01 µg/l	TM343		<0.1	<0.05	<0.01	<0.1	<0.1	<0.01
delta-HCH	<0.01 µg/l	TM343		<0.1	<0.05	<0.01	<0.1	<0.1	<0.01
Heptachlor epoxide	<0.01 µg/l	TM343		<0.1	<0.05	<0.01	<0.1	<0.1	<0.01
o,p'-DDE	<0.01 µg/l	TM343		<0.1	<0.05	<0.01	<0.1	<0.1	<0.01
Endosulphan I	<0.01 µg/l	TM343		<0.1	<0.05	<0.01	<0.1	<0.1	<0.01
trans-Chlordane	<0.01 µg/l	TM343		<0.1	<0.05	<0.01	<0.1	<0.1	<0.01
cis-Chlordane	<0.01 µg/l	TM343		<0.1	<0.05	<0.01	<0.1	<0.1	<0.01
p,p'-DDE	<0.01 µg/l	TM343		<0.1	<0.05	<0.01	<0.1	<0.1	<0.01
Dieldrin	<0.01 µg/l	TM343		<0.1	<0.05	<0.01	<0.1	<0.1	<0.01
o,p'-DDD (TDE)	<0.01 µg/l	TM343		<0.1	<0.05	<0.01	<0.1	<0.1	<0.01
Endrin	<0.01 µg/l	TM343		<2	<2	<2	<2	<2	<2
o,p'-DDT	<0.01 µg/l	TM343		<0.1	<0.05	<0.01	<0.1	<0.1	<0.01
p,p'-DDD (TDE)	<0.01 µg/l	TM343		<0.1	<0.05	<0.01	<0.1	<0.1	<0.01
Endosulphan II	<0.02 µg/l	TM343		<0.2	<0.1	<0.02	<0.2	<0.2	<0.02
o,p'-Methoxychlor	<0.01 µg/l	TM343		<2	<2	<2	<2	<2	<2
p,p'-Methoxychlor	<0.01 µg/l	TM343		<2	<2	<2	<2	<2	<2
Endosulphan Sulphate	<0.02 µg/l	TM343		<0.2	<0.1	<0.02	<0.2	<0.2	<0.02
Permethrin I	<0.01 µg/l	TM343		<0.1	<0.05	<0.01	<0.1	<0.1	<0.01
Permethrin II	<0.01 µg/l	TM343		<0.1	<0.05	<0.01	<0.1	<0.1	<0.01
PFBA (375-22-4)	<2 ng/l	TM434		<100 #	<20 #	26.9 4 #	<20 #	<20 #	18 #
PFMOPrA (377-73-1)	<1 ng/l	TM434		<50 #	<10 #	<1 4 #	<10 #	<10 #	<1 #
3:3 FTCA (356-02-5)	<5 ng/l	TM434		<250 #	<20 #	6.86 4 #	<20 #	<20 #	<2 #
PFPA (2706-90-3)	<1 ng/l	TM434		<50 #	12 #	42.5 4 #	<10 #	<10 #	31.5 #
PFMOBA (863090-89-5)	<1 ng/l	TM434		<50 #	<10 #	<1 4 #	<10 #	<10 #	<1 #
4:2 FTS (757124-72-4)	<1 ng/l	TM434		<50 #	<10 #	<1 4 #	<10 #	<10 #	<1 #
NFDHA (151772-58-6)	<3 ng/l	TM434		<150 #	<30 #	<3 4 #	<30 #	<30 #	<3 #
PFBS (375-73-5)	<1 ng/l	TM434		<50 #	<10 #	9.63 4 #	<10 #	<10 #	7.1 #
PFHxA (307-24-4)	<1 ng/l	TM434		<50 #	<10 #	26.9 4 #	<10 #	<10 #	19.2 #
HFPO-DA (13252-13-6)	<2 ng/l	TM434		<100 #	<20 #	<2 4 #	<20 #	<20 #	<2 #
PFEESA (113507-82-7)	<1 ng/l	TM434		<50 #	<10 #	<1 4 #	<10 #	<10 #	<1 #
PFHpA (375-85-9)	<1 ng/l	TM434		<50 #	<10 #	18.7 4 #	<10 #	<10 #	13.7 #

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	C1	C3	C4	C6	C8	DUP1
			Depth (m)	.	.	.	.	.	.
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
			Date Sampled	23/07/2025	23/07/2025	22/07/2025	23/07/2025	23/07/2025	23/07/2025
			Sample Time	.	.	.	.	.	.
			Date Received	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025
			SDG Ref	250725-20	250725-20	250725-20	250725-20	250725-20	250725-20
			Lab Sample No.(s)	31880689	31880690	31880691	31880692	31880693	31881134
			AGS Reference						
PFPeS (2706-91-4)	<1 ng/l	TM434		<50 #	<10 #	2.1 4 #	<10 #	<10 #	2.17 #
5:3 FTCA (914637-49-3)	<5 ng/l	TM434		<250 #	<50 #	<5 4 #	<50 #	<50 #	<5 #
ADONA (919005-14-4)	<1 ng/l	TM434		<50 #	<10 #	<1 4 #	<10 #	<10 #	<1 #
6:2 FTS (27619-97-2)	<1 ng/l	TM434		<50 2 #	<10 #	<1 4 #	<10 #	<10 #	<1 #
FBSA (30334-69-1)	<1 ng/l	TM434		<50 #	<10 #	4.22 4 #	<10 #	<10 #	3.78 #
PFOA (335-67-1)	<0.65 ng/l	TM434		<32.5 #	8.67 #	15 4 #	<6.5 #	<6.5 #	10.7 #
PFHxS (355-46-4)	<1 ng/l	TM434		<50 #	13.4 #	10.2 4 #	<10 #	<10 #	3.28 #
PFNA (375-95-1)	<1 ng/l	TM434		<50 #	<10 #	2.96 4 #	<10 #	<10 #	1.9 #
PFHpS (375-92-8)	<1 ng/l	TM434		<50 #	<10 #	<1 4 #	<10 #	<10 #	<1 #
8:2 FTS (39108-34-4)	<2 ng/l	TM434		<100 #	<20 #	<2 4 #	<20 #	<20 #	<2 #
HFPO-TA (13252-14-7)	<5 ng/l	TM434		<250 #	<50 #	<5 4 #	<50 #	<50 #	<5 #
PFDA (335-76-2)	<2 ng/l	TM434		<100 #	<20 #	<2 4 #	<20 #	<20 #	<2 #
MeFOSAA (2355-31-9)	<2 ng/l	TM434		<100 ♦ #	<20 ♦ #	<2 4 @ #	<20 ♦ #	<20 ♦ #	<2 ♦ #
7:3 FTCA (812-70-4)	<5 ng/l	TM434		<250 #	<50 #	<5 4 #	<50 #	<50 #	<5 #
Linear PFOS (1763-23-1)	<0.65 ng/l	TM434		<32.5 #	17.3 #	5.71 4 #	<6.5 #	<6.5 #	9.32 #
Branched PFOS	<0.65 ng/l	TM434		<32.5 #	9.04 #	9.16 4 #	<6.5 #	<6.5 #	11.7 #
EtFOSAA (2991-50-6)	<2 ng/l	TM434		<100 ♦ #	<20 ♦ #	<2 4 @ #	<20 ♦ #	<20 ♦ #	<2 ♦ #
PFUnA (2058-94-8)	<2 ng/l	TM434		<100 #	<20 #	<2 4 #	<20 #	<20 #	<2 #
9Cl-PF3ONS (756426-58-1)	<1 ng/l	TM434		<50 #	<10 #	<1 4 #	<10 #	<10 #	<1 #
PFNS (68259-12-1)	<1 ng/l	TM434		<50 #	<10 #	<1 4 #	<10 #	<10 #	<1 #
FHxSA (41997-13-1)	<1 ng/l	TM434		<50 #	<10 #	<1 4 #	<10 #	<10 #	<1 #
PFDoA (307-55-1)	<2 ng/l	TM434		<100 #	<20 #	<2 4 #	<20 #	<20 #	<2 #
PFDS (335-77-3)	<2 ng/l	TM434		<100 #	<20 #	<2 4 #	<20 #	<20 #	<2 #
PFTrDA (72629-94-8)	<3 ng/l	TM434		<150 #	<30 #	<3 4 #	<30 #	<30 #	<3 #
11Cl-PF3OUdS (763051-92-9)	<2 ng/l	TM434		<100 #	<20 #	<2 4 #	<20 #	<20 #	<2 #
PFUnDS (749786-16-1)	<2 ng/l	TM434		<100 #	<20 #	<2 4 #	<20 #	<20 #	<2 #
PFTeA (376-06-7)	<1 ng/l	TM434		<50 #	<10 #	<1 4 #	<10 #	<10 #	<1 #
PFOSA (754-91-6)	<2 ng/l	TM434		<100 #	<20 #	<2 4 #	<20 #	<20 #	<2 #
PFDoS (79780-39-5)	<2 ng/l	TM434		<100 #	<20 #	<2 4 #	<20 #	<20 #	<2 #
PFHxDA (67905-19-5)	<1 ng/l	TM434		<50 #	<10 #	<1 4 #	<10 #	<10 #	<1 #
MeFOSE (24448-09-7)	<10 ng/l	TM434		<500 ♦ #	<100 ♦ #	<10 4 @ #	<100 ♦ #	<100 ♦ #	<10 ♦ #
N-MeFOSA (31506-32-8)	<1 ng/l	TM434		<50 #	<10 #	<1 4 #	<10 #	<10 #	<1 #
EtFOSE (1691-99-2)	<10 ng/l	TM434		<500 ♦ #	<100 ♦ #	<10 4 @ #	<100 ♦ #	<100 ♦ #	<10 ♦ #

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	C1	C3	C4	C6	C8	DUP1
			Depth (m)	.	.	.	.	.	.
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
			Date Sampled	23/07/2025	23/07/2025	22/07/2025	23/07/2025	23/07/2025	23/07/2025
			Sample Time	.	.	.	.	.	.
			Date Received	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025
			SDG Ref	250725-20	250725-20	250725-20	250725-20	250725-20	250725-20
			Lab Sample No.(s)	31880689	31880690	31880691	31880692	31880693	31881134
			AGS Reference						
PFODA (16517-11-6)	<1 ng/l	TM434		<50 #	<10 #	<1 4 #	<10 #	<10 #	<1 #
N-EtFOSA (4151-50-2)	<1 ng/l	TM434		<50 #	<10 #	<1 4 #	<10 #	<10 #	<1 #
6:2 FTAB (34455-29-3)	<10 ng/l	TM434		<500	<100	<10 4	<100	<100	<10
Total PFOS	<0.65 ng/l	TM434		<32.5 #	26.4 #	14.9 4 #	<6.5 #	<6.5 #	21 #
Total PFAS DWI 47	<90 ng/l	TM434		<4500	<900	181 4	<900	<900	132
PFecHS (133201-07-7)	<1 ng/l	TM434		<50 #	<10 #	<1 4 #	<10 #	<10 #	<1 #
PFTrDS (174675-49-1)	<1 ng/l	TM434		<50 #	<10 #	<1 4 #	<10 #	<10 #	<1 #

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	DUP2	EB1	FIELD BLANK (FB)	TRIP BLANK(TB)		
			Depth (m)	.	.	.	.		
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)		
			Date Sampled	23/07/2025	22/07/2025	22/07/2025	-		
			Sample Time	.	.	.	.		
			Date Received	25/07/2025	25/07/2025	25/07/2025	25/07/2025		
			SDG Ref	250725-20	250725-20	250725-20	250725-20		
			Lab Sample No.(s)	31881135	31880694	31881140	31881138		
			AGS Reference						
Suspended solids, Total	<2 mg/l	TM022		1340 #		<2 #	<2 § #		
BOD, unfiltered	<1 mg/l	TM045		<10 #		<1 #	<1 § #		
Carbon, Organic (diss.filt)	<3 mg/l	TM090		<3		<3	<3 §		
Organic Carbon, Total	<3 mg/l	TM090		<3 ♦ #		<3 @ #	<3 § #		
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099		<0.2 #		<0.2 #	<0.2 § #		
Chromium, Trivalent	<0.03 mg/l	TM152		<0.03		<0.03	<0.03 §		
Arsenic (diss.filt)	<0.5 µg/l	TM152		<0.5 #		<0.5 #	<0.5 2 § #		
Barium (diss.filt)	<0.2 µg/l	TM152		42.5 #		14 #	14.1 2 § #		
Beryllium (diss.filt)	<0.1 µg/l	TM152		<0.1 #		<0.1 #	<0.1 2 § #		
Boron (diss.filt)	<10 µg/l	TM152		<10 #		<10 #	<10 2 § #		
Cadmium (diss.filt)	<0.08 µg/l	TM152		<0.08 #		<0.08 #	<0.08 2 § #		
Chromium (diss.filt)	<1 µg/l	TM152		3.72 #		<1 #	<1 2 § #		
Copper (diss.filt)	<0.3 µg/l	TM152		0.366 #		<0.3 #	0.418 2 § #		
Lead (diss.filt)	<0.2 µg/l	TM152		<0.2 #		<0.2 #	<0.2 2 § #		
Molybdenum (diss.filt)	<3 µg/l	TM152		<3 #		<3 #	<3 2 § #		
Nickel (diss.filt)	<0.4 µg/l	TM152		<0.4 #		<0.4 #	<0.4 2 § #		
Selenium (diss.filt)	<1 µg/l	TM152		<1 #		<1 #	<1 2 § #		
Vanadium (diss.filt)	<1 µg/l	TM152		<1 #		<1 #	<1 2 § #		
Zinc (diss.filt)	<1 µg/l	TM152		2.85 #		<1 #	4.83 2 § #		
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152		1620 2		196 2	<0.35 2 §		
Mercury (diss.filt)	<0.01 µg/l	TM183		<0.01 #		<0.01 #	<0.01 2 § #		
Nitrite as NO2	<0.05 mg/l	TM184		0.134 #		<0.05 #	<0.05 § #		
Sulphate	<2 mg/l	TM184		27.4 #		7.4 #	<2 § #		
Chloride	<2 mg/l	TM184		26.1 #		8.5 #	<2 § #		
Phosphate (Ortho as P)	<0.02 mg/l	TM184		0.0343 #		<0.02 #	<0.02 § #		
Nitrate as NO3	<0.3 mg/l	TM184		62.2 #		2.25 #	<0.3 § #		
Nitrogen, Total	<1 mg/l	TM212		16.2 #		<1 #	<1 § #		
Chromium, Hexavalent	<0.03 mg/l	TM241		<0.03 #		<0.03 #	<0.03 § #		
pH	<1 pH Units	TM256		7.32 #		7.87 #	6.04 § #		
Trifluralin	<0.01 µg/l	TM343		<0.1		<0.015	<0.01 §		
alpha-HCH	<0.01 µg/l	TM343		<0.1		<0.015	<0.01 §		
gamma-HCH (Lindane)	<0.01 µg/l	TM343		<0.1		<0.015	<0.01 §		
Heptachlor	<0.01 µg/l	TM343		<0.1		<0.015	<0.01 §		

Results Legend
ISO17025 accredited.
M mCERTS accredited.
aq Aqueous / settled sample.
diss.filt Dissolved / filtered sample.
tot.unfilt Total / unfiltered sample.
* Subcontracted - refer to subcontractor report for accreditation status.
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
*** 6:2 FTAB (see appendix)
1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	DUP2	EB1	FIELD BLANK (FB)	TRIP BLANK(TB)		
			Depth (m)	.	.	.	.		
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)		
			Date Sampled	23/07/2025	22/07/2025	22/07/2025	-		
			Sample Time	.	.	.	.		
			Date Received	25/07/2025	25/07/2025	25/07/2025	25/07/2025		
			SDG Ref	250725-20	250725-20	250725-20	250725-20		
			Lab Sample No.(s)	31881135	31880694	31881140	31881138		
			AGS Reference						
Aldrin	<0.01 µg/l	TM343		<0.1		<0.015	<0.01 §		
beta-HCH	<0.01 µg/l	TM343		<0.1		<0.015	<0.01 §		
Isodrin	<0.01 µg/l	TM343		<0.1		<0.015	<0.01 §		
delta-HCH	<0.01 µg/l	TM343		<0.1		<0.015	<0.01 §		
Heptachlor epoxide	<0.01 µg/l	TM343		<0.1		<0.015	<0.01 §		
o,p'-DDE	<0.01 µg/l	TM343		<0.1		<0.015	<0.01 §		
Endosulphan I	<0.01 µg/l	TM343		<0.1		<0.015	<0.01 §		
trans-Chlordane	<0.01 µg/l	TM343		<0.1		<0.015	<0.01 §		
cis-Chlordane	<0.01 µg/l	TM343		<0.1		<0.015	<0.01 §		
p,p'-DDE	<0.01 µg/l	TM343		<0.1		<0.015	<0.01 §		
Dieldrin	<0.01 µg/l	TM343		<0.1		<0.015	<0.01 §		
o,p'-DDD (TDE)	<0.01 µg/l	TM343		<0.1		<0.015	<0.01 §		
Endrin	<0.01 µg/l	TM343		<2		<2	<2 §		
o,p'-DDT	<0.01 µg/l	TM343		<0.1		<0.015	<0.01 §		
p,p'-DDD (TDE)	<0.01 µg/l	TM343		<0.1		<0.015	<0.01 §		
Endosulphan II	<0.02 µg/l	TM343		<0.2		<0.03	<0.02 §		
p,p'-DDT	<0.01 µg/l	TM343		<2		<2			
o,p'-Methoxychlor	<0.01 µg/l	TM343		<2		<2	<2 §		
p,p'-Methoxychlor	<0.01 µg/l	TM343		<2		<2	<2 §		
Endosulphan Sulphate	<0.02 µg/l	TM343		<0.2		<0.03	<0.02 §		
Permethrin I	<0.01 µg/l	TM343		<0.1		<0.015	<0.01 §		
Permethrin II	<0.01 µg/l	TM343		<0.1		<0.015	<0.01 §		
PFBA (375-22-4)	<2 ng/l	TM434		<20 #	<2 #	<2 #	<2 § #		
PFMOPrA (377-73-1)	<1 ng/l	TM434		<10 #	<1 #	<1 #	<1 § #		
3:3 FTCA (356-02-5)	<5 ng/l	TM434		<20 #	<2 #	<2 #	<2 § #		
PFPA (2706-90-3)	<1 ng/l	TM434		11.8 #	<1 #	<1 #	<1 § #		
PFMOBA (863090-89-5)	<1 ng/l	TM434		<10 #	<1 #	<1 #	<1 § #		
4:2 FTS (757124-72-4)	<1 ng/l	TM434		<10 #	<1 #	<1 #	<1 § #		
NFDHA (151772-58-6)	<3 ng/l	TM434		<30 #	<3 #	<3 #	<3 § #		
PFBS (375-73-5)	<1 ng/l	TM434		<10 #	<1 #	<1 #	<1 § #		
PFHxA (307-24-4)	<1 ng/l	TM434		<10 #	<1 #	<1 #	<1 § #		
HFPO-DA (13252-13-6)	<2 ng/l	TM434		<20 #	<2 #	<2 #	<2 § #		
PFEESA (113507-82-7)	<1 ng/l	TM434		<10 #	<1 #	<1 #	<1 § #		

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

Results Legend	Customer Sample Ref.	DUP2	EB1	FIELD BLANK (FB)	TRIP BLANK(TB)		
# ISO17025 accredited.		.	.	.	.		
M mCERTS accredited.	Depth (m)	.	.	.	.		
aq Aqueous / settled sample.	Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)		
diss.filt Dissolved / filtered sample.	Date Sampled	23/07/2025	22/07/2025	22/07/2025	-		
tot.unfilt Total / unfiltered sample.	Sample Time	.	.	.	.		
* Subcontracted - refer to subcontractor report for accreditation status.	Date Received	25/07/2025	25/07/2025	25/07/2025	25/07/2025		
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	SDG Ref	250725-20	250725-20	250725-20	250725-20		
*** 6:2 FTAB (see appendix)	Lab Sample No.(s)	31881135	31880694	31881140	31881138		
1-4♦§@ Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method					
PFHpA (375-85-9)	<1 ng/l	TM434	<10 #	<1 #	<1 #	<1 § #	
PFPeS (2706-91-4)	<1 ng/l	TM434	<10 #	<1 #	<1 #	<1 § #	
5:3 FTCA (914637-49-3)	<5 ng/l	TM434	<50 #	<5 #	<5 #	<5 § #	
ADONA (919005-14-4)	<1 ng/l	TM434	<10 #	<1 #	<1 #	<1 § #	
6:2 FTS (27619-97-2)	<1 ng/l	TM434	<10 #	<1 #	<1 #	<1 § #	
FBSA (30334-69-1)	<1 ng/l	TM434	<10 #	<1 #	<1 #	<1 § #	
PFOA (335-67-1)	<0.65 ng/l	TM434	7 #	<0.65 #	<0.65 #	<0.65 § #	
PFHxS (355-46-4)	<1 ng/l	TM434	<10 #	<1 #	<1 #	<1 § #	
PFNA (375-95-1)	<1 ng/l	TM434	<10 #	<1 #	<1 #	<1 § #	
PFHpS (375-92-8)	<1 ng/l	TM434	<10 #	<1 #	<1 #	<1 § #	
8:2 FTS (39108-34-4)	<2 ng/l	TM434	<20 #	<2 #	<2 #	<2 § #	
HFPO-TA (13252-14-7)	<5 ng/l	TM434	<50 #	<5 #	<5 #	<5 § #	
PFDA (335-76-2)	<2 ng/l	TM434	<20 #	<2 #	<2 #	<2 § #	
MeFOSAA (2355-31-9)	<2 ng/l	TM434	<20 ♦ #	<2 #	<2 @ #	<2 § #	
7:3 FTCA (812-70-4)	<5 ng/l	TM434	<50 #	<5 #	<5 #	<5 § #	
Linear PFOS (1763-23-1)	<0.65 ng/l	TM434	18.6 #	<0.65 #	<0.65 #	<0.65 § #	
Branched PFOS	<0.65 ng/l	TM434	14.6 #	<0.65 #	<0.65 #	<0.65 § #	
EtFOSAA (2991-50-6)	<2 ng/l	TM434	<20 ♦ #	<2 #	<2 @ #	<2 § #	
PFUnA (2058-94-8)	<2 ng/l	TM434	<20 #	<2 #	<2 #	<2 § #	
9Cl-PF3ONS (756426-58-1)	<1 ng/l	TM434	<10 #	<1 #	<1 #	<1 § #	
PFNS (68259-12-1)	<1 ng/l	TM434	<10 #	<1 #	<1 #	<1 § #	
FHxSA (41997-13-1)	<1 ng/l	TM434	<10 #	<1 #	<1 #	<1 § #	
PFDoA (307-55-1)	<2 ng/l	TM434	<20 #	<2 #	<2 #	<2 § #	
PFDS (335-77-3)	<2 ng/l	TM434	<20 #	<2 #	<2 #	<2 § #	
PFTrDA (72629-94-8)	<3 ng/l	TM434	<30 #	<3 #	<3 #	<3 § #	
11Cl-PF3OUdS (763051-92-9)	<2 ng/l	TM434	<20 #	<2 #	<2 #	<2 § #	
PFUnDS (749786-16-1)	<2 ng/l	TM434	<20 #	<2 #	<2 #	<2 § #	
PFTeA (376-06-7)	<1 ng/l	TM434	<10 #	<1 #	<1 #	<1 § #	
PFOSA (754-91-6)	<2 ng/l	TM434	<20 #	<2 #	<2 #	<2 § #	
PFDoS (79780-39-5)	<2 ng/l	TM434	<20 #	<2 #	<2 #	<2 § #	
PFHxDA (67905-19-5)	<1 ng/l	TM434	<10 #	<1 #	<1 #	<1 § #	
MeFOSE (24448-09-7)	<10 ng/l	TM434	<100 ♦ #	<10 #	<10 @ #	<10 § #	
N-MeFOSA (31506-32-8)	<1 ng/l	TM434	<10 #	<1 #	<1 #	<1 § #	

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	DUP2	EB1	FIELD BLANK (FB)	TRIP BLANK(TB)		
			Depth (m)	.	.	.	.		
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)		
			Date Sampled	23/07/2025	22/07/2025	22/07/2025	-		
			Sample Time	.	.	.	.		
			Date Received	25/07/2025	25/07/2025	25/07/2025	25/07/2025		
			SDG Ref	250725-20	250725-20	250725-20	250725-20		
			Lab Sample No.(s)	31881135	31880694	31881140	31881138		
			AGS Reference						
EtFOSE (1691-99-2)	<10 ng/l	TM434		<100 ♦ #	<10 #	<10 @ #	<10 § #		
PFODA (16517-11-6)	<1 ng/l	TM434		<10 #	<1 #	<1 #	<1 § #		
N-EtFOSA (4151-50-2)	<1 ng/l	TM434		<10 #	<1 #	<1 #	<1 § #		
6:2 FTAB (34455-29-3)	<10 ng/l	TM434		<100	<10	<10	<10 §		
Total PFOS	<0.65 ng/l	TM434		33.2 #	<0.65 #	<0.65 #	<0.65 § #		
Total PFAS DWI 47	<90 ng/l	TM434		<900	<90	<90	<90 §		
PFecHS (133201-07-7)	<1 ng/l	TM434		<10 #	<1 #	<1 #	<1 § #		
PFTrDS (174675-49-1)	<1 ng/l	TM434		<10 #	<1 #	<1 #	<1 § #		

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

PAH Spec MS - Aqueous (W)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	A3	A6	A8	B1	B2	B3
			Depth (m)	.	.	.	.	.	.
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
			Date Sampled	22/07/2025	22/07/2025	22/07/2025	22/07/2025	22/07/2025	22/07/2025
			Sample Time	.	.	.	.	.	.
			Date Received	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025
			SDG Ref	250725-20	250725-20	250725-20	250725-20	250725-20	250725-20
			Lab Sample No.(s)	31880359	31880360	31880361	31880362	31880363	31880364
			AGS Reference						
Naphthalene (aq)	<0.01 µg/l	TM178		<0.01 #	<0.01 #	<0.01 #	<0.01 #	<0.01 #	<0.01 #
Acenaphthene (aq)	<0.005 µg/l	TM178		<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #
Acenaphthylene (aq)	<0.005 µg/l	TM178		<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #
Fluoranthene (aq)	<0.005 µg/l	TM178		0.0194 #	0.00943 #	<0.005 #	<0.005 #	<0.005 #	0.0065 #
Anthracene (aq)	<0.005 µg/l	TM178		<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #
Phenanthrene (aq)	<0.005 µg/l	TM178		<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #
Fluorene (aq)	<0.005 µg/l	TM178		<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #
Chrysene (aq)	<0.005 µg/l	TM178		0.00938 #	0.00576 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #
Pyrene (aq)	<0.005 µg/l	TM178		0.0176 #	0.00964 #	<0.005 #	<0.005 #	<0.005 #	0.00757 #
Benzo(a)anthracene (aq)	<0.005 µg/l	TM178		<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #
Benzo(b)fluoranthene (aq)	<0.005 µg/l	TM178		0.013 #	0.00601 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #
Benzo(k)fluoranthene (aq)	<0.005 µg/l	TM178		0.00565 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #
Benzo(a)pyrene (aq)	<0.002 µg/l	TM178		0.00737 #	0.00305 #	<0.002 #	<0.002 #	<0.002 #	<0.002 #
Dibenzo(a,h)anthracene (aq)	<0.005 µg/l	TM178		<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #
Benzo(g,h,i)perylene (aq)	<0.005 µg/l	TM178		<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #
Indeno(1,2,3-cd)pyrene (aq)	<0.005 µg/l	TM178		0.00567 #	0.00504 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #
PAH, Total Detected USEPA 16 (aq)	<0.082 µg/l	TM178		<0.082 #	<0.082 #	<0.082 #	<0.082 #	<0.082 #	<0.082 #

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

PAH Spec MS - Aqueous (W)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	C1	C3	C4	C6	C8	DUP1
			Depth (m)	.	.	.	.	.	.
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
			Date Sampled	23/07/2025	23/07/2025	22/07/2025	23/07/2025	23/07/2025	23/07/2025
			Sample Time	.	.	.	.	.	.
			Date Received	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025
			SDG Ref	250725-20	250725-20	250725-20	250725-20	250725-20	250725-20
			Lab Sample No.(s)	31880689	31880690	31880691	31880692	31880693	31881134
			AGS Reference						
Naphthalene (aq)	<0.01 µg/l	TM178		<0.01 #	<0.01 #	<0.01 #	<0.01 #	<0.01 #	<0.01 #
Acenaphthene (aq)	<0.005 µg/l	TM178		<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #
Acenaphthylene (aq)	<0.005 µg/l	TM178		<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #
Fluoranthene (aq)	<0.005 µg/l	TM178		<0.005 #	<0.005 #	<0.005 #	0.00648 #	0.00673 #	<0.005 #
Anthracene (aq)	<0.005 µg/l	TM178		<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #
Phenanthrene (aq)	<0.005 µg/l	TM178		<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #
Fluorene (aq)	<0.005 µg/l	TM178		<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #
Chrysene (aq)	<0.005 µg/l	TM178		<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #
Pyrene (aq)	<0.005 µg/l	TM178		<0.005 #	<0.005 #	<0.005 #	0.00646 #	0.00522 #	<0.005 #
Benzo(a)anthracene (aq)	<0.005 µg/l	TM178		<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #
Benzo(b)fluoranthene (aq)	<0.005 µg/l	TM178		<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #
Benzo(k)fluoranthene (aq)	<0.005 µg/l	TM178		<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #
Benzo(a)pyrene (aq)	<0.002 µg/l	TM178		<0.002 #	<0.002 #	<0.002 #	0.00389 #	<0.002 #	<0.002 #
Dibenzo(a,h)anthracene (aq)	<0.005 µg/l	TM178		<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #
Benzo(g,h,i)perylene (aq)	<0.005 µg/l	TM178		<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #
Indeno(1,2,3-cd)pyrene (aq)	<0.005 µg/l	TM178		<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #
PAH, Total Detected USEPA 16 (aq)	<0.082 µg/l	TM178		<0.082 #	<0.082 #	<0.082 #	<0.082 #	<0.082 #	<0.082 #

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

PAH Spec MS - Aqueous (W)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Customer Sample Ref.	DUP2	FIELD BLANK (FB)	TRIP BLANK(TB)			
Depth (m)	.	.	.			
Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)			
Date Sampled	23/07/2025	22/07/2025	-			
Sample Time	.	.	.			
Date Received	25/07/2025	25/07/2025	25/07/2025			
SDG Ref	250725-20	250725-20	250725-20			
Lab Sample No.(s)	31881135	31881140	31881138			
AGS Reference						

Component	LOD/Units	Method						
Naphthalene (aq)	<0.01 µg/l	TM178	<0.1 #	<0.01 #	<0.01 § #			
Acenaphthene (aq)	<0.005 µg/l	TM178	<0.05 #	<0.005 #	<0.005 § #			
Acenaphthylene (aq)	<0.005 µg/l	TM178	<0.05 #	<0.005 #	<0.005 § #			
Fluoranthene (aq)	<0.005 µg/l	TM178	<0.05 #	<0.005 #	<0.005 § #			
Anthracene (aq)	<0.005 µg/l	TM178	<0.05 #	<0.005 #	<0.005 § #			
Phenanthrene (aq)	<0.005 µg/l	TM178	<0.05 #	<0.005 #	<0.005 § #			
Fluorene (aq)	<0.005 µg/l	TM178	<0.05 #	<0.005 #	<0.005 § #			
Chrysene (aq)	<0.005 µg/l	TM178	<0.05 #	<0.005 #	<0.005 § #			
Pyrene (aq)	<0.005 µg/l	TM178	<0.05 #	<0.005 #	<0.005 § #			
Benzo(a)anthracene (aq)	<0.005 µg/l	TM178	<0.05 #	<0.005 #	<0.005 § #			
Benzo(b)fluoranthene (aq)	<0.005 µg/l	TM178	<0.05 #	<0.005 #	<0.005 § #			
Benzo(k)fluoranthene (aq)	<0.005 µg/l	TM178	<0.05 #	<0.005 #	<0.005 § #			
Benzo(a)pyrene (aq)	<0.002 µg/l	TM178	<0.02 #	<0.002 #	<0.002 § #			
Dibenzo(a,h)anthracene (aq)	<0.005 µg/l	TM178	<0.05 #	<0.005 #	<0.005 § #			
Benzo(g,h,i)perylene (aq)	<0.005 µg/l	TM178	<0.05 #	<0.005 #	<0.005 § #			
Indeno(1,2,3-cd)pyrene (aq)	<0.005 µg/l	TM178	<0.05 #	<0.005 #	<0.005 § #			
PAH, Total Detected USEPA 16 (aq)	<0.082 µg/l	TM178	<0.82 #	<0.082 #	<0.082 § #			

CERTIFICATE OF ANALYSIS

SDG: 250725-20 Report Number: 774826 Superseded Report: 774821
Client Ref.: 64225 Location: East Hemel

SVOC MS (W) - Aqueous

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	A3	A6	A8	B1	B2	B3
			Depth (m)	.	.	.	.	.	.
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
			Date Sampled	22/07/2025	22/07/2025	22/07/2025	22/07/2025	22/07/2025	22/07/2025
			Sample Time	.	.	.	.	.	.
			Date Received	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025
			SDG Ref	250725-20	250725-20	250725-20	250725-20	250725-20	250725-20
			Lab Sample No.(s)	31880359	31880360	31880361	31880362	31880363	31880364
			AGS Reference						
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
2,4-Dichlorophenol (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
2,4-Dimethylphenol (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
2-Chloronaphthalene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
2-Chlorophenol (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
2-Methylnaphthalene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
2-Methylphenol (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
2-Nitroaniline (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
2-Nitrophenol (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
3-Nitroaniline (aq)	<1 µg/l	TM176		<4	<10	<2	<1	<1	<8
4-Bromophenylphenylether (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
4-Chloroaniline (aq)	<1 µg/l	TM176		<4	<10	<2	<1	<1	<8
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
4-Methylphenol (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
4-Nitroaniline (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
4-Nitrophenol (aq)	<1 µg/l	TM176		<4	<10	<2	<1	<1	<8
Azobenzene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
Acenaphthylene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
Acenaphthene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
Anthracene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176		<8 #	<20 #	<4 #	<2 #	<2 #	<16 #
Butylbenzyl phthalate (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
Benzo(a)anthracene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

SVOC MS (W) - Aqueous

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	A3	A6	A8	B1	B2	B3
			Depth (m)	.	.	.	.	.	.
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
			Date Sampled	22/07/2025	22/07/2025	22/07/2025	22/07/2025	22/07/2025	22/07/2025
			Sample Time	.	.	.	.	.	.
			Date Received	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025
			SDG Ref	250725-20	250725-20	250725-20	250725-20	250725-20	250725-20
			Lab Sample No.(s)	31880359	31880360	31880361	31880362	31880363	31880364
			AGS Reference						
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
Benzo(a)pyrene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
Carbazole (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
Chrysene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
Dibenzofuran (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
n-Dibutyl phthalate (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
Diethyl phthalate (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
Dimethyl phthalate (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
n-Dioctyl phthalate (aq)	<5 µg/l	TM176		<20 #	<50 #	<10 #	<5 #	<5 #	<40 #
Fluoranthene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
Fluorene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
Hexachlorobenzene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
Hexachlorobutadiene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
Pentachlorophenol (aq)	<1 µg/l	TM176		<4	<10	<2	<1	<1	<8
Phenol (aq)	<1 µg/l	TM176		<4	<10	<2	<1	<1	<8
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
Hexachloroethane (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
Nitrobenzene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
Naphthalene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
Isophorone (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176		<4	<10	<2	<1	<1	<8
Phenanthrene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #
Pyrene (aq)	<1 µg/l	TM176		<4 #	<10 #	<2 #	<1 #	<1 #	<8 #

SVOC MS (W) - Aqueous

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
***	6:2 FTAB (see appendix)
1-4+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	C1	C3	C4	C6	C8	DUP1
			Depth (m)	.	.	.	.	.	.
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
			Date Sampled	23/07/2025	23/07/2025	22/07/2025	23/07/2025	23/07/2025	23/07/2025
			Sample Time	.	.	.	.	.	.
			Date Received	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025
			SDG Ref	250725-20	250725-20	250725-20	250725-20	250725-20	250725-20
			Lab Sample No.(s)	31880689	31880690	31880691	31880692	31880693	31881134
			AGS Reference						
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
2,4-Dichlorophenol (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
2,4-Dimethylphenol (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
2-Chloronaphthalene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
2-Chlorophenol (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
2-Methylnaphthalene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
2-Methylphenol (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
2-Nitroaniline (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
2-Nitrophenol (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
3-Nitroaniline (aq)	<1 µg/l	TM176		<10	<8	<1	<10	<20	<1
4-Bromophenylphenylether (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
4-Chloroaniline (aq)	<1 µg/l	TM176		<10	<8	<1	<10	<20	<1
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
4-Methylphenol (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
4-Nitroaniline (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
4-Nitrophenol (aq)	<1 µg/l	TM176		<10	<8	<1	<10	<20	<1
Azobenzene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
Acenaphthylene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
Acenaphthene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
Anthracene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176		<20 #	<16 #	<2 #	<20 #	<40 #	<2 #
Butylbenzyl phthalate (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
Benzo(a)anthracene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

SVOC MS (W) - Aqueous

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	C1	C3	C4	C6	C8	DUP1
			Depth (m)	.	.	.	.	.	.
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
			Date Sampled	23/07/2025	23/07/2025	22/07/2025	23/07/2025	23/07/2025	23/07/2025
			Sample Time	.	.	.	.	.	.
			Date Received	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025
			SDG Ref	250725-20	250725-20	250725-20	250725-20	250725-20	250725-20
			Lab Sample No.(s)	31880689	31880690	31880691	31880692	31880693	31881134
			AGS Reference						
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
Benzo(a)pyrene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
Carbazole (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
Chrysene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
Dibenzofuran (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
n-Dibutyl phthalate (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
Diethyl phthalate (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
Dimethyl phthalate (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
n-Dioctyl phthalate (aq)	<5 µg/l	TM176		<50 #	<40 #	<5 #	<50 #	<100 #	<5 #
Fluoranthene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
Fluorene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
Hexachlorobenzene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
Hexachlorobutadiene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
Pentachlorophenol (aq)	<1 µg/l	TM176		<10	<8	<1	<10	<20	<1
Phenol (aq)	<1 µg/l	TM176		<10	<8	<1	<10	<20	<1
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
Hexachloroethane (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
Nitrobenzene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
Naphthalene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
Isophorone (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176		<10	<8	<1	<10	<20	<1
Phenanthrene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #
Pyrene (aq)	<1 µg/l	TM176		<10 #	<8 #	<1 #	<10 #	<20 #	<1 #

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

SVOC MS (W) - Aqueous

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Customer Sample Ref.	DUP2	FIELD BLANK (FB)	TRIP BLANK(TB)			
Depth (m)	.	.	.			
Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)			
Date Sampled	23/07/2025	22/07/2025	-			
Sample Time	.	.	.			
Date Received	25/07/2025	25/07/2025	25/07/2025			
SDG Ref	250725-20	250725-20	250725-20			
Lab Sample No.(s)	31881135	31881140	31881138			
AGS Reference						

Component	LOD/Units	Method						
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
2,4-Dimethylphenol (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
2-Chlorophenol (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
2-Methylnaphthalene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
2-Methylphenol (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
2-Nitroaniline (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
2-Nitrophenol (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
3-Nitroaniline (aq)	<1 µg/l	TM176	<8	<1	<2 §			
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
4-Chloroaniline (aq)	<1 µg/l	TM176	<8	<1	<2 §			
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
4-Methylphenol (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
4-Nitroaniline (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
4-Nitrophenol (aq)	<1 µg/l	TM176	<8	<1	<2 §			
Azobenzene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
Acenaphthylene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
Acenaphthene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
Anthracene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<16 #	<2 #	<4 § #			
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
Benzo(a)anthracene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			

SVOC MS (W) - Aqueous

Results Legend	Customer Sample Ref.	DUP2	FIELD BLANK (FB)	TRIP BLANK(TB)			
# ISO17025 accredited.	Depth (m)	.	.	.			
M mCERTS accredited.	Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)			
aq Aqueous / settled sample.	Date Sampled	23/07/2025	22/07/2025	-			
diss.filt Dissolved / filtered sample.	Sample Time	.	.	.			
tot.unfilt Total / unfiltered sample.	Date Received	25/07/2025	25/07/2025	25/07/2025			
* Subcontracted - refer to subcontractor report for accreditation status.	SDG Ref	250725-20	250725-20	250725-20			
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Lab Sample No.(s)	31881135	31881140	31881138			
*** 6:2 FTAB (see appendix)	AGS Reference						
1-4+§@ Sample deviation (see appendix)							

Component	LOD/Units	Method						
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
Benzo(a)pyrene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
Carbazole (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
Chrysene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
Dibenzofuran (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
n-Dibutyl phthalate (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
Diethyl phthalate (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
Dimethyl phthalate (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
n-Dioctyl phthalate (aq)	<5 µg/l	TM176	<40 #	<5 #	<10 § #			
Fluoranthene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
Fluorene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
Hexachlorobenzene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
Hexachlorobutadiene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
Pentachlorophenol (aq)	<1 µg/l	TM176	<8	<1	<2 §			
Phenol (aq)	<1 µg/l	TM176	<8	<1	<2 §			
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
Hexachloroethane (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
Nitrobenzene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
Naphthalene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
Isophorone (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176	<8	<1	<2 §			
Phenanthrene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			
Pyrene (aq)	<1 µg/l	TM176	<8 #	<1 #	<2 § #			

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

TPH CWG (W)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	A3	A6	A8	B1	B2	B3
			Depth (m)	.	.	.	.	.	.
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
			Date Sampled	22/07/2025	22/07/2025	22/07/2025	22/07/2025	22/07/2025	22/07/2025
			Sample Time	.	.	.	.	.	.
			Date Received	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025
			SDG Ref	250725-20	250725-20	250725-20	250725-20	250725-20	250725-20
			Lab Sample No.(s)	31880359	31880360	31880361	31880362	31880363	31880364
			AGS Reference						
GRO Surrogate % recovery**	%	TM245		91	95	93	87	89	91
GRO >C5-C12 (HS_1D_TOTAL)	<50 µg/l	TM245		<50 #	<50 #	<50 #	<50 #	<50 #	<50 #
Aliphatics >C5-C6 (HS_1D_AL)	<10 µg/l	TM245		<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8 (HS_1D_AL)	<10 µg/l	TM245		<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10 (HS_1D_AL)	<10 µg/l	TM245		<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12 (HS_1D_AL)	<10 µg/l	TM245		<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16 (aq) (EH_2D_AL)	<10 µg/l	TM439		<10	<10	<10	<10	<10	<100
Aliphatics >C16-C21 (aq) (EH_2D_AL)	<10 µg/l	TM439		<10	<10	<10	<10	<10	<100
Aliphatics >C21-C35 (aq) (EH_2D_AL)	<10 µg/l	TM439		<10	<10	<10	<10	<10	<100
Total Aliphatics >C12-C35 (aq) (EH_2D_AL)	<10 µg/l	TM439		<10	<10	<10	<10	<10	<100
Aromatics >EC5-EC7 (HS_1D_AR)	<10 µg/l	TM245		<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8 (HS_1D_AR)	<10 µg/l	TM245		<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/l	TM245		<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	<10 µg/l	TM245		<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16 (aq) (EH_2D_AR_#1)	<10 µg/l	TM439		<10	<10	<10	<10	<10	<100
Aromatics >EC16-EC21 (aq) (EH_2D_AR_#1)	<10 µg/l	TM439		<10	<10	<10	<10	<10	<100
Aromatics >EC21-EC35 (aq) (EH_2D_AR_#1)	<10 µg/l	TM439		<10	<10	<10	<10	<10	<100
Total Aromatics >EC12-EC35 (aq) (EH_2D_AR_#1)	<10 µg/l	TM439		<10	<10	<10	<10	<10	<100
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM439		<10	<10	<10	<10	<10	<10

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

TPH CWG (W)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4+§@ Sample deviation (see appendix)

Customer Sample Ref.	C1	C3	C4	C6	C8	DUP1
Depth (m)	.	.	.	.	.	.
Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
Date Sampled	23/07/2025	23/07/2025	22/07/2025	23/07/2025	23/07/2025	23/07/2025
Sample Time	.	.	.	.	.	.
Date Received	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025
SDG Ref	250725-20	250725-20	250725-20	250725-20	250725-20	250725-20
Lab Sample No.(s)	31880689	31880690	31880691	31880692	31880693	31881134
AGS Reference						

Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM245	82	90	90	93	92	95
GRO >C5-C12 (HS_1D_TOTAL)	<50 µg/l	TM245	<50 #	<50 #	<50 #	<50 #	<50 #	<50 #
Aliphatics >C5-C6 (HS_1D_AL)	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8 (HS_1D_AL)	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10 (HS_1D_AL)	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12 (HS_1D_AL)	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16 (aq) (EH_2D_AL)	<10 µg/l	TM439	<10	<10	<10	<10	<50	<10
Aliphatics >C16-C21 (aq) (EH_2D_AL)	<10 µg/l	TM439	<10	<10	<10	<10	<50	<10
Aliphatics >C21-C35 (aq) (EH_2D_AL)	<10 µg/l	TM439	<10	<10	<10	<10	<50	<10
Total Aliphatics >C12-C35 (aq) (EH_2D_AL)	<10 µg/l	TM439	<10	<10	<10	<10	<50	<10
Aromatics >EC5-EC7 (HS_1D_AR)	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8 (HS_1D_AR)	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16 (aq) (EH_2D_AR_#1)	<10 µg/l	TM439	<10	<10	<10	<10	<50	<10
Aromatics >EC16-EC21 (aq) (EH_2D_AR_#1)	<10 µg/l	TM439	<10	<10	<10	<10	<50	<10
Aromatics >EC21-EC35 (aq) (EH_2D_AR_#1)	<10 µg/l	TM439	<10	29.1	<10	<10	<50	<10
Total Aromatics >EC12-EC35 (aq) (EH_2D_AR_#1)	<10 µg/l	TM439	<10	29.1	<10	<10	<50	<10
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM439	<10	29.1	<10	<10	<10	<10

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

TPH CWG (W)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	DUP2	FIELD BLANK (FB)	TRIP BLANK(TB)			
			Depth (m)	.	.	.			
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)			
			Date Sampled	23/07/2025	22/07/2025	-			
			Sample Time	.	.	.			
			Date Received	25/07/2025	25/07/2025	25/07/2025			
			SDG Ref	250725-20	250725-20	250725-20			
			Lab Sample No.(s)	31881135	31881140	31881138			
			AGS Reference						
GRO Surrogate % recovery**	%	TM245		95	95	94 §			
GRO >C5-C12 (HS_1D_TOTAL)	<50 µg/l	TM245		<50 #	<50 #	<50 § #			
Aliphatics >C5-C6 (HS_1D_AL)	<10 µg/l	TM245		<10	<10	<10 §			
Aliphatics >C6-C8 (HS_1D_AL)	<10 µg/l	TM245		<10	<10	<10 §			
Aliphatics >C8-C10 (HS_1D_AL)	<10 µg/l	TM245		<10	<10	<10 §			
Aliphatics >C10-C12 (HS_1D_AL)	<10 µg/l	TM245		<10	<10	<10 §			
Aliphatics >C12-C16 (aq) (EH_2D_AL)	<10 µg/l	TM439		<10	<10	<10 §			
Aliphatics >C16-C21 (aq) (EH_2D_AL)	<10 µg/l	TM439		<10	<10	<10 §			
Aliphatics >C21-C35 (aq) (EH_2D_AL)	<10 µg/l	TM439		<10	<10	<10 §			
Total Aliphatics >C12-C35 (aq) (EH_2D_AL)	<10 µg/l	TM439		<10	<10	<10 §			
Aromatics >EC5-EC7 (HS_1D_AR)	<10 µg/l	TM245		<10	<10	<10 §			
Aromatics >EC7-EC8 (HS_1D_AR)	<10 µg/l	TM245		<10	<10	<10 §			
Aromatics >EC8-EC10	<10 µg/l	TM245		<10	<10	<10 §			
Aromatics >EC10-EC12	<10 µg/l	TM245		<10	<10	<10 §			
Aromatics >EC12-EC16 (aq) (EH_2D_AR_#1)	<10 µg/l	TM439		<10	<10	<10 §			
Aromatics >EC16-EC21 (aq) (EH_2D_AR_#1)	<10 µg/l	TM439		<10	<10	<10 §			
Aromatics >EC21-EC35 (aq) (EH_2D_AR_#1)	<10 µg/l	TM439		82.2	<10	<10 §			
Total Aromatics >EC12-EC35 (aq) (EH_2D_AR_#1)	<10 µg/l	TM439		82.2	<10	<10 §			
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM439		82.2	<10	<10 §			

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

VOC MS (W)

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
***	6:2 FTAB (see appendix)
1-4♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	A3	A6	A8	B1	B2	B3
			Depth (m)	.	.	.	.	.	.
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
			Date Sampled	22/07/2025	22/07/2025	22/07/2025	22/07/2025	22/07/2025	22/07/2025
			Sample Time	.	.	.	.	.	.
			Date Received	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025
			SDG Ref	250725-20	250725-20	250725-20	250725-20	250725-20	250725-20
			Lab Sample No.(s)	31880359	31880360	31880361	31880362	31880363	31880364
			AGS Reference						
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Benzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Toluene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Ethylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
m,p-Xylene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
o-Xylene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Sum of detected Xylenes	<2 µg/l	TM208		<2	<2	<2	<2	<2	<2
Sum of BTEX	<5 µg/l	TM208		<5	<5	<5	<5	<5	<5

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

VOC MS (W)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	C1	C3	C4	C6	C8	DUP1
			Depth (m)	.	.	.	.	.	.
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
			Date Sampled	23/07/2025	23/07/2025	22/07/2025	23/07/2025	23/07/2025	23/07/2025
			Sample Time	.	.	.	.	.	.
			Date Received	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025
			SDG Ref	250725-20	250725-20	250725-20	250725-20	250725-20	250725-20
			Lab Sample No.(s)	31880689	31880690	31880691	31880692	31880693	31881134
			AGS Reference						
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Benzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Toluene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Ethylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
m,p-Xylene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
o-Xylene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Sum of detected Xylenes	<2 µg/l	TM208		<2	<2	<2	<2	<2	<2
Sum of BTEX	<5 µg/l	TM208		<5	<5	<5	<5	<5	<5

CERTIFICATE OF ANALYSIS

SDG: 250725-20 **Report Number:** 774826 **Superseded Report:** 774821
Client Ref.: 64225 **Location:** East Hemel

VOC MS (W)

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
***	6:2 FTAB (see appendix)
1-4♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	DUP2	FIELD BLANK (FB)	TRIP BLANK(TB)			
			Depth (m)	.	.	.			
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)			
			Date Sampled	23/07/2025	22/07/2025	-			
			Sample Time	.	.	.			
			Date Received	25/07/2025	25/07/2025	25/07/2025			
			SDG Ref	250725-20	250725-20	250725-20			
			Lab Sample No.(s)	31881135	31881140	31881138			
			AGS Reference						
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208		<1 #	<1 #	<1 § #			
Benzene	<1 µg/l	TM208		<1 #	<1 #	<1 § #			
Toluene	<1 µg/l	TM208		<1 #	<1 #	<1 § #			
Ethylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 § #			
m,p-Xylene	<1 µg/l	TM208		<1 #	<1 #	<1 § #			
o-Xylene	<1 µg/l	TM208		<1 #	<1 #	<1 § #			
Sum of detected Xylenes	<2 µg/l	TM208		<2	<2	<2 §			
Sum of BTEX	<5 µg/l	TM208		<5	<5	<5 §			

Table of Results - Appendix

Method No	Description
TM022	Determination of total suspended solids in waters
TM045	Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids
TM090	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM099	Determination of Ammonium in Water Samples using the Kone Analyser
TM152	Analysis of Aqueous Samples by ICP-MS
TM176	Determination of SVOCs in Water by GCMS
TM178	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters
TM183	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM208	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters
TM212	Determination of Total Nitrogen by High Temperature Catalytic Oxidation followed by Chemiluminescence Detection
TM241	The Determination of Hexavalent Chromium in Waters and Leachates using the Kone Analyser
TM245	Determination of GRO by Headspace in waters
TM256	Determination of pH, EC, TDS and Alkalinity in Aqueous samples
TM343	Determination of Selected Pesticides (Suite I) in Liquids by GCMS
TM434	Analysis of PFAS
TM439	Determination of Extractable Petroleum Hydrocarbons (EPH) CWG banding by GC-FID on liquids

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).

Test Completion Dates

Lab Sample No(s)	31880359	31880360	31880361	31880362	31880363	31880364	31880689	31880690	31880691	31880692
Customer Sample Ref.	A3	A6	A8	B1	B2	B3	C1	C3	C4	C6
AGS Ref.										
Depth										
Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Ammoniacal Nitrogen	28-Jul-2025	28-Jul-2025	28-Jul-2025	28-Jul-2025	28-Jul-2025	28-Jul-2025	28-Jul-2025	28-Jul-2025	28-Jul-2025	28-Jul-2025
Anions by Kone (w)	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025
BOD True Total	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	31-Jul-2025	30-Jul-2025	30-Jul-2025
Chromium III	29-Jul-2025	29-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	29-Jul-2025	29-Jul-2025
Dissolved Metals by ICP-MS	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025
Dissolved Organic/Inorganic Carbon	01-Aug-2025	01-Aug-2025	30-Jul-2025	01-Aug-2025	31-Jul-2025	01-Aug-2025	01-Aug-2025	01-Aug-2025	01-Aug-2025	01-Aug-2025
EPH and CWG by FID	31-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025
GRO by GC-FID (W)	30-Jul-2025	30-Jul-2025	01-Aug-2025	30-Jul-2025	30-Jul-2025	01-Aug-2025	04-Aug-2025	01-Aug-2025	30-Jul-2025	30-Jul-2025
Hexavalent Chromium (w)	28-Jul-2025	25-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	28-Jul-2025	28-Jul-2025
Mercury Dissolved	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025
Nitrite by Kone (w)	27-Jul-2025	27-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025
PAH Spec MS - Aqueous (W)	01-Aug-2025	04-Aug-2025	31-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	31-Jul-2025	31-Jul-2025	31-Jul-2025	31-Jul-2025
Pesticides (Suite I) by GCMS	01-Aug-2025	07-Aug-2025	01-Aug-2025	07-Aug-2025	08-Aug-2025	08-Aug-2025	08-Aug-2025	08-Aug-2025	08-Aug-2025	08-Aug-2025
PFAS Liquids (Full Suite)	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	21-Aug-2025	01-Aug-2025	01-Aug-2025	01-Aug-2025
pH Value	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025
Phosphate by Kone (w)	29-Jul-2025	25-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025
Suspended Solids	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025
SVOC MS (W) - Aqueous	31-Jul-2025	01-Aug-2025	01-Aug-2025	31-Jul-2025	01-Aug-2025	31-Jul-2025	01-Aug-2025	31-Jul-2025	31-Jul-2025	01-Aug-2025
Total Metals by ICP-MS	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025	30-Jul-2025
Total Nitrogen	30-Jul-2025	28-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025	31-Jul-2025	31-Jul-2025	31-Jul-2025	31-Jul-2025	31-Jul-2025
Total Organic and Inorganic Carbon	28-Jul-2025	28-Jul-2025	28-Jul-2025	28-Jul-2025	28-Jul-2025	28-Jul-2025	31-Jul-2025	31-Jul-2025	28-Jul-2025	31-Jul-2025
TPH CWG (W)	31-Jul-2025	31-Jul-2025	01-Aug-2025	31-Jul-2025	30-Jul-2025	01-Aug-2025	04-Aug-2025	01-Aug-2025	31-Jul-2025	31-Jul-2025
VOC MS (W)	31-Jul-2025	31-Jul-2025	01-Aug-2025	31-Jul-2025	31-Jul-2025	01-Aug-2025	01-Aug-2025	01-Aug-2025	31-Jul-2025	31-Jul-2025

Lab Sample No(s)	31880693	31881134	31881135	31880694	31881140	31881138
Customer Sample Ref.	C8	DUP1	DUP2	EB1	FIELD BLANK (FB)	TRIP BLANK(TB)
AGS Ref.						
Depth						
Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Ammoniacal Nitrogen	28-Jul-2025	28-Jul-2025	28-Jul-2025		28-Jul-2025	28-Jul-2025
Anions by Kone (w)	29-Jul-2025	29-Jul-2025	29-Jul-2025		29-Jul-2025	29-Jul-2025
BOD True Total	30-Jul-2025	31-Jul-2025	30-Jul-2025		30-Jul-2025	30-Jul-2025
Chromium III	30-Jul-2025	29-Jul-2025	29-Jul-2025		29-Jul-2025	29-Jul-2025
Dissolved Metals by ICP-MS	30-Jul-2025	29-Jul-2025	29-Jul-2025		29-Jul-2025	29-Jul-2025
Dissolved Organic/Inorganic Carbon	31-Jul-2025	31-Jul-2025	01-Aug-2025		01-Aug-2025	01-Aug-2025
EPH and CWG by FID	30-Jul-2025	30-Jul-2025	30-Jul-2025		30-Jul-2025	30-Jul-2025
GRO by GC-FID (W)	01-Aug-2025	30-Jul-2025	01-Aug-2025		30-Jul-2025	01-Aug-2025
Hexavalent Chromium (w)	30-Jul-2025	28-Jul-2025	28-Jul-2025		28-Jul-2025	28-Jul-2025
Mercury Dissolved	30-Jul-2025	30-Jul-2025	30-Jul-2025		30-Jul-2025	30-Jul-2025
Nitrite by Kone (w)	29-Jul-2025	28-Jul-2025	28-Jul-2025		28-Jul-2025	28-Jul-2025
PAH Spec MS - Aqueous (W)	31-Jul-2025	31-Jul-2025	31-Jul-2025		31-Jul-2025	01-Aug-2025
Pesticides (Suite I) by GCMS	08-Aug-2025	08-Aug-2025	07-Aug-2025		07-Aug-2025	08-Aug-2025
PFAS Liquids (Full Suite)	01-Aug-2025	04-Aug-2025	04-Aug-2025	29-Jul-2025	04-Aug-2025	04-Aug-2025
pH Value	30-Jul-2025	30-Jul-2025	30-Jul-2025		30-Jul-2025	30-Jul-2025
Phosphate by Kone (w)	29-Jul-2025	29-Jul-2025	29-Jul-2025		29-Jul-2025	29-Jul-2025
Suspended Solids	30-Jul-2025	30-Jul-2025	30-Jul-2025		30-Jul-2025	30-Jul-2025
SVOC MS (W) - Aqueous	01-Aug-2025	31-Jul-2025	01-Aug-2025		31-Jul-2025	01-Aug-2025
Total Metals by ICP-MS	29-Jul-2025	29-Jul-2025	29-Jul-2025		29-Jul-2025	29-Jul-2025
Total Nitrogen	31-Jul-2025	30-Jul-2025	30-Jul-2025		30-Jul-2025	30-Jul-2025
Total Organic and Inorganic Carbon	31-Jul-2025	31-Jul-2025	31-Jul-2025		31-Jul-2025	31-Jul-2025
TPH CWG (W)	01-Aug-2025	30-Jul-2025	01-Aug-2025		30-Jul-2025	01-Aug-2025
VOC MS (W)	01-Aug-2025	31-Jul-2025	01-Aug-2025		31-Jul-2025	01-Aug-2025

Appendix General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised.
This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur -
e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis.
The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l.
Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only.
It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as “mixed hydrocarbons”. Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. **Sample Deviations**

If a sample is classed as deviated then the associated results may be compromised.

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Matrix interference**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to late arrival of instructions or samples**
§	**Sampled on date not provided**

20. **Asbestos**

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two ‘pinch’ samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term ‘trace asbestos identified’ is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.
Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.
The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.

Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US
Tel: (01244) 528777
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

A2 Site Investigations
Broom House
39 / 43 London Road, Hadleigh, Benfleet
South Bank
Essex
SS7 2QL

Attention: Fernando Afonso

CERTIFICATE OF ANALYSIS

Date of report Generation:	15 August 2025
Customer:	A2 Site Investigations
Sample Delivery Group (SDG):	250730-47
Your Reference:	64225
Location:	East Hemel
Report No:	774274
Order Number:	PO5505-ALS-02

This report has been revised and directly supersedes 774273 in its entirety.

We received 4 samples on Wednesday July 30, 2025 and 2 of these samples were scheduled for analysis which was completed on Friday August 15, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.
Incorrect sampling dates and/or sample information will affect the validity of results.

Approved By:

[redacted]

Business Unit Leader - Land

CERTIFICATE OF ANALYSIS

SDG: 250730-47 **Report Number:** 774274 **Superseded Report:** 774273
Client Ref.: 64225 **Location:** East Hemel

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
31909007	EB2			23/07/2025
31909009	EB3			24/07/2025
31909010	TB2			
31909011	TB3			

Only received samples which have had analysis scheduled will be shown on the following pages.

Validated

CERTIFICATE OF ANALYSIS

SDG: 250730-47 **Report Number:** 774274 **Superseded Report:** 774273
Client Ref.: 64225 **Location:** East Hemel

Results Legend
X Test
N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

			Lab Sample No(s)	31909010	31909011
			Customer Sample Reference	TB2	TB3
			AGS Reference		
			Depth (m)		
			Container	0.5l glass bottle (ALE227)	250ml BOD (ALE212)	500ml Plastic (ALE208)	Digitube fo PFAS analysis.	H2SO4 (ALE244)	HNO3 Filtered (ALE204)	NaOH (ALE245)	Vial (ALE297)	0.5l glass bottle (ALE227)	250ml BOD (ALE212)	500ml Plastic (ALE208)	Digitube fo PFAS analysis.	H2SO4 (ALE244)	HNO3 Filtered (ALE204)	Vial (ALE297)
			Sample Type	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 2						X								X		
Anions by Kone (w)	All	NDPs: 0 Tests: 2			X									X				
BOD True Total	All	NDPs: 0 Tests: 2		X								X						
Chromium III	All	NDPs: 0 Tests: 2						X									X	
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 2						X									X	
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 2	X								X							
EPH and CWG by FID	All	NDPs: 0 Tests: 2	X								X							
GRO by GC-FID (W)	All	NDPs: 0 Tests: 2								X								X
Hexavalent Chromium (w)	All	NDPs: 0 Tests: 2			X									X				
Mercury Dissolved	All	NDPs: 0 Tests: 2						X									X	
Nitrite by Kone (w)	All	NDPs: 0 Tests: 2							X					X				
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 2	X								X							
Pesticides (Suite I) by GCMS	All	NDPs: 0 Tests: 2	X								X							
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 2				X									X			
pH Value	All	NDPs: 0 Tests: 2			X									X				

CERTIFICATE OF ANALYSIS

SDG: 250730-47 **Report Number:** 774274 **Superseded Report:** 774273
Client Ref.: 64225 **Location:** East Hemel

Results Legend
X Test
N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type
			31909010	TB2			0.5l glass bottle (ALE227)	GW
							250ml BOD (ALE212)	GW
							500ml Plastic (ALE208)	GW
							Digitube fo PFAS analysis.	GW
							H2SO4 (ALE244)	GW
							HNO3 Filtered (ALE204)	GW
							NaOH (ALE245)	GW
							Vial (ALE297)	GW
			31909011	TB3			0.5l glass bottle (ALE227)	GW
							250ml BOD (ALE212)	GW
							500ml Plastic (ALE208)	GW
							Digitube fo PFAS analysis.	GW
							H2SO4 (ALE244)	GW
							HNO3 Filtered (ALE204)	GW
							Vial (ALE297)	GW
Phosphate by Kone (w)	All	NDPs: 0 Tests: 2						
				X				
				X				
Suspended Solids	All	NDPs: 0 Tests: 2						
				X				
SVOC MS (W) - Aqueous	All	NDPs: 0 Tests: 2	X					
Total Metals by ICP-MS	All	NDPs: 0 Tests: 2						
				X				
Total Nitrogen	All	NDPs: 0 Tests: 2						
				X				
Total Organic and Inorganic Carbon	All	NDPs: 0 Tests: 2						
TPH CWG (W)	All	NDPs: 0 Tests: 2	X					
VOC MS (W)	All	NDPs: 0 Tests: 2						

CERTIFICATE OF ANALYSIS

SDG: 250730-47 **Report Number:** 774274 **Superseded Report:** 774273
Client Ref.: 64225 **Location:** East Hemel

Results Legend	
#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
***	6:2 FTAB (see appendix)
1-4♦§@	Sample deviation (see appendix)

Customer Sample Ref.	TB2	TB3
Depth (m)	.	.
Sample Type	Ground Water (GW)	Ground Water (GW)
Date Sampled	-	-
Sample Time	.	.
Date Received	30/07/2025	30/07/2025
SDG Ref	250730-47	250730-47
Lab Sample No.(s)	31909010	31909011
AGS Reference		

Component	LOD/Units	Method	TB2	TB3
Suspended solids, Total	<2	mg/l	TM022	<2 § #	<2 § #
BOD, unfiltered	<1	mg/l	TM045	<1 § #	<1 § #
Carbon, Organic (diss.filt)	<3	mg/l	TM090	<3 §	3.24 §
Organic Carbon, Total	<3	mg/l	TM090	<3 § #	<3 § #
Ammoniacal Nitrogen as N	<0.2	mg/l	TM099	<0.2 § #	<0.2 § #
Chromium, Trivalent	<0.03	mg/l	TM152	<0.03 §	<0.03 §
Arsenic (diss.filt)	<0.5	µg/l	TM152	<0.5 § #	<0.5 § #
Barium (diss.filt)	<0.2	µg/l	TM152	13.5 § #	13.7 § #
Beryllium (diss.filt)	<0.1	µg/l	TM152	<0.1 § #	<0.1 § #
Boron (diss.filt)	<10	µg/l	TM152	<10 § #	<10 § #
Cadmium (diss.filt)	<0.08	µg/l	TM152	<0.08 § #	<0.08 § #
Chromium (diss.filt)	<1	µg/l	TM152	<1 § #	<1 § #
Copper (diss.filt)	<0.3	µg/l	TM152	<0.3 § #	<0.3 § #
Lead (diss.filt)	<0.2	µg/l	TM152	<0.2 § #	<0.2 § #
Molybdenum (diss.filt)	<3	µg/l	TM152	<3 § #	<3 § #
Nickel (diss.filt)	<0.4	µg/l	TM152	<0.4 § #	<0.4 § #
Selenium (diss.filt)	<1	µg/l	TM152	<1 § #	<1 § #
Vanadium (diss.filt)	<1	µg/l	TM152	<1 § #	<1 § #
Zinc (diss.filt)	<1	µg/l	TM152	<1 § #	<1 § #
Hardness, Total as CaCO3 unfiltered	<0.35	mg/l	TM152	206 2 §	204 2 §
Mercury (diss.filt)	<0.01	µg/l	TM183	<0.01 § #	<0.01 § #
Nitrite as NO2	<0.05	mg/l	TM184	<0.05 § #	<0.05 2 § #
Sulphate	<2	mg/l	TM184	6.8 § #	7.4 § #
Chloride	<2	mg/l	TM184	8.5 § #	8.4 § #
Phosphate (Ortho as P)	<0.02	mg/l	TM184	<0.02 § #	<0.02 § #
Nitrate as NO3	<0.3	mg/l	TM184	2.02 § #	1.96 § #
Nitrogen, Total	<1	mg/l	TM212	<1 § #	<1 § #
Chromium, Hexavalent	<0.03	mg/l	TM241	<0.03 § #	<0.03 § #
pH	<1	pH Units	TM256	8.05 § #	7.89 § #
Trifluralin	<0.01	µg/l	TM343	<0.01 §	<0.01 §
alpha-HCH	<0.01	µg/l	TM343	<0.01 §	<0.01 §
gamma-HCH (Lindane)	<0.01	µg/l	TM343	<0.01 §	<0.01 §
Heptachlor	<0.01	µg/l	TM343	<0.01 §	<0.01 §

Results Legend
ISO17025 accredited.
M mCERTS accredited.
aq Aqueous / settled sample.
diss.filt Dissolved / filtered sample.
tot.unfilt Total / unfiltered sample.
* Subcontracted - refer to subcontractor report for accreditation status.
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
*** 6:2 FTAB (see appendix)
1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TB2	TB3				
			Depth (m)	.	.				
			Sample Type	Ground Water (GW)	Ground Water (GW)				
			Date Sampled	-	-				
			Sample Time	.	.				
			Date Received	30/07/2025	30/07/2025				
			SDG Ref	250730-47	250730-47				
			Lab Sample No.(s)	31909010	31909011				
			AGS Reference						
Aldrin	<0.01 µg/l	TM343		<0.01 §	<0.01 §				
beta-HCH	<0.01 µg/l	TM343		<0.01 §	<0.01 §				
Isodrin	<0.01 µg/l	TM343		<0.01 §	<0.01 §				
delta-HCH	<0.01 µg/l	TM343		<0.01 §	<0.01 §				
Heptachlor epoxide	<0.01 µg/l	TM343		<0.01 §	<0.01 §				
o,p'-DDE	<0.01 µg/l	TM343		<0.01 §	<0.01 §				
Endosulphan I	<0.01 µg/l	TM343		<0.01 §	<0.01 §				
trans-Chlordane	<0.01 µg/l	TM343		<0.01 §	<0.01 §				
cis-Chlordane	<0.01 µg/l	TM343		<0.01 §	<0.01 §				
p,p'-DDE	<0.01 µg/l	TM343		<0.01 §	<0.01 §				
Dieldrin	<0.01 µg/l	TM343		<0.01 §	<0.01 §				
o,p'-DDD (TDE)	<0.01 µg/l	TM343		<0.01 §	<0.01 §				
Endrin	<0.01 µg/l	TM343		<0.01 §	<0.01 §				
o,p'-DDT	<0.01 µg/l	TM343			<0.01 §				
p,p'-DDD (TDE)	<0.01 µg/l	TM343		<0.01 §	<0.01 §				
Endosulphan II	<0.02 µg/l	TM343		<0.02 §	<0.02 §				
p,p'-DDT	<0.01 µg/l	TM343			<0.01 §				
o,p'-Methoxychlor	<0.01 µg/l	TM343			<0.01 §				
p,p'-Methoxychlor	<0.01 µg/l	TM343			<0.01 §				
Endosulphan Sulphate	<0.02 µg/l	TM343		<0.02 §	<0.02 §				
Permethrin I	<0.01 µg/l	TM343		<0.01 §	<0.01 §				
Permethrin II	<0.01 µg/l	TM343		<0.01 §	<0.01 §				
PFBA (375-22-4)	<2 ng/l	TM434		<2 § #	<2 § #				
PFMOPrA (377-73-1)	<1 ng/l	TM434		<1 § #	<1 § #				
3:3 FTCA (356-02-5)	<5 ng/l	TM434		<5 § #	<5 § #				
PFPA (2706-90-3)	<1 ng/l	TM434		<1 § #	<1 § #				
PFMOBA (863090-89-5)	<1 ng/l	TM434		<1 § #	<1 § #				
4:2 FTS (757124-72-4)	<1 ng/l	TM434		<1 § #	<1 § #				
NFDHA (151772-58-6)	<3 ng/l	TM434		<3 § #	<3 § #				
PFBS (375-73-5)	<1 ng/l	TM434		<1 § #	<1 § #				
PFHxA (307-24-4)	<1 ng/l	TM434		<1 § #	<1 § #				
HFPO-DA (13252-13-6)	<2 ng/l	TM434		<2 § #	<2 § #				
PFEESA (113507-82-7)	<1 ng/l	TM434		<1 § #	<1 § #				

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4+§@ Sample deviation (see appendix)

Customer Sample Ref.	TB2	TB3				
Depth (m)	.	.				
Sample Type	Ground Water (GW)	Ground Water (GW)				
Date Sampled	-	-				
Sample Time	.	.				
Date Received	30/07/2025	30/07/2025				
SDG Ref	250730-47	250730-47				
Lab Sample No.(s)	31909010	31909011				
AGS Reference						

Component	LOD/Units	Method						
PFHpA (375-85-9)	<1 ng/l	TM434	<1 § #	<1 § #				
PFPeS (2706-91-4)	<1 ng/l	TM434	<1 § #	<1 § #				
5:3 FTCA (914637-49-3)	<5 ng/l	TM434	<5 § #	<5 § #				
ADONA (919005-14-4)	<1 ng/l	TM434	<1 § #	<1 § #				
6:2 FTS (27619-97-2)	<1 ng/l	TM434	<1 § #	<1 § #				
FBSA (30334-69-1)	<1 ng/l	TM434	<1 § #	<1 § #				
PFOA (335-67-1)	<0.65 ng/l	TM434	<0.65 § #	<0.65 § #				
PFHxS (355-46-4)	<1 ng/l	TM434	<1 § #	<1 § #				
PFNA (375-95-1)	<1 ng/l	TM434	<1 § #	<1 § #				
PFHpS (375-92-8)	<1 ng/l	TM434	<1 § #	<1 § #				
8:2 FTS (39108-34-4)	<2 ng/l	TM434	<2 § #	<2 § #				
HFPO-TA (13252-14-7)	<5 ng/l	TM434	<5 § #	<5 § #				
PFDA (335-76-2)	<2 ng/l	TM434	<2 § #	<2 § #				
MeFOSAA (2355-31-9)	<2 ng/l	TM434	<2 § #	<2 § #				
7:3 FTCA (812-70-4)	<5 ng/l	TM434	<5 § #	<5 § #				
Linear PFOS (1763-23-1)	<0.65 ng/l	TM434	<0.65 § #	<0.65 § #				
Branched PFOS	<0.65 ng/l	TM434	<0.65 § #	<0.65 § #				
EtFOSAA (2991-50-6)	<2 ng/l	TM434	<2 § #	<2 § #				
PFUnA (2058-94-8)	<2 ng/l	TM434	<2 § #	<2 § #				
9Cl-PF3ONS (756426-58-1)	<1 ng/l	TM434	<1 § #	<1 § #				
PFNS (68259-12-1)	<1 ng/l	TM434	<1 § #	<1 § #				
FHxSA (41997-13-1)	<1 ng/l	TM434	<1 § #	<1 § #				
PFDoA (307-55-1)	<2 ng/l	TM434	<2 § #	<2 § #				
PFDS (335-77-3)	<2 ng/l	TM434	<2 § #	<2 § #				
PFTrDA (72629-94-8)	<3 ng/l	TM434	<3 § #	<3 § #				
11Cl-PF3OUdS (763051-92-9)	<2 ng/l	TM434	<2 § #	<2 § #				
PFUnDS (749786-16-1)	<2 ng/l	TM434	<2 § #	<2 § #				
PFTeA (376-06-7)	<1 ng/l	TM434	<1 § #	<1 § #				
PFOSA (754-91-6)	<2 ng/l	TM434	<2 § #	<2 § #				
PFDoS (79780-39-5)	<2 ng/l	TM434	<2 § #	<2 § #				
PFHxDA (67905-19-5)	<1 ng/l	TM434	<1 § #	<1 § #				
MeFOSE (24448-09-7)	<10 ng/l	TM434	<10 § #	<10 § #				
N-MeFOSA (31506-32-8)	<1 ng/l	TM434	<1 § #	<1 § #				

Validated

CERTIFICATE OF ANALYSIS

SDG: 250730-47 Report Number: 774274 Superseded Report: 774273
Client Ref.: 64225 Location: East Hemel

Results Legend	Customer Sample Ref.	TB2	TB3
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4♦§@ Sample deviation (see appendix)	Depth (m)	.	.
	Sample Type	Ground Water (GW)	Ground Water (GW)
	Date Sampled	-	-
	Sample Time	.	.
	Date Received	30/07/2025	30/07/2025
	SDG Ref	250730-47	250730-47
	Lab Sample No.(s)	31909010	31909011
	AGS Reference		

Component	LOD/Units	Method	TB2	TB3
EtFOSE (1691-99-2)	<10 ng/l	TM434	<10 § #	<10 § #
PFODA (16517-11-6)	<1 ng/l	TM434	<1 § #	<1 § #
N-EtFOSA (4151-50-2)	<1 ng/l	TM434	<1 § #	<1 § #
6:2 FTAB (34455-29-3)	<10 ng/l	TM434	<10 §	<10 §
Total PFOS	<0.65 ng/l	TM434	<0.65 § #	<0.65 § #
Total PFAS DWI 47	<90 ng/l	TM434	<90 §	<90 §
PFecHS (133201-07-7)	<1 ng/l	TM434	<1 § #	<1 § #
PFTrDS (174675-49-1)	<1 ng/l	TM434	<1 § #	<1 § #

CERTIFICATE OF ANALYSIS

SDG: 250730-47 **Report Number:** 774274 **Superseded Report:** 774273
Client Ref.: 64225 **Location:** East Hemel

PAH Spec MS - Aqueous (W)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Customer Sample Ref.			TB2	TB3				
Depth (m)			.	.				
Sample Type			Ground Water (GW)	Ground Water (GW)				
Date Sampled			-	-				
Sample Time			.	.				
Date Received			30/07/2025	30/07/2025				
SDG Ref			250730-47	250730-47				
Lab Sample No.(s)			31909010	31909011				
AGS Reference								
Component	**LOD/Units**	**Method**						
Naphthalene (aq)	<0.01 µg/l	TM178	<0.01 § #	<0.01 § #				
Acenaphthene (aq)	<0.005 µg/l	TM178	<0.005 § #	<0.005 § #				
Acenaphthylene (aq)	<0.005 µg/l	TM178	<0.005 § #	<0.005 § #				
Fluoranthene (aq)	<0.005 µg/l	TM178	<0.005 § #	<0.005 § #				
Anthracene (aq)	<0.005 µg/l	TM178	<0.005 § #	<0.005 § #				
Phenanthrene (aq)	<0.005 µg/l	TM178	<0.005 § #	<0.005 § #				
Fluorene (aq)	<0.005 µg/l	TM178	<0.005 § #	<0.005 § #				
Chrysene (aq)	<0.005 µg/l	TM178	<0.005 § #	<0.005 § #				
Pyrene (aq)	<0.005 µg/l	TM178	<0.005 § #	<0.005 § #				
Benzo(a)anthracene (aq)	<0.005 µg/l	TM178	<0.005 § #	<0.005 § #				
Benzo(b)fluoranthene (aq)	<0.005 µg/l	TM178	<0.005 § #	<0.005 § #				
Benzo(k)fluoranthene (aq)	<0.005 µg/l	TM178	<0.005 § #	<0.005 § #				
Benzo(a)pyrene (aq)	<0.002 µg/l	TM178	<0.002 § #	<0.002 § #				
Dibenzo(a,h)anthracene (aq)	<0.005 µg/l	TM178	<0.005 § #	<0.005 § #				
Benzo(g,h,i)perylene (aq)	<0.005 µg/l	TM178	<0.005 § #	<0.005 § #				
Indeno(1,2,3-cd)pyrene (aq)	<0.005 µg/l	TM178	<0.005 § #	<0.005 § #				
PAH, Total Detected USEPA 16 (aq)	<0.082 µg/l	TM178	<0.082 § #	<0.082 § #				

CERTIFICATE OF ANALYSIS

SDG: 250730-47 **Report Number:** 774274 **Superseded Report:** 774273
Client Ref.: 64225 **Location:** East Hemel

SVOC MS (W) - Aqueous

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TB2	TB3				
			Depth (m)	.	.				
			Sample Type	Ground Water (GW)	Ground Water (GW)				
			Date Sampled	-	-				
			Sample Time	.	.				
			Date Received	30/07/2025	30/07/2025				
			SDG Ref	250730-47	250730-47				
			Lab Sample No.(s)	31909010	31909011				
			AGS Reference						
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
2,4-Dichlorophenol (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
2,4-Dimethylphenol (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
2-Chloronaphthalene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
2-Chlorophenol (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
2-Methylnaphthalene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
2-Methylphenol (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
2-Nitroaniline (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
2-Nitrophenol (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
3-Nitroaniline (aq)	<1 µg/l	TM176		<1 §	<1 §				
4-Bromophenylphenylether (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
4-Chloroaniline (aq)	<1 µg/l	TM176		<1 §	<1 §				
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
4-Methylphenol (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
4-Nitroaniline (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
4-Nitrophenol (aq)	<1 µg/l	TM176		<1 §	<1 §				
Azobenzene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
Acenaphthylene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
Acenaphthene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
Anthracene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176		<2 § #	2.59 § #				
Butylbenzyl phthalate (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
Benzo(a)anthracene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				

CERTIFICATE OF ANALYSIS

SDG: 250730-47 **Report Number:** 774274 **Superseded Report:** 774273
Client Ref.: 64225 **Location:** East Hemel

SVOC MS (W) - Aqueous

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TB2	TB3				
			Depth (m)	.	.				
			Sample Type	Ground Water (GW)	Ground Water (GW)				
			Date Sampled	-	-				
			Sample Time	.	.				
			Date Received	30/07/2025	30/07/2025				
			SDG Ref	250730-47	250730-47				
			Lab Sample No.(s)	31909010	31909011				
			AGS Reference						
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
Benzo(a)pyrene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
Carbazole (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
Chrysene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
Dibenzofuran (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
n-Dibutyl phthalate (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
Diethyl phthalate (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
Dimethyl phthalate (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
n-Dioctyl phthalate (aq)	<5 µg/l	TM176		<5 § #	<5 § #				
Fluoranthene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
Fluorene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
Hexachlorobenzene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
Hexachlorobutadiene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
Pentachlorophenol (aq)	<1 µg/l	TM176		<1 §	<1 §				
Phenol (aq)	<1 µg/l	TM176		<1 §	<1 §				
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
Hexachloroethane (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
Nitrobenzene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
Naphthalene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
Isophorone (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176		<1 §	<1 §				
Phenanthrene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				
Pyrene (aq)	<1 µg/l	TM176		<1 § #	<1 § #				

CERTIFICATE OF ANALYSIS

SDG: 250730-47 **Report Number:** 774274 **Superseded Report:** 774273
Client Ref.: 64225 **Location:** East Hemel

TPH CWG (W)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Customer Sample Ref.	TB2	TB3				
Depth (m)	.	.				
Sample Type	Ground Water (GW)	Ground Water (GW)				
Date Sampled	-	-				
Sample Time	.	.				
Date Received	30/07/2025	30/07/2025				
SDG Ref	250730-47	250730-47				
Lab Sample No.(s)	31909010	31909011				
AGS Reference						

Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM245	99 §	97 §				
GRO >C5-C12 (HS_1D_TOTAL)	<50 µg/l	TM245	<50 § #	<50 § #				
Aliphatics >C5-C6 (HS_1D_AL)	<10 µg/l	TM245	<10 §	<10 §				
Aliphatics >C6-C8 (HS_1D_AL)	<10 µg/l	TM245	<10 §	<10 §				
Aliphatics >C8-C10 (HS_1D_AL)	<10 µg/l	TM245	<10 §	<10 §				
Aliphatics >C10-C12 (HS_1D_AL)	<10 µg/l	TM245	<10 §	<10 §				
Aliphatics >C12-C16 (aq) (EH_2D_AL)	<10 µg/l	TM439	<10 §	<10 §				
Aliphatics >C16-C21 (aq) (EH_2D_AL)	<10 µg/l	TM439	<10 §	<10 §				
Aliphatics >C21-C35 (aq) (EH_2D_AL)	<10 µg/l	TM439	<10 §	<10 §				
Total Aliphatics >C12-C35 (aq) (EH_2D_AL)	<10 µg/l	TM439	<10 §	<10 §				
Aromatics >EC5-EC7 (HS_1D_AR)	<10 µg/l	TM245	<10 §	<10 §				
Aromatics >EC7-EC8 (HS_1D_AR)	<10 µg/l	TM245	<10 §	<10 §				
Aromatics >EC8-EC10	<10 µg/l	TM245	<10 §	<10 §				
Aromatics >EC10-EC12	<10 µg/l	TM245	<10 §	<10 §				
Aromatics >EC12-EC16 (aq) (EH_2D_AR_#1)	<10 µg/l	TM439	<10 §	<10 §				
Aromatics >EC16-EC21 (aq) (EH_2D_AR_#1)	<10 µg/l	TM439	<10 §	<10 §				
Aromatics >EC21-EC35 (aq) (EH_2D_AR_#1)	<10 µg/l	TM439	<10 §	<10 §				
Total Aromatics >EC12-EC35 (aq) (EH_2D_AR_#1)	<10 µg/l	TM439	<10 §	<10 §				
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM439	<10 §	<10 §				

CERTIFICATE OF ANALYSIS

SDG: 250730-47 **Report Number:** 774274 **Superseded Report:** 774273
Client Ref.: 64225 **Location:** East Hemel

VOC MS (W)

Results Legend	
#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
***	6:2 FTAB (see appendix)
1-4+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TB2	TB3				
			Depth (m)	.	.				
			Sample Type	Ground Water (GW)	Ground Water (GW)				
			Date Sampled	-	-				
			Sample Time	.	.				
			Date Received	30/07/2025	30/07/2025				
			SDG Ref	250730-47	250730-47				
			Lab Sample No.(s)	31909010	31909011				
			AGS Reference						
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208		<1 § #	<1 § #				
Benzene	<1 µg/l	TM208		<1 § #	<1 § #				
Toluene	<1 µg/l	TM208		<1 § #	<1 § #				
Ethylbenzene	<1 µg/l	TM208		<1 § #	<1 § #				
m,p-Xylene	<1 µg/l	TM208		<1 § #	<1 § #				
o-Xylene	<1 µg/l	TM208		<1 § #	<1 § #				
Sum of detected Xylenes	<2 µg/l	TM208		<2 §	<2 §				
Sum of BTEX	<5 µg/l	TM208		<5 §	<5 §				

Table of Results - Appendix

Method No	Description
TM152	Analysis of Aqueous Samples by ICP-MS
TM183	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM208	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters
TM212	Determination of Total Nitrogen by High Temperature Catalytic Oxidation followed by Chemiluminescence Detection
TM241	The Determination of Hexavalent Chromium in Waters and Leachates using the Kone Analyser
TM245	Determination of GRO by Headspace in waters
TM256	Determination of pH, EC, TDS and Alkalinity in Aqueous samples
TM434	Analysis of PFAS
TM022	Determination of total suspended solids in waters
TM045	Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids
TM090	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM099	Determination of Ammonium in Water Samples using the Kone Analyser
TM176	Determination of SVOCs in Water by GCMS
TM178	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters
TM343	Determination of Selected Pesticides (Suite I) in Liquids by GCMS
TM439	Determination of Extractable Petroleum Hydrocarbons (EPH) CWG banding by GC-FID on liquids

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).

CERTIFICATE OF ANALYSIS

SDG: 250730-47 Report Number: 774274 Superseded Report: 774273
Client Ref.: 64225 Location: East Hemel

Test Completion Dates

Lab Sample No(s)	31909010	31909011
Customer Sample Ref.	TB2	TB3
AGS Ref.		
Depth		
Type	Ground Water	Ground Water
Ammoniacal Nitrogen	06-Aug-2025	06-Aug-2025
Anions by Kone (w)	05-Aug-2025	05-Aug-2025
BOD True Total	06-Aug-2025	06-Aug-2025
Chromium III	12-Aug-2025	12-Aug-2025
Dissolved Metals by ICP-MS	04-Aug-2025	04-Aug-2025
Dissolved Organic/Inorganic Carbon	07-Aug-2025	07-Aug-2025
EPH and CWG by FID	12-Aug-2025	12-Aug-2025
GRO by GC-FID (W)	12-Aug-2025	12-Aug-2025
Hexavalent Chromium (w)	12-Aug-2025	12-Aug-2025
Mercury Dissolved	12-Aug-2025	12-Aug-2025
Nitrite by Kone (w)	02-Aug-2025	02-Aug-2025
PAH Spec MS - Aqueous (W)	12-Aug-2025	12-Aug-2025
Pesticides (Suite I) by GCMS	15-Aug-2025	11-Aug-2025
PFAS Liquids (Full Suite)	12-Aug-2025	12-Aug-2025
pH Value	01-Aug-2025	01-Aug-2025
Phosphate by Kone (w)	02-Aug-2025	02-Aug-2025
Suspended Solids	04-Aug-2025	04-Aug-2025
SVOC MS (W) - Aqueous	11-Aug-2025	11-Aug-2025
Total Metals by ICP-MS	04-Aug-2025	04-Aug-2025
Total Nitrogen	01-Aug-2025	01-Aug-2025
Total Organic and Inorganic Carbon	07-Aug-2025	07-Aug-2025
TPH CWG (W)	12-Aug-2025	12-Aug-2025
VOC MS (W)	12-Aug-2025	12-Aug-2025

Appendix General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised.
This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur -
e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis.
The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l.
Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only.
It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as “mixed hydrocarbons”. Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. **Sample Deviations**

If a sample is classed as deviated then the associated results may be compromised.

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Matrix interference**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to late arrival of instructions or samples**
§	**Sampled on date not provided**

20. **Asbestos**

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two ‘pinch’ samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term ‘trace asbestos identified’ is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.
Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.
The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.

Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US
Tel: (01244) 528777
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

A2 Site Investigations
Broom House
39 / 43 London Road, Hadleigh, Benfleet
South Bank
Essex
SS7 2QL

Attention: Fernando Afonso

CERTIFICATE OF ANALYSIS

Date of report Generation:	11 August 2025
Customer:	A2 Site Investigations
Sample Delivery Group (SDG):	250726-50
Your Reference:	64225
Location:	East Hemel
Report No:	773763
Order Number:	PO5504-ALS-03

This report has been revised and directly supersedes 773757 in its entirety.

We received 4 samples on Saturday July 26, 2025 and 4 of these samples were scheduled for analysis which was completed on Monday August 11, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.
Incorrect sampling dates and/or sample information will affect the validity of results.

Approved By:

[redacted]

Justin Keeton
Business Unit Leader - Land

CERTIFICATE OF ANALYSIS

SDG: 250726-50 **Report Number:** 773763 **Superseded Report:** 773757
Client Ref.: 64225 **Location:** East Hemel

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
31888784	D2			24/07/2025
31888786	D3			24/07/2025
31888787	D4			24/07/2025
31888788	DUP3			

Only received samples which have had analysis scheduled will be shown on the following pages.

Validated

CERTIFICATE OF ANALYSIS

SDG: 250726-50 **Report Number:** 773763 **Superseded Report:** 773757
Client Ref.: 64225 **Location:** East Hemel

Results Legend
X Test
N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

			Lab Sample No(s)	31888784	31888786	31888787
			Customer Sample Reference	D2	D3	D4
			AGS Reference			
			Depth (m)			
			Container	0.5l glass bottle (ALE227)	250ml BOD (ALE212)	500ml Plastic (ALE208)	Digitube fo PFAS analysis.	H2SO4 (ALE244)	HNO3 Filtered (ALE204)	NaOH (ALE245)	Vial (ALE297)	0.5l glass bottle (ALE227)	250ml BOD (ALE212)	500ml Plastic (ALE208)	Digitube fo PFAS analysis.	H2SO4 (ALE244)	HNO3 Filtered (ALE204)	NaOH (ALE245)	Vial (ALE297)	0.5l glass bottle (ALE227)	250ml BOD (ALE212)	500ml Plastic (ALE208)
			Sample Type	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 4						X								X						
Anions by Kone (w)	All	NDPs: 0 Tests: 4			X									X								X
BOD True Total	All	NDPs: 0 Tests: 4		X									X								X	
Chromium III	All	NDPs: 0 Tests: 4						X									X					
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 4						X									X					
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 4	X								X									X		
EPH and CWG by FID	All	NDPs: 0 Tests: 4	X								X									X		
GRO by GC-FID (W)	All	NDPs: 0 Tests: 4								X									X			
Hexavalent Chromium (w)	All	NDPs: 0 Tests: 4			X									X								X
Mercury Dissolved	All	NDPs: 0 Tests: 4						X									X					
Nitrite by Kone (w)	All	NDPs: 0 Tests: 4							X									X				
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 4	X								X									X		
Pesticides (Suite I) by GCMS	All	NDPs: 0 Tests: 4	X								X									X		
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 4				X									X							
pH Value	All	NDPs: 0 Tests: 4			X									X								X

				31888788
			DUP3	
			D4	31888787
Vial (ALE297)	GW			
NaOH (ALE245)	GW			
HNO3 Filtered (ALE204)	GW		X	
H2SO4 (ALE244)	GW	X		
Digitube fo PFAS analysis.	GW			
500ml Plastic (ALE208)	GW		X	
250ml BOD (ALE212)	GW			
0.5l glass bottle (ALE227)	GW		X	
Vial (ALE297)	GW			
NaOH (ALE245)	GW			
HNO3 Filtered (ALE204)	GW		X	
H2SO4 (ALE244)	GW	X		
Digitube fo PFAS analysis.	GW			

Results Legend

- X Test
- N No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Lab Sample No(s)			318888784								318888786								318888787		
Customer Sample Reference			D2								D3								D4		
AGS Reference																					
Depth (m)																					
Container			0.5l glass bottle (ALE227)	250ml BOD (ALE212)	500ml Plastic (ALE208)	Digitube fo PFAS analysis.	H2SO4 (ALE244)	HNO3 Filtered (ALE204)	NaOH (ALE245)	Vial (ALE297)	0.5l glass bottle (ALE227)	250ml BOD (ALE212)	500ml Plastic (ALE208)	Digitube fo PFAS analysis.	H2SO4 (ALE244)	HNO3 Filtered (ALE204)	NaOH (ALE245)	Vial (ALE297)	0.5l glass bottle (ALE227)	250ml BOD (ALE212)	500ml Plastic (ALE208)
Sample Type			GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW
Phosphate by Kone (w)	All	NDPs: 0 Tests: 4			X								X								X
Suspended Solids	All	NDPs: 0 Tests: 4			X								X								X
SVOC MS (W) - Aqueous	All	NDPs: 0 Tests: 4	X								X								X		
Total Metals by ICP-MS	All	NDPs: 0 Tests: 4			X								X								X
Total Nitrogen	All	NDPs: 0 Tests: 4			X								X								X
Total Organic and Inorganic Carbon	All	NDPs: 0 Tests: 4					X								X						
TPH CWG (W)	All	NDPs: 0 Tests: 4	X								X								X		
VOC MS (W)	All	NDPs: 0 Tests: 4								X								X			

	31888788			31888787	
	DUP3			D4	
Vial (ALE297)					
NaOH (ALE245)					
HNO3 Filtered (ALE204)					
H2SO4 (ALE244)					
Digitube fo PFAS analysis.					
500ml Plastic (ALE208)	X	X			
250ml BOD (ALE212)					
0.5l glass bottle (ALE227)			X	X	
Vial (ALE297)					X
NaOH (ALE245)					
HNO3 Filtered (ALE204)					
H2SO4 (ALE244)			X		
Digitube fo PFAS analysis.					
	GW	GW	GW	GW	GW

CERTIFICATE OF ANALYSIS

SDG: 250726-50 **Report Number:** 773763 **Superseded Report:** 773757
Client Ref.: 64225 **Location:** East Hemel

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	D2	D3	D4	DUP3		
			Depth (m)	.	.	.	.		
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)		
			Date Sampled	24/07/2025	24/07/2025	24/07/2025	-		
			Sample Time	.	.	.	.		
			Date Received	26/07/2025	26/07/2025	26/07/2025	26/07/2025		
			SDG Ref	250726-50	250726-50	250726-50	250726-50		
			Lab Sample No.(s)	31888784	31888786	31888787	31888788		
			AGS Reference						
Suspended solids, Total	<2 mg/l	TM022		3180 #	433 #	2550 #	4.6 § #		
BOD, unfiltered	<1 mg/l	TM045		<3 @ #	<1 @ #	<3 @ #	<3 § #		
Carbon, Organic (diss.filt)	<3 mg/l	TM090		<3	<3	<3	4.17 §		
Organic Carbon, Total	<3 mg/l	TM090		<3 #	<3 #	<3 @ #	<3 § #		
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099		<0.2 #	<0.2 #	<0.2 #	<0.2 § #		
Chromium, Trivalent	<0.03 mg/l	TM152		<0.03	<0.03	<0.03	<0.03 §		
Arsenic (diss.filt)	<0.5 µg/l	TM152		<0.5 #	<0.5 #	<0.5 #	<0.5 § #		
Barium (diss.filt)	<0.2 µg/l	TM152		43.3 #	24.9 #	36.7 #	43.7 § #		
Beryllium (diss.filt)	<0.1 µg/l	TM152		<0.1 #	<0.1 #	<0.1 #	<0.1 § #		
Boron (diss.filt)	<10 µg/l	TM152		<10 #	<10 #	<10 #	<10 § #		
Cadmium (diss.filt)	<0.08 µg/l	TM152		<0.08 #	<0.08 #	<0.08 #	<0.08 § #		
Chromium (diss.filt)	<1 µg/l	TM152		5.12 #	3.19 #	2.17 #	3.49 § #		
Copper (diss.filt)	<0.3 µg/l	TM152		1.08 #	<0.3 #	<0.3 #	0.762 § #		
Lead (diss.filt)	<0.2 µg/l	TM152		<0.2 #	<0.2 #	<0.2 #	<0.2 § #		
Molybdenum (diss.filt)	<3 µg/l	TM152		<3 #	<3 #	<3 #	<3 § #		
Nickel (diss.filt)	<0.4 µg/l	TM152		0.417 #	<0.4 #	0.526 #	<0.4 § #		
Selenium (diss.filt)	<1 µg/l	TM152		<1 #	<1 #	<1 #	<1 § #		
Vanadium (diss.filt)	<1 µg/l	TM152		<1 #	<1 #	<1 #	<1 § #		
Zinc (diss.filt)	<1 µg/l	TM152		4.68 #	2.03 #	2.44 #	10.7 § #		
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152		2910 2	600 2	2310 2	282 2 §		
Mercury (diss.filt)	<0.01 µg/l	TM183		<0.01 #	<0.01 #	<0.01 #	<0.01 § #		
Nitrite as NO2	<0.05 mg/l	TM184		<0.05 #	<0.05 #	<0.05 #	<0.05 § #		
Sulphate	<2 mg/l	TM184		2.5 #	23.4 #	7.9 #	3.3 § #		
Chloride	<2 mg/l	TM184		10.6 #	20.2 #	18.2 #	11.1 § #		
Phosphate (Ortho as P)	<0.02 mg/l	TM184		<0.02 #	0.0431 #	0.0268 #	0.0235 § #		
Nitrate as NO3	<0.3 mg/l	TM184		16 #	33.8 #	23.8 #	16.7 § #		
Nitrogen, Total	<1 mg/l	TM212		4.02 #	8.47 #	5.98 #	3.95 § #		
Chromium, Hexavalent	<0.03 mg/l	TM241		<0.03 #	<0.03 #	<0.03 #	<0.03 § #		
pH	<1 pH Units	TM256		7.44 #	7.49 #	7.46 #	7.45 § #		
Trifluralin	<0.01 µg/l	TM343		<0.2	<0.1	<0.2	<0.1 §		
alpha-HCH	<0.01 µg/l	TM343		<0.2	<0.1	<0.2	<0.1 §		
gamma-HCH (Lindane)	<0.01 µg/l	TM343		<0.2	<0.1	<0.2	<0.1 §		
Heptachlor	<0.01 µg/l	TM343		<2	<2	<2	<2 §		

Results Legend
ISO17025 accredited.
M mCERTS accredited.
aq Aqueous / settled sample.
diss.filt Dissolved / filtered sample.
tot.unfilt Total / unfiltered sample.
* Subcontracted - refer to subcontractor report for accreditation status.
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
*** 6:2 FTAB (see appendix)
1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	D2	D3	D4	DUP3		
			Depth (m)	.	.	.	.		
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)		
			Date Sampled	24/07/2025	24/07/2025	24/07/2025	-		
			Sample Time	.	.	.	.		
			Date Received	26/07/2025	26/07/2025	26/07/2025	26/07/2025		
			SDG Ref	250726-50	250726-50	250726-50	250726-50		
			Lab Sample No.(s)	31888784	31888786	31888787	31888788		
			AGS Reference						
Aldrin	<0.01 µg/l	TM343		<0.2	<0.1	<0.2	<0.1 §		
beta-HCH	<0.01 µg/l	TM343		<0.2	<0.1	<0.2	<0.1 §		
Isodrin	<0.01 µg/l	TM343		<0.2	<0.1	<0.2	<0.1 §		
delta-HCH	<0.01 µg/l	TM343		<0.2	<0.1	<0.2	<0.1 §		
Heptachlor epoxide	<0.01 µg/l	TM343		<0.2	<0.1	<0.2	<0.1 §		
o,p'-DDE	<0.01 µg/l	TM343		<0.2	<0.1	<0.2	<0.1 §		
Endosulphan I	<0.01 µg/l	TM343		<0.2	<0.1	<0.2	<0.1 §		
trans-Chlordane	<0.01 µg/l	TM343		<0.2	<0.1	<0.2	<0.1 §		
cis-Chlordane	<0.01 µg/l	TM343		<0.2	<0.1	<0.2	<0.1 §		
p,p'-DDE	<0.01 µg/l	TM343		<0.2	<0.1	<0.2	<0.1 §		
Dieldrin	<0.01 µg/l	TM343		<0.2	<0.1	<0.2	<0.1 §		
o,p'-DDD (TDE)	<0.01 µg/l	TM343		<0.2	<0.1	<0.2	<0.1 §		
Endrin	<0.01 µg/l	TM343		<0.2	<2	<2	<2 §		
o,p'-DDT	<0.01 µg/l	TM343		<2	<2	<2	<2 §		
p,p'-DDD (TDE)	<0.01 µg/l	TM343		<0.2	<0.1	<0.2	<0.1 §		
Endosulphan II	<0.02 µg/l	TM343		<0.4	<0.2	<0.4	<0.2 §		
p,p'-DDT	<0.01 µg/l	TM343		<2	<2	<2	<2 §		
o,p'-Methoxychlor	<0.01 µg/l	TM343		<2	<2	<2	<2 §		
p,p'-Methoxychlor	<0.01 µg/l	TM343		<2	<2	<2	<2 §		
Endosulphan Sulphate	<0.02 µg/l	TM343		<0.4	<0.2	<0.4	<0.2 §		
Permethrin I	<0.01 µg/l	TM343		<0.2	<0.1	<0.2	<0.1 §		
Permethrin II	<0.01 µg/l	TM343		<0.2	<0.1	<0.2	<0.1 §		
PFBA (375-22-4)	<2 ng/l	TM434		<20 #	<20 #	<20 #	<20 § #		
PFMOPrA (377-73-1)	<1 ng/l	TM434		<10 #	<10 #	<10 #	<10 § #		
3:3 FTCA (356-02-5)	<5 ng/l	TM434		<50 #	<50 #	<50 #	<50 § #		
PFPA (2706-90-3)	<1 ng/l	TM434		<10 #	<10 #	<10 #	<10 § #		
PFMOBA (863090-89-5)	<1 ng/l	TM434		<10 #	<10 #	<10 #	<10 § #		
4:2 FTS (757124-72-4)	<1 ng/l	TM434		<10 #	<10 #	<10 #	<10 § #		
NFDHA (151772-58-6)	<3 ng/l	TM434		<30 #	<30 #	<30 #	<30 § #		
PFBS (375-73-5)	<1 ng/l	TM434		<10 #	<10 #	<10 #	<10 § #		
PFHxA (307-24-4)	<1 ng/l	TM434		<10 #	<10 #	<10 #	<10 § #		
HFPO-DA (13252-13-6)	<2 ng/l	TM434		<20 #	<20 #	<20 #	<20 § #		
PFEESA (113507-82-7)	<1 ng/l	TM434		<10 #	<10 #	<10 #	<10 § #		

CERTIFICATE OF ANALYSIS

SDG: 250726-50 **Report Number:** 773763 **Superseded Report:** 773757
Client Ref.: 64225 **Location:** East Hemel

Results Legend	Customer Sample Ref.	D2	D3	D4	DUP3		
# ISO17025 accredited.		.	.	.	.		
M mCERTS accredited.							
aq Aqueous / settled sample.							
diss.filt Dissolved / filtered sample.	Depth (m)	.	.	.	.		
tot.unfilt Total / unfiltered sample.	Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)		
* Subcontracted - refer to subcontractor report for accreditation status.	Date Sampled	24/07/2025	24/07/2025	24/07/2025	-		
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Sample Time	.	.	.	.		
*** 6:2 FTAB (see appendix)	Date Received	26/07/2025	26/07/2025	26/07/2025	26/07/2025		
1-4+§@ Sample deviation (see appendix)	SDG Ref	250726-50	250726-50	250726-50	250726-50		
	Lab Sample No.(s)	31888784	31888786	31888787	31888788		
	AGS Reference						

Component	LOD/Units	Method											
PFHpA (375-85-9)	<1 ng/l	TM434	<10	#	<10	#	<10	#	<10	§ #			
PFPeS (2706-91-4)	<1 ng/l	TM434	<10	#	<10	#	<10	#	<10	§ #			
5:3 FTCA (914637-49-3)	<5 ng/l	TM434	<50	#	<50	#	<50	#	<50	§ #			
ADONA (919005-14-4)	<1 ng/l	TM434	<10	#	<10	#	<10	#	<10	§ #			
6:2 FTS (27619-97-2)	<1 ng/l	TM434	<10	#	<10	#	<10	#	<10	§ #			
FBSA (30334-69-1)	<1 ng/l	TM434	<10	#	<10	#	<10	#	<10	§ #			
PFOA (335-67-1)	<0.65 ng/l	TM434	32.9	#	<6.5	#	<6.5	#	<6.5	§ #			
PFHxS (355-46-4)	<1 ng/l	TM434	<10	#	<10	#	<10	#	<10	§ #			
PFNA (375-95-1)	<1 ng/l	TM434	<10	#	<10	#	<10	#	<10	§ #			
PFHpS (375-92-8)	<1 ng/l	TM434	<10	#	<10	#	<10	#	<10	§ #			
8:2 FTS (39108-34-4)	<2 ng/l	TM434	<20	#	<20	#	<20	#	<20	§ #			
HFPO-TA (13252-14-7)	<5 ng/l	TM434	<50	#	<50	#	<50	#	<50	§ #			
PFDA (335-76-2)	<2 ng/l	TM434	<20	#	<20	#	<20	#	<20	§ #			
MeFOSAA (2355-31-9)	<2 ng/l	TM434	<20	@ #	<20	@ #	<20	@ #	<20	§ #			
7:3 FTCA (812-70-4)	<5 ng/l	TM434	<50	#	<50	#	<50	#	<50	§ #			
Linear PFOS (1763-23-1)	<0.65 ng/l	TM434	<6.5	#	<6.5	#	<6.5	#	<6.5	§ #			
Branched PFOS	<0.65 ng/l	TM434	<6.5	#	<6.5	#	<6.5	#	<6.5	§ #			
EtFOSAA (2991-50-6)	<2 ng/l	TM434	<20	@ #	<20	@ #	<20	@ #	<20	§ #			
PFUnA (2058-94-8)	<2 ng/l	TM434	<20	#	<20	#	<20	#	<20	§ #			
9Cl-PF3ONS (756426-58-1)	<1 ng/l	TM434	<10	#	<10	#	<10	#	<10	§ #			
PFNS (68259-12-1)	<1 ng/l	TM434	<10	#	<10	#	<10	#	<10	§ #			
FHxSA (41997-13-1)	<1 ng/l	TM434	<10	#	<10	#	<10	#	<10	§ #			
PFDoA (307-55-1)	<2 ng/l	TM434	<20	#	<20	#	<20	#	<20	§ #			
PFDS (335-77-3)	<2 ng/l	TM434	<20	#	<20	#	<20	#	<20	§ #			
PFTrDA (72629-94-8)	<3 ng/l	TM434	<30	#	<30	#	<30	#	<30	§ #			
11Cl-PF3OUdS (763051-92-9)	<2 ng/l	TM434	<20	#	<20	#	<20	#	<20	§ #			
PFUnDS (749786-16-1)	<2 ng/l	TM434	<20	#	<20	#	<20	#	<20	§ #			
PFTeA (376-06-7)	<1 ng/l	TM434	<10	#	<10	#	<10	#	<10	§ #			
PFOSA (754-91-6)	<2 ng/l	TM434	<20	#	<20	#	<20	#	<20	§ #			
PFDoS (79780-39-5)	<2 ng/l	TM434	<20	#	<20	#	<20	#	<20	§ #			
PFHxDA (67905-19-5)	<1 ng/l	TM434	<10	#	<10	#	<10	#	<10	§ #			
MeFOSE (24448-09-7)	<10 ng/l	TM434	<100	@ #	<100	@ #	<100	@ #	<100	§ #			
N-MeFOSA (31506-32-8)	<1 ng/l	TM434	<10	#	<10	#	<10	#	<10	§ #			

CERTIFICATE OF ANALYSIS

SDG: 250726-50 **Report Number:** 773763 **Superseded Report:** 773757
Client Ref.: 64225 **Location:** East Hemel

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	D2	D3	D4	DUP3		
			Depth (m)	.	.	.	.		
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)		
			Date Sampled	24/07/2025	24/07/2025	24/07/2025	-		
			Sample Time	.	.	.	.		
			Date Received	26/07/2025	26/07/2025	26/07/2025	26/07/2025		
			SDG Ref	250726-50	250726-50	250726-50	250726-50		
			Lab Sample No.(s)	31888784	31888786	31888787	31888788		
			AGS Reference						
EtFOSE (1691-99-2)	<10 ng/l	TM434		<100 @ #	<100 @ #	<100 @ #	<100 § #		
PFODA (16517-11-6)	<1 ng/l	TM434		<10 #	<10 #	<10 #	<10 § #		
N-EtFOSA (4151-50-2)	<1 ng/l	TM434		<10 #	<10 #	<10 #	<10 § #		
6:2 FTAB (34455-29-3)	<10 ng/l	TM434		<100	<100	<100	<100 §		
Total PFOS	<0.65 ng/l	TM434		<6.5 #	<6.5 #	<6.5 #	<6.5 § #		
Total PFAS DWI 47	<90 ng/l	TM434		<900		<900	<900 §		
PFecHS (133201-07-7)	<1 ng/l	TM434		<10 #	<10 #	<10 #	<10 § #		
PFTrDS (174675-49-1)	<1 ng/l	TM434		<10 #	<10 #	<10 #	<10 § #		

CERTIFICATE OF ANALYSIS

SDG: 250726-50 **Report Number:** 773763 **Superseded Report:** 773757
Client Ref.: 64225 **Location:** East Hemel

PAH Spec MS - Aqueous (W)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	D2	D3	D4	DUP3		
			Depth (m)	.	.	.	.		
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)		
			Date Sampled	24/07/2025	24/07/2025	24/07/2025	-		
			Sample Time	.	.	.	.		
			Date Received	26/07/2025	26/07/2025	26/07/2025	26/07/2025		
			SDG Ref	250726-50	250726-50	250726-50	250726-50		
			Lab Sample No.(s)	31888784	31888786	31888787	31888788		
			AGS Reference						
Naphthalene (aq)	<0.01 µg/l	TM178		<0.1 #	<0.01 #	<0.1 #	<0.1 § #		
Acenaphthene (aq)	<0.005 µg/l	TM178		<0.05 #	<0.005 #	<0.05 #	<0.05 § #		
Acenaphthylene (aq)	<0.005 µg/l	TM178		<0.05 #	<0.005 #	<0.05 #	<0.05 § #		
Fluoranthene (aq)	<0.005 µg/l	TM178		<0.05 #	<0.005 #	<0.05 #	<0.05 § #		
Anthracene (aq)	<0.005 µg/l	TM178		<0.05 #	<0.005 #	<0.05 #	<0.05 § #		
Phenanthrene (aq)	<0.005 µg/l	TM178		<0.05 #	<0.005 #	<0.05 #	<0.05 § #		
Fluorene (aq)	<0.005 µg/l	TM178		<0.05 #	<0.005 #	<0.05 #	<0.05 § #		
Chrysene (aq)	<0.005 µg/l	TM178		<0.05 #	<0.005 #	<0.05 #	<0.05 § #		
Pyrene (aq)	<0.005 µg/l	TM178		<0.05 #	<0.005 #	<0.05 #	<0.05 § #		
Benzo(a)anthracene (aq)	<0.005 µg/l	TM178		<0.05 #	<0.005 #	<0.05 #	<0.05 § #		
Benzo(b)fluoranthene (aq)	<0.005 µg/l	TM178		<0.05 #	<0.005 #	<0.05 #	<0.05 § #		
Benzo(k)fluoranthene (aq)	<0.005 µg/l	TM178		<0.05 #	<0.005 #	<0.05 #	<0.05 § #		
Benzo(a)pyrene (aq)	<0.002 µg/l	TM178		<0.02 #	<0.002 #	<0.02 #	<0.02 § #		
Dibenzo(a,h)anthracene (aq)	<0.005 µg/l	TM178		<0.05 #	<0.005 #	<0.05 #	<0.05 § #		
Benzo(g,h,i)perylene (aq)	<0.005 µg/l	TM178		<0.05 #	<0.005 #	<0.05 #	<0.05 § #		
Indeno(1,2,3-cd)pyrene (aq)	<0.005 µg/l	TM178		<0.05 #	<0.005 #	<0.05 #	<0.05 § #		
PAH, Total Detected USEPA 16 (aq)	<0.082 µg/l	TM178		<0.82 #	<0.082 #	<0.82 #	<0.82 § #		

CERTIFICATE OF ANALYSIS

SDG: 250726-50 **Report Number:** 773763 **Superseded Report:** 773757
Client Ref.: 64225 **Location:** East Hemel

SVOC MS (W) - Aqueous

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Customer Sample Ref.	D2	D3	D4	DUP3		
Depth (m)	.	.	.	.		
Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)		
Date Sampled	24/07/2025	24/07/2025	24/07/2025	-		
Sample Time	.	.	.	.		
Date Received	26/07/2025	26/07/2025	26/07/2025	26/07/2025		
SDG Ref	250726-50	250726-50	250726-50	250726-50		
Lab Sample No.(s)	31888784	31888786	31888787	31888788		
AGS Reference						
Component	**LOD/Units**	**Method**				
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
2,4-Dimethylphenol (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
2-Chlorophenol (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
2-Methylnaphthalene (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
2-Methylphenol (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
2-Nitroaniline (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
2-Nitrophenol (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
3-Nitroaniline (aq)	<1 µg/l	TM176	<200	<2	<10	<2 §		
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
4-Chloroaniline (aq)	<1 µg/l	TM176	<200	<2	<10	<2 §		
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
4-Methylphenol (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
4-Nitroaniline (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
4-Nitrophenol (aq)	<1 µg/l	TM176	<200	<2	<10	<2 §		
Azobenzene (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
Acenaphthylene (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
Acenaphthene (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
Anthracene (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<400 #	<4 #	<20 #	<4 § #		
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		
Benzo(a)anthracene (aq)	<1 µg/l	TM176	<200 #	<2 #	<10 #	<2 § #		

CERTIFICATE OF ANALYSIS

SDG: 250726-50 **Report Number:** 773763 **Superseded Report:** 773757
Client Ref.: 64225 **Location:** East Hemel

SVOC MS (W) - Aqueous

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	D2	D3	D4	DUP3		
			Depth (m)	.	.	.	.		
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)		
			Date Sampled	24/07/2025	24/07/2025	24/07/2025	-		
			Sample Time	.	.	.	.		
			Date Received	26/07/2025	26/07/2025	26/07/2025	26/07/2025		
			SDG Ref	250726-50	250726-50	250726-50	250726-50		
			Lab Sample No.(s)	31888784	31888786	31888787	31888788		
			AGS Reference						
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176		<200 #	<2 #	<10 #	<2 § #		
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176		<200 #	<2 #	<10 #	<2 § #		
Benzo(a)pyrene (aq)	<1 µg/l	TM176		<200 #	<2 #	<10 #	<2 § #		
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176		<200 #	<2 #	<10 #	<2 § #		
Carbazole (aq)	<1 µg/l	TM176		<200 #	<2 #	<10 #	<2 § #		
Chrysene (aq)	<1 µg/l	TM176		<200 #	<2 #	<10 #	<2 § #		
Dibenzofuran (aq)	<1 µg/l	TM176		<200 #	<2 #	<10 #	<2 § #		
n-Dibutyl phthalate (aq)	<1 µg/l	TM176		<200 #	<2 #	<10 #	<2 § #		
Diethyl phthalate (aq)	<1 µg/l	TM176		<200 #	<2 #	<10 #	<2 § #		
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176		<200 #	<2 #	<10 #	<2 § #		
Dimethyl phthalate (aq)	<1 µg/l	TM176		<200 #	<2 #	<10 #	<2 § #		
n-Dioctyl phthalate (aq)	<5 µg/l	TM176		<1000 #	<10 #	<50 #	<10 § #		
Fluoranthene (aq)	<1 µg/l	TM176		<200 #	<2 #	<10 #	<2 § #		
Fluorene (aq)	<1 µg/l	TM176		<200 #	<2 #	<10 #	<2 § #		
Hexachlorobenzene (aq)	<1 µg/l	TM176		<200 #	<2 #	<10 #	<2 § #		
Hexachlorobutadiene (aq)	<1 µg/l	TM176		<200 #	<2 #	<10 #	<2 § #		
Pentachlorophenol (aq)	<1 µg/l	TM176		<200	<2	<10	<2 §		
Phenol (aq)	<1 µg/l	TM176		<200	<2	<10	<2 §		
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176		<200 #	<2 #	<10 #	<2 § #		
Hexachloroethane (aq)	<1 µg/l	TM176		<200 #	<2 #	<10 #	<2 § #		
Nitrobenzene (aq)	<1 µg/l	TM176		<200 #	<2 #	<10 #	<2 § #		
Naphthalene (aq)	<1 µg/l	TM176		<200 #	<2 #	<10 #	<2 § #		
Isophorone (aq)	<1 µg/l	TM176		<200 #	<2 #	<10 #	<2 § #		
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176		<200	<2	<10	<2 §		
Phenanthrene (aq)	<1 µg/l	TM176		<200 #	<2 #	<10 #	<2 § #		
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176		<200 #	<2 #	<10 #	<2 § #		
Pyrene (aq)	<1 µg/l	TM176		<200 #	<2 #	<10 #	<2 § #		

CERTIFICATE OF ANALYSIS

SDG: 250726-50 **Report Number:** 773763 **Superseded Report:** 773757
Client Ref.: 64225 **Location:** East Hemel

TPH CWG (W)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	D2	D3	D4	DUP3		
			Depth (m)	.	.	.	.		
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)		
			Date Sampled	24/07/2025	24/07/2025	24/07/2025	-		
			Sample Time	.	.	.	.		
			Date Received	26/07/2025	26/07/2025	26/07/2025	26/07/2025		
			SDG Ref	250726-50	250726-50	250726-50	250726-50		
			Lab Sample No.(s)	31888784	31888786	31888787	31888788		
			AGS Reference						
GRO Surrogate % recovery**	%	TM245		88	89	90	84 §		
GRO >C5-C12 (HS_1D_TOTAL)	<50 µg/l	TM245		<50 #	<50 #	<50 #	<50 § #		
Aliphatics >C5-C6 (HS_1D_AL)	<10 µg/l	TM245		<10	<10	<10	<10 §		
Aliphatics >C6-C8 (HS_1D_AL)	<10 µg/l	TM245		<10	<10	<10	<10 §		
Aliphatics >C8-C10 (HS_1D_AL)	<10 µg/l	TM245		<10	<10	<10	<10 §		
Aliphatics >C10-C12 (HS_1D_AL)	<10 µg/l	TM245		<10	<10	<10	<10 §		
Aliphatics >C12-C16 (aq) (EH_2D_AL)	<10 µg/l	TM439		<10	<10	<10	<50 §		
Aliphatics >C16-C21 (aq) (EH_2D_AL)	<10 µg/l	TM439		<10	<10	<10	<50 §		
Aliphatics >C21-C35 (aq) (EH_2D_AL)	<10 µg/l	TM439		<10	<10	<10	<50 §		
Total Aliphatics >C12-C35 (aq) (EH_2D_AL)	<10 µg/l	TM439		<10	<10	<10	<50 §		
Aromatics >EC5-EC7 (HS_1D_AR)	<10 µg/l	TM245		<10	<10	<10	<10 §		
Aromatics >EC7-EC8 (HS_1D_AR)	<10 µg/l	TM245		<10	<10	<10	<10 §		
Aromatics >EC8-EC10	<10 µg/l	TM245		<10	<10	<10	<10 §		
Aromatics >EC10-EC12	<10 µg/l	TM245		<10	<10	<10	<10 §		
Aromatics >EC12-EC16 (aq) (EH_2D_AR_#1)	<10 µg/l	TM439		<10	<10	<10	<50 §		
Aromatics >EC16-EC21 (aq) (EH_2D_AR_#1)	<10 µg/l	TM439		<10	<10	<10	<50 §		
Aromatics >EC21-EC35 (aq) (EH_2D_AR_#1)	<10 µg/l	TM439		291	<10	<10	<50 §		
Total Aromatics >EC12-EC35 (aq) (EH_2D_AR_#1)	<10 µg/l	TM439		291	<10	<10	<50 §		
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM439		291	<10	<10	<10 §		

CERTIFICATE OF ANALYSIS

SDG: 250726-50 **Report Number:** 773763 **Superseded Report:** 773757
Client Ref.: 64225 **Location:** East Hemel

VOC MS (W)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	D2	D3	D4	DUP3		
			Depth (m)	.	.	.	.		
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)		
			Date Sampled	24/07/2025	24/07/2025	24/07/2025	-		
			Sample Time	.	.	.	.		
			Date Received	26/07/2025	26/07/2025	26/07/2025	26/07/2025		
			SDG Ref	250726-50	250726-50	250726-50	250726-50		
			Lab Sample No.(s)	31888784	31888786	31888787	31888788		
			AGS Reference						
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 § #		
Benzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 § #		
Toluene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 § #		
Ethylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 § #		
m,p-Xylene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 § #		
o-Xylene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 § #		
Sum of detected Xylenes	<2 µg/l	TM208		<2	<2	<2	<2 §		
Sum of BTEX	<5 µg/l	TM208		<5	<5	<5	<5 §		

Table of Results - Appendix

Method No	Description
TM022	Determination of total suspended solids in waters
TM045	Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids
TM090	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM099	Determination of Ammonium in Water Samples using the Kone Analyser
TM152	Analysis of Aqueous Samples by ICP-MS
TM176	Determination of SVOCs in Water by GCMS
TM178	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters
TM183	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM208	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters
TM212	Determination of Total Nitrogen by High Temperature Catalytic Oxidation followed by Chemiluminescence Detection
TM241	The Determination of Hexavalent Chromium in Waters and Leachates using the Kone Analyser
TM245	Determination of GRO by Headspace in waters
TM256	Determination of pH, EC, TDS and Alkalinity in Aqueous samples
TM343	Determination of Selected Pesticides (Suite I) in Liquids by GCMS
TM434	Analysis of PFAS
TM439	Determination of Extractable Petroleum Hydrocarbons (EPH) CWG banding by GC-FID on liquids

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).

CERTIFICATE OF ANALYSIS

SDG: 250726-50 **Report Number:** 773763 **Superseded Report:** 773757
Client Ref.: 64225 **Location:** East Hemel

Test Completion Dates

Lab Sample No(s)	31888784	31888786	31888787	31888788
Customer Sample Ref.	D2	D3	D4	DUP3
AGS Ref.				
Depth				
Type	Ground Water	Ground Water	Ground Water	Ground Water
Ammoniacal Nitrogen	29-Jul-2025	29-Jul-2025	29-Jul-2025	29-Jul-2025
Anions by Kone (w)	01-Aug-2025	01-Aug-2025	01-Aug-2025	01-Aug-2025
BOD True Total	02-Aug-2025	02-Aug-2025	02-Aug-2025	02-Aug-2025
Chromium III	01-Aug-2025	01-Aug-2025	01-Aug-2025	01-Aug-2025
Dissolved Metals by ICP-MS	31-Jul-2025	31-Jul-2025	31-Jul-2025	31-Jul-2025
Dissolved Organic/Inorganic Carbon	02-Aug-2025	02-Aug-2025	02-Aug-2025	02-Aug-2025
EPH and CWG by FID	31-Jul-2025	04-Aug-2025	31-Jul-2025	04-Aug-2025
GRO by GC-FID (W)	05-Aug-2025	05-Aug-2025	05-Aug-2025	05-Aug-2025
Hexavalent Chromium (w)	01-Aug-2025	01-Aug-2025	01-Aug-2025	01-Aug-2025
Mercury Dissolved	04-Aug-2025	04-Aug-2025	04-Aug-2025	04-Aug-2025
Nitrite by Kone (w)	30-Jul-2025	30-Jul-2025	30-Jul-2025	30-Jul-2025
PAH Spec MS - Aqueous (W)	04-Aug-2025	04-Aug-2025	04-Aug-2025	04-Aug-2025
Pesticides (Suite I) by GCMS	11-Aug-2025	11-Aug-2025	11-Aug-2025	11-Aug-2025
PFAS Liquids (Full Suite)	06-Aug-2025	10-Aug-2025	06-Aug-2025	06-Aug-2025
pH Value	31-Jul-2025	31-Jul-2025	31-Jul-2025	31-Jul-2025
Phosphate by Kone (w)	31-Jul-2025	31-Jul-2025	30-Jul-2025	30-Jul-2025
Suspended Solids	01-Aug-2025	01-Aug-2025	01-Aug-2025	01-Aug-2025
SVOC MS (W) - Aqueous	01-Aug-2025	01-Aug-2025	04-Aug-2025	01-Aug-2025
Total Metals by ICP-MS	31-Jul-2025	31-Jul-2025	31-Jul-2025	31-Jul-2025
Total Nitrogen	31-Jul-2025	31-Jul-2025	31-Jul-2025	31-Jul-2025
Total Organic and Inorganic Carbon	31-Jul-2025	31-Jul-2025	02-Aug-2025	02-Aug-2025
TPH CWG (W)	05-Aug-2025	05-Aug-2025	05-Aug-2025	05-Aug-2025
VOC MS (W)	04-Aug-2025	04-Aug-2025	04-Aug-2025	04-Aug-2025

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised.
This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur -
e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis.
The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l.
Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only.
It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as “mixed hydrocarbons”. Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. **Sample Deviations**

If a sample is classed as deviated then the associated results may be compromised.

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Matrix interference**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to late arrival of instructions or samples**
§	**Sampled on date not provided**

20. **Asbestos**

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two ‘pinch’ samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term ‘trace asbestos identified’ is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.
Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.
The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.

Appendix E: Groundwater Sampling Record

Project Name:	**East Hemel**
Project Number:	**64225**
Date of Sampling:	**22/07/2025**
Engineer Name:	**Marcos Biava/Ollie Archer**
Weather:	**Cloudy**
Atmospheric Pressure:	-

A2 Site Investigation

A3							
Water Level (m)	**Well Depth (m)**	**Water Column (m)**	**Free Phase**	**Sampling Depth (m**	**Start sampling**	**09:20**	**Comments**
10.97	18.8	7.83	No	**13**	**End sampling**	**10:00**	
Purging time	**Temp (°C)**	**Pressure (mmHg)**	**Dissolved Oxygen (mg/L)**	**Conductivity (µs/cm)**	**ORP (mV)**	**pH (pH Units)**	
01:00	17.7	749.7	3.59	637	22.8	9.81	-
02:00	17.8	749.8	3.61	638	22.8	9.80	
03:00	18.0	749.8	3.39	640	19.6	9.84	
04:00	18.0	749.9	3.36	641	18.2	9.89	

A6							
Water Level (m)	**Well Depth (m)**	**Water Column (m)**	**Free Phase**	**Sampling Depth (m**	**Start sampling**	**11:15**	**Comments**
34.5	55.5	21	No	**42**	**End sampling**	**11:55**	
Purging time	**Temp (°C)**	**Pressure (mmHg)**	**Dissolved Oxygen (mg/L)**	**Conductivity (µs/cm)**	**ORP (mV)**	**pH (pH Units)**	
01:00	14.7	748.5	6.80	572	31.5	8.22	-
02:00	14.8	748.5	2.33	573	-19.8	8.69	
03:00	15.5	748.4	2.14	595	-30.7	8.72	
04:00	15.5	748.4	2.15	596	-29.7	8.75	

A8							
Water Level (m)	**Well Depth (m)**	**Water Column (m)**	**Free Phase**	**Sampling Depth (m**	**Start sampling**	**12:00**	**Comments**
39.5	46.2	6.7	No	**43**	**End sampling**	**12:40**	
Purging time	**Temp (°C)**	**Pressure (mmHg)**	**Dissolved Oxygen (mg/L)**	**Conductivity (µs/cm)**	**ORP (mV)**	**pH (pH Units)**	
01:00	15.7	747.5	9.84	582	85.0	8.85	-
02:00	16.0	747.5	4.15	393	60.5	9.86	
03:00	16.5	747.6	3.59	340	57.6	9.91	
04:00	16.6	747.6	3.33	336.9	51.0	9.94	

B1							
Water Level (m)	**Well Depth (m)**	**Water Column (m)**	**Free Phase**	**Sampling Depth (m**	**Start sampling**	**13:45**	**Comments**
30.91	44.23	13.32	No	**35**	**End sampling**	**14:25**	
Purging time	**Temp (°C)**	**Pressure (mmHg)**	**Dissolved Oxygen (mg/L)**	**Conductivity (µs/cm)**	**ORP (mV)**	**pH (pH Units)**	
01:00	21.2	748.5	6.78	651	151.4	9.35	-
02:00	21.5	748.4	4.43	660	99.6	9.84	
03:00	21.7	748.4	3.95	664	90.3	9.90	
04:00	22.0	748.4	3.61	667	85.5	9.93	

B2							
Water Level (m)	**Well Depth (m)**	**Water Column (m)**	**Free Phase**	**Sampling Depth (m**	**Start sampling**	**14:40**	**Comments**
37.07	47.06	9.99	No	**42**	**End sampling**	**15:20**	
Purging time	**Temp (°C)**	**Pressure (mmHg)**	**Dissolved Oxygen (mg/L)**	**Conductivity (µs/cm)**	**ORP (mV)**	**pH (pH Units)**	
01:00	16.3	747.5	10.59	567	2.7	9.81	-
02:00	17.4	747.5	4.09	575	-22.3	9.84	
03:00	18.5	747.3	4.05	588	-28.2	9.85	
04:00	18.9	747.4	3.98	594	-26.8	9.94	

Project Name:	**East Hemel**
Project Number:	**64225**
Date of Sampling:	**22/07/2025**
Engineer Name:	**Marcos Biava/Ollie Archer**
Weather:	**Cloudy**
Atmospheric Pressure:	-

A2 Site Investigation

B3							
Water Level (m)	**Well Depth (m)**	**Water Column (m)**	**Free Phase**	**Sampling Depth (m**	**Start sampling**	**15:55**	**Comments**
40.43	46.88	6.45	No	**43**	**End sampling**	**16:30**	
Purging time	**Temp (°C)**	**Pressure (mmHg)**	**Dissolved Oxygen (mg/L)**	**Conductivity (µs/cm)**	**ORP (mV)**	**pH (pH Units)**	
01:00	18.4	747.7	3.13	367.3	-61.6	10.10	-
02:00	18.6	747.7	2.90	372.2	-60.0	10.18	
03:00	18.8	747.7	2.82	373.8	-58.6	10.20	
04:00	18.9	747.6	2.71	375.0	-57.6	10.23	

Project Name:	**East Hemel**
Project Number:	**64225**
Date of Sampling:	**23/07/2025**
Engineer Name:	**Marcos Biava/Ollie Archer**
Weather:	**Cloudy**
Atmospheric Pressure:	-

A2 Site Investigation

C4							
Water Level (m)	**Well Depth (m)**	**Water Column (m)**	**Free Phase**	**Sampling Depth (m**	**Start sampling**	**09:20**	**Comments**
26.91	53.65	26.74	No	**30**	**End sampling**	**10:00**	
Purging time	**Temp (°C)**	**Pressure (mmHg)**	**Dissolved Oxygen (mg/L)**	**Conductivity (µs/cm)**	**ORP (mV)**	**pH (pH Units)**	
01:00	16.3	752.3	9.23	514	118.2	8.19	**Duplicate 1**
02:00	16.4	752.3	4.39	516	27.9	9.77	
03:00	16.6	752.3	4.21	521	25.8	9.77	
04:00	16.8	752.2	4.18	523	17.9	9.80	

C3							
Water Level (m)	**Well Depth (m)**	**Water Column (m)**	**Free Phase**	**Sampling Depth (m**	**Start sampling**	**10:50**	**Comments**
32.79	48.61	15.82	No	**38**	**End sampling**	**11:30**	
Purging time	**Temp (°C)**	**Pressure (mmHg)**	**Dissolved Oxygen (mg/L)**	**Conductivity (µs/cm)**	**ORP (mV)**	**pH (pH Units)**	
01:00	16.7	751.3	7.68	632	182.2	10.17	**Duplicate 2**
02:00	17.4	751	3.99	641	100.1	10.21	
03:00	17.8	750.9	3.65	646	94.7	10.18	
04:00	18.1	750.9	3.51	650	90.4	10.15	

C8							
Water Level (m)	**Well Depth (m)**	**Water Column (m)**	**Free Phase**	**Sampling Depth (m**	**Start sampling**	**12:20**	**Comments**
30.53	48.05	17.52	No	**35**	**End sampling**	**13:00**	
Purging time	**Temp (°C)**	**Pressure (mmHg)**	**Dissolved Oxygen (mg/L)**	**Conductivity (µs/cm)**	**ORP (mV)**	**pH (pH Units)**	
01:00	18.8	751.3	4.55	48.6	38.6	9.34	-
02:00	19.1	751.2	3.21	49.1	-10.1	9.95	
03:00	19.5	751.0	3.16	38.2	-17.2	9.97	
04:00	20.0	751.0	3.02	50.7	-18.7	10.05	

C1							
Water Level (m)	**Well Depth (m)**	**Water Column (m)**	**Free Phase**	**Sampling Depth (m**	**Start sampling**	**14:40**	**Comments**
37.05	52.75	15.7	No	**42**	**End sampling**	**15:20**	
Purging time	**Temp (°C)**	**Pressure (mmHg)**	**Dissolved Oxygen (mg/L)**	**Conductivity (µs/cm)**	**ORP (mV)**	**pH (pH Units)**	
01:00	17.3	749.4	8.67	657	67.4	9.89	-
02:00	18.1	749.3	5.08	667	34.4	10.00	
03:00	18.4	749.3	4.92	673	25.6	10.08	
04:00	19.1	749.1	4.89	686	24.8	10.00	

C6							
Water Level (m)	**Well Depth (m)**	**Water Column (m)**	**Free Phase**	**Sampling Depth (m**	**Start sampling**	**16:45**	**Comments**
52.98	60	7.02	No	**60**	**End sampling**	**17:25**	
Purging time	**Temp (°C)**	**Pressure (mmHg)**	**Dissolved Oxygen (mg/L)**	**Conductivity (µs/cm)**	**ORP (mV)**	**pH (pH Units)**	
01:00	21.8	748.7	7.48	664	9.49	9.54	-
02:00	22.1	748.6	4.58	667	5.78	10.07	
03:00	22.5	748.6	4.51	670	5.29	10.17	
04:00	22.6	748.7	4.37	698	5.92	10.30	

Project Name:	**East Hemel**
Project Number:	**64225**
Date of Sampling:	**24/07/2025**
Engineer Name:	**Marcos Biava/Ollie Archer**
Weather:	**Cloudy**
Atmospheric Pressure:	**-**

A2 Site Investigation

D2							
Water Level (m)	**Well Depth (m)**	**Water Column (m)**	**Free Phase**	**Sampling Depth (m**	**Start sampling**	**11:30**	**Comments**
45.32	52.03	6.71	No	**50**	**End sampling**	**12:10**	
Purging time	**Temp (°C)**	**Pressure (mmHg)**	**Dissolved Oxygen (mg/L)**	**Conductivity (µs/cm)**	**ORP (mV)**	**pH (pH Units)**	**Duplicate 3**
01:00	14.5	752.5	11.2	440.7	158.8	7.59	
02:00	14.6	752.5	6.95	441.5	127.8	9.86	
03:00	14.7	752.6	6.87	441.3	120.0	9.91	
04:00	14.9	752.5	6.78	443.2	118.7	9.96	

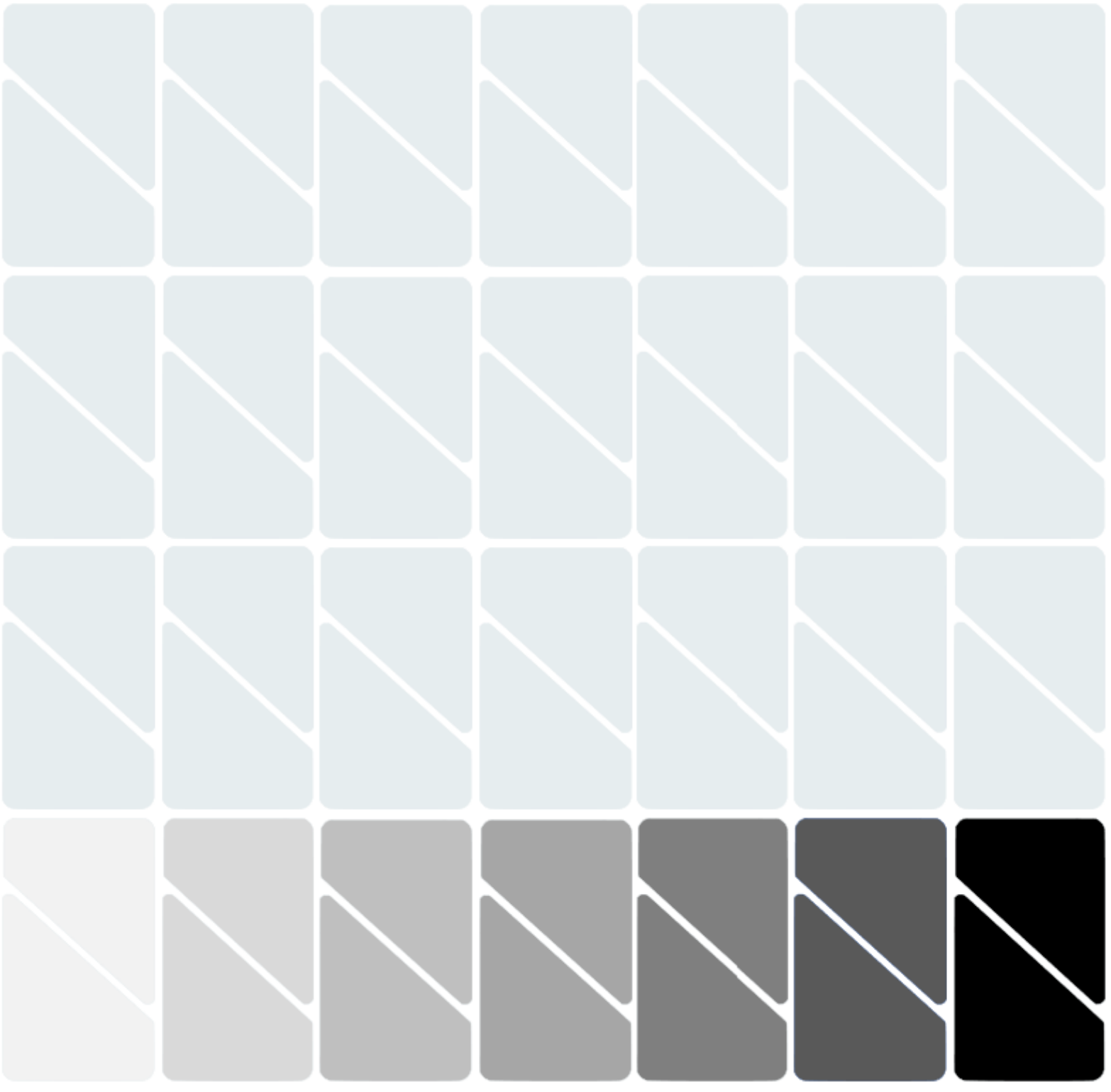
D3							
Water Level (m)	**Well Depth (m)**	**Water Column (m)**	**Free Phase**	**Sampling Depth (m**	**Start sampling**	**13:00**	**Comments**
43.73	47.6	3.87	No	**46.5**	**End sampling**	**13:40**	
Purging time	**Temp (°C)**	**Pressure (mmHg)**	**Dissolved Oxygen (mg/L)**	**Conductivity (µs/cm)**	**ORP (mV)**	**pH (pH Units)**	
01:00	15.5	753.2	6.98	467.4	48.3	9.28	-
02:00	16.1	753.1	4.59	421.6	10.9	9.63	
03:00	16.4	753.1	4.48	436.5	4.3	9.76	
04:00	16.9	753.1	4.41	441.2	1.0	9.89	

D4							
Water Level (m)	**Well Depth (m)**	**Water Column (m)**	**Free Phase**	**Sampling Depth (m**	**Start sampling**	**14:00**	**Comments**
41.83	43.7	1.87	No	**43**	**End sampling**	**14:40**	
Purging time	**Temp (°C)**	**Pressure (mmHg)**	**Dissolved Oxygen (mg/L)**	**Conductivity (µs/cm)**	**ORP (mV)**	**pH (pH Units)**	
01:00	15.5	754.1	8.33	257.2	61.4	8.63	-
02:00	15.7	754.2	4.85	253.1	23	10.1	
03:00	15.8	754.1	4.75	253.9	20.2	10.15	
04:00	15.9	754.1	4.70	253.6	18.3	10.2	

A2 Site Investigation

A2 Site Investigation Limited
100 Westminster Bridge Rd
London, SE1 7XA

020 7021 0396
contact@a2-si.com
www.a2-si.com



Appendix D: ALS PFAS Specification

ALS ENVIRONMENTAL

right solutions.
right partner.

PFAS 50 & EU Directive 20 - Broad Suite

To ensure that ALS continue to offer industry leading PFAS analytical suites ALS Environmental have been busy developing a new extended PFAS suite offering both the PFAS-50 and European Union (EU) Drinking Water Directive 20 PFAS compounds. We are pleased to announce that the validation work has been completed, and we will now be offering full accreditation for both surface waters and groundwaters on this new method (TM434). To allow us to improve analytical performance across all methods we are making some small adjustments to the suites on offer to help standardise our approach and make it easier for our clients to select the most appropriate PFAS compounds.

PFAS Broad Suite Information

The new PFAS Broad Suite will include a comprehensive offering of over 50 PFAS compounds (Table 1) with full accreditation on Groundwaters and Surface Waters. This will replace all previous extended suites which may have included PFAS compounds outside of the routine PFAS Standard Suite (which is summarized in Table 2). These tables include all new detection limit and accreditation information. Any current quotations which include the previous PFAS Extended options will be re-issued in due course.

To note that a new PFAS specific digitube will be used to analyse any samples processed under the new method (TM434) which offers the benefits of a direct extraction to improve analytical recovery of PFAS and reduces single-use plastic consumption. Whilst we transition all methods to the new containers, ALS will ensure that both a 330ml bottle (ALE 503) and x2 digitubes are provided to ultimately phase out the larger 330ml containers.

References

[1] Drinking Water Inspectorate. DWI Information Letter 05/2021 Requirements for Poly and Perfluorinated Alkyl Substances (PFAS) monitoring by water companies in England and Wales.

[2] European Union (EU) 2020/2184 of the European Parliament and of the Council of 16 December 2020 on the quality of water intended for human consumption (recast) (Text with EEA relevance).

Note: The detection limits below are subject to change.

right solutions.
right partner.

Table 1: PFAS Broad Suite Analytical Information

New PFAS Broad Suite	CAS No.	LoD (ng/l)	Accreditation	Method Code	Holding time
PFBA	375-22-4	<2	GW, SW	TM434	14
PFPA	2706-90-3	<1	GW, SW	TM434	14
PFHxA	307-24-4	<1	GW, SW	TM434	14
PFHpA	375-85-9	<1	GW, SW	TM434	14
PFOA	335-67-1	<0.65	GW, SW	TM434	14
PFNA	375-95-1	<1	GW, SW	TM434	14
PFDA	335-76-2	<1	GW, SW	TM434	14
PFUnA	2058-94-8	<2	GW, SW	TM434	14
PFDoA	307-55-1	<1	GW, SW	TM434	14
PFTrDA	72629-94-8	<3	GW, SW	TM434	14
PFTeA	376-06-7	<1	GW, SW	TM434	14
PFHxDA	67905-19-5	<1	GW, SW	TM434	14
PFODA	16517-11-6	<1	GW, SW	TM434	14
PFBS	375-73-5	<1	GW, SW	TM434	14
PFPeS	2706-91-4	<1	GW, SW	TM434	14
PFHxS	355-46-4	<1	GW, SW	TM434	14
PFHpS	375-92-8	<1	GW, SW	TM434	14
Linear PFOS	1763-23-1	<0.65	GW, SW	TM434	14
Branched PFOS	N/A	<0.65	GW, SW	TM434	14
Total PFOS	N/A	<0.65	GW, SW	TM434	14
PFNS	68259-12-1	<1	GW, SW	TM434	14
PFDS	335-77-3	<2	GW, SW	TM434	14
PFUnDS	749786-16-1	<2	GW, SW	TM434	14
PFDoS	79780-39-5	<2	GW, SW	TM434	14
PFTrDS	174675-49-1	<1	GW, SW	TM434	14
HFPO-DA (GenX chemicals)	13252-13-6	<2	GW, SW	TM434	14
HFPO-TA	13252-14-7	<5	GW, SW	TM434	14
ADONA	919005-14-4	<1	GW, SW	TM434	14
PFMOPrA	377-73-1	<1	GW, SW	TM434	14
NFDHA	151772-58-6	<3	GW, SW	TM434	14
PFMOBA	863090-89-5	<1	GW, SW	TM434	14
PFecHS	133201-07-7	<1	GW, SW	TM434	14
3:3 FTCA	356-02-5	<2	GW, SW	TM434	14
5:3 FTCA	914637-49-3	<5	GW, SW	TM434	14
7:3 FTCA	812-70-4	<5	GW, SW	TM434	14
PFEESA	113507-82-7	<1	GW, SW	TM434	14
9Cl-PF3ONS (F-53B Major)	756426-58-1	<1	GW, SW	TM434	14
11Cl-PF3OUdS (F-53B Minor)	763051-92-9	<2	GW, SW	TM434	14

GW – Groundwater, SW – Surface Water

right solutions.
right partner.

Table 1: New PFAS Broad Suite; Accredited for Groundwaters, Surface Waters (continued)

New PFAS Broad Suite	CAS No.	LoD (ng/l)	Accreditation	Method Code	Holding time
4:2 FTS	757124-72-4	<1	GW, SW	TM434	14
6:2 FTS	27619-97-2	<1	GW, SW	TM434	14
8:2 FTS	39108-34-4	<2	GW, SW	TM434	14
FBSA	30334-69-1	<1	GW, SW	TM434	14
FHxSA	41997-13-1	<1	GW, SW	TM434	14
PFOSA	754-91-6	<2	GW, SW	TM434	14
N-MeFOSA	31506-32-8	<1	GW, SW	TM434	14
N-EtFOSA	4151-50-2	<1	GW, SW	TM434	14
MeFOSE	24448-09-7	<10	GW, SW	TM434	14
EtFOSE	1691-99-2	<10	GW, SW	TM434	14
MeFOSAA	2355-31-9	<2	GW, SW	TM434	14
EtFOSAA	2991-50-6	<2	GW, SW	TM434	14

GW – Groundwater, SW – Surface Water

Table 2: PFAS Standard Suite Analytical Information

PFAS Standard Suite	CAS No.	LoD (ng/l)	Accreditation	Method Code	Holding time
6:2 FTS	(27619-97-2)	<1	GW, SW, FE	TM337	27
Branched PFOS		<0.65	GW, SW, FE	TM337	27
Linear PFOS		<0.6	GW, SW, FE	TM337	27
PFBA	(375-22-4)	<2	GW, SW, FE	TM337	27
PFBS	(375-73-5)	<1	GW, SW, FE	TM337	27
PFDA	(335-76-2)	<1	GW, SW, FE	TM337	27
PFDoA	(307-55-1)	<1	GW, SW, FE	TM337	27
PFDS	(335-77-3)	<1		TM337	182
PFHpA	(375-85-9)	<1	GW, SW, FE	TM337	27
PFHpS	(375-92-8)	<1	GW, SW, FE	TM337	27
PFHxA	(307-24-4)	<1	GW, SW, FE	TM337	27
PFHxS	(355-46-4)	<1	GW, SW, FE	TM337	27
PFNA	(375-95-1)	<1	GW, SW, FE	TM337	27
PFOA	(335-67-1)	<0.65	GW, SW, FE	TM337	27
PFOSA	(754-91-6)	<2	GW, SW, FE	TM337	27
PFPA	(2706-90-3)	<1	GW, SW, FE	TM337	27
PFPeS	(2706-91-4)	<1	GW, SW, FE	TM337	27
PFUnA	(2058-94-8)	<1	GW, SW, FE	TM337	27
Total PFOS		<0.65	GW, SW, FE	TM337	27

right solutions.
right partner.

We are always happy to help and run through any PFAS related queries you may have. A designated PFAS technical team can be contacted on the details below to discuss these options or any other PFAS-related sampling or technical queries you may have

For further information please contact:

PFAS Technical Support
e: pfas.hawarden@alsglobal.com

Client Services
e: hawardencustomerservices@alsglobal.com

Appendix E: Duplicate RPD Comparison

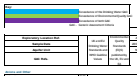
		Sample Concentration		
Contaminant	Units	Dup1	C4	RPD
PFBA	ng/	18	26.9	39.64365
PFMOPrA	ng/l	<1	<1	-
3:3 FTCA	ng/l	<2	6.86	109.7
PFPA	ng/l	31.5	42.5	29.72973
PFMOBA	ng/l	<1	<1	-
4:2 FTS	ng/l	<1	<1	-
NFDHA	ng/l	<3	<3	-
PFBS	ng/l	7.1	9.63	30.24507
PFHxA	ng/l	19.2	26.9	33.40564
HFPO-DA	ng/l	<2	<2	-
PFEESA	ng/l	<1	<1	-
PFHpA	ng/l	13.7	18.7	30.8642
PFPeS	ng/l	2.17	2.1	3.278689
5:3 FTCA	ng/l	<5	<5	-
ADONA	ng/l	<1	<1	-
6:2 FTS	ng/l	<1	<1	-
FBSA	ng/l	3.78	4.22	11
PFOA	ng/l	10.7	15	33.46304
PFHxS	ng/l	3.28	10.2	102.6706
PFNA	ng/l	1.9	2.96	43.6214
PFecHS	ng/l	<1	<1	-
PFHpS	ng/l	<1	<1	-
8:2 FTS	ng/l	<2	<2	-
HFPO-TA	ng/l	<5	<5	-
PFDA	ng/l	<2	<2	-
MeFOSAA	ng/l	<2	<2	-
7:3 FTCA	ng/l	<5	<5	-
Linear PFOS	ng/l	9.32	5.71	48.03726
Branched PFOS	ng/l	11.7	9.16	24.35283
EtFOSAA	ng/l	<2	<2	-
PFUnA	ng/l	<2	<2	-
9Cl-PF3ONS	ng/l	<1	<1	-
PFNS	ng/l	<1	<1	-
FHxSA	ng/l	<1	<1	-
PFDoA	ng/l	<2	<2	-
PFDS	ng/l	<2	<2	-
PFTrDA	ng/l	<3	<3	-
11Cl-PF3OUdS	ng/l	<2	<2	-
PFUnDS	ng/l	<2	<2	-
PFTeA	ng/l	<1	<1	-
PFOSA	ng/l	<2	<2	-
PFDoS	ng/l	<2	<2	-
PFTrDS	ng/l	<1	<1	-
PFHxDA	ng/l	<1	<1	-
MeFOSE	ng/l	<10	<10	-
N-MeFOSA	ng/l	<1	<1	-
EtFOSE	ng/l	<10	<10	-
PFODA	ng/l	<1	<1	-
N-EtFOSA	ng/l	<1	<1	-
6:2 FTAB	ng/l	<10	<10	-
Total PFOS	ng/l	21	14.9	33.98329
Total PFAS DWI 47	ng/l	132	181	31.3099
Trifluralin	ug/l	<0.01	<0.01	-
alpha-HCH	ug/l	<0.01	<0.01	-
gamma-HCH (Lindane)	ug/l	<0.01	<0.01	-
Heptachlor	ug/l	<0.01	<0.01	-
Aldrin	ug/l	<0.01	<0.01	-
beta-HCH	ug/l	<0.01	<0.01	-
Isodrin	ug/l	<0.01	<0.01	-
delta-HCH	ug/l	<0.01	<0.01	-
Heptachlor epoxide	ug/l	<0.01	<0.01	-
o,p'-DDE	ug/l	<0.01	<0.01	-
Endosulphan I	ug/l	<0.01	<0.01	-
trans-Chlordane	ug/l	<0.01	<0.01	-
cis-Chlordane	ug/l	<0.01	<0.01	-
p,p'-DDE	ug/l	<0.01	<0.01	-
Dieldrin	ug/l	<0.01	<0.01	-
o,p'-DDD (TDE)	ug/l	<0.01	<0.01	-
Endrin	ug/l	<2	<2	-
o,p'-DDT	ug/l	<0.01	<0.01	-
p,p'-DDD (TDE)	ug/l	<0.01	<0.01	-
Endosulphan II	ug/l	<0.02	<0.02	-
o,p'-Methoxychlor	ug/l	<2	<2	-
p,p'-Methoxychlor	ug/l	<2	<2	-
Endosulphan Sulphate	ug/l	<0.02	<0.02	-
Permethrin I	ug/l	<0.01	<0.01	-
Permethrin II	ug/l	<0.01	<0.01	-
Nitrogen, Total	mg/l	11.4	12.2	6.779661
Naphthalene	ug/l	<0.01	<0.01	-
Acenaphthene	ug/l	<0.005	<0.005	-
Acenaphthylene	ug/l	<0.005	<0.005	-
Fluoranthene	ug/l	<0.005	<0.005	-
Anthracene	ug/l	<0.005	<0.005	-
Phenanthrene	ug/l	<0.005	<0.005	-
Fluorene	ug/l	<0.005	<0.005	-
Chrysene	ug/l	<0.005	<0.005	-
Pyrene	ug/l	<0.005	<0.005	-
Benzo(a)anthracene	ug/l	<0.005	<0.005	-
Benzo(b)fluoranthene	ug/l	<0.005	<0.005	-
Benzo(k)fluoranthene	ug/l	<0.005	<0.005	-
Benzo(a)pyrene	ug/l	<0.002	<0.002	-
Dibenzo(a,h)anthracene	ug/l	<0.005	<0.005	-
Benzo(g,h,i)perylene	ug/l	<0.005	<0.005	-
Indeno(1,2,3-cd)pyrene	ug/l	<0.005	<0.005	-
PAH, Total Detected USEPA 16	ug/l	<0.082	<0.082	-
1,2,4-Trichlorobenzene	ug/l	<1	<1	-
1,2-Dichlorobenzene	ug/l	<1	<1	-
1,3-Dichlorobenzene	ug/l	<1	<1	-
1,4-Dichlorobenzene	ug/l	<1	<1	-
2,4,5-Trichlorophenol	ug/l	<1	<1	-
2,4,6-Trichlorophenol	ug/l	<1	<1	-
2,4-Dichlorophenol	ug/l	<1	<1	-
2,4-Dimethylphenol	ug/l	<1	<1	-
2,4-Dinitrotoluene	ug/l	<1	<1	-
2,6-Dinitrotoluene	ug/l	<1	<1	-
2-Chloronaphthalene	ug/l	<1	<1	-
2-Chlorophenol	ug/l	<1	<1	-
2-Methylnaphthalene	ug/l	<1	<1	-
2-Methylphenol	ug/l	<1	<1	-
2-Nitroaniline	ug/l	<1	<1	-
2-Nitrophenol	ug/l	<1	<1	-
3-Nitroaniline	ug/l	<1	<1	-
4-Bromophenylphenylether	ug/l	<1	<1	-
4-Chloro-3-methylphenol	ug/l	<1	<1	-
4-Chloroaniline	ug/l	<1	<1	-
4-Chlorophenylphenylether	ug/l	<1	<1	-
4-Methylphenol	ug/l	<1	<1	-
4-Nitroaniline	ug/l	<1	<1	-
4-Nitrophenol	ug/l	<1	<1	-
Azobenzene	ug/l	<1	<1	-
Acenaphthylene	ug/l	<1	<1	-
Acenaphthene	ug/l	<1	<1	-
Anthracene	ug/l	<1	<1	-
bis(2-Chloroethyl)ether	ug/l	<1	<1	-
bis(2-Chloroethoxy)methane	ug/l	<1	<1	-
bis(2-Ethylhexyl) phthalate	ug/l	<2	<2	-
Butylbenzyl phthalate	ug/l	<1	<1	-
Benzo(a)anthracene	ug/l	<1	<1	-
Benzo(b)fluoranthene	ug/l	<1	<1	-
Benzo(k)fluoranthene	ug/l	<1	<1	-
Benzo(a)pyrene	ug/l	<1	<1	-
Benzo(g,h,i)perylene	ug/l	<1	<1	-
Carbazole	ug/l	<1	<1	-
Chrysene	ug/l	<1	<1	-
Dibenzofuran	ug/l	<1	<1	-
n-Dibutyl phthalate	ug/l	<1	<1	-
Diethyl phthalate	ug/l	<1	<1	-
Dibenzo(a,h)anthracene	ug/l	<1	<1	-
Dimethyl phthalate	ug/l	<1	<1	-
n-Dioctyl phthalate	ug/l	<5	<5	-
Fluoranthene	ug/l	<1	<1	-
Fluorene	ug/l	<1	<1	-
Hexachlorobenzene	ug/l	<1	<1	-
Hexachlorobutadiene	ug/l	<1	<1	-
Pentachlorophenol	ug/l	<1	<1	-
Phenol	ug/l	<1	<1	-
n-Nitroso-n-dipropylamine	ug/l	<1	<1	-
Hexachloroethane	ug/l	<1	<1	-
Nitrobenzene	ug/l	<1	<1	-
Naphthalene	ug/l	<1	<1	-
Isophorone	ug/l	<1	<1	-
Hexachlorocyclopentadiene	ug/l	<1	<1	-
Phenanthrene	ug/l	<1	<1	-
Indeno(1,2,3-cd)pyrene	ug/l	<1	<1	-
Pyrene	ug/l	<1	<1	-
GRO Surrogate % recovery**	ug/l	95	90	5.405405
Aliphatics >C5-C6	ug/l	<10	<10	-
Aliphatics >C6-C8	ug/l	<10	<10	-
Aliphatics >C8-C10	ug/l	<10	<10	-
Aliphatics >C10-C12	ug/l	<10	<10	-
Aromatics >EC5-EC7	ug/l	<10	<10	-
Aromatics >EC7-EC8	ug/l	<10	<10	-
Aromatics >EC8-EC10	ug/l	<10	<10	-
Aromatics >EC10-EC12	ug/l	<10	<10	-
GRO >C5-C12	ug/l	<50	<50	-
Methyl tertiary butyl ether (MTBE)	ug/l	<1	<1	-
Benzene	ug/l	<1	<1	-
Toluene	ug/l	<1	<1	-
Ethylbenzene	ug/l	<1	<1	-
m,p-Xylene	ug/l	<1	<1	-
o-Xylene	ug/l	<1	<1	-
Sum of detected Xylenes	ug/l	<2	<2	-
Sum of BTEX	ug/l	<5	<5	-
Aliphatics >C12-C16	ug/l	<10	<10	-
Aliphatics >C16-C21	ug/l	<10	<10	-
Aliphatics >C21-C35	ug/l	<10	<10	-
Total Aliphatics >C12-C35	ug/l	<10	<10	-
Aromatics >EC12-EC16	ug/l	<10	<10	-
Aromatics >EC16-EC21	ug/l	<10	<10	-
Aromatics >EC21-EC35	ug/l	<10	<10	-
Total Aromatics >EC12-EC35	ug/l	<10	<10	-
Total Aliphatics & Aromatics >C5-35	ug/l	<10	<10	-
Mercury	ug/l	<0.01	<0.01	-
Arsenic	ug/l	<0.5	<0.5	-
Barium	ug/l	49.3	52.1	5.522682
Beryllium	ug/l	<0.1	<0.1	-
Boron	ug/l	18.9	23.9	23.36449
Cadmium	ug/l	<0.08	<0.08	-
Chromium	ug/l	<1	<1	-
Copper	ug/l	0.73	1.73	81.30081
Lead	ug/l	<0.2	<0.2	-
Molybdenum	ug/l	<3	<3	-
Nickel	ug/l	1.18	1.1	7.017544
Selenium	ug/l	<1	1.04	3.9
Vanadium	ug/l	<1	<1	-
Zinc	ug/l	7.43	18.3	84.49281
BOD, unfiltered	mg/l	<1	<1	-
Chromium, Hexavalent	ug/l	<0.03	<0.03	-
Chromium, Trivalent	ug/l	<0.03	<0.03	-
Phosphate (Ortho as P)	mg/l	0.0392	0.0496	23.42342
Carbon, Organic	mg/l	<3	3.53	16.2
Sulphate	mg/l	35.1	47	28.98904
Chloride	mg/l	26.8	14.2	61.46341
Nitrate as NO3	mg/l	44.4	48	7.792208
Nitrite as NO2	mg/l	<0.05	<0.05	-
pH	pH unit	7.32	7.34	0.272851
Organic Carbon, Total	mg/l	<3	5.03	50.6
Ammoniacal Nitrogen as N	mg/l	<0.2	<0.2	-
Suspended solids, Total	mg/l	<2	<2	-
Hardness, Total as CaCO3 unfiltered	mg/l	299	271	9.824561

		Sample Concentration		
Contaminant	Units	Dup 2	C3	RPD
PFBA	ng/	<20	<20	-
PFMOPrA	ng/l	<10	<10	-
3:3 FTCA	ng/l	<20	<20	-
PFPA	ng/l	11.8	12	1.680672
PFMOBA	ng/l	<10	<10	-
4:2 FTS	ng/l	<10	<10	-
NFDHA	ng/l	<30	<30	-
PFBS	ng/l	<10	<10	-
PFHxA	ng/l	<10	<10	-
HFPO-DA	ng/l	<20	<20	-
PFEESA	ng/l	<10	<10	-
PFHpA	ng/l	<10	<10	-
PFPeS	ng/l	<10	<10	-
5:3 FTCA	ng/l	<50	<50	-
ADONA	ng/l	<10	<10	-
6:2 FTS	ng/l	<10	<10	-
FBSA	ng/l	<10	<10	-
PFOA	ng/l	7	8.67	21.31461
PFHxS	ng/l	<10	13.4	29
PFNA	ng/l	<10	<10	-
PFecHS	ng/l	<10	<10	-
PFHpS	ng/l	<10	<10	-
8:2 FTS	ng/l	<20	<20	-
HFPO-TA	ng/l	<50	<50	-
PFDA	ng/l	<20	<20	-
MeFOSAA	ng/l	<20	<20	-
7:3 FTCA	ng/l	<50	<50	-
Linear PFOS	ng/l	18.6	17.3	7.24234
Branched PFOS	ng/l	14.6	9.04	47.03892
EtFOSAA	ng/l	<20	<20	-
PFUnA	ng/l	<20	<20	-
9Cl-PF3ONS	ng/l	<10	<10	-
PFNS	ng/l	<10	<10	-
FHxSA	ng/l	<10	<10	-
PFDoA	ng/l	<20	<20	-
PFDS	ng/l	<20	<20	-
PFTrDA	ng/l	<30	<30	-
11Cl-PF3OUdS	ng/l	<20	<20	-
PFUnDS	ng/l	<20	<20	-
PFTeA	ng/l	<10	<10	-
PFOSA	ng/l	<20	<20	-
PFDoS	ng/l	<20	<20	-
PFTrDS	ng/l	<10	<10	-
PFHxDA	ng/l	<10	<10	-
MeFOSE	ng/l	<100	<100	-
N-MeFOSA	ng/l	<10	<10	-
EtFOSE	ng/l	<100	<100	-
PFODA	ng/l	<10	<10	-
N-EtFOSA	ng/l	<10	<10	-
6:2 FTAB	ng/l	<100	<100	-
Total PFOS	ng/l	33.2	26.4	22.81879
Total PFAS DWI 47	ng/l	<900	<900	-
Trifluralin	ug/l	<0.1	<0.05	-
alpha-HCH	ug/l	<0.1	<0.05	-
gamma-HCH (Lindane)	ug/l	<0.1	<0.05	-
Heptachlor	ug/l	<0.1	<0.05	-
Aldrin	ug/l	<0.1	<0.05	-
beta-HCH	ug/l	<0.1	<0.05	-
Isodrin	ug/l	<0.1	<0.05	-
delta-HCH	ug/l	<0.1	<0.05	-
Heptachlor epoxide	ug/l	<0.1	<0.05	-
o,p'-DDE	ug/l	<0.1	<0.05	-
Endosulphan I	ug/l	<0.1	<0.05	-
trans-Chlordane	ug/l	<0.1	<0.05	-
cis-Chlordane	ug/l	<0.1	<0.05	-
p,p'-DDE	ug/l	<0.1	<0.05	-
Dieldrin	ug/l	<0.1	<0.05	-
o,p'-DDD (TDE)	ug/l	<0.1	<0.05	-
Endrin	ug/l	<2	<2	-
o,p'-DDT	ug/l	<0.1	<0.05	-
p,p'-DDD (TDE)	ug/l	<0.1	<0.05	-
Endosulphan II	ug/l	<0.2	<0.1	-
p,p'-DDT	ug/l	<2	Unable to analyse	-
o,p'-Methoxychlor	ug/l	<2	<2	-
p,p'-Methoxychlor	ug/l	<2	<2	-
Endosulphan Sulphate	ug/l	<0.2	<0.1	-
Permethrin I	ug/l	<0.1	<0.05	-
Permethrin II	ug/l	<0.1	<0.05	-
Nitrogen, Total	mg/l	16.2	16.6	2.439024
Naphthalene	ug/l	<0.1	<0.01	-
Acenaphthene	ug/l	<0.05	<0.005	-
Acenaphthylene	ug/l	<0.05	<0.005	-
Fluoranthene	ug/l	<0.05	<0.005	-
Anthracene	ug/l	<0.05	<0.005	-
Phenanthrene	ug/l	<0.05	<0.005	-
Fluorene	ug/l	<0.05	<0.005	-
Chrysene	ug/l	<0.05	<0.005	-
Pyrene	ug/l	<0.05	<0.005	-
Benzo(a)anthracene	ug/l	<0.05	<0.005	-
Benzo(b)fluoranthene	ug/l	<0.05	<0.005	-
Benzo(k)fluoranthene	ug/l	<0.05	<0.005	-
Benzo(a)pyrene	ug/l	<0.02	<0.002	-
Dibenzo(a,h)anthracene	ug/l	<0.05	<0.005	-
Benzo(g,h,i)perylene	ug/l	<0.05	<0.005	-
Indeno(1,2,3-cd)pyrene	ug/l	<0.05	<0.005	-
PAH, Total Detected USEPA 16	ug/l	<0.82	<0.082	-
1,2,4-Trichlorobenzene	ug/l	<8	<8	-
1,2-Dichlorobenzene	ug/l	<8	<8	-
1,3-Dichlorobenzene	ug/l	<8	<8	-
1,4-Dichlorobenzene	ug/l	<8	<8	-
2,4,5-Trichlorophenol	ug/l	<8	<8	-
2,4,6-Trichlorophenol	ug/l	<8	<8	-
2,4-Dichlorophenol	ug/l	<8	<8	-
2,4-Dimethylphenol	ug/l	<8	<8	-
2,4-Dinitrotoluene	ug/l	<8	<8	-
2,6-Dinitrotoluene	ug/l	<8	<8	-
2-Chloronaphthalene	ug/l	<8	<8	-
2-Chlorophenol	ug/l	<8	<8	-
2-Methylnaphthalene	ug/l	<8	<8	-
2-Methylphenol	ug/l	<8	<8	-
2-Nitroaniline	ug/l	<8	<8	-
2-Nitrophenol	ug/l	<8	<8	-
3-Nitroaniline	ug/l	<8	<8	-
4-Bromophenylphenylether	ug/l	<8	<8	-
4-Chloro-3-methylphenol	ug/l	<8	<8	-
4-Chloroaniline	ug/l	<8	<8	-
4-Chlorophenylphenylether	ug/l	<8	<8	-
4-Methylphenol	ug/l	<8	<8	-
4-Nitroaniline	ug/l	<8	<8	-
4-Nitrophenol	ug/l	<8	<8	-
Azobenzene	ug/l	<8	<8	-
Acenaphthylene	ug/l	<8	<8	-
Acenaphthene	ug/l	<8	<8	-
Anthracene	ug/l	<8	<8	-
bis(2-Chloroethyl)ether	ug/l	<8	<8	-
bis(2-Chloroethoxy)methane	ug/l	<8	<8	-
bis(2-Ethylhexyl) phthalate	ug/l	<16	<16	-
Butylbenzyl phthalate	ug/l	<8	<8	-
Benzo(a)anthracene	ug/l	<8	<8	-
Benzo(b)fluoranthene	ug/l	<8	<8	-
Benzo(k)fluoranthene	ug/l	<8	<8	-
Benzo(a)pyrene	ug/l	<8	<8	-
Benzo(g,h,i)perylene	ug/l	<8	<8	-
Carbazole	ug/l	<8	<8	-
Chrysene	ug/l	<8	<8	-
Dibenzofuran	ug/l	<8	<8	-
n-Dibutyl phthalate	ug/l	<8	<8	-
Diethyl phthalate	ug/l	<8	<8	-
Dibenzo(a,h)anthracene	ug/l	<8	<8	-
Dimethyl phthalate	ug/l	<8	<8	-
n-Dioctyl phthalate	ug/l	<40	<40	-
Fluoranthene	ug/l	<8	<8	-
Fluorene	ug/l	<8	<8	-
Hexachlorobenzene	ug/l	<8	<8	-
Hexachlorobutadiene	ug/l	<8	<8	-
Pentachlorophenol	ug/l	<8	<8	-
Phenol	ug/l	<8	<8	-
n-Nitroso-n-dipropylamine	ug/l	<8	<8	-
Hexachloroethane	ug/l	<8	<8	-
Nitrobenzene	ug/l	<8	<8	-
Naphthalene	ug/l	<8	<8	-
Isophorone	ug/l	<8	<8	-
Hexachlorocyclopentadiene	ug/l	<8	<8	-
Phenanthrene	ug/l	<8	<8	-
Indeno(1,2,3-cd)pyrene	ug/l	<8	<8	-
Pyrene	ug/l	<8	<8	-
GRO Surrogate % recovery**	ug/l	95	90	5.405405
Aliphatics >C5-C6	ug/l	<10	<10	-
Aliphatics >C6-C8	ug/l	<10	<10	-
Aliphatics >C8-C10	ug/l	<10	<10	-
Aliphatics >C10-C12	ug/l	<10	<10	-
Aromatics >EC5-EC7	ug/l	<10	<10	-
Aromatics >EC7-EC8	ug/l	<10	<10	-
Aromatics >EC8-EC10	ug/l	<10	<10	-
Aromatics >EC10-EC12	ug/l	<10	<10	-
GRO >C5-C12	ug/l	<50	<50	-
Methyl tertiary butyl ether (MTBE)	ug/l	<1	<1	-
Benzene	ug/l	<1	<1	-
Toluene	ug/l	<1	<1	-
Ethylbenzene	ug/l	<1	<1	-
m,p-Xylene	ug/l	<1	<1	-
o-Xylene	ug/l	<1	<1	-
Sum of detected Xylenes	ug/l	<2	<2	-
Sum of BTEX	ug/l	<5	<5	-
Aliphatics >C12-C16	ug/l	<10	<10	-
Aliphatics >C16-C21	ug/l	<10	<10	-
Aliphatics >C21-C35	ug/l	<10	<10	-
Total Aliphatics >C12-C35	ug/l	<10	<10	-
Aromatics >EC12-EC16	ug/l	<10	<10	-
Aromatics >EC16-EC21	ug/l	<10	<10	-
Aromatics >EC21-EC35	ug/l	82.2	29.1	95.41779
Total Aromatics >EC12-EC35	ug/l	82.2	29.1	95.41779
Total Aliphatics & Aromatics >C5-35	ug/l	82.2	29.1	95.41779
Mercury	ug/l	<0.01	<0.01	-
Arsenic	ug/l	<0.5	<0.5	-
Barium	ug/l	42.5	41.6	2.140309
Beryllium	ug/l	<0.1	<0.1	-
Boron	ug/l	<10	13.2	27.6
Cadmium	ug/l	<0.08	<0.08	-
Chromium	ug/l	3.72	3.69	0.809717
Copper	ug/l	0.366	0.413	12.06675
Lead	ug/l	<0.2	0.484	83
Molybdenum	ug/l	<3	<3	-
Nickel	ug/l	<0.4	0.876	74.6
Selenium	ug/l	<1	1.02	2
Vanadium	ug/l	<1	<1	-
Zinc	ug/l	2.85	1.86	42.03822
BOD, unfiltered	ug/l	<10	2.99	107.9
Chromium, Hexavalent	ug/l	<0.03	<0.03	-
Chromium, Trivalent	ug/l	<0.03	<0.03	-
Phosphate (Ortho as P)	mg/l	0.0343	0.0235	37.37024
Carbon, Organic	mg/l	<3	<3	-
Sulphate	mg/l	27.4	26.8	2.214022
Chloride	mg/l	26.1	25.8	1.156069
Nitrate as NO3	mg/l	62.2	63.4	1.910828
Nitrite as NO2	mg/l	0.134	0.156	15.17241
pH	pHunit	7.32	7.43	1.491525
Organic Carbon, Total	mg/l	<3	11.5	117.2
Ammoniacal Nitrogen as N	mg/l	<0.2	<0.2	-
Suspended solids, Total	mg/l	1340	672	66.40159
Hardness, Total as CaCO3 unfiltered	mg/l	1620	894	57.75656

		Sample Concentration		
Contaminant	Units	Dup 3	D2	RPD
Ammoniacal Nitrogen as N	mg/l	<1	<1	-
m,p-Xylene	ug/l	<1	<1	-
Methyl tertiary butyl ether (MTBE)	ug/l	<1	<1	-
o-Xylene	ug/l	<1	<1	-
Sum of BTEX	ug/l	<5	<5	-
Sum of detected Xylenes	ug/l	<2	<2	-
Toluene	ug/l	<1	<1	-
Benzene	ug/l	<1	<1	-
Ethylbenzene	ug/l	<1	<1	-
Suspended solids, Total	mg/l	4.6	3180	199.4222
Organic Carbon, Total	mg/l	<3	<3	-
1,2,4-Trichlorobenzene	ug/l	<2	<200	-
1,2-Dichlorobenzene	ug/l	<2	<200	-
1,3-Dichlorobenzene	ug/l	<2	<200	-
1,4-Dichlorobenzene	ug/l	<2	<200	-
2,4,5-Trichlorophenol	ug/l	<2	<200	-
2,4,6-Trichlorophenol	ug/l	<2	<200	-
2,4-Dichlorophenol	ug/l	<2	<200	-
2,4-Dimethylphenol	ug/l	<2	<200	-
2,4-Dinitrotoluene	ug/l	<2	<200	-
2,6-Dinitrotoluene	ug/l	<2	<200	-
2-Chloronaphthalene	ug/l	<2	<200	-
2-Chlorophenol	ug/l	<2	<200	-
2-Methylnaphthalene	ug/l	<2	<200	-
2-Methylphenol	ug/l	<2	<200	-
2-Nitroaniline	ug/l	<2	<200	-
2-Nitrophenol	ug/l	<2	<200	-
3-Nitroaniline	ug/l	<2	<200	-
4-Bromophenylphenylether	ug/l	<2	<200	-
4-Chloro-3-methylphenol	ug/l	<2	<200	-
4-Chloroaniline	ug/l	<2	<200	-
4-Chlorophenylphenylether	ug/l	<2	<200	-
4-Methylphenol	ug/l	<2	<200	-
4-Nitroaniline	ug/l	<2	<200	-
4-Nitrophenol	ug/l	<2	<200	-
Acenaphthene	ug/l	<2	<200	-
Acenaphthylene	ug/l	<2	<200	-
Anthracene	ug/l	<2	<200	-
Azobenzene	ug/l	<2	<200	-
Benzo(a)anthracene	ug/l	<2	<200	-
Benzo(a)pyrene	ug/l	<2	<200	-
Benzo(b)fluoranthene	ug/l	<2	<200	-
Benzo(g,h,i)perylene	ug/l	<2	<200	-
Benzo(k)fluoranthene	ug/l	<2	<200	-
bis(2-Chloroethoxy)methane	ug/l	<2	<200	-
bis(2-Chloroethyl)ether	ug/l	<2	<200	-
bis(2-Ethylhexyl) phthalate	ug/l	<4	<400	-
Butylbenzyl phthalate	ug/l	<2	<200	-
Carbazole	ug/l	<2	<200	-
Chrysene	ug/l	<2	<200	-
Dibenzo(a,h)anthracene	ug/l	<2	<200	-
Dibenzofuran	ug/l	<2	<200	-
Diethyl phthalate	ug/l	<2	<200	-
Dimethyl phthalate	ug/l	<2	<200	-
Fluoranthene	ug/l	<2	<200	-
Fluorene	ug/l	<2	<200	-
Hexachlorobenzene	ug/l	<2	<200	-
Hexachlorobutadiene	ug/l	<2	<200	-
Hexachlorocyclopentadiene	ug/l	<2	<200	-
Hexachloroethane	ug/l	<2	<200	-
Indeno(1,2,3-cd)pyrene	ug/l	<2	<200	-
Isophorone	ug/l	<2	<200	-
Naphthalene	ug/l	<2	<200	-
n-Dibutyl phthalate	ug/l	<2	<200	-
n-Dioctyl phthalate	ug/l	<10	<1000	-
Nitrobenzene	ug/l	<2	<200	-
n-Nitroso-n-dipropylamine	ug/l	<2	<200	-
Pentachlorophenol	ug/l	<2	<200	-
Phenanthrene	ug/l	<2	<200	-
Phenol	ug/l	<2	<200	-
Pyrene	ug/l	<2	<200	-
pH	pH unit	7.45	7.44	0.134318
Phosphate (Ortho as P)	mg/l	0.0235	<0.02	16.1
4:2 FTS	ng/l	<10	<10	-
5:3 FTCA	ng/l	<50	<50	-
6:2 FTAB	ng/l	<100	<100	-
6:2 FTS	ng/l	<10	<10	-
9Cl-PF3ONS	ng/l	<10	<10	-
ADONA	ng/l	<10	<10	-
Branched PFOS	ng/l	<6.5	<6.5	-
EtFOSAA	ng/l	<20	<20	-
11Cl-PF3OUdS	ng/l	<20	<20	-
3:3 FTCA	ng/l	<50	<50	-
FHxSA	ng/l	<10	<10	-
HFPO-DA	ng/l	<20	<20	-
HFPO-TA	ng/l	<50	<50	-
Linear PFOS	ng/l	<6.5	<6.5	-
7:3 FTCA	ng/l	<50	<50	-
8:2 FTS	ng/l	<20	<20	-
N-EtFOSA	ng/l	<10	<10	-
NFDHA	ng/l	<30	<30	-
N-MeFOSA	ng/l	<10	<10	-
PFBA	ng/l	<20	<20	-
EtFOSE	ng/l	<100	<100	-
FBSA	ng/l	<10	<10	-
PFDoA	ng/l	<20	<20	-
PFDoS	ng/l	<20	<20	-
PFDS	ng/l	<20	<20	-
PFecHS	ng/l	<10	<10	-
MeFOSAA	ng/l	<20	<20	-
MeFOSE	ng/l	<100	<100	-
PFHpS	ng/l	<10	<10	-
PFHxA	ng/l	<10	<10	-
PFHxDA	ng/l	<10	<10	-
PFHxS	ng/l	<10	<10	-
PFBS	ng/l	<10	<10	-
PFDA	ng/l	<20	<20	-
PFNA	ng/l	<10	<10	-
PFNS	ng/l	<10	<10	-
PFOA	ng/l	<6.5	32.9	134
PFODA	ng/l	<10	<10	-
PFEESA	ng/l	<10	<10	-
PFHpA	ng/l	<10	<10	-
PFPeS	ng/l	<10	<10	-
PFTeA	ng/l	<10	<10	-
PFTrDA	ng/l	<30	<30	-
PFTrDS	ng/l	<10	<10	-
PFMOBA	ng/l	<10	<10	-
PFMOPrA	ng/l	<10	<10	-
PFUnA	ng/l	<20	<20	-
PFUnDS	ng/l	<20	<20	-
Total PFAS DWI 47	ng/l	<900	<900	-
Total PFOS	ng/l	<6.5	<6.5	-
PFOSA	ng/l	<20	<20	-
PFPA	ng/l	<10	<10	-
Aldrin	ug/l	<0.1	<0.2	-
alpha-HCH	ug/l	<0.1	<0.2	-
beta-HCH	ug/l	<0.1	<0.2	-
cis-Chlordane	ug/l	<0.1	<0.2	-
delta-HCH	ug/l	<0.1	<0.2	-
Dieldrin	ug/l	<0.1	<0.2	-
Endosulphan I	ug/l	<0.1	<0.2	-
Endosulphan II	ug/l	<0.2	<0.4	-
Endosulphan Sulphate	ug/l	<0.2	<0.4	-
Endrin	ug/l	<2	<0.2	-
gamma-HCH (Lindane)	ug/l	<0.1	<0.2	-
Heptachlor	ug/l	<2	<2	-
Heptachlor epoxide	ug/l	<0.1	<0.2	-
Isodrin	ug/l	<0.1	<0.2	-
o,p'-DDD (TDE)	ug/l	<0.1	<0.2	-
o,p'-DDE	ug/l	<0.1	<0.2	-
o,p'-DDT	ug/l	<2	<2	-
o,p'-Methoxychlor	ug/l	<2	<2	-
p,p'-DDD (TDE)	ug/l	<0.1	<0.2	-
p,p'-DDE	ug/l	<0.1	<0.2	-
p,p'-DDT	ug/l	<2	<2	-
p,p'-Methoxychlor	ug/l	<2	<2	-
Permethrin I	ug/l	<0.1	<0.2	-
Permethrin II	ug/l	<0.1	<0.2	-
trans-Chlordane	ug/l	<0.1	<0.2	-
Trifluralin	ug/l	<0.1	<0.2	-
Acenaphthene	ug/l	<0.05	<0.05	-
Acenaphthylene	ug/l	<0.05	<0.05	-
Anthracene	ug/l	<0.05	<0.05	-
Benzo(b)fluoranthene	ug/l	<0.05	<0.05	-
Benzo(g,h,i)perylene	ug/l	<0.05	<0.05	-
Benzo(k)fluoranthene	ug/l	<0.05	<0.05	-
Chrysene	ug/l	<0.05	<0.05	-
Fluorene	ug/l	<0.05	<0.05	-
Indeno(1,2,3-cd)pyrene	ug/l	<0.05	<0.05	-
Naphthalene	ug/l	<0.1	<0.1	-
PAH, Total Detected USEPA 16	ug/l	<0.82	<0.82	-
Benzo(a)anthracene	ug/l	<0.05	<0.05	-
Benzo(a)pyrene	ug/l	<0.02	<0.02	-
Phenanthrene	ug/l	<0.05	<0.05	-
Pyrene	ug/l	<0.05	<0.05	-
Dibenzo(a,h)anthracene	ug/l	<0.05	<0.05	-
Fluoranthene	ug/l	<0.05	<0.05	-
Nitrite as NO2	mg/l	<0.05	4.02	195.1
Nitrogen, Total	mg/l	3.95	<0.05	195
Chloride	mg/l	11.1	10.6	4.608295
Nitrate as NO3	mg/l	16.7	16	4.281346
Sulphate	mg/l	3.3	2.5	27.58621
Arsenic	ug/l	<0.5	<0.5	0
Barium	ug/l	43.7	43.3	0.91954
Beryllium	ug/l	<0.1	<0.1	-
Boron	ug/l	<10	<10	-
Cadmium	ug/l	<0.08	<0.08	-
Chromium	ug/l	3.49	5.12	37.86295
Copper	ug/l	0.762	1.08	34.52769
Lead	ug/l	<0.2	<0.2	-
Molybdenum	ug/l	<3	<3	-
Nickel	ug/l	<0.4	0.417	4.2
Selenium	ug/l	<1	<1	-
Vanadium	ug/l	<1	<1	-
Zinc	ug/l	10.7	4.68	78.28349
Hardness, Total as CaCO3 unfiltered	mg/l	282	2910	164.6617
Mercury	ug/l	<0.01	<0.01	-
Aliphatics >C6-C8	ug/l	<10	<10	-
Aliphatics >C8-C10	ug/l	<10	<10	-
Aromatics >EC10-EC12	ug/l	<10	<10	-
Aromatics >EC5-EC7	ug/l	<10	<10	-
Aromatics >EC7-EC8	ug/l	<10	<10	-
Aromatics >EC8-EC10	ug/l	<10	<10	-
GRO >C5-C12	ug/l	<50	<50	-
GRO Surrogate % recovery**	ug/l	84	88	4.651163
Aliphatics >C10-C12	ug/l	<10	<10	-
Aliphatics >C5-C6	ug/l	<10	<10	-
Total Aliphatics & Aromatics >C5-35	ug/l	<10	291	186.7
Carbon, Organic	ug/l	4.17	<3	32.6
Aliphatics >C21-C35	ug/l	<50	<10	-
Aromatics >EC12-EC16	ug/l	<50	<10	-
Aromatics >EC16-EC21	ug/l	<50	<10	-
Aromatics >EC21-EC35	ug/l	<50	291	141.3
Total Aliphatics >C12-C35	ug/l	<50	<10	-
Total Aromatics >EC12-EC35	ug/l	<50	291	141.3
Aliphatics >C12-C16	ug/l	<50	<10	-
Aliphatics >C16-C21	ug/l	<50	<10	-
Chromium, Trivalent	ug/l	<0.03	<0.03	-
Chromium, Hexavalent	ug/l	<0.03	<0.03	-
BOD, unfiltered	mg/l	Not tested	<3	-

Appendix F: Wardell Armstrong Data Screen

Controlled Waters Generic Quantitative Screening of Groundwater Data



Human Health Generic Quantitative Screening of Soil Data

Key:	
(yellow)	Exceedance of residential with home grown produce
(green)	Exceedance of POSresi
(blue)	Exceedance of both the GAC
GAC -	Generic Assessment Criteria

Laboratory Report Ref.	Units	Residential with home grown produce	POSresi	GAC Ref.	10509902	10509921	10509932	10509940	10509950	10509961	10509970	10509983	10509990	10509912	10599585	16160472	16160498	16160503	16160517	16160522	16160486	10438857	10438940	10439020	10439042	10439051	10439058	10439065
Exploratory Location Ref.					TP31	TP32	TP33	TP34	TP35	TP36	TP37	TP38	TP39	TP40	CPR05	TP41-ES1	TP42-ES2	TP43-ES1	TP44-ES2	TP45-ES1	TP46-ES2	TP1/1	TP2/1	TP3/1	TP4/1	TP5/1	TP6/1	TP7/1
Sample Depth (m)					0.60 - 0.60	0.10 - 0.30	0.10 - 0.30	0.60 - 0.60	0.10 - 0.30	0.90 -0.90	0.10 - 0.30	1.90 - 1.90	0.10 - 0.30	1.2 - 1.2	0.2	0.10 - 0.20	0.60 - 0.70	0.10 - 0.20	0.50 - 0.60	0.10 - 0.20	0.50 - 0.60	1.00 - 1.00	1.00 - 1.00	1.00 - 1.00	1.50 - 1.50	0.30 - 0.30	1.50 - 1.50	0.30 - 0.30
Sample Date					02/12/2014	02/12/2014	02/12/2014	02/12/2014	02/12/2014	02/12/2014	02/12/2014	02/12/2014	02/12/2014	02/12/2014	25/11/2014	06/09/2017	06/09/2017	06/09/2017	06/09/2017	06/09/2017	06/09/2017	10/11/2014	10/11/2014	10/11/2014	10/11/2014	11/11/2014	10/11/2014	11/11/2014
Made Ground / Natural ?		1% SO GAC			Nat	TS	TS	Nat	TS	Nat	TS	Nat	TS	Nat	MG	TS	TS	TS	Nat	TS	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat
Anions and Other																												
pH	pH unit	-			8.44	8.19	7.01	7.1	8.15	7.91	7.29	7.15	7.15	8.07	7.94	7.22	7.94	7.1	7.8	7.84	7.24	7.89	7.27	8.5	7.75	7.54	7.12	7.34
Chromium, Hexavalent	mg/kg	21	21	DEFRA C4SLs	<0.6	<0.6	<1.2	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6		<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Cyanide, Total	mg/kg	-			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cyanide, Free	mg/kg	34	34	Atkins AtRisk SSV	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1
Sulphur, Total	%	-			-	-	-	<0.02	-	<0.02	-	<0.02	-	<0.02	-	-	-	-	-	-	-				<0.02		<0.02	
Sulphide, Easily liberated	mg/kg	-			-	-	-	-	-	-	-	-	-	-	-	<15	<15	<15	<15	<15	<15	-	-	-	-	-	-	-
Sulphate, Total	mg/kg	-			-	-	-	-	-	-	-	-	-	-	-	429	110	223	152	129	379	-	-	-	-	-	-	-
Water Soluble Sulphate as SO4 2:1 Extract	mg/kg	-			-	-	-	-	-	-	-	-	-	-	-	<0.004	0.0211	<0.004	0.0244	<0.004	0.0111	-	-	-	-	-	-	-
Sulphate, acid soluble (total)	%	-			-	-	-	<0.02	-	<0.02	-	<0.02	-	<0.02	-	-	-	-	-	-	-	-	-	-	<0.02	-	<0.02	-
Heavy Metals and Metalloids																												
Arsenic	mg/kg	37	79	DEFRA C4SLs	5.35	16.5	15.2	14.9	10.7	20.2	9.77	7.19	11.1	15	12.8	13.1	21.1	20.7	11.8	13.1	11.7	14.6	24.2	9.69	27.8	17.3	17	13.1
Boron	mg/kg	290	21,000	LQ S4ULs	6.03	10.6	7.12	8.33	4.68	6.92	4.37	4.02	4.74	4.56	13.2	<1	<1	<1	<1	<1	<1	9.44	3.64	5.41	10.1	6.42	8.19	4.96
Cadmium	mg/kg	22	220	DEFRA C4SLs	0.136	0.286	0.232	<0.02	0.121	<0.02	0.0682	<0.02	0.0873	<0.02	0.0428	0.596	0.127	0.595	0.135	0.485	0.664	<0.02	0.32	0.117	0.724	0.157	<0.02	0.212
Chromium	mg/kg	910	1,500	LQ S4ULs	12.6	36	33	40.1	28.8	52.2	21.1	12.3	21.9	23.5	18.6	27	21.6	33.6	30.4	21	18.1	43.5	49.2	22.9	59	34.3	43.9	28.5
Copper	mg/kg	2,400	12,000	LQ S4ULs	8.34	32.8	25.3	17.2	11.9	29.2	14.3	15.8	16.1	7.74	21.7	19.2	12.8	31.2	13	18.4	20.4	32	12.7	8.78	43.1	18.6	36.1	16.3
Lead	mg/kg	200	630	DEFRA C4SLs	9.27	54.8	54.6	22.1	43.1	36.3	45.7	12.8	56.9	15.1	54.6	64.6	22.3	45	14.8	45.1	55.5	21.9	33.1	12.6	28.5	42.7	21.5	48.6
Mercury	mg/kg	1.2	120	LQ S4ULs	0.347	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	0.359	0.746	0.334	0.97	0.453	0.311	<0.14	<0.14	0.145	0.189	<0.14	<0.14	<0.14
Nickel	mg/kg	130	230	LQ S4ULs	15	41.4	35.2	26.6	19.5	40.7	12.3	26.3	11.5	11.3	16.5	21.8	15.9	17.7	12.9	21.3	20.6	56.9	30.5	17.6	165	19.7	41.1	16.7
Selenium	mg/kg	250	1,100	LQ S4ULs	<1	<1	1.05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.02	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Zinc	mg/kg	3,700	81,000	LQ S4ULs	33.5	112	87.7	54.9	47.1	98.9	44.3	44.4	46.7	26.7	90.1	66	37.8	77.5	33.7	65.9	60.7	152	43.9	36.9	182	64.2	97.2	58
Asbestos																												
Detectable	-	Detected		A-sqaured GAC	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected
Quantification	%	<0.001%		A-sqaured GAC	-	-	-	-	-	-	-	-	-	-	<0.001 - Amosite and Chrysotile	-	-	-	-	-	-	-	-	-	-	-	-	-
PAHs																												
Naphthalene-d8 % recovery**	%	-			94.8	116	96.8	97.3	94.2	117	91.7	108	89.2	100	94.4	95.6	101	91.8	96.5	87.8	94.2	115	101	100	106	101	104	105
Acenaphthene-d10 % recovery**	%	-			95.2	114	94.1	96.5	93.9	116	90.4	105	88.4	99.6	92.6	91.3	96	85.2	91.1	82.9	90.6	114	99.5	97.4	105	98.9	102	104
Phenanthrene-d10 % recovery**	%	-			94.8	110	94.6	96.8	94	112	90.9	104	89.3	96.7	96.5	90.7	95.3	84.6	90.3	82.2	89.3	110	96.4	95.2	101	94.2	97.7	100
Chrysene-d12 % recovery**	%	-			92.1	113	89.8	99.1	92.6	113	90.5	97.6	89.7	98.9	101	83.7	85.4	77.5	81	75.4	83.6	113	91	90.1	97.2	89.6	91.8	96.4
Perylene-d12 % recovery**	%	-			92.6	120	95.2	102	96.4	119	93.1	96.8	94.5	107	115	84.1	83.9	76.3	79	75.2	86.4	102	90.7	90	98.1	88.7	88.4	99
Naphthalene	ug/kg	15,000	11,000,000	DEFRA C4SLs	<9	19.4	<9	<9	<9	<9	<9	<9	<9	<9	<45	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9
Acenaphthylene	ug/kg	170,000	15,000,000	LQ S4ULs	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<60	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12
Acenaphthene	ug/kg	210,000	15,000,000	LQ S4ULs	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<40	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
Fluorene	ug/kg	170,000	9,900,000	LQ S4ULs	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phenanthrene	ug/kg	95,000	3,100,000	LQ S4ULs	<15	56.1	<15	<15	33.4	<15	<15	<15	<15	<15	300	24.3	<15	74.3	<15	23.3	<15	<15	<15	<15	<15	45.9	<15	34.2
Anthracene	ug/kg	2,400,000	74,000,000	LQ S4ULs	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	111	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16
Fluoranthene	ug/kg	280,000	3,100,000	LQ S4ULs	<17	105	30.6	<17	68.4	<17	<17	<17	23.7	<17	923	52.6	<17	154	<17	44.4	37.8	<17	<17	<17	<17	78.2	<17	72.4
Pyrene	ug/kg	620,000	7,400,000	LQ S4ULs	<15	91.7	24.8	<15	58.4	<15	<15	<15	19.6	<15	859	41.3	<15	115	<15	37.1	28.9	<15	<15	<15	<15	66.6	<15	59.2
Benz(a)anthracene	ug/kg	7,200	29,000	LQ S4ULs	<14	30	<14	<14	35.7	<14	<14	<14	<14	<14	664	18.2	<14	75.7	<14	<14	<14	<14	<14	<14	<14	22.6	<14	29.2
Chrysene	ug/kg	15,000	57,000	LQ S4ULs	<10	44.3	<10	<10	<10	<10	<10	<10	<10	<10	607	35/9	<10	98	<10	30.1	<10	<10	<10	<10	<10	32.7	<10	42.9
Benzo(b)fluoranthene	ug/kg	2,600	7,100	LQ S4ULs	<15	86.6	36.1	<15	65.5	<15	<15	<15	27.1	<15	1190	46/4	<15	123	<15	40.7	42.4	<15	<15	<15	<15	55.8	<15	50.3
Benzo(k)fluoranthene	ug/kg	77,000	190,000	LQ S4ULs	<14	39.3	<14	<14	24.8	<14	<14	<14	<14	<14	396	18/2	<14	53.3	<14	<14	<14	<14	<14	<14	<14	22.6	<14	27.4
Benzo(a)pyrene	ug/kg	5,000	10,000	DEFRA C4SLs	<15	76.4	<15	<15	40.7	<15	<15	<15	<15	<15	1040	33.3	<15	83.4	<15	23.7	<15	<15	<15	<15	<15	29.3	<15	39.1
Indeno(1,2,3-cd)pyrene	ug/kg	27,000	82,000	LQ S4ULs	<18	54.3	<18	<18	28.6	<18	<18	<18	<18	<18	552	25.6	<18	54.3	<18	<18	<18	<18	<18	<18	<18	26.3	<18	33.6
Dibenzo(a,h)anthracene	ug/kg	240	570	LQ S4ULs	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	193	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23
Benzo(g,h,i)perylene	ug/kg	320,000	640,000	LQ S4ULs	<24	82.6	<24	<24	43.7	<24	<24	<24	<24	<24	798	34.4	<24	71.7	<24	<24	<24	<24	<24	<24	<24	37.4	<24	44.9
PAH, Total Detected USEPA 16	ug/kg	-			<118	686	<118	<118	399	<118	<118	<118	<118	<118	7620	330.00	<118	903.000	<118	199.000	<118	<118	<118	<118	<118	418	<118	433
TPH																												
GRO Surrogate % recovery**	%	-			109	88	90	137	91	90	101	99	71	135	-	70	124	118	122	90	75	115	113	107	118	89	95	113
GRO TOT (oisture Corrected)	ug/kg	-			<44	<44	<44	<44	<44	<44	<44	<44	<44	<44	-	<44	<44	64.5	<44	<44	<44	<44	215	9340	<44	<44	<44	<44
ethyl tertiary butyl ether (mTBE)	ug/kg	49,000	-	CL:AIRE GAC	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Benzene	ug/kg	200	140,000	DEFRA C4SLs	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/kg	130,000	56,000,000	LQ S4ULs	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Ethylbenzene	ug/kg	47,000	24,000,000	LQ S4ULs	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	-	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
m,p-Xylene	ug/kg	56,000	41,000,000	LQ S4ULs	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	-	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
o-Xylene	ug/kg	60,000	410,000,000	LQ S4ULs	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	-	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
sum of detected mpo xylene by GC	ug/kg	-			<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	-	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	ug/kg	-			<24	<24	<24	<24	<24	<24	<24	<24	<24	<24	-	<24	<24	<24	<24	<24	<24	<24	<24	<24	<24	<24	<24	<24
Aliphatics >C5-C6	ug/kg	42,000	570,000,000	LQ S4ULs	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	ug/kg	100,000	600,000,000	LQ S4ULs	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	16	<10	<10	<10	<10	<10	4740	<10	<10	<10	<10
Aliphatics >C8-C10	ug/kg	27,000	13,000,000	LQ S4ULs	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	19	<10	<10	<10	<10	17	2740	<10	<10	<10	<10
Aliphatics >C10-C12	ug/kg	130,000	13,000,000	LQ S4ULs	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	<10	<10	<10	<10	<10	103	14.4	<10	<10	<10	<10
Aliphatics >C12-C16	ug/kg	1,100,000	13,000,000	LQ S4ULs	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	2170	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Aliphatics >C16-C21	ug/kg	6,500,000	250,000,000	LQ S4ULs	<100	2070	<100	<100	<100	<100	<100	<100	<100	688	11800	<100	<100	7190	<100	<100	<100	<100	<100	<100	<100	771	<100	<100
Aliphatics >C21-C35	ug/kg				<100	22300	13800	<100	6430	<100	<100	<100	17400	<100	247000	102000	<100	<100	795	8300	1880	<100	<100	<100	<100	13300	<100	<100
Aliphatics >C35-C44	ug/kg	65,000,000	250,000,000	LQ S4ULs	<100	1820	<100	<100	<100	<100	<100	<100	1810	<100	206000	<100	<100	71300	<100	<100	<100	<100	<100	<100	<100	1190	<100	<100
Total Aliphatics >C12-C44	ug/kg	-			<100	26200	13800	<100	6430	<100	<100	<100	19200	688	467000	102000	<100	274000	795	8300	1880	<100	<100	<100	<100	15200	<100	<100
Aromatics >EC5-EC7	ug/kg	70,000	56,000,000	LQ S4ULs	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	ug/kg	130,000	56,000,000	LQ S4ULs	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	ug/kg	34,000	5,000,000	LQ S4ULs	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	12	<10	<10	<10	<10	11.3	1830	<10	<10	<10	<10
Aromatics >EC10-EC12	ug/kg	74,000	5,000,000	LQ S4ULs	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	<10	<10	<10	<10	<10	68.9	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	ug/kg	140,000	5,100,000	LQ S4ULs	<100	<100	<100	<100	<100	<100	<100	<100	387	<100	1730	<100	<100	3800	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Aromatics >EC16-EC21	ug/kg	260,000	3,800,000	LQ S4ULs	<100	<100	<100	<100	1740	<100	<100	<100	982	<100	21900	1140	<100	32100	<100	1100	<100	<100	<100	<100	<100	421	<100	529
Aromatics >EC21-EC35	ug/kg	1,100,000	3,800,000	LQ S4ULs	<100	12000	10500	<100	10100	<100	6950	<100	11900	<100	433000	12300	<100	350000	<100	12300	4190	<100	<100	<100	<100	8920	<100	7890
Aromatics >EC35-EC44	ug/kg	1,100,000	3,800,000	LQ S4ULs	<100	5360	5290	<100	3900	<100	<100	<100	3720	<100	419000	5330	<100	173000	<100	4820	<100	<100	<100	<100	<100	1860	<100	5220
Aromatics >EC40-EC44	ug/kg	-			<100	1950	2480	<100	1260	<100	<100	<100	397	<100	200000	2000	<100	64400	<100	1640	<100	<100	<100	<100	<100	<100	<100	2830
Total Aromatics >EC12-EC44	ug/kg	-			<100	17300	15800	<100	15700	<100	6950	<100	17000	<100	875000	18800	<100	560000	<100	18200	4190	<100	<100	<100	<100	11200	<100	13600
Total Aliphatics & Aromatics >C5-C44	ug/kg	-			<100	43500	29600	<100	22200	<100	6950	<100	36200	688	-	28900	<100	834000	814	26500	6070	<100	132	9340	<100	26400	<100	13600
Pestacide																												
alpha-Hexachlorocyclohexane (HCH)	ug/kg	230	24,000	LQ S4ULs	-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
gamma-Hexachlorocyclohexane (HCH / Lindane)	ug/kg	60	820	LQ S4ULs	-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
Aldrin	ug/kg	5,700	18,000	LQ S4ULs	-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
beta-Hexachlorocyclohexane (HCH)	ug/kg	85	8,100	LQ S4ULs	-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
Dichlorvos	ug/kg	32	16,000	LQ S4ULs	-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
evinphos	ug/kg	-			-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
Phorate	ug/kg	-			-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
Diazinon	ug/kg	-			-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
Atrazine	ug/kg	3,300	1,200,000	LQ S4ULs	-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
Simazine	ug/kg	-			-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
Disulfoton	ug/kg	-			-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
Heptachlor	ug/kg	-			-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
ethyl parathion	ug/kg	-			-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
alathion	ug/kg	-			-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
Fenitrothion	ug/kg	-			-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
Heptachlor epoxide	ug/kg	-			-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
Parathion	ug/kg	-			-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
o,p-DDE	ug/kg	-			-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
Endosulphan I	ug/kg	-			-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
p,p-DDE	ug/kg	-			-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
Dieldrin	ug/kg	970	18,000	LQ S4ULs	-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
o,p'-DDD (TDE)	ug/kg	-			-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
Endrin	ug/kg	-			-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
o,p-DDT	ug/kg	-			-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
p,p-TDE (DDD)	ug/kg	-			-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
Ethion	ug/kg	-			-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
Endosulphan II	ug/kg	-			-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
p,p-DDT	ug/kg	-			-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
o,p-ethoxychlor	ug/kg	-			-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
p,p-ethoxychlor	ug/kg	-			-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
Endosulphan sulphate	ug/kg	-			-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
Azinphos-methyl	ug/kg	-			-	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	-	<50	<50	-	<50
Phenol and Cresols																												
Phenol	mg/kg	120,000	440,000	LQ S4ULs	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	mg/kg	-			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0124	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	mg/kg	-			<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected monohydric	mg/kg	120,000	440,000	LQ S4ULs	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035

Laboratory Report Ref.	10439070	10439082	10438863	10438870	10438880	10438890	10438897	10438903	10438909	10438918	10438925	10438933	10438946	10438952	10438960	10438967	10438973	10438981	10438989	10438997	10439004	10439012	10439027	10439035
Exploratory Location Ref.	TP8/1	TP9/1	TP10/1	TP11/1	TP12/1	TP13/1	TP14/1	TP15/1	TP16/1	TP17/1	TP18/1	TP19/1	TP20/1	TP21/1	TP22/1	TP23/1	TP24/1	TP25/1	TP26/1	TP27/1	TP28/1	TP29/1	TP30/1	TP30/2
Sample Depth (m)	1.60 - 1.60	2.00 - 2.00	0.40 - 0.40	0.30 - 0.30	0.30 - 0.30	2.00 - 2.00	0.30 - 0.30	1.00 - 1.00	2.00 - 2.00	0.40 - 0.40	1.00 - 1.00	0.50 - 0.50	1.50 - 1.50	0.40 - 0.40	1.00 - 1.00	0.30 - 0.30	2.00 - 2.00	0.40 - 0.40	0.50 - 0.50	2.00 - 2.00	1.10 - 1.10	2.50 - 2.50	0.30 - 0.30	2.00 - 2.00
Sample Date	11/11/2014	10/11/2014	11/11/2014	11/11/2014	12/11/2014	12/11/2014	12/11/2014	12/11/2014	12/11/2014	12/11/2014	13/11/2014	13/11/2014	13/11/2014	17/11/2014	13/11/2014	13/11/2014	14/11/2014	14/11/2014	14/11/2014	17/11/2014	17/11/2014	14/11/2014	17/11/2014	17/11/2014
Made Ground / Natural ?	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	G	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat
Anions and Other																								
pH	5	6.9	6.78	6.35	7.63	7.89	7.66	7.82	7.53	7.76	7.68	7.87	7.65	6.96	7.65	7.08	7.78	6.93	7.41	7.44	7.68	7.21	7.82	-
Chromium, Hexavalent	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	-
Cyanide, Total	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Cyanide, Free	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Sulphur, Total	0.0201	<0.02				<0.02		<0.02			<0.02		<0.02				<0.02			<0.02				<0.02
Sulphide, Easily liberated	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate, Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Soluble Sulphate as SO4 2:1 Extract	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate, acid soluble (total)	0.0321	<0.02	-	-	-	<0.02	-	0.026	-	-	<0.02	-	<0.02	-	-	-	<0.02	-	-	<0.02	-	-	-	<0.02
Heavy Metals and Metalloids																								
Arsenic	15.4	23.5	16.1	20	16.5	25.5	13.6	21.6	15.2	13.1	20.9	23.7	17.1	17.6	24.9	16.8	19.8	20.8	10.3	22.7	8.32	21.5	14.9	-
Boron	5.88	8.68	6.23	5.95	5.21	6.89	5.24	25.1	5.44	4.85	8.35	2.85	5.08	5.14	6.14	5.49	10.8	4.05	3.38	9.85	4.57	12.6	4.39	-
Cadmium	<0.02	<0.02	0.261	0.5	0.326	<0.02	0.285	<0.02	<0.02	0.112	<0.02	0.0984	<0.02	0.282	0.0447	0.661	0.241	<0.02	0.4	<0.02	<0.02	0.79	0.166	-
Chromium	32.7	46.7	28.1	33.1	41.9	42.6	28.8	50.1	29	23.7	50	46.1	34.6	41.7	60.1	32.7	46.8	49.1	18.6	50.6	22.9	40.3	25.5	-
Copper	14.3	19.7	39.4	54.6	16.7	33.7	17.3	43.4	18.8	11.9	16.1	11.2	14.1	17.7	19.1	24	33.6	14.5	12.1	41.3	7.91	38.9	13.6	-
Lead	19.1	23.6	83.7	160	42.3	39.7	46.9	30.2	28.2	35.7	20.4	36.2	18.4	30.7	35.4	62.3	24.3	27.9	32.8	36.3	15.4	30.1	45.9	-
Mercury	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	-
Nickel	21.3	21.7	17.8	21.9	28.1	78.8	20.4	261	35.4	14.4	22.1	18.5	16.5	24.1	31.2	31	85.8	20.2	20.4	60.5	10.4	149	11.5	-
Selenium	4.99	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.21	<1	<1	<1	<1	-
Zinc	51.5	101	140	204	70.7	122	59.9	288	62.2	50.5	55.6	43.1	43.7	72.3	76.7	82.9	190	49.7	52.3	144	26.6	167	51.5	-
Asbestos																								
Detectable	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected
Quantification	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PAHs																								
Naphthalene-d8 % recovery**	100	107	101	98.8	106	109	106	118	104	102	104	98.6	103	101	101	99	108	102	100	104	98.7	109	101	-
Acenaphthene-d10 % recovery**	98.7	107	102	96.9	106	109	107	118	103	103	102	97.6	101	102	100	98.1	106	100	98.4	103	98.9	108	98.8	-
Phenanthrene-d10 % recovery**	94.4	107	98.4	94	102	109	107	114	103	99.5	98.7	94.1	96.8	97.9	95.7	94.6	102	98.5	96.4	99.9	95.8	104	95.6	-
Chrysene-d12 % recovery**	90.3	112	104	91.6	108	113	108	120	103	104	93.6	92.7	93	104	92.8	91.1	96.2	98.6	92.4	101	101	99.8	90.8	-
Perylene-d12 % recovery**	90.5	121	100	95.2	104	121	115	117	109	97.4	94.5	98.3	94.2	103	96.9	94	94.9	106	96.9	89.7	100	102	89.5	-
Naphthalene	<9	<9	22.5	23.7	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	-
Acenaphthylene	<12	<12	<12	17	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	19.2	<12	<12	<12	<12	14.3	-
Acenaphthene	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	-
Fluorene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Phenanthrene	<15	21.3	60.5	128	24.1	<15	45.2	<15	<15	25.8	<15	<15	<15	22.2	<15	19.6	<15	<15	<15	<15	<15	<15	52.4	-
Anthracene	<16	<16	<16	20.5	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	-
Fluoranthene	<17	39	134	207	53.9	<17	96.9	<17	<17	55.5	<17	<17	<17	65.1	<17	38.8	<17	22.7	<17	<17	<17	<17	119	-
Pyrene	<15	31.6	113	164	45.7	<15	80	<15	<15	45.4	<15	<15	<15	59.5	<15	32.5	<15	20.1	<15	<15	<15	<15	104	-
Benz(a)anthracene	<14	<14	95.4	117	25.7	<14	43.3	<14	<14	42.3	<14	<14	<14	42.6	<14	21.8	<14	<14	20.7	<14	<14	<14	88.5	-
Chrysene	<10	23.4	90.2	109	39	<10	38.7	<10	<10	44.2	<10	<10	<10	49.6	<10	14.6	<10	12.4	<10	<10	<10	<10	79.6	-
Benzo(b)fluoranthene	<15	29.9	151	189	62.2	<15	69.8	<15	<15	52.6	<15	<15	<15	87.3	<15	29.6	<15	<15	17.9	<15	<15	<15	123	-
Benzo(k)fluoranthene	<14	<14	57.9	54.6	20.2	<14	25.4	<14	<14	<14	<14	<14	<14	29	<14	<14	<14	<14	<14	<14	<14	<14	48.5	-
Benzo(a)pyrene	<15	34.5	102	101	32.1	<15	62.9	<15	<15	28	<15	<15	<15	57.6	<15	19	<15	<15	<15	<15	<15	<15	78	-
Indeno(1,2,3-cd)pyrene	<18	<18	87.9	63.4	27.1	<18	43	<18	<18	22.7	<18	<18	<18	42.3	<18	<18	<18	<18	<18	<18	<18	<18	58.2	-
Dibenzo(a,h)anthracene	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	-
Benzo(g,h,i)perylene	<24	<24	106	75.4	37.1	<24	57.2	<24	<24	28.9	<24	<24	<24	49.7	<24	<24	<24	<24	<24	<24	<24	<24	78.3	-
PAH, Total Detected USEPA 16	<118	180	1020	1270	367	<118	562	<118	<118	345	<118	<118	<118	505	<118	176	<118	<118	<118	<118	<118	<118	843	-
TPH																								
GRO Surrogate % recovery**	121	107	86	71	77	108	77	108	114	82	99	112	110	71	112	75	101	98	94	111	113	109	95	-
GRO TOT (oisture Corrected)	<44	<44	<44	<44	<44	<44	<44	<44	<44	<44	<44	<44	<44	<44	<44	<44	<44	<44	<44	<44	<44	<44	<44	-
ethyl tertiary butyl ether (mTBE)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
Benzene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Toluene	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Ethylbenzene	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	-
m,p-Xylene	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	-
o-Xylene	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	-
sum of detected mpo xylene by GC	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	-
sum of detected BTEX by GC	<24	<24	<24	<24	<24	<24	<24	<24	<24	<24	<24	<24	<24	<24	<24	<24	<24	<24	<24	<24	<24	<24	<24	-
Aliphatics >C5-C6	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Aliphatics >C6-C8	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Aliphatics >C8-C10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Aliphatics >C10-C12	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Aliphatics >C12-C16	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-
Aliphatics >C16-C21	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-
Aliphatics >C21-C35	3450	<100	<100	7730	6920	<100	6090	<100	<100	5150	<100	<100	<100	<100	<100	8450	<100	<100	5770	<100	<100	<100	<100	-
Aliphatics >C35-C44	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-
Total Aliphatics >C12-C44	3450	<100	<100	7730	6920	<100	6090	<100	<100	5150	<100	<100	<100	<100	<100	8450	<100	<100	5770	<100	<100	<100	<100	-
Aromatics >EC5-EC7	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Aromatics >EC7-EC8	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Aromatics >EC8-EC10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Aromatics >EC10-EC12	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Aromatics >EC12-EC16	<100	<100	<100	249	491	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-
Aromatics >EC16-EC21	<100	<100	265	2760	949	<100	<100	<100	<100	<100	<100	<100	<100	321	<100	<100	<100	<100	<100	<100	<100	<100	856	-
Aromatics >EC21-EC35	1540	<100	5050	11300	8010	<100	3580	<100	<100	2750	<100	<100	<100	5110	<100	1820	<100	<100	<100	<100	<100	<100	6210	-
Aromatics >EC35-EC44	<100	<100	<100	3050	5690	<100	<100	<100	<100	<100	<100	<100	<100	1860	<100	<100	<100	<100	<100	<100	<100	<100	3600	-
Aromatics >EC40-EC44	<100	<100	<100	1140	2530	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	1810	-
Total Aromatics >EC12-EC44	1540	<100	5310	17400	15100	<100	3580	<100	<100	2750	<100	<100	<100	7300	<100	1820	<100	<100	<100	<100	<100	<100	10700	-
Total Aliphatics & Aromatics >C5-C44	4990	<100	5310	25100	22100	<100	9660	<100	<100	7910	<100	<100	<100	7300	<100	10300	<100	<100	5770	<100	<100	<100	10700	-
Pestacide																								
alpha-Hexachlorocyclohexane (HCH)	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
gamma-Hexachlorocyclohexane (HCH / Lindane)	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
Aldrin	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
beta-Hexachlorocyclohexane (HCH)	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
Dichlorvos	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
evinphos	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
Phorate	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
Diazinon	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
Atrazine	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
Simazine	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
Disulfoton	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
Heptachlor	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
ethyl parathion	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
alathion	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
Fenitrothion	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
Heptachlor epoxide	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
Parathion	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
o,p-DDE	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
Endosulphan I	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
p,p-DDE	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
Dieldrin	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
o,p'-DDD (TDE)	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
Endrin	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
o,p-DDT	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
p,p-TDE (DDD)	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
Ethion	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
Endosulphan II	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
p,p-DDT	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
o,p-ethoxychlor	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
p,p-ethoxychlor	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
Endosulphan sulphate	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
Azinphos-methyl	-	<50	-	<50	-	-	<50	-	-	-	<50	-	<50	<50	-	-	-	<50	-	-	-	-	<50	-
Phenol and Cresols																								
Phenol	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-
Cresols	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-
Xylenols	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	-
Phenols, Total Detected monohydric	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	-

Appendix G: A2SI 2025 Groundwater Data Screen

A-squared Studio

Averaging area	n/a
Chemical group	All analysed
Chemical subgroup	All analysed
Asssessment criteria	Drinking Water
pH	6 to 8.1 (7.4)
Hardness	196 to 2910 (891)

Screen

Contaminant	GAC Source	GAC (ug/l)	Min recorded (ug/l)	Max recorded (ug/l)	No. Samples analysed	No. Samples <LOD	No. Samples exceeding GAC
Arsenic	EU DWS	10	0	0	0	21	0
Barium	WHO GV	700	13.5	52.1	21	0	0
Beryllium	WHO GV	12	0	0	0	21	0
Boron	EU DWS	1000	13.2	32	7	14	0
Cadmium	EU DWS	5	0	0	0	21	0
Chromium (III)	EU DWS	50	0	0	0	21	0
Copper	EU DWS	2000	0.32	1.73	14	7	0
Lead	EU DWS	10	0.295	0.484	2	19	0
Nickel	EU DWS	20	0.403	2.59	14	7	0
Selenium	EU DWS	10	1.02	1.17	3	18	0
Zinc	WHO T&O Threshold	3000	1.78	18.3	18	3	0
Ammoniacal Nitrogen as N	UK DWS	500	0	0	0	21	0
Chloride	UK DWS	250000	8400	40800	20	1	0
Benzo(a)pyrene	EU DWS (Max. is 0.27)	0.01	0.00305	0.00737	3	39	0
Benzo(b)fluoranthene	EU DWS	0.1	0.00601	0.013	2	40	0
TPH Aliphatics >C5-6	Ali. 8-10 WHO GV used as surrogate	300	0	0	0	21	0
TPH Aliphatics >C6-8	Ali. 8-10 WHO GV used as surrogate	300	0	0	0	21	0
TPH Aliphatics >C8-10	WHO GV	300	0	0	0	21	0
TPH Aliphatics >C10-12	WHO GV	300	0	0	0	21	0
TPH Aliphatics >C12-16	WHO GV	300	0	0	0	21	0
TPH Aromatics >C5-7	Benzene UK DWS used as surrogate	1	0	0	0	21	0
TPH Aromatics >C7-8	Toluene WHO GV used as surrogate	700	0	0	0	21	0
TPH Aromatics >C8-10	Ethylbenzene WHO GV used as surrogate	300	0	0	0	21	0
TPH Aromatics >C10-12	WHO GV	90	0	0	0	21	0
TPH Aromatics >C12-16	WHO GV	90	0	0	0	21	0
TPH Aromatics >C16-21	WHO GV	90	0	0	0	21	0
TPH Aromatics >C21-35	WHO GV	90	29.1	291	3	18	1
Benzene	UK DWS	1	0	0	0	21	0
Toluene	WHO GV	700	0	0	0	21	0
Ethylbenzene	WHO GV	300	0	0	0	21	0
Methyl tert-butyl ether (MTBE)	WHO T&O Threshold	15	0	0	0	21	0
Xylene	WHO GV	500	0	0	0	21	0
Hexachlorobutadiene (HCBD)	WHO GV	0.6	0	0	0	21	0
Bis(2-ethylhexyl)phthalate	WHO GAC	8	2.59	2.59	1	20	0
1,2-Dichlorobenzene	WHO GV	1000	0	0	0	21	0
1,4-Dichlorobenzene	WHO GV	300	0	0	0	21	0
1,2,4-Trichlorobenzene	US EPA*	70	0	0	0	21	0
Hexachlorobenzene (HCB)	WHO GV Supporting Text	0.05	0	0	0	21	0
2,4,6-Trichlorophenol	WHO GV	300	0	0	0	21	0
Pentachlorophenol (PCP)	WHO GV	9	0	0	0	21	0
PFOA Perfluorononctanoic acid	DWI Criteria	0.1	6.49	93.2	8	14	8
PFOS Linear Perfluoro-1-octanesulfonate	DWI Criteria	0.1	5.71	436	7	15	7

A-squared Studio

Averaging area	n/a
Chemical group	All analysed
Chemical subgroup	All analysed
Asssessment criteria	Environmental Quality - Fresh Water
pH	6 to 8.1 (7.4)
Hardness	196 to 2910 (891)

Screen

Contaminant	GAC Source	GAC (ug/l)	Min recorded (ug/l)	Max recorded (ug/l)	No. Samples analysed	No. Samples <LOD	No. Samples exceeding GAC
Arsenic	UK EQS	50	0	0	0	21	0
Boron	EA operational target	2000	13.2	32	7	14	0
Cadmium	EU EQS (Class 1)	0.08	0	0	0	21	0
Chromium (III)	UK EQS	4.7	0	0	0	21	0
Chromium (VI)	UK EQS	3.4	0	0	0	21	0
Copper	UK EQS (bioavailable)	1	0.32	1.73	14	7	2
Phenol	UK EQS	7.7	0	0	0	21	0
Nickel	EU EQS	4	0.403	2.59	14	7	0
Vanadium	EA operational target (bioavailable)	20	0	0	0	21	0
Zinc	UK EQS	10.9	1.78	18.3	18	3	1
Ammoniacal Nitrogen as N	UK EQS (^-WFD Directions, hardness dependant) (NH3)	300	0	0	0	21	0
Chloride	EA operational target	250000	8400	40800	20	1	0
Anthracene	EU EQS	0.1	0	0	0	42	0
Benzo(a)pyrene	EU EQS (Max. is 0.27)	0.0002	0.00305	0.00737	3	39	3
Benzo(b)fluoranthene	EU EQS (or 0.017 - Max. not AA)	0.0002	0.00601	0.013	2	40	2
Benzo(g,h,i)perylene	EU EQS (or 0.00082 - Max. not AA)	0.0002	0	0	0	42	0
Benzo(k)fluoranthene	EU EQS (or 0.017 - Max. not AA)	0.0002	0.00565	0.00565	1	41	1
Fluoranthene	EU EQS	0.0063	0.00648	0.0194	5	37	3
Indeno(1,2,3-cd)pyrene	EU EQS (Max. not AA)	0.0002	0.00504	0.00567	2	40	2
Naphthalene	EU EQS	2	0	0	0	42	0
TPH Aliphatics >C5-6	Ethylbenzene EQS used as surrogate	20	0	0	0	21	0
TPH Aliphatics >C6-8	Ethylbenzene EQS used as surrogate	20	0	0	0	21	0
TPH Aliphatics >C8-10	Ethylbenzene EQS used as surrogate	20	0	0	0	21	0
TPH Aliphatics >C10-12	Ethylbenzene EQS used as surrogate	20	0	0	0	21	0
TPH Aliphatics >C12-16	Ethylbenzene EQS used as surrogate	20	0	0	0	21	0
TPH Aromatics >C5-7	Benzene EU EQS used as surrogate	10	0	0	0	21	0
TPH Aromatics >C7-8	Toluene EU EQS used as surrogate	74	0	0	0	21	0
TPH Aromatics >C8-10	Ethylbenzene EQS used as surrogate	20	0	0	0	21	0
TPH Aromatics >C10-12	Naphthalene EU EQS used as surrogate	2	0	0	0	21	0
TPH Aromatics >C12-16	Naphthalene EU EQS used as surrogate	2	0	0	0	21	0
TPH Aromatics >C16-21	Anthracene EU EQS used as surrogate	0.1	0	0	0	21	0
TPH Aromatics >C21-35	Benzo(a)pyrene EU EQS used as surrogate	0.0002	29.1	291	3	18	3
Benzene	EU EQS	10	0	0	0	21	0
Toluene	UK EQS	74	0	0	0	21	0
Ethylbenzene	Proposed EQS (Dangerous Substances Directive)	20	0	0	0	21	0
Xylene	EA operational target	30	0	0	0	21	0
Hexachlorobutadiene (HCBD)	EU EQS (Max. not AA)**	0.6	0	0	0	21	0
Diethylphthalate	EA operational target	200	0	0	0	21	0
Bis(2-ethylhexyl)phthalate	Priority Hazardous Substance	1.3	2.59	2.59	1	20	1
Butylbenzylphthalate	UK EQS	7.5	0	0	0	21	0
Di-N-Butyl Phthalate	EA operational target	8	0	0	0	21	0
Di-N-Octyl Phthalate	EA operational target	20	0	0	0	21	0
1,4-Dichlorobenzene	EA operational target	20	0	0	0	21	0
1,2,4-Trichlorobenzene	EU EQS	0.4	0	0	0	21	0
Hexachlorobenzene (HCB)	EU EQS (Max. not AA)**	0.05	0	0	0	21	0
2-Chlorophenol	EA operational target	50	0	0	0	21	0
2,4-Dichlorophenol	UK EQS	4.2	0	0	0	21	0
4-Chloro-3-Methylphenol	EA operational target	40	0	0	0	21	0
Dimethylphthalate	EA operational target	800	0	0	0	21	0
Lead	EU EQS	1.2	0.295	0.484	2	19	0
Pentachlorophenol (PCP)	EU EQS	0.4	0	0	0	21	0
PFOS Linear Perfluoro-1-octanesulfonate	EU EQS	0.00065	5.71	436	7	15	7
Perfluorononanesulfonic acid (PFNS)	EU EQS	0.00065	0	0	0	22	0

Appendix H: Qualitative Risk Assessment Matrix

A-squared Studio Engineers Ltd. qualitative risk assessment for geo-environmental purposes is undertaken in accordance with *CIRIA C552: Contaminated Land Risk Assessment, A Guide to Good Practice (Rudland et al., 2001)*. The CIRIA C552 risk categories and the assessment methodology are summarised below in Table H.1, Table H.2 and Table H.3. Potential magnitude and potential likelihood are both classified to enable a risk rating to be assessed.

Potential magnitude takes into account the potential consequences should a complete source–pathway–receptor linkage be present. Potential magnitude is classified as per Table H.1.

Table H.1 Definition of potential magnitude of consequence

Category	Definition
Severe	Acute risks to human health, catastrophic damage to buildings / property, major pollution to controlled waters.
Medium	Chronic risk to human health, pollution of sensitive controlled waters, significant effects on sensitive ecosystems or species, significant damage to buildings or structures.
Mild	Pollution of non-sensitive waters, minor damage to buildings or structures.
Minor	Damage to non-sensitive ecosystems or species.

Potential likelihood takes into account the presence of the hazard and receptor as well as the integrity of the pathway for exposure, i.e., whether a source-pathway-receptor linkage is present or not. Potential likelihood is classified as per Table H.2.

Table H.2 Definition of potential likelihood of exposure

Category	Definition
High Likelihood	Pollutant linkage may be present and is almost certain to occur in the long-term. Or there is evidence of harm to the receptor.
Likely	Pollutant linkage may be present, and it is probable that it will occur over the long-term.
Low Likelihood	Pollutant linkage may be present, and there is a possibility that it will occur, although there is no certainty that it will do so.
Unlikely	Pollutant linkage may be present, but it is improbable that it will occur.

The potential magnitude of consequence and the potential likelihood of exposure are assessed in accordance with the risk matrix presented in Table H.3.

Table H.3 Geo-environmental risk assessment matrix

		Potential Magnitude of Consequence			
		Severe	Medium	Mild	Minor
Potential Likelihood of Exposure	High Likelihood	Very High	High	Moderate	Low to Moderate
	Likely	High	Moderate	Low to Moderate	Low
	Low Likelihood	Moderate	Low to Moderate	Low	Very Low
	Unlikely	Low to Moderate	Low	Very Low	Very Low

A-squared Studio

A-squared Studio Engineers Ltd
One Westminster Bridge Rd
London, SE1 7XW

020 7620 2868
contact@a2-studio.com
www.a2-studio.com