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Analytical Report Number : 21-20822

Replaces Analytical Report Number: 21-20822, issue no. 1
Client references/information amended.

Project / Site name:	Colt DCS Data Centre, Hayes	Samples received on:	04/11/2021
Your job number:	21-3600	Samples instructed on/ Analysis started on:	05/11/2021
Your order number:	CL3272	Analysis completed by:	07/12/2021
Report Issue Number:	2	Report issued on:	07/12/2021
Samples Analysed:	7 water samples		


Signed:

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

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

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

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

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

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

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



Analytical Report Number: 21-20822

Project / Site name: Colt DCS Data Centre, Hayes

Your Order No: CL3272

Lab Sample Number	2071770	2071771	2071772	2071773	2071774
Sample Reference	BH101	BH104C	BH106	BH108	WS209
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	03/11/2021	03/11/2021	03/11/2021	03/11/2021	03/11/2021
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status		

General Inorganics

pH	pH Units	N/A	ISO 17025	11.6	8.2	7.7	7.5	7.5
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
Sulphate as SO ₄	mg/l	0.045	ISO 17025	46.3	101	57.9	49.7	76.0
Sulphide	µg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloride	mg/l	0.15	ISO 17025	87	24	24	21	27
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	410	16	1900	< 15	< 15
Dissolved Organic Carbon (DOC)	mg/l	0.1	ISO 17025	3.96	7.38	7.18	2.78	3.04
Nitrate as N	mg/l	0.01	ISO 17025	1.32	3.05	5.00	4.31	10.9
Nitrate as NO ₃	mg/l	0.05	ISO 17025	5.84	13.5	22.1	19.1	48.1
Nitrite as N	µg/l	1	ISO 17025	2400	12	74	30	4.4
Nitrite as NO ₂	µg/l	5	ISO 17025	7900	38	240	97	15
Alkalinity as CaCO ₃	mg/l	3	ISO 17025	250	160	240	180	60

Hardness - Total	mgCaCO ₃ /l	1	ISO 17025	246	129	302	205	208
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Phenols by HPLC

Catechol	µg/l	0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Resorcinol	µg/l	0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ethylphenol & Dimethylphenol	µg/l	0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cresols	µg/l	0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Naphthols	µg/l	0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Isopropylphenol	µg/l	0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Phenol	µg/l	0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trimethylphenol	µg/l	0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

Total Phenols

Total Phenols (monohydric)	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
Total Phenols (HPLC)	µg/l	3.5	NONE	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5

Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.16	ISO 17025	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
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Date Sampled				03/11/2021	03/11/2021	03/11/2021	03/11/2021	03/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					

Heavy Metals / Metalloids

Calcium (dissolved)	mg/l	0.012	ISO 17025	98	48	110	71	78
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Iron (dissolved)	mg/l	0.004	ISO 17025	0.010	0.005	0.20	0.16	0.006
Magnesium (dissolved)	mg/l	0.005	ISO 17025	0.027	2.4	8.8	7.0	3.4
Potassium (dissolved)	mg/l	0.025	ISO 17025	8.6	6.1	7.3	6.6	2.7
Sodium (dissolved)	mg/l	0.01	ISO 17025	120	97	37	37	11

Antimony (dissolved)	µg/l	0.4	ISO 17025	0.5	0.7	0.6	0.4	1.2
Arsenic (dissolved)	µg/l	0.15	ISO 17025	1.19	3.91	0.72	0.96	0.71
Beryllium (dissolved)	µg/l	0.1	ISO 17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.07	0.03	0.04	0.04	< 0.02
Chromium (dissolved)	µg/l	0.2	ISO 17025	0.3	3.8	2.2	1.2	0.8
Copper (dissolved)	µg/l	0.5	ISO 17025	2.5	4.6	3.5	1.9	1.7
Lead (dissolved)	µg/l	0.2	ISO 17025	0.3	< 0.2	< 0.2	< 0.2	< 0.2
Manganese (dissolved)	µg/l	0.05	ISO 17025	6.7	5.6	130	210	1.2
Mercury (dissolved)	µg/l	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	µg/l	0.5	ISO 17025	3.5	1.7	8.4	5.3	1.7
Selenium (dissolved)	µg/l	0.6	ISO 17025	2.9	18	1.3	1.2	1.9
Vanadium (dissolved)	µg/l	0.2	ISO 17025	8.5	3.2	0.6	0.5	0.5
Zinc (dissolved)	µg/l	0.5	ISO 17025	4.5	2.2	3.1	4.3	1.4

Monoaromatics & Oxygenates

Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >C5 - C6 _{HS,1D,AL}	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C6 - C8 _{HS,1D,AL}	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C8 - C10 _{HS,1D,AL}	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C10 - C12 _{EH,1D,AL,#1,#2,MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16 _{EH,1D,AL,#1,#2,MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21 _{EH,1D,AL,#1,#2,MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35 _{EH,1D,AL,#1,#2,MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C35 - C44 _{EH,1D,AL,#1,#2,MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35) _{HS+EH,1D,AL,#1,#2,MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C44) _{HS+EH,1D,AR,#1,#2,MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >C5 - C7 _{HS,1D,AR}	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C7 - C8 _{HS,1D,AR}	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C8 - C10 _{HS,1D,AR}	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C10 - C12 _{EH,1D,AR,#1,#2,MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C12 - C16 _{EH,1D,AR,#1,#2,MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C16 - C21 _{EH,1D,AR,#1,#2,MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35 _{EH,1D,AR,#1,#2,MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C35 - C44 _{EH,1D,AR,#1,#2,MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35) _{HS+EH,1D,AR,#1,#2,MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C44) _{HS+EH,1D,AR,#1,#2,MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10



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Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				03/11/2021	03/11/2021	03/11/2021	03/11/2021	03/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					

VOCs

Chloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0



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Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					
Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

SVOCs

Aniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachloroethane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Isophorone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chloroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dimethylphthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzofuran	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Diethyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Nitroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Azobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Carbazole	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthraquinone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

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Your Order No: CL3272

Lab Sample Number				2071770	2071771	2071772	2071773	2071774
Sample Reference				BH101	BH104C	BH106	BH108	WS209
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				03/11/2021	03/11/2021	03/11/2021	03/11/2021	03/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

3&4-Methylphenol	µg/l	0.1	NONE	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
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PCBs – WHO12

PCB Congener 77	µg/l	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
PCB Congener 81	µg/l	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
PCB Congener 105	µg/l	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
PCB Congener 114	µg/l	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
PCB Congener 118	µg/l	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
PCB Congener 123	µg/l	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
PCB Congener 126	µg/l	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
PCB Congener 156	µg/l	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
PCB Congener 157	µg/l	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
PCB Congener 167	µg/l	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
PCB Congener 169	µg/l	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
PCB Congener 189	µg/l	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020

Total PCBs – WHO12

Total PCBs	µg/l	0.3	NONE	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300
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U/S = Unsuitable Sample I/S = Insufficient Sample



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Project / Site name: Colt DCS Data Centre, Hayes

Your Order No: CL3272

Lab Sample Number	2071775			2071776		
Sample Reference	Yeadling Downstream			Yeadling Upstream		
Sample Number	None Supplied			None Supplied		
Depth (m)	None Supplied			None Supplied		
Date Sampled	03/11/2021			03/11/2021		
Time Taken	None Supplied			None Supplied		
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status			

General Inorganics

pH	pH Units	N/A	ISO 17025	8.1	8.1
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10
Sulphate as SO4	mg/l	0.045	ISO 17025	151	156
Sulphide	µg/l	5	NONE	< 5.0	< 5.0
Chloride	mg/l	0.15	ISO 17025	47	47
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	98	100
Dissolved Organic Carbon (DOC)	mg/l	0.1	ISO 17025	10.9	7.66
Nitrate as N	mg/l	0.01	ISO 17025	2.59	2.36
Nitrate as NO3	mg/l	0.05	ISO 17025	11.5	10.5
Nitrite as N	µg/l	1	ISO 17025	74	72
Nitrite as NO2	µg/l	5	ISO 17025	240	240
Alkalinity as CaCO3	mg/l	3	ISO 17025	210	230

Hardness - Total	mgCaCO3/l	1	ISO 17025	367	383
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Phenols by HPLC

Catechol	µg/l	0.5	NONE	< 0.5	< 0.5
Resorcinol	µg/l	0.5	NONE	< 0.5	< 0.5
Ethylphenol & Dimethylphenol	µg/l	0.5	NONE	< 0.5	< 0.5
Cresols	µg/l	0.5	NONE	< 0.5	< 0.5
Naphthols	µg/l	0.5	NONE	< 0.5	< 0.5
Isopropylphenol	µg/l	0.5	NONE	< 0.5	< 0.5
Phenol	µg/l	0.5	NONE	< 0.5	< 0.5
Trimethylphenol	µg/l	0.5	NONE	< 0.5	< 0.5

Total Phenols

Total Phenols (monohydric)	µg/l	10	ISO 17025	< 10	< 10
Total Phenols (HPLC)	µg/l	3.5	NONE	< 3.5	< 3.5

Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.16	ISO 17025	< 0.16	< 0.16
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Analytical Report Number: 21-20822

Project / Site name: Colt DCS Data Centre, Hayes

Your Order No: CL3272

Lab Sample Number	2071775			2071776		
Sample Reference	Yeadling Downstream			Yeadling Upstream		
Sample Number	None Supplied			None Supplied		
Depth (m)	None Supplied			None Supplied		
Date Sampled	03/11/2021			03/11/2021		
Time Taken	None Supplied			None Supplied		
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status			

Heavy Metals / Metalloids

Calcium (dissolved)	mg/l	0.012	ISO 17025	120	120
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0
Iron (dissolved)	mg/l	0.004	ISO 17025	0.041	0.040
Magnesium (dissolved)	mg/l	0.005	ISO 17025	17	18
Potassium (dissolved)	mg/l	0.025	ISO 17025	8.2	8.4
Sodium (dissolved)	mg/l	0.01	ISO 17025	46	51

Antimony (dissolved)	µg/l	0.4	ISO 17025	2.0	1.9
Arsenic (dissolved)	µg/l	0.15	ISO 17025	1.58	1.63
Beryllium (dissolved)	µg/l	0.1	ISO 17025	< 0.1	< 0.1
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.02	0.02
Chromium (dissolved)	µg/l	0.2	ISO 17025	1.4	2.0
Copper (dissolved)	µg/l	0.5	ISO 17025	4.5	5.3
Lead (dissolved)	µg/l	0.2	ISO 17025	0.4	0.4
Manganese (dissolved)	µg/l	0.05	ISO 17025	16	12
Mercury (dissolved)	µg/l	0.05	ISO 17025	< 0.05	< 0.05
Nickel (dissolved)	µg/l	0.5	ISO 17025	3.6	3.8
Selenium (dissolved)	µg/l	0.6	ISO 17025	0.8	0.9
Vanadium (dissolved)	µg/l	0.2	ISO 17025	2.1	2.2
Zinc (dissolved)	µg/l	0.5	ISO 17025	9.4	12

Monoaromatics & Oxygenates

Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >C5 - C6 _{HS, 1D, AL}	µg/l	1	ISO 17025	< 1.0	< 1.0
TPH-CWG - Aliphatic >C6 - C8 _{HS, 1D, AL}	µg/l	1	ISO 17025	< 1.0	< 1.0
TPH-CWG - Aliphatic >C8 - C10 _{HS, 1D, AL}	µg/l	1	ISO 17025	< 1.0	< 1.0
TPH-CWG - Aliphatic >C10 - C12 _{EH, 1D, AL, #1, #2, MS}	µg/l	10	NONE	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16 _{EH, 1D, AL, #1, #2, MS}	µg/l	10	NONE	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21 _{EH, 1D, AL, #1, #2, MS}	µg/l	10	NONE	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35 _{EH, 1D, AL, #1, #2, MS}	µg/l	10	NONE	< 10	< 10
TPH-CWG - Aliphatic >C35 - C44 _{EH, 1D, AL, #1, #2, MS}	µg/l	10	NONE	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35) _{HS+EH, 1D, AL, #1, #2, MS}	µg/l	10	NONE	< 10	< 10
TPH-CWG - Aliphatic (C5 - C44) _{HS+EH, 1D, AL, #1, #2, MS}	µg/l	10	NONE	< 10	< 10

TPH-CWG - Aromatic >C5 - C7 _{HS, 1D, AR}	µg/l	1	ISO 17025	< 1.0	< 1.0
TPH-CWG - Aromatic >C7 - C8 _{HS, 1D, AR}	µg/l	1	ISO 17025	< 1.0	< 1.0
TPH-CWG - Aromatic >C8 - C10 _{HS, 1D, AR}	µg/l	1	ISO 17025	< 1.0	< 1.0
TPH-CWG - Aromatic >C10 - C12 _{EH, 1D, AR, #1, #2, MS}	µg/l	10	NONE	< 10	< 10
TPH-CWG - Aromatic >C12 - C16 _{EH, 1D, AR, #1, #2, MS}	µg/l	10	NONE	< 10	< 10
TPH-CWG - Aromatic >C16 - C21 _{EH, 1D, AR, #1, #2, MS}	µg/l	10	NONE	< 10	< 10
TPH-CWG - Aromatic >C21 - C35 _{EH, 1D, AR, #1, #2, MS}	µg/l	10	NONE	< 10	< 10
TPH-CWG - Aromatic >C35 - C44 _{EH, 1D, AR, #1, #2, MS}	µg/l	10	NONE	< 10	< 10
TPH-CWG - Aromatic (C5 - C35) _{HS+EH, 1D, AR, #1, #2, MS}	µg/l	10	NONE	< 10	< 10
TPH-CWG - Aromatic (C5 - C44) _{HS+EH, 1D, AR, #1, #2, MS}	µg/l	10	NONE	< 10	< 10



Analytical Report Number: 21-20822

Project / Site name: Colt DCS Data Centre, Hayes

Your Order No: CL3272

Lab Sample Number				2071775	2071776
Sample Reference				Yeadling Downstream	Yeadling Upstream
Sample Number				None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied
Date Sampled				03/11/2021	03/11/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status		

VOCs

Chloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0
Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0
Bromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0
Trichlorofluoromethane	µg/l	1	NONE	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0
Trichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0
Trichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0
Dibromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0	< 1.0
Chlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
p & m-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0
Styrene	µg/l	1	ISO 17025	< 1.0	< 1.0
Tribromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0
o-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
Bromobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0



Analytical Report Number: 21-20822

Project / Site name: Colt DCS Data Centre, Hayes

Your Order No: CL3272

Lab Sample Number				2071775	2071776
Sample Reference				Yeadling Downstream	Yeadling Upstream
Sample Number				None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied
Date Sampled				03/11/2021	03/11/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status		
Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0

SVOCs

Aniline	µg/l	0.05	NONE	< 0.05	< 0.05
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05
Hexachloroethane	µg/l	0.05	NONE	< 0.05	< 0.05
Nitrobenzene	µg/l	0.05	NONE	< 0.05	< 0.05
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05
Isophorone	µg/l	0.05	NONE	< 0.05	< 0.05
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05	< 0.05
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05
4-Chloroaniline	µg/l	0.05	NONE	< 0.05	< 0.05
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05	< 0.05
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05
Dimethylphthalate	µg/l	0.05	NONE	< 0.05	< 0.05
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05
Dibenzofuran	µg/l	0.05	NONE	< 0.05	< 0.05
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05
Diethyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05
4-Nitroaniline	µg/l	0.05	NONE	< 0.05	< 0.05
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Azobenzene	µg/l	0.05	NONE	< 0.05	< 0.05
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05
Hexachlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Carbazole	µg/l	0.05	NONE	< 0.05	< 0.05
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05
Anthraquinone	µg/l	0.05	NONE	< 0.05	< 0.05
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01



Analytical Report Number: 21-20822
Project / Site name: Colt DCS Data Centre, Hayes

Your Order No: CL3272

Lab Sample Number				2071775	2071776
Sample Reference				Yeadling Downstream	Yeadling Upstream
Sample Number				None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied
Date Sampled				03/11/2021	03/11/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status		
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01

3&4-Methylphenol	µg/l	0.1	NONE	< 0.10	< 0.10
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PCBs – WHO12

PCB Congener 77	µg/l	0.02	NONE	< 0.020	< 0.020
PCB Congener 81	µg/l	0.02	NONE	< 0.020	< 0.020
PCB Congener 105	µg/l	0.02	NONE	< 0.020	< 0.020
PCB Congener 114	µg/l	0.02	NONE	< 0.020	< 0.020
PCB Congener 118	µg/l	0.02	NONE	< 0.020	< 0.020
PCB Congener 123	µg/l	0.02	NONE	< 0.020	< 0.020
PCB Congener 126	µg/l	0.02	NONE	< 0.020	< 0.020
PCB Congener 156	µg/l	0.02	NONE	< 0.020	< 0.020
PCB Congener 157	µg/l	0.02	NONE	< 0.020	< 0.020
PCB Congener 167	µg/l	0.02	NONE	< 0.020	< 0.020
PCB Congener 169	µg/l	0.02	NONE	< 0.020	< 0.020
PCB Congener 189	µg/l	0.02	NONE	< 0.020	< 0.020

Total PCBs – WHO12

Total PCBs	µg/l	0.3	NONE	< 0.300	< 0.300
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U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number : 21-20822
Project / Site name: Colt DCS Data Centre, Hayes

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in water by ICP-OES (dissolved)	Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW, PrW.(Al, Cu,Fe,Zn).	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 *for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
Phenols, speciated, in water, by HPLC	Determination of speciated phenols by HPLC.	In house method based on Blue Book Method.	L030-PL	W	NONE
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.	L080-PL	W	ISO 17025
Total Hardness of water	Determination of hardness in waters by calculation from calcium and magnesium. Accredited Matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L045-PL	W	ISO 17025
Monohydric phenols in water	Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Nitrite in water	Determination of nitrite in water by addition of sulphanilamide and NED followed by discrete analyser (colorimetry). Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Nitrate in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Speciated EPA-16 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L102B-PL	W	ISO 17025
Sulphide in water	Determination of sulphide in water by ion selective electrode.	In-house method	L029-PL	W	NONE
Sulphate in water	Determination of sulphate in water after filtration by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS.	In-house method based on USEPA 8270	L102B-PL	W	NONE
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-PL	W	NONE
Total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Volatile organic compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
Dissolved Organic Carbon in water	Determination of dissolved inorganic carbon in water by TOC/DOC NDIR Analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037-PL	W	ISO 17025
BTEX and MTBE in water (Monoaromatics)	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073B-PL	W	ISO 17025

Analytical Report Number : 21-20822
Project / Site name: Colt DCS Data Centre, Hayes

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in water	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the discrete analyser (colorimetric) salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Nitrite as N in water	Determination of nitrite in water by addition of sulphanilamide and NED followed by discrete analyser (colorimetry). Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Nitrate as N in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L078-PL	W	ISO 17025
PCBs WHO 12 in water	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L028-UK	W	NONE
pH at 20oC in water (automated)	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In house method.	L099-PL	W	ISO 17025
TPH in (Water)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding.	L070-PL	W	NONE
Chloride in water	Determination of Chloride (diissolved) colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260. Accredited matrices: SW, PW, GW.	L082-PL	W	ISO 17025
Alkalinity in Water (by discrete analyser)	Determination of Alkalinity by discrete analyser (colorimetry). Accredited matrices: SW, PW, GW.	In house method based on MEWAM & USEPA Method 310.2.	L082-PL	W	ISO 17025

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

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

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

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

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

**Ana Gonzalez**

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Analytical Report Number : 21-23752

Project / Site name:	Colt DCS Data Centre, Hayes	Samples received on:	17/11/2021
Your job number:	21 3600	Samples instructed on/ Analysis started on:	18/11/2021
Your order number:	CL3319	Analysis completed by:	25/11/2021
Report Issue Number:	1	Report issued on:	25/11/2021
Samples Analysed:	5 water samples		

Signed: *Karolina Marek*

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

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

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

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

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

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



Analytical Report Number: 21-23752

Project / Site name: Colt DCS Data Centre, Hayes

Your Order No: CL3319

Lab Sample Number				2087016	2087017	2087018	2087019	2087020
Sample Reference				BH102B (50mm)	WS205A	BH101	BH104C	BH106
Sample Number				2A	2A	2A	2A	2A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/11/2021	16/11/2021	17/11/2021	17/11/2021	17/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					

General Inorganics

pH	pH Units	N/A	ISO 17025	8.8	7.8	11.7	8.4	7.2
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
Sulphate as SO ₄	mg/l	0.045	ISO 17025	339	92.9	46.9	81.6	47.9
Sulphide	µg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloride	mg/l	0.15	ISO 17025	55	14	87	27	24
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	4500	84	420	42	48
Dissolved Organic Carbon (DOC)	mg/l	0.1	ISO 17025	17.8	10.1	3.57	7.42	4.13
Nitrate as N	mg/l	0.01	ISO 17025	0.08	0.40	0.81	3.17	4.31
Nitrate as NO ₃	mg/l	0.05	ISO 17025	0.37	1.79	3.58	14.0	19.1
Nitrite as N	µg/l	1	ISO 17025	16	4.4	2700*	2.3	37
Nitrite as NO ₂	µg/l	5	ISO 17025	52	15	9000*	7.5	120
Alkalinity as CaCO ₃	mg/l	3	ISO 17025	52	250	220	170	260

Hardness - Total	mgCaCO ₃ /l	1	ISO 17025	244	343	221	192	264
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Total Phenols

Total Phenols (monohydric)	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
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Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.16	ISO 17025	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
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Analytical Report Number: 21-23752

Project / Site name: Colt DCS Data Centre, Hayes

Your Order No: CL3319

Lab Sample Number				2087016	2087017	2087018	2087019	2087020
Sample Reference				BH102B (50mm)	WS205A	BH101	BH104C	BH106
Sample Number				2A	2A	2A	2A	2A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/11/2021	16/11/2021	17/11/2021	17/11/2021	17/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					

Heavy Metals / Metalloids

Calcium (dissolved)	mg/l	0.012	ISO 17025	96	120	88	72	93
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Iron (dissolved)	mg/l	0.004	ISO 17025	0.007	0.016	0.085	0.073	0.030
Magnesium (dissolved)	mg/l	0.005	ISO 17025	1.1	8.8	0.39	2.8	7.6
Potassium (dissolved)	mg/l	0.025	ISO 17025	33	5.0	5.7	6.8	6.0
Sodium (dissolved)	mg/l	0.01	ISO 17025	100	22	94	50	26

Antimony (dissolved)	µg/l	0.4	ISO 17025	0.9	1.7	0.5	1.3	0.7
Arsenic (dissolved)	µg/l	0.15	ISO 17025	3.57	2.26	1.96	4.23	1.13
Beryllium (dissolved)	µg/l	0.1	ISO 17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.05	< 0.02	0.06	< 0.02	0.04
Chromium (dissolved)	µg/l	0.2	ISO 17025	0.4	2.4	0.3	1.3	2.2
Copper (dissolved)	µg/l	0.5	ISO 17025	2.1	8.9	5.8	2.9	6.5
Lead (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2	0.2	< 0.2	< 0.2
Manganese (dissolved)	µg/l	0.05	ISO 17025	7.8	400	3.7	8.1	120
Mercury (dissolved)	µg/l	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	µg/l	0.5	ISO 17025	5.8	7.3	3.4	1.9	9.1
Selenium (dissolved)	µg/l	0.6	ISO 17025	0.8	0.9	2.5	7.9	1.5
Vanadium (dissolved)	µg/l	0.2	ISO 17025	2.0	1.9	14	2.2	1.0
Zinc (dissolved)	µg/l	0.5	ISO 17025	2.7	12	7.4	1.1	7.1

Monoaromatics & Oxygenates

Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C6 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C35 - C44	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C44)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C35 - C44	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C44)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10



Analytical Report Number: 21-23752

Project / Site name: Colt DCS Data Centre, Hayes

Your Order No: CL3319

Lab Sample Number				2087016	2087017	2087018	2087019	2087020
Sample Reference				BH102B (50mm)	WS205A	BH101	BH104C	BH106
Sample Number				2A	2A	2A	2A	2A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/11/2021	16/11/2021	17/11/2021	17/11/2021	17/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					

VOCs

Chloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0



Analytical Report Number: 21-23752

Project / Site name: Colt DCS Data Centre, Hayes

Your Order No: CL3319

Lab Sample Number				2087016	2087017	2087018	2087019	2087020
Sample Reference				BH102B (50mm)	WS205A	BH101	BH104C	BH106
Sample Number				2A	2A	2A	2A	2A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/11/2021	16/11/2021	17/11/2021	17/11/2021	17/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					
Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

SVOCs

Aniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachloroethane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Isophorone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chloroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dimethylphthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzofuran	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Diethyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Nitroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Azobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Carbazole	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthraquinone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01



Analytical Report Number: 21-23752

Project / Site name: Colt DCS Data Centre, Hayes

Your Order No: CL3319

Lab Sample Number				2087016	2087017	2087018	2087019	2087020
Sample Reference				BH102B (50mm)	WS205A	BH101	BH104C	BH106
Sample Number				2A	2A	2A	2A	2A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/11/2021	16/11/2021	17/11/2021	17/11/2021	17/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3&4-Methylphenol	µg/l	0.1	NONE	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

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

* Result was reported from high dilution and should be interpreted with care



Analytical Report Number : 21-23752

Project / Site name: Colt DCS Data Centre, Hayes

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
Metals in water by ICP-OES (dissolved)	Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW, PrW.(Al, Cu,Fe,Zn).	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.	L080-PL	W	ISO 17025
Total Hardness of water	Determination of hardness in waters by calculation from calcium and magnesium. Accredited Matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L045-PL	W	ISO 17025
Monohydric phenols in water	Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Nitrite in water	Determination of nitrite in water by addition of sulphanilamide and NED followed by discrete analyser (colorimetry).Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Nitrate in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Speciated EPA-16 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L102B-PL	W	ISO 17025
Sulphide in water	Determination of sulphide in water by ion selective electrode.	In-house method	L029-PL	W	NONE
Sulphate in water	Determination of sulphate in water after filtration by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS.	In-house method based on USEPA 8270	L102B-PL	W	NONE
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-PL	W	NONE
Total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Volatile organic compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
Dissolved Organic Carbon in water	Determination of dissolved inorganic carbon in water by TOC/DOC NDIR Analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037-PL	W	ISO 17025
BTEX and MTBE in water (Monoaromatics)	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
Ammoniacal Nitrogen as N in water	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the discrete analyser (colorimetric) salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025



Analytical Report Number : 21-23752

Project / Site name: Colt DCS Data Centre, Hayes

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Nitrite as N in water	Determination of nitrite in water by addition of sulphanilamide and NED followed by discrete analyser (colorimetry). Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Nitrate as N in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
pH at 20oC in water (automated)	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In house method.	L099-PL	W	ISO 17025
TPH in (Water)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding.	L070-PL	W	NONE
Chloride in water	Determination of Chloride (diissolved) colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260. Accredited matrices: SW, PW, GW.	L082-PL	W	ISO 17025
Alkalinity in Water (by discreet analyser)	Determination of Alkalinity by discreet analyser (colorimetry). Accredited matrices: SW, PW, GW.	In house method based on MEWAM & USEPA Method 310.2.	L082-PL	W	ISO 17025

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

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

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

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

**Ana Gonzalez**

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Analytical Report Number : 21-23885

Project / Site name:	Colt DCS Data Centre, Hayes	Samples received on:	19/11/2021
Your job number:	21 3600	Samples instructed on/ Analysis started on:	19/11/2021
Your order number:	CL3323	Analysis completed by:	25/11/2021
Report Issue Number:	1	Report issued on:	25/11/2021
Samples Analysed:	5 water samples		

Signed: *A. Czerwińska*

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

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

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

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

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

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

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



Analytical Report Number: 21-23885

Project / Site name: Colt DCS Data Centre, Hayes

Your Order No: CL3323

Lab Sample Number				2087730	2087731	2087732	2087733	2087734
Sample Reference				BH108	BH103A	WS213	Yeading (upstream)	Yeading (downstream)
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/11/2021	18/11/2021	18/11/2021	18/11/2021	18/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					

General Inorganics

pH	pH Units	N/A	ISO 17025	7.1	7.0	7.3	7.8	7.8
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	40
Sulphate as SO ₄	mg/l	0.045	ISO 17025	35.0	68.1	54.4	125	153
Sulphide	µg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloride	mg/l	0.15	ISO 17025	18	110	15	73	77
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	21	89	1800	280	1400
Dissolved Organic Carbon (DOC)	mg/l	0.1	ISO 17025	5.05	3.46	7.68	7.35	11.2
Nitrate as N	mg/l	0.01	ISO 17025	4.26	2.79	0.63	3.11	3.02
Nitrate as NO ₃	mg/l	0.05	ISO 17025	18.9	12.4	2.79	13.8	13.4
Nitrite as N	µg/l	1	ISO 17025	13	140	9.1	79	73
Nitrite as NO ₂	µg/l	5	ISO 17025	44	460	30	260	240
Alkalinity as CaCO ₃	mg/l	3	ISO 17025	150	360	180	300	260

Hardness - Total	mgCaCO ₃ /l	1	ISO 17025	168	373	167	360	395
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Total Phenols

Total Phenols (monohydric)	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
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Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.16	ISO 17025	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
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Your Order No: CL3323

Lab Sample Number				2087730	2087731	2087732	2087733	2087734
Sample Reference				BH108	BH103A	WS213	Yeading (upstream)	Yeading (downstream)
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/11/2021	18/11/2021	18/11/2021	18/11/2021	18/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					

Heavy Metals / Metalloids

Calcium (dissolved)	mg/l	0.012	ISO 17025	58	120	61	120	130
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Iron (dissolved)	mg/l	0.004	ISO 17025	0.039	0.057	0.011	0.053	0.13
Magnesium (dissolved)	mg/l	0.005	ISO 17025	5.6	16	3.3	17	17
Potassium (dissolved)	mg/l	0.025	ISO 17025	5.4	6.7	6.4	9.1	9.2
Sodium (dissolved)	mg/l	0.01	ISO 17025	27	73	25	53	55

Antimony (dissolved)	µg/l	0.4	ISO 17025	< 0.4	1.1	1.1	1.4	1.3
Arsenic (dissolved)	µg/l	0.15	ISO 17025	1.25	1.06	2.67	2.18	1.81
Beryllium (dissolved)	µg/l	0.1	ISO 17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.03	0.03	0.03	< 0.02	< 0.02
Chromium (dissolved)	µg/l	0.2	ISO 17025	1.7	2.9	1.3	2.3	2.7
Copper (dissolved)	µg/l	0.5	ISO 17025	4.4	1.6	4.9	4.3	3.7
Lead (dissolved)	µg/l	0.2	ISO 17025	< 0.2	0.2	< 0.2	0.9	0.2
Manganese (dissolved)	µg/l	0.05	ISO 17025	63	270	69	21	170
Mercury (dissolved)	µg/l	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	µg/l	0.5	ISO 17025	4.7	9.6	5.1	4.5	6.4
Selenium (dissolved)	µg/l	0.6	ISO 17025	1.1	0.6	< 0.6	0.8	1.7
Vanadium (dissolved)	µg/l	0.2	ISO 17025	0.7	1.4	1.2	2.2	1.5
Zinc (dissolved)	µg/l	0.5	ISO 17025	4.9	13	2.7	20	15

Monoaromatics & Oxygenates

Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C6 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C35 - C44	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C44)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C35 - C44	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C44)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10



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Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/11/2021	18/11/2021	18/11/2021	18/11/2021	18/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					



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Project / Site name: Colt DCS Data Centre, Hayes

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Lab Sample Number				2087730	2087731	2087732	2087733	2087734
Sample Reference				BH108	BH103A	WS213	Yeading (upstream)	Yeading (downstream)
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/11/2021	18/11/2021	18/11/2021	18/11/2021	18/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					

VOCs

Chloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0



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Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/11/2021	18/11/2021	18/11/2021	18/11/2021	18/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					
Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

SVOCs

Aniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachloroethane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Isophorone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chloroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dimethylphthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzofuran	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Diethyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Nitroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Azobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Carbazole	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthraquinone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01



Analytical Report Number: 21-23885

Project / Site name: Colt DCS Data Centre, Hayes

Your Order No: CL3323

Lab Sample Number				2087730	2087731	2087732	2087733	2087734
Sample Reference				BH108	BH103A	WS213	Yeadon (upstream)	Yeadon (downstream)
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/11/2021	18/11/2021	18/11/2021	18/11/2021	18/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3&4-Methylphenol	µg/l	0.1	NONE	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

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



Analytical Report Number : 21-23885

Project / Site name: Colt DCS Data Centre, Hayes

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
Metals in water by ICP-OES (dissolved)	Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW, PrW.(Al, Cu,Fe,Zn).	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.	L080-PL	W	ISO 17025
Total Hardness of water	Determination of hardness in waters by calculation from calcium and magnesium. Accredited Matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L045-PL	W	ISO 17025
Monohydric phenols in water	Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Nitrite in water	Determination of nitrite in water by addition of sulphanilamide and NED followed by discrete analyser (colorimetry).Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Nitrate in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Speciated EPA-16 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L102B-PL	W	ISO 17025
Sulphide in water	Determination of sulphide in water by ion selective electrode.	In-house method	L029-PL	W	NONE
Sulphate in water	Determination of sulphate in water after filtration by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS.	In-house method based on USEPA 8270	L102B-PL	W	NONE
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-PL	W	NONE
Total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Volatile organic compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
Dissolved Organic Carbon in water	Determination of dissolved inorganic carbon in water by TOC/DOC NDIR Analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037-PL	W	ISO 17025
BTEX and MTBE in water (Monoaromatics)	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073B-PL	W	ISO 17025



Analytical Report Number : 21-23885

Project / Site name: Colt DCS Data Centre, Hayes

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in water	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the discrete analyser (colorimetric) salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Nitrite as N in water	Determination of nitrite in water by addition of sulphanilamide and NED followed by discrete analyser (colorimetry). Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Nitrate as N in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
pH at 20oC in water (automated)	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In house method.	L099-PL	W	ISO 17025
TPH in (Water)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding.	L070-PL	W	NONE
Chloride in water	Determination of Chloride (diissolved) colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260. Accredited matrices: SW, PW, GW.	L082-PL	W	ISO 17025
Alkalinity in Water (by discreet analyser)	Determination of Alkalinity by discreet analyser (colorimetry). Accredited matrices: SW, PW, GW.	In house method based on MEWAM & USEPA Method 310.2.	L082-PL	W	ISO 17025

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

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

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

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

CERTIFICATE OF ANALYSIS



Environmental Science

MULTI-SAMPLE REPORT REFERENCE	REGISTERED DATE	RECEIVED DATE	ANALYSIS STARTED	ANALYSIS COMPLETE
2021-08-23-10:23:18	04/11/2021	04/11/2021	04/11/2021	08/11/2021

LABORATORY

i2 Analytical
Croxley Green Business Park
7 Woodshots Meadow
Watford
WD18 8YS

CUSTOMER

Concept Engineering Consultants Ltd
Unit 8 Warple Mews
Warple Way
London
W3 0RF

PO NUMBER	CL3265	CLIENT SITE	Colt DCS Data Centre, Hayes
DATE SAMPLED (DD/MM/YY)	02/11/2021	CLIENT CODE	21/3600

Matrix: Gas Bag

Determinand	Technique	LOD	Accreditation	i2 Sample Number	298762	298763
				Sample Reference	WS201	WS214
Carbon Dioxide	T385	125.0 ppmv	None		41000	3700
Carbon Monoxide	T385	125.0 ppmv	UKAS		< 125.0	< 125.0
Ethane	T385	5.0 ppmv	UKAS		< 5.0	< 5.0
Hydrogen	T385	32.0 ppmv	UKAS		< 32.0	< 32.0
Methane	T385	5.0 ppmv	UKAS		< 5.0	9.6
Nitrogen	T385	5.0 %	None		83	89
Oxygen / Argon	T385	5.0 %	None		17	14

Technical Reviewer	Role
Mrs Kathryn Gleaves	Customer Services



4041

Extra Testing Information

Technique Code	Technique Name	Samples
T385	L108B-RGA	298762, 298763

Testing Location	Samples
All analysis was carried out at i2 Analytical (Poland), i2 Analytical Limited Sp z o.o, Oddział w Polsce, ul.Pionierow 39, 41-711 Ruda Slaska, Poland	298762, 298763

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Tests covered by this certificate were conducted in accordance with i2 Analytical's SOPs.
Note: All assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement of uncertainty can be provided on request.
This is a simplified test report
This certificate should not be reproduced, except in full, without the express permission of the laboratory.
Results in black are positive/detected results. Results in gray are below the LOD or have not been found.
LOD = Limit of Determination. This is the lowest reportable limit of the test.

CERTIFICATE OF ANALYSIS



Environmental Science

MULTI-SAMPLE REPORT REFERENCE	REGISTERED DATE	RECEIVED DATE	ANALYSIS STARTED	ANALYSIS COMPLETE
2021-22-50-09:50:03	04/11/2021	04/11/2021	04/11/2021	19/11/2021

LABORATORY

i2 Analytical
Croxley Green Business Park
7 Woodshots Meadow
Watford
WD18 8YS

CUSTOMER

Concept Engineering Consultants Ltd
Unit 8 Warple Mews
Warple Way
London
W3 0RF

PO NUMBER	CL3265	CLIENT SITE	Colt DCS Data Centre, Hayes
DATE SAMPLED (DD/MM/YY)	02/11/2021	CLIENT CODE	21/3600

Matrix: Gas Bag

Determinand	Technique	LOD	Accreditation	i2 Sample Number	298764	298765
				Sample Reference	WS201	WS214
Hydrogen Sulphide	T437	0.01 %	None	< 0.01	< 0.01	< 0.01

Technical Reviewer Role

Mr Andy Warburton Media Preparation and Technical Support

Extra Testing Information

Technique Code	Technique Name	Samples
T437	GC/TCD/FID-Subcon	298764, 298765

Testing Location	Samples
All analysis was carried out at Marchwood Scientific Services, Unit 5 Smithfold Lane, Worsley, Manchester, M28 0GP	298764, 298765

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Tests covered by this certificate were conducted in accordance with i2 Analytical's SOPs.

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

This is a simplified test report

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Results in black are positive/detected results. Results in gray are below the LOD or have not been found.

LOD = Limit of Determination. This is the lowest reportable limit of the test.

CERTIFICATE OF ANALYSIS



Environmental Science

MULTI-SAMPLE REPORT REFERENCE	REGISTERED DATE	RECEIVED DATE	ANALYSIS STARTED	ANALYSIS COMPLETE
2021-30-35-10:35:07	12/11/2021	12/11/2021	12/11/2021	29/11/2021

LABORATORY

i2 Analytical
Croxley Green Business Park
7 Woodshots Meadow
Watford
WD18 8YS

CUSTOMER

Concept Engineering Consultants Ltd
Unit 8 Warple Mews
Warple Way
London
W3 0RF

SAMPLE REFERENCE	WS201	CLIENT SITE	Colt DCS Data Centre, Hayes
PO NUMBER	CL3295	CLIENT CODE	21/3600
DATE SAMPLED (DD/MM/YY)	10/11/2021		

Matrix: Gas Bag

Determinand	Technique	LOD	i2 Sample Number	302779
Hydrogen Sulphide	T437	0.01 %	None	< 0.01

Technical Reviewer Role

Mr Andy Warburton Media Preparation and Technical Support

Extra Testing Information

Technique Code	Technique Name	Samples
T437	GC/TCD/FID-Subcon	302779

Testing Location	Samples
All analysis was carried out at Marchwood Scientific Services, Unit 5 Smithfold Lane, Worsley, Manchester, M28 0GP	302779

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Tests covered by this certificate were conducted in accordance with i2 Analytical's SOPs.

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

This is a simplified test report

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Results in black are positive/detected results. Results in gray are below the LOD or have not been found.

LOD = Limit of Determination. This is the lowest reportable limit of the test.

CERTIFICATE OF ANALYSIS



Environmental Science

MULTI-SAMPLE REPORT REFERENCE	REGISTERED DATE	RECEIVED DATE	ANALYSIS STARTED	ANALYSIS COMPLETE
2021-17-32-10:32:25	12/11/2021	12/11/2021	12/11/2021	15/11/2021

LABORATORY

i2 Analytical
Croxley Green Business Park
7 Woodshots Meadow
Watford
WD18 8YS

CUSTOMER

Concept Engineering Consultants Ltd
Unit 8 Warple Mews
Warple Way
London
W3 0RF

SAMPLE REFERENCE	WS201	CLIENT SITE	Colt DCS Data Centre, Hayes
PO NUMBER	CL3295	CLIENT CODE	21/3600
DATE SAMPLED (DD/MM/YY)	10/11/2021		

Matrix: Gas Bag

Determinand	Technique	LOD	i2 Sample Number	302778
			Accreditation	
Carbon Dioxide	T385	125.0 ppmv	None	49000 ³⁵³
Carbon Monoxide	T385	125.0 ppmv	UKAS	< 125.0
Ethane	T385	5.0 ppmv	UKAS	< 5.0
Hydrogen	T385	32.0 ppmv	UKAS	< 32.0
Methane	T385	5.0 ppmv	UKAS	< 5.0
Nitrogen	T385	5.0 %	None	80
Oxygen / Argon	T385	5.0 %	None	16

Technical Reviewer	Role
Mrs Jeanette Abbott	Customer Service Manager



4041

Extra Testing Information

Technique Code	Technique Name	Samples
T385	L108B-RGA	302778

Testing Location	Samples
All analysis was carried out at i2 Analytical (Poland), i2 Analytical Limited Sp z o.o, Oddział w Polsce, ul.Pionierow 39, 41-711 Ruda Slaska, Poland	302778

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Tests covered by this certificate were conducted in accordance with i2 Analytical's SOPs.

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

This is a simplified test report

This certificate should not be reproduced, except in full, without the express permission of the laboratory.

Results in black are positive/detected results. Results in gray are below the LOD or have not been found.

LOD = Limit of Determination. This is the lowest reportable limit of the test.

353 - Analysis exceeds calibration range of instrument.

**Ana Gonzalez**

Concept Engineering Consultants Ltd
Unit 8 Warple Mews
Marple Way
London
W3 0RF

t: -**f:** -**e:** ana.gonzalez@conceptconsultants.co.uk

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

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

Analytical Report Number : 2953 / 21-23718

Project / Site name:	Colt DCS Data Centre, Hayes	Samples received on:	19/11/2021
Your job number:	21/3600	Samples instructed on/ Analysis started on:	19/11/2021
Your order number:	CL3308	Analysis completed by:	25/11/2021
Report Issue Number:	1	Report issued on:	26/11/2021
Samples Analysed:	3 gases samples		

Signed: 

Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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

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



Report Number 2953 / 21-23718
Order number CL3308

Sample Number 2086868 Sample date 11/11/2021
Sample ID WS206 (306426) Sample Start Time -
Depth Sample Stop Time -

Canister Number 1568 Initial Pressure (PSI) -13.61
Sample Volume 5200 Final Pressure (PSI) -0.88
Dilution 3.12

CAS #	Compound Name	Accreditation	LoD	Result	Units #	LoD	Result	Units
71-55-6	1,1,1-Trichloroethane	ISO 17025	2.8	< 2.8	µg/m3	0.5	< 0.5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	ISO 17025	3.5	< 3.5	µg/m3	0.5	< 0.5	ppbv
79-00-5	1,1,2-Trichloroethane	ISO 17025	2.8	< 2.8	µg/m3	0.5	< 0.5	ppbv
75-35-4	1,1-Dichloroethene	ISO 17025	2	< 2.0	µg/m3	0.5	< 0.5	ppbv
75-34-3	1,1-Dichloroethane	ISO 17025	2.1	< 2.1	µg/m3	0.5	< 0.5	ppbv
120-82-1	1,2,4-Trichlorobenzene (1)	ISO 17025	3.8	< 3.8	µg/m3	0.5	< 0.5	ppbv
95-63-6	1,2,4-Trimethylbenzene	ISO 17025	2.5	5.4	µg/m3	0.5	1.1	ppbv
106-93-4	1,2-Dibromoethane	ISO 17025	3.9	< 3.9	µg/m3	0.5	< 0.5	ppbv
95-50-1	1,2-Dichlorobenzene	ISO 17025	3.1	< 3.1	µg/m3	0.5	< 0.5	ppbv
107-06-2	1,2-Dichloroethane	ISO 17025	2	< 2.0	µg/m3	0.5	< 0.5	ppbv
78-87-5	1,2-Dichloropropane	ISO 17025	2.4	< 2.4	µg/m3	0.5	< 0.5	ppbv
106-99-0	1,3-Butadiene	ISO 17025	1.1	< 1.1	µg/m3	0.5	< 0.5	ppbv
541-73-1	1,3-Dichlorobenzene	ISO 17025	3.1	< 3.1	µg/m3	0.5	< 0.5	ppbv
106-46-7	1,4-Dichlorobenzene	ISO 17025	3.1	< 3.1	µg/m3	0.5	< 0.5	ppbv
123-91-1	1,4-Dioxane	ISO 17025	1.8	< 1.8	µg/m3	0.5	< 0.5	ppbv
622-96-8	4-Ethyltoluene	ISO 17025	2.5	< 2.5	µg/m3	0.5	< 0.5	ppbv
67-64-1	Acetone	ISO 17025	3.6	41	µg/m3	1.5	17	ppbv
107-02-8	Acrolein	ISO 17025	1.2	11	µg/m3	0.5	4.6	ppbv
75-27-4	Bromodichloromethane	ISO 17025	3.4	< 3.4	µg/m3	0.5	< 0.5	ppbv
100-44-7	Benzyl chloride	ISO 17025	2.6	< 2.6	µg/m3	0.5	< 0.5	ppbv
71-43-2	Benzene	ISO 17025	1	1.9	µg/m3	0.3	0.6	ppbv
74-83-9	Bromomethane	ISO 17025	2	< 2.0	µg/m3	0.5	< 0.5	ppbv
156-59-2	Cis-1,2-dichloroethene	ISO 17025	2	< 2.0	µg/m3	0.5	< 0.5	ppbv
10061-01-5	Cis-1,3-dichloropropene	ISO 17025	2.3	< 2.3	µg/m3	0.5	< 0.5	ppbv
108-90-7	Chlorobenzene	ISO 17025	2.3	< 2.3	µg/m3	0.5	< 0.5	ppbv
56-23-5	Carbon tetrachloride	ISO 17025	3.2	< 3.2	µg/m3	0.5	< 0.5	ppbv
75-15-0	Carbon disulphide	ISO 17025	1.6	6.5	µg/m3	0.5	2.1	ppbv
75-00-3	Chloroethane	ISO 17025	1.3	< 1.3	µg/m3	0.5	< 0.5	ppbv
67-66-3	Chloroform	ISO 17025	2.5	4.8	µg/m3	0.5	1	ppbv
74-87-3	Chloromethane	ISO 17025	1	< 1.0	µg/m3	0.5	< 0.5	ppbv
110-82-7	Cyclohexane	ISO 17025	1.8	< 1.8	µg/m3	0.5	< 0.5	ppbv
124-48-1	Dibromochloromethane	ISO 17025	4.3	< 4.3	µg/m3	0.5	< 0.5	ppbv
75-71-8	Dichlorodifluoromethane	ISO 17025	2.5	< 2.5	µg/m3	0.5	< 0.5	ppbv
75-09-2	Dichloromethane	ISO 17025	5.3	11	µg/m3	1.5	3.1	ppbv
76-14-2	Dichlorotetrafluoroethane	ISO 17025	3.6	< 3.6	µg/m3	0.5	< 0.5	ppbv
141-78-6	Ethyl acetate	ISO 17025	1.8	< 1.8	µg/m3	0.5	< 0.5	ppbv
100-41-4	Ethylbenzene	ISO 17025	1.3	< 1.3	µg/m3	0.3	< 0.3	ppbv
64-17-5	Ethanol	ISO 17025	2.9	< 2.9	µg/m3	1.5	< 1.5	ppbv
87-68-3	Hexachlorobutadiene(1)	ISO 17025	5.4	< 5.4	µg/m3	0.5	< 0.5	ppbv
142-82-5	Heptane	ISO 17025	2.1	< 2.1	µg/m3	0.5	< 0.5	ppbv
110-54-3	Hexane	ISO 17025	1.8	4.5	µg/m3	0.5	1.2	ppbv
67-63-0	Isopropyl alcohol	ISO 17025	1.3	< 1.3	µg/m3	0.5	< 0.5	ppbv
591-78-6	2-Hexanone (MBK)	ISO 17025	2.1	< 2.1	µg/m3	0.5	< 0.5	ppbv
78-93-3	MEK	ISO 17025	1.5	14	µg/m3	0.5	4.5	ppbv
80-62-6	Methyl methacrylate	ISO 17025	2.1	< 2.1	µg/m3	0.5	< 0.5	ppbv
108-10-1	MIBK	ISO 17025	2.1	< 2.1	µg/m3	0.5	< 0.5	ppbv
1634-04-4	MTBE	ISO 17025	1.8	< 1.8	µg/m3	0.5	< 0.5	ppbv
95-47-6	O-xylene	ISO 17025	1.3	< 1.3	µg/m3	0.3	< 0.3	ppbv
	M/p-xylene	ISO 17025	1.3	2.1	µg/m3	0.3	0.5	ppbv
115-07-1	Propene	ISO 17025	0.9	< 0.9	µg/m3	0.5	< 0.5	ppbv
100-42-5	Styrene	ISO 17025	2.2	2.5	µg/m3	0.5	0.6	ppbv
156-60-5	Trans-1,2-dichloroethene	ISO 17025	2	< 2.0	µg/m3	0.5	< 0.5	ppbv
1061-02-6	Trans-1,3-dichloropropene	ISO 17025	2.3	< 2.3	µg/m3	0.5	< 0.5	ppbv
75-25-2	Bromoform	ISO 17025	5.3	< 5.3	µg/m3	0.5	< 0.5	ppbv
79-01-6	Trichloroethene	ISO 17025	2.7	< 2.7	µg/m3	0.5	< 0.5	ppbv
75-69-4	Trichlorofluoromethane	ISO 17025	2.9	4.6	µg/m3	0.5	0.8	ppbv
76-13-1	Trichlorotrifluoroethane	ISO 17025	3.9	< 3.9	µg/m3	0.5	< 0.5	ppbv
127-18-4	Tetrachloroethene	ISO 17025	3.5	< 3.5	µg/m3	0.5	< 0.5	ppbv
109-99-9	THF	ISO 17025	1.5	31	µg/m3	0.5	10	ppbv
108-67-8	1,3,5-Trimethylbenzene	ISO 17025	2.5	< 2.5	µg/m3	0.5	< 0.5	ppbv
108-88-3	Toluene	ISO 17025	1.2	2.1	µg/m3	0.3	0.6	ppbv
108-05-4	Vinyl acetate	ISO 17025	1.8	< 1.8	µg/m3	0.5	< 0.5	ppbv
75-01-4	Vinyl chloride	ISO 17025	1.3	< 1.3	µg/m3	0.5	< 0.5	ppbv
91-20-3	Naphthalene (1)	ISO 17025	2.7	< 2.7	µg/m3	0.5	< 0.5	ppbv

- results in ug/m3 outside the scope of accreditation

(1)- AQC for this analyte was outside of acceptance limits and accreditation has been removed. Result should be viewed with caution.

CAS #	Compound Name	Accreditation	LoD	Result	Units	LoD	Result	Units
79-00-5	TPH Aliphatic C5-C6	NONE	30	< 30	µg/m3			



Report Number 2953 / 21-23718
Order number CL3308

Sample Number 2086868 Sample date 11/11/2021
Sample ID WS206 (306426) Sample Start Time -
Depth Sample Stop Time -

Canister Number 1568 Initial Pressure (PSI) -13.61
Sample Volume 5200 Final Pressure (PSI) -0.88
Dilution 3.12

75-35-4	TPH Aliphatic C6-C8	NONE	30	< 30	µg/m3			
75-34-3	TPH Aliphatic C8-C10	NONE	30	280	µg/m3			
120-82-1	TPH Aromatic C6-C7	NONE	30	< 30	µg/m3			
95-63-6	TPH Aromatic C7-C8	NONE	30	< 30	µg/m3			
106-93-4	TPH Aromatic C8-C10	NONE	30	< 30	µg/m3			
	TPH >C10-C12	ISO 17025	30	< 30	ug/m3			
	PRO >C5-C12	ISO 17025	30	330	ug/m3	5	54	ppbv
	TPH >C5-C6	ISO 17025	30	< 30	ug/m3			
	TPH >C6-C8	ISO 17025	30	< 30	ug/m3			
	TPH >C8-C10	ISO 17025	30	290	ug/m3			

			VOC TICS		
CAS #	Compound Name	Accreditation	Compound Name	% Match	Amount (ppbv)
	VOC TIC Match 1	None	Methylal	90	19
	VOC TIC Match 2	None	2-Butanone	90	1.1
	VOC TIC Match 3	None	Pentanal	90	1
	VOC TIC Match 4	None	Cyclopentanone	95	3.9
	VOC TIC Match 5	None	2,2,4,6,6-pentamethyl-Heptane	95	21
	VOC TIC Match 6	None	2,2,4,4-Tetramethyloctane	94	2.1
	VOC TIC Match 7	None	ND	-	-
	VOC TIC Match 8	None	ND	-	-
	VOC TIC Match 9	None	ND	-	-
	VOC TIC Match 10	None	ND	-	-



Report Number 2953 / 21-23718
Order number CL3308

Sample Number 2086869
Sample ID WS207C (306427)
Depth

Sample date 11/11/2021
Sample Start Time -
Sample Stop Time -

Canister Number 1325
Sample Volume 5400
Initial Pressure (PSI) -13.31
Final Pressure (PSI) 0.00
Dilution 3.07

CAS #	Compound Name	Accreditation	LoD	Result	Units #	LoD	Result	Units
71-55-6	1,1,1-Trichloroethane	ISO 17025	2.8	< 2.8	µg/m3	0.5	< 0.5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	ISO 17025	3.5	< 3.5	µg/m3	0.5	< 0.5	ppbv
79-00-5	1,1,2-Trichloroethane	ISO 17025	2.8	< 2.8	µg/m3	0.5	< 0.5	ppbv
75-35-4	1,1-Dichloroethene	ISO 17025	2	< 2.0	µg/m3	0.5	< 0.5	ppbv
75-34-3	1,1-Dichloroethane	ISO 17025	2.1	< 2.1	µg/m3	0.5	< 0.5	ppbv
120-82-1	1,2,4-Trichlorobenzene(1)	ISO 17025	3.8	< 3.8	µg/m3	0.5	< 0.5	ppbv
95-63-6	1,2,4-Trimethylbenzene	ISO 17025	2.5	< 2.5	µg/m3	0.5	< 0.5	ppbv
106-93-4	1,2-Dibromoethane	ISO 17025	3.9	< 3.9	µg/m3	0.5	< 0.5	ppbv
95-50-1	1,2-Dichlorobenzene	ISO 17025	3.1	< 3.1	µg/m3	0.5	< 0.5	ppbv
107-06-2	1,2-Dichloroethane	ISO 17025	2	< 2.0	µg/m3	0.5	< 0.5	ppbv
78-87-5	1,2-Dichloropropane	ISO 17025	2.4	< 2.4	µg/m3	0.5	< 0.5	ppbv
106-99-0	1,3-Butadiene	ISO 17025	1.1	< 1.1	µg/m3	0.5	< 0.5	ppbv
541-73-1	1,3-Dichlorobenzene	ISO 17025	3.1	< 3.1	µg/m3	0.5	< 0.5	ppbv
106-46-7	1,4-Dichlorobenzene	ISO 17025	3.1	< 3.1	µg/m3	0.5	< 0.5	ppbv
123-91-1	1,4-Dioxane	ISO 17025	1.8	< 1.8	µg/m3	0.5	< 0.5	ppbv
622-96-8	4-Ethyltoluene	ISO 17025	2.5	< 2.5	µg/m3	0.5	< 0.5	ppbv
67-64-1	Acetone	ISO 17025	3.6	19	µg/m3	1.5	7.9	ppbv
107-02-8	Acrolein	ISO 17025	1.2	< 1.2	µg/m3	0.5	< 0.5	ppbv
75-27-4	Bromodichloromethane	ISO 17025	3.4	< 3.4	µg/m3	0.5	< 0.5	ppbv
100-44-7	Benzyl chloride	ISO 17025	2.6	< 2.6	µg/m3	0.5	< 0.5	ppbv
71-43-2	Benzene	ISO 17025	1	< 1.0	µg/m3	0.3	< 0.3	ppbv
74-83-9	Bromomethane	ISO 17025	2	< 2.0	µg/m3	0.5	< 0.5	ppbv
156-59-2	Cis-1,2-dichloroethene	ISO 17025	2	< 2.0	µg/m3	0.5	< 0.5	ppbv
10061-01-5	Cis-1,3-dichloropropene	ISO 17025	2.3	< 2.3	µg/m3	0.5	< 0.5	ppbv
108-90-7	Chlorobenzene	ISO 17025	2.3	< 2.3	µg/m3	0.5	< 0.5	ppbv
56-23-5	Carbon tetrachloride	ISO 17025	3.2	< 3.2	µg/m3	0.5	< 0.5	ppbv
75-15-0	Carbon disulphide	ISO 17025	1.6	7.2	µg/m3	0.5	2.3	ppbv
75-00-3	Chloroethane	ISO 17025	1.3	< 1.3	µg/m3	0.5	< 0.5	ppbv
67-66-3	Chloroform	ISO 17025	2.5	< 2.5	µg/m3	0.5	< 0.5	ppbv
74-87-3	Chloromethane	ISO 17025	1	< 1.0	µg/m3	0.5	< 0.5	ppbv
110-82-7	Cyclohexane	ISO 17025	1.8	< 1.8	µg/m3	0.5	< 0.5	ppbv
124-48-1	Dibromochloromethane	ISO 17025	4.3	< 4.3	µg/m3	0.5	< 0.5	ppbv
75-71-8	Dichlorodifluoromethane	ISO 17025	2.5	2.8	µg/m3	0.5	0.6	ppbv
75-09-2	Dichloromethane	ISO 17025	5.3	7.7	µg/m3	1.5	2.2	ppbv
76-14-2	Dichlorotetrafluoroethane	ISO 17025	3.6	< 3.6	µg/m3	0.5	< 0.5	ppbv
141-78-6	Ethyl acetate	ISO 17025	1.8	< 1.8	µg/m3	0.5	< 0.5	ppbv
100-41-4	Ethylbenzene	ISO 17025	1.3	< 1.3	µg/m3	0.3	< 0.3	ppbv
64-17-5	Ethanol	ISO 17025	2.9	3.7	µg/m3	1.5	1.9	ppbv
87-68-3	Hexachlorobutadiene (1)	ISO 17025	5.4	< 5.4	µg/m3	0.5	< 0.5	ppbv
142-82-5	Heptane	ISO 17025	2.1	< 2.1	µg/m3	0.5	< 0.5	ppbv
110-54-3	Hexane	ISO 17025	1.8	4.1	µg/m3	0.5	1.2	ppbv
67-63-0	Isopropyl alcohol	ISO 17025	1.3	< 1.3	µg/m3	0.5	< 0.5	ppbv
591-78-6	2-Hexanone (MBK)	ISO 17025	2.1	< 2.1	µg/m3	0.5	< 0.5	ppbv
78-93-3	MEK	ISO 17025	1.5	3.2	µg/m3	0.5	1.1	ppbv
80-62-6	Methyl methacrylate	ISO 17025	2.1	< 2.1	µg/m3	0.5	< 0.5	ppbv
108-10-1	MIBK	ISO 17025	2.1	< 2.1	µg/m3	0.5	< 0.5	ppbv
1634-04-4	MTBE	ISO 17025	1.8	< 1.8	µg/m3	0.5	< 0.5	ppbv
95-47-6	O-xylene	ISO 17025	1.3	< 1.3	µg/m3	0.3	< 0.3	ppbv
	m/p-xylene	ISO 17025	1.3	< 1.3	µg/m3	0.3	< 0.3	ppbv
115-07-1	Propene	ISO 17025	0.9	< 0.9	µg/m3	0.5	< 0.5	ppbv
100-42-5	Styrene	ISO 17025	2.2	< 2.2	µg/m3	0.5	< 0.5	ppbv
156-60-5	Trans-1,2-dichloroethene	ISO 17025	2	< 2.0	µg/m3	0.5	< 0.5	ppbv
1061-02-6	Trans-1,3-dichloropropene	ISO 17025	2.3	< 2.3	µg/m3	0.5	< 0.5	ppbv
75-25-2	Bromoform	ISO 17025	5.3	< 5.3	µg/m3	0.5	< 0.5	ppbv
79-01-6	Trichloroethene	ISO 17025	2.7	< 2.7	µg/m3	0.5	< 0.5	ppbv
75-69-4	Trichlorofluoromethane	ISO 17025	2.9	< 2.9	µg/m3	0.5	< 0.5	ppbv
76-13-1	Trichlorotrifluoroethane	ISO 17025	3.9	< 3.9	µg/m3	0.5	< 0.5	ppbv
127-18-4	Tetrachloroethene	ISO 17025	3.5	< 3.5	µg/m3	0.5	< 0.5	ppbv
109-99-9	THF	ISO 17025	1.5	16	µg/m3	0.5	5.3	ppbv
108-67-8	1,3,5-Trimethylbenzene	ISO 17025	2.5	< 2.5	µg/m3	0.5	< 0.5	ppbv
108-88-3	Toluene	ISO 17025	1.2	1.3	µg/m3	0.3	0.3	ppbv
108-05-4	Vinyl acetate	ISO 17025	1.8	< 1.8	µg/m3	0.5	< 0.5	ppbv
75-01-4	Vinyl chloride	ISO 17025	1.3	< 1.3	µg/m3	0.5	< 0.5	ppbv
91-20-3	Naphthalene (1)	ISO 17025	2.7	< 2.7	µg/m3	0.5	< 0.5	ppbv

- results in ug/m3 outside the scope of accreditation

(1)- AQC for this analyte was outside of acceptance limits and accreditation has been removed. Result should be viewed with caution.

CAS #	Compound Name	Accreditation	LoD	Result	Units	LoD	Result	Units
79-00-5	TPH Aliphatic C5-C6	NONE	30	< 30	µg/m3			



Report Number 2953 / 21-23718
Order number CL3308

Sample Number 2086869 Sample date 11/11/2021
Sample ID WS207C (306427) Sample Start Time -
Depth Sample Stop Time -

Canister Number 1325 Initial Pressure (PSI) -13.31
Sample Volume 5400 Final Pressure (PSI) 0.00
Dilution 3.07

75-35-4	TPH Aliphatic C6-C8	NONE	30	< 30	µg/m3			
75-34-3	TPH Aliphatic C8-C10	NONE	30	240	µg/m3			
120-82-1	TPH Aromatic C6-C7	NONE	30	< 30	µg/m3			
95-63-6	TPH Aromatic C7-C8	NONE	30	< 30	µg/m3			
106-93-4	TPH Aromatic C8-C10	NONE	30	< 30	µg/m3			
	TPH >C10-C12	ISO 17025	30	< 30	ug/m3			
	PRO >C5-C12	ISO 17025	30	280	ug/m3	5	45	ppbv
	TPH >C5-C6	ISO 17025	30	< 30	ug/m3			
	TPH >C6-C8	ISO 17025	30	< 30	ug/m3			
	TPH >C8-C10	ISO 17025	30	250	ug/m3			

CAS #	Compound Name	Accreditation	VOC TICS		
			Compound Name	% Match	Amount (ppbv)
	VOC TIC Match 1	None	Cyclopentanone	93	3.3
	VOC TIC Match 2	None	2,2,4,6,6-pentamethyl-Heptane	93	18
	VOC TIC Match 3	None	2,2,4,4-Tetramethyloctane	94	1.8
	VOC TIC Match 4	None	ND	-	-
	VOC TIC Match 5	None	ND	-	-
	VOC TIC Match 6	None	ND	-	-
	VOC TIC Match 7	None	ND	-	-
	VOC TIC Match 8	None	ND	-	-
	VOC TIC Match 9	None	ND	-	-
	VOC TIC Match 10	None	ND	-	-



Report Number 2953 / 21-23718
Order number CL3308

Sample Number 2086870 Sample date 11/11/2021
Sample ID BH106 (306428) Sample Start Time -
Depth Sample Stop Time -

Canister Number 1551 Initial Pressure (PSI) -13.46
Sample Volume 5500 Final Pressure (PSI) 0.00
Dilution 2.99

CAS #	Compound Name	Accreditation	LoD	Result	Units #	LoD	Result	Units
71-55-6	1,1,1-Trichloroethane	ISO 17025	2.8	< 2.8	µg/m3	0.5	< 0.5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	ISO 17025	3.5	< 3.5	µg/m3	0.5	< 0.5	ppbv
79-00-5	1,1,2-Trichloroethane	ISO 17025	2.8	< 2.8	µg/m3	0.5	< 0.5	ppbv
75-35-4	1,1-Dichloroethene	ISO 17025	2	< 2.0	µg/m3	0.5	< 0.5	ppbv
75-34-3	1,1-Dichloroethane	ISO 17025	2.1	< 2.1	µg/m3	0.5	< 0.5	ppbv
120-82-1	1,2,4-Trichlorobenzene(1)	ISO 17025	3.8	< 3.8	µg/m3	0.5	< 0.5	ppbv
95-63-6	1,2,4-Trimethylbenzene	ISO 17025	2.5	2.8	µg/m3	0.5	0.6	ppbv
106-93-4	1,2-Dibromoethane	ISO 17025	3.9	< 3.9	µg/m3	0.5	< 0.5	ppbv
95-50-1	1,2-Dichlorobenzene	ISO 17025	3.1	< 3.1	µg/m3	0.5	< 0.5	ppbv
107-06-2	1,2-Dichloroethane	ISO 17025	2	< 2.0	µg/m3	0.5	< 0.5	ppbv
78-87-5	1,2-Dichloropropane	ISO 17025	2.4	< 2.4	µg/m3	0.5	< 0.5	ppbv
106-99-0	1,3-Butadiene	ISO 17025	1.1	< 1.1	µg/m3	0.5	< 0.5	ppbv
541-73-1	1,3-Dichlorobenzene	ISO 17025	3.1	< 3.1	µg/m3	0.5	< 0.5	ppbv
106-46-7	1,4-Dichlorobenzene	ISO 17025	3.1	< 3.1	µg/m3	0.5	< 0.5	ppbv
123-91-1	1,4-Dioxane	ISO 17025	1.8	< 1.8	µg/m3	0.5	< 0.5	ppbv
622-96-8	4-Ethyltoluene	ISO 17025	2.5	< 2.5	µg/m3	0.5	< 0.5	ppbv
67-64-1	Acetone	ISO 17025	3.6	14	µg/m3	1.5	5.9	ppbv
107-02-8	Acrolein	ISO 17025	1.2	< 1.2	µg/m3	0.5	< 0.5	ppbv
75-27-4	Bromodichloromethane	ISO 17025	3.4	< 3.4	µg/m3	0.5	< 0.5	ppbv
100-44-7	Benzyl chloride	ISO 17025	2.6	< 2.6	µg/m3	0.5	< 0.5	ppbv
71-43-2	Benzene	ISO 17025	1	1.4	µg/m3	0.3	0.4	ppbv
74-83-9	Bromomethane	ISO 17025	2	< 2.0	µg/m3	0.5	< 0.5	ppbv
156-59-2	Cis-1,2-dichloroethene	ISO 17025	2	< 2.0	µg/m3	0.5	< 0.5	ppbv
10061-01-5	Cis-1,3-dichloropropene	ISO 17025	2.3	< 2.3	µg/m3	0.5	< 0.5	ppbv
108-90-7	Chlorobenzene	ISO 17025	2.3	< 2.3	µg/m3	0.5	< 0.5	ppbv
56-23-5	Carbon tetrachloride	ISO 17025	3.2	< 3.2	µg/m3	0.5	< 0.5	ppbv
75-15-0	Carbon disulphide	ISO 17025	1.6	18	µg/m3	0.5	5.6	ppbv
75-00-3	Chloroethane	ISO 17025	1.3	< 1.3	µg/m3	0.5	< 0.5	ppbv
67-66-3	Chloroform	ISO 17025	2.5	2.8	µg/m3	0.5	0.6	ppbv
74-87-3	Chloromethane	ISO 17025	1	< 1.0	µg/m3	0.5	< 0.5	ppbv
110-82-7	Cyclohexane	ISO 17025	1.8	< 1.8	µg/m3	0.5	< 0.5	ppbv
124-48-1	Dibromochloromethane	ISO 17025	4.3	< 4.3	µg/m3	0.5	< 0.5	ppbv
75-71-8	Dichlorodifluoromethane	ISO 17025	2.5	< 2.5	µg/m3	0.5	< 0.5	ppbv
75-09-2	Dichloromethane	ISO 17025	5.3	12	µg/m3	1.5	3.4	ppbv
76-14-2	Dichlorotetrafluoroethane	ISO 17025	3.6	< 3.6	µg/m3	0.5	< 0.5	ppbv
141-78-6	Ethyl acetate	ISO 17025	1.8	2.5	µg/m3	0.5	0.7	ppbv
100-41-4	Ethylbenzene	ISO 17025	1.3	1.4	µg/m3	0.3	0.3	ppbv
64-17-5	Ethanol	ISO 17025	2.9	< 2.9	µg/m3	1.5	< 1.5	ppbv
87-68-3	Hexachlorobutadiene (1)	ISO 17025	5.4	< 5.4	µg/m3	0.5	< 0.5	ppbv
142-82-5	Heptane	ISO 17025	2.1	< 2.1	µg/m3	0.5	< 0.5	ppbv
110-54-3	Hexane	ISO 17025	1.8	4.5	µg/m3	0.5	1.3	ppbv
67-63-0	Isopropyl alcohol	ISO 17025	1.3	< 1.3	µg/m3	0.5	< 0.5	ppbv
591-78-6	2-Hexanone (MBK)	ISO 17025	2.1	< 2.1	µg/m3	0.5	< 0.5	ppbv
78-93-3	MEK	ISO 17025	1.5	3.1	µg/m3	0.5	1	ppbv
80-62-6	Methyl methacrylate	ISO 17025	2.1	< 2.1	µg/m3	0.5	< 0.5	ppbv
108-10-1	MIBK	ISO 17025	2.1	< 2.1	µg/m3	0.5	< 0.5	ppbv
1634-04-4	MTBE	ISO 17025	1.8	< 1.8	µg/m3	0.5	< 0.5	ppbv
95-47-6	O-xylene	ISO 17025	1.3	< 1.3	µg/m3	0.3	< 0.3	ppbv
	M/p-xylene	ISO 17025	1.3	3	µg/m3	0.3	0.7	ppbv
115-07-1	Propene	ISO 17025	0.9	< 0.9	µg/m3	0.5	< 0.5	ppbv
100-42-5	Styrene	ISO 17025	2.2	5.9	µg/m3	0.5	1.4	ppbv
156-60-5	Trans-1,2-dichloroethene	ISO 17025	2	< 2.0	µg/m3	0.5	< 0.5	ppbv
1061-02-6	Trans-1,3-dichloropropene	ISO 17025	2.3	< 2.3	µg/m3	0.5	< 0.5	ppbv
75-25-2	Bromoform	ISO 17025	5.3	< 5.3	µg/m3	0.5	< 0.5	ppbv
79-01-6	Trichloroethene	ISO 17025	2.7	< 2.7	µg/m3	0.5	< 0.5	ppbv
75-69-4	Trichlorofluoromethane	ISO 17025	2.9	< 2.9	µg/m3	0.5	< 0.5	ppbv
76-13-1	Trichlorotrifluoroethane	ISO 17025	3.9	< 3.9	µg/m3	0.5	< 0.5	ppbv
127-18-4	Tetrachloroethene	ISO 17025	3.5	< 3.5	µg/m3	0.5	< 0.5	ppbv
109-99-9	THF	ISO 17025	1.5	43	µg/m3	0.5	14	ppbv
108-67-8	1,3,5-Trimethylbenzene	ISO 17025	2.5	< 2.5	µg/m3	0.5	< 0.5	ppbv
108-88-3	Toluene	ISO 17025	1.2	5.6	µg/m3	0.3	1.5	ppbv
108-05-4	Vinyl acetate	ISO 17025	1.8	< 1.8	µg/m3	0.5	< 0.5	ppbv
75-01-4	Vinyl chloride	ISO 17025	1.3	< 1.3	µg/m3	0.5	< 0.5	ppbv
91-20-3	Naphthalene(1)	ISO 17025	2.7	< 2.7	µg/m3	0.5	< 0.5	ppbv

- results in ug/m3 outside the scope of accreditation

(1)- AQC for this analyte was outside of acceptance limits and accreditation has been removed. Result should be viewed with caution.

CAS #	Compound Name	Accreditation	LoD	Result	Units	LoD	Result	Units
79-00-5	TPH Aliphatic C5-C6	NONE	30	< 30	µg/m3			



Report Number 2953 / 21-23718
Order number CL3308

Sample Number 2086870 Sample date 11/11/2021
Sample ID BH106 (306428) Sample Start Time -
Depth Sample Stop Time -

Canister Number 1551 Initial Pressure (PSI) -13.46
Sample Volume 5500 Final Pressure (PSI) 0.00
Dilution 2.99

75-35-4	TPH Aliphatic C6-C8	NONE	30	< 30	µg/m3			
75-34-3	TPH Aliphatic C8-C10	NONE	30	520	µg/m3			
120-82-1	TPH Aromatic C6-C7	NONE	30	< 30	µg/m3			
95-63-6	TPH Aromatic C7-C8	NONE	30	< 30	µg/m3			
106-93-4	TPH Aromatic C8-C10	NONE	30	< 30	µg/m3			
	TPH >C10-C12	ISO 17025	30	78	ug/m3			
	PRO >C5-C12	ISO 17025	30	630	ug/m3	5	100	ppbv
	TPH >C5-C6	ISO 17025	30	< 30	ug/m3			
	TPH >C6-C8	ISO 17025	30	< 30	ug/m3			
	TPH >C8-C10	ISO 17025	30	530	ug/m3			

			VOC TICS		
CAS #	Compound Name	Accreditation	Compound Name	% Match	Amount (ppbv)
	VOC TIC Match 1	None	Cyclopentanone	95	5.1
	VOC TIC Match 2	None	2,2,4,6,6-pentamethyl-Heptane	95	27
	VOC TIC Match 3	None	2,2,4,4-Tetramethyloctane	95	2.3
	VOC TIC Match 4	None	D-Limonene	86	1.8
	VOC TIC Match 5	None	2-methyl-decane	91	1.5
	VOC TIC Match 6	None	ND	-	-
	VOC TIC Match 7	None	ND	-	-
	VOC TIC Match 8	None	ND	-	-
	VOC TIC Match 9	None	ND	-	-
	VOC TIC Match 10	None	ND	-	-



Analytical Report Number : 2953 / 21-23718
Project / Site name: Colt DCS Data Centre, Hayes

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
PRO in air samples	Determination of Petroleum Range Organics in air by GC-MS	TO-15 Summa gas canister methodology	L107B-PL		ISO 17025
Tentatively identified compounds (VOC) in air	Determination of volatile organic compounds total ion count in air by GC-MS.	In-house method based on TO-15	L106B-PL		NONE
VOC in air samples	Determination of Volatile Organics Compounds in air by GC-MS	TO-15 Summa gas canister methodology	L106B-PL		ISO 17025

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

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

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

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

CERTIFICATE OF ANALYSIS



Environmental Science

MULTI-SAMPLE REPORT REFERENCE	REGISTERED DATE	RECEIVED DATE	ANALYSIS STARTED	ANALYSIS COMPLETE
2021-25-48-16:48:55	19/11/2021	19/11/2021	19/11/2021	24/11/2021

LABORATORY

i2 Analytical
Croxley Green Business Park
7 Woodshots Meadow
Watford
WD18 8YS

CUSTOMER

Concept Engineering Consultants Ltd
Unit 8 Warple Mews
Warple Way
London
W3 0RF

SAMPLE REFERENCE	WS201	CLIENT SITE	Colt DCS Data Center, Hayes
PO NUMBER	CL3318	CLIENT CODE	21/3600
DATE SAMPLED (DD/MM/YY)	17/11/2021		

Matrix: Gas Bag

Determinand	Technique	LOD	i2 Sample Number	306446
			Accreditation	
Carbon Dioxide	T385	125.0 ppmv	None	18000
Carbon Monoxide	T385	125.0 ppmv	UKAS	< 125.0
Ethane	T385	5.0 ppmv	UKAS	< 5.0
Hydrogen	T385	32.0 ppmv	UKAS	< 32.0 ¹⁷⁸
Methane	T385	5.0 ppmv	UKAS	7.5
Nitrogen	T385	5.0 %	None	79
Oxygen / Argon	T385	5.0 %	None	21

Technical Reviewer	Role
Mrs Kathryn Gleaves	Customer Services



4041

Extra Testing Information

Technique Code	Technique Name	Samples
T385	L108B-RGA	306446

Testing Location	Samples
All analysis was carried out at i2 Analytical (Poland), i2 Analytical Limited Sp z o.o, Oddział w Polsce, ul.Pionierow 39, 41-711 Ruda Slaska, Poland	306446

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Tests covered by this certificate were conducted in accordance with i2 Analytical's SOPs.

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

This is a simplified test report

This certificate should not be reproduced, except in full, without the express permission of the laboratory.

Results in black are positive/detected results. Results in gray are below the LOD or have not been found.

LOD = Limit of Determination. This is the lowest reportable limit of the test.

178 - Deviating - Analysis was undertaken outside the recommended holding times for this parameter and data may be compromised as a result.

CERTIFICATE OF ANALYSIS



Environmental Science

MULTI-SAMPLE
REPORT REFERENCE

2021-09-03-11:03:28

REGISTERED
DATE

19/11/2021

RECEIVED
DATE

19/11/2021

ANALYSIS
STARTED

19/11/2021

ANALYSIS
COMPLETE

09/12/2021

LABORATORY

i2 Analytical
Croxley Green Business Park
7 Woodshots Meadow
Watford
WD18 8YS

CUSTOMER

Concept Engineering Consultants Ltd
Unit 8 Warple Mews
Warple Way
London
W3 0RF

SAMPLE REFERENCE	WS201	CLIENT SITE	Colt DCS Data Center, Hayes
PO NUMBER	CL3318	CLIENT CODE	21/3600
DATE SAMPLED (DD/MM/YY)	17/11/2021		

Matrix: Gas Bag

Determinand	Technique	LOD	i2 Sample Number	306447
Hydrogen Sulphide	T437	0.01 %	Accreditation	None
				< 0.01

Technical Reviewer	Role
Mrs Kathryn Gleaves	Customer Services

Extra Testing Information

Technique Code	Technique Name	Samples
T437	GC/TCD/FID-Subcon	306447

Testing Location	Samples
All analysis was carried out at Marchwood Scientific Services, Unit 5 Smithfold Lane, Worsley, Manchester, M28 0GP	306447

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Tests covered by this certificate were conducted in accordance with i2 Analytical's SOPs.

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

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CERTIFICATE OF ANALYSIS



Environmental Science

MULTI-SAMPLE REPORT REFERENCE	REGISTERED DATE	RECEIVED DATE	ANALYSIS STARTED	ANALYSIS COMPLETE
2021-07-30-12:30:52	29/11/2021	29/11/2021	30/11/2021	07/12/2021

LABORATORY

i2 Analytical
Croxley Green Business Park
7 Woodshots Meadow
Watford
WD18 8YS

CUSTOMER

Concept Engineering Consultants Ltd
Unit 8 Warple Mews
Warple Way
London
W3 0RF

SAMPLE REFERENCE	BH106	CLIENT SITE	Colt DCS Data Centre, Hayes
PO NUMBER	CL3341	CLIENT CODE	21/3600
DATE SAMPLED (DD/MM/YY)	24/11/2021		

Matrix: Gas Bag

Determinand	Technique	LOD	i2 Sample Number	311297
Carbon Dioxide	T385	125.0 ppmv	None	31000
Carbon Monoxide	T385	125.0 ppmv	UKAS	< 125.0
Ethane	T385	5.0 ppmv	UKAS	< 5.0
Hydrogen	T385	32.0 ppmv	UKAS	< 32.0
Methane	T385	5.0 ppmv	UKAS	< 5.0
Nitrogen	T385	5.0 %	None	80
Oxygen / Argon	T385	5.0 %	None	15

Technical Reviewer	Role
Mrs Jeanette Abbott	Customer Service Manager



4041

Extra Testing Information

Technique Code	Technique Name	Samples
T385	L108B-RGA	311297

Testing Location	Samples
All analysis was carried out at i2 Analytical (Poland), i2 Analytical Limited Sp z o.o., Oddział w Polsce, ul.Pionierow 39, 41-711 Ruda Slaska, Poland	311297

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Tests covered by this certificate were conducted in accordance with i2 Analytical's SOPs.
Note: All assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement of uncertainty can be provided on request.
This is a simplified test report
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LOD = Limit of Determination. This is the lowest reportable limit of the test.

CERTIFICATE OF ANALYSIS



Environmental Science

MULTI-SAMPLE REPORT REFERENCE	REGISTERED DATE	RECEIVED DATE	ANALYSIS STARTED	ANALYSIS COMPLETE
2021-15-17-10:17:35	29/11/2021	29/11/2021	30/11/2021	14/12/2021

LABORATORY

i2 Analytical
Croxley Green Business Park
7 Woodshots Meadow
Watford
WD18 8YS

CUSTOMER

Concept Engineering Consultants Ltd
Unit 8 Warple Mews
Warple Way
London
W3 0RF

SAMPLE REFERENCE	BH106	CLIENT SITE	Colt DCS Data Centre, Hayes
PO NUMBER	CL3341	CLIENT CODE	21/3600
DATE SAMPLED (DD/MM/YY)	24/11/2021		

Matrix: Gas Bag

Determinand	Technique	LOD	i2 Sample Number Accreditation	311296
Hydrogen Sulphide	T437	0.01 %	None	< 0.01

Technical Reviewer	Role
Mrs Kathryn Gleaves	Customer Services

Extra Testing Information

Technique Code	Technique Name	Samples
T437	GC/TCD/FID-Subcon	311296

Testing Location	Samples
All analysis was carried out at Marchwood Scientific Services, Unit 5 Smithfold Lane, Worsley, Manchester, M28 0GP	311296

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Tests covered by this certificate were conducted in accordance with i2 Analytical's SOPs.

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

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Results in black are positive/detected results. Results in gray are below the LOD or have not been found.

LOD = Limit of Determination. This is the lowest reportable limit of the test.

**Ana Gonzalez**

Concept Engineering Consultants Ltd
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t: -**f:** -**e:** ana.gonzalez@conceptconsultants.co.uk

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

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

Analytical Report Number : 21-25588/ 2996

Project / Site name:	Colt DCS Data Centre, Hayes	Samples received on:	26/11/2021
Your job number:	21-3600	Samples instructed on/ Analysis started on:	29/11/2021
Your order number:	CL3341	Analysis completed by:	07/12/2021
Report Issue Number:	1	Report issued on:	07/12/2021
Samples Analysed:	3 gas samples		

Signed: 

Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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

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



Report Number 21-25588
Order number

Sample Number 2097208 Sample date 24/11/2021
Sample ID BH106 Sample Start Time
Depth Sample Stop Time

Canister Number 1466 Initial Pressure (PSI) -13.31
Sample Volume 5400 Final Pressure (PSI) 0.00
Dilution 3.22

CAS #	Compound Name	Accreditation	LoD	Result	Units #	LoD	Result	Units
71-55-6	1,1,1-Trichloroethane	ISO 17025	2.8	< 2.8	µg/m3	0.5	< 0.5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	ISO 17025	3.5	< 3.5	µg/m3	0.5	< 0.5	ppbv
79-00-5	1,1,2-Trichloroethane	ISO 17025	2.8	< 2.8	µg/m3	0.5	< 0.5	ppbv
75-35-4	1,1-Dichloroethene	ISO 17025	2	< 2.0	µg/m3	0.5	< 0.5	ppbv
75-34-3	1,1-Dichloroethane	ISO 17025	2.1	< 2.1	µg/m3	0.5	< 0.5	ppbv
120-82-1	1,2,4-Trichlorobenzene	ISO 17025	3.8	< 3.8	µg/m3	0.5	< 0.5	ppbv
95-63-6	1,2,4-Trimethylbenzene	ISO 17025	2.5	2.8	µg/m3	0.5	0.6	ppbv
106-93-4	1,2-Dibromoethane	ISO 17025	3.9	< 3.9	µg/m3	0.5	< 0.5	ppbv
95-50-1	1,2-Dichlorobenzene	ISO 17025	3.1	< 3.1	µg/m3	0.5	< 0.5	ppbv
107-06-2	1,2-Dichloroethane	ISO 17025	2	< 2.0	µg/m3	0.5	< 0.5	ppbv
78-87-5	1,2-Dichloropropane	ISO 17025	2.4	< 2.4	µg/m3	0.5	< 0.5	ppbv
106-99-0	1,3-Butadiene	ISO 17025	1.1	< 1.1	µg/m3	0.5	< 0.5	ppbv
541-73-1	1,3-Dichlorobenzene	ISO 17025	3.1	< 3.1	µg/m3	0.5	< 0.5	ppbv
106-46-7	1,4-Dichlorobenzene	ISO 17025	3.1	< 3.1	µg/m3	0.5	< 0.5	ppbv
123-91-1	1,4-Dioxane	ISO 17025	1.8	< 1.8	µg/m3	0.5	< 0.5	ppbv
622-96-8	4-Ethyltoluene	ISO 17025	2.5	< 2.5	µg/m3	0.5	< 0.5	ppbv
67-64-1	Acetone	ISO 17025	3.6	10	µg/m3	1.5	4.2	ppbv
107-02-8	Acrolein	ISO 17025	1.2	< 1.2	µg/m3	0.5	< 0.5	ppbv
75-27-4	Bromodichloromethane	ISO 17025	3.4	< 3.4	µg/m3	0.5	< 0.5	ppbv
100-44-7	Benzyl chloride	ISO 17025	2.6	< 2.6	µg/m3	0.5	< 0.5	ppbv
71-43-2	Benzene	ISO 17025	1	1.5	µg/m3	0.3	0.5	ppbv
74-83-9	Bromomethane	ISO 17025	2	< 2.0	µg/m3	0.5	< 0.5	ppbv
156-59-2	Cis-1,2-dichloroethene	ISO 17025	2	< 2.0	µg/m3	0.5	< 0.5	ppbv
10061-01-5	Cis-1,3-dichloropropene	ISO 17025	2.3	< 2.3	µg/m3	0.5	< 0.5	ppbv
108-90-7	Chlorobenzene	ISO 17025	2.3	< 2.3	µg/m3	0.5	< 0.5	ppbv
56-23-5	Carbon tetrachloride	ISO 17025	3.2	< 3.2	µg/m3	0.5	< 0.5	ppbv
75-15-0	Carbon disulphide	ISO 17025	1.6	25	µg/m3	0.5	7.9	ppbv
75-00-3	Chloroethane	ISO 17025	1.3	< 1.3	µg/m3	0.5	< 0.5	ppbv
67-66-3	Chloroform	ISO 17025	2.5	3.5	µg/m3	0.5	0.7	ppbv
74-87-3	Chloromethane	ISO 17025	1	1.9	µg/m3	0.5	0.9	ppbv
110-82-7	Cyclohexane	ISO 17025	1.8	< 1.8	µg/m3	0.5	< 0.5	ppbv
124-48-1	Dibromochloromethane	ISO 17025	4.3	< 4.3	µg/m3	0.5	< 0.5	ppbv
75-71-8	Dichlorodifluoromethane	ISO 17025	2.5	2.5	µg/m3	0.5	< 0.5	ppbv
75-09-2	Dichloromethane	ISO 17025	5.3	7.9	µg/m3	1.5	2.2	ppbv
76-14-2	Dichlorotetrafluoroethane	ISO 17025	3.6	< 3.6	µg/m3	0.5	< 0.5	ppbv
141-78-6	Ethyl acetate	ISO 17025	1.8	< 1.8	µg/m3	0.5	< 0.5	ppbv
100-41-4	Ethylbenzene	ISO 17025	1.3	1.4	µg/m3	0.3	0.3	ppbv
64-17-5	Ethanol	ISO 17025	2.9	< 2.9	µg/m3	1.5	< 1.5	ppbv
87-68-3	Hexachlorobutadiene	ISO 17025	5.4	< 5.4	µg/m3	0.5	< 0.5	ppbv
142-82-5	Heptane	ISO 17025	2.1	< 2.1	µg/m3	0.5	< 0.5	ppbv
110-54-3	Hexane	ISO 17025	1.8	< 1.8	µg/m3	0.5	< 0.5	ppbv
67-63-0	Isopropyl alcohol	ISO 17025	1.3	< 1.3	µg/m3	0.5	< 0.5	ppbv
591-78-6	2-Hexanone (MBK)	ISO 17025	2.1	< 2.1	µg/m3	0.5	< 0.5	ppbv
78-93-3	MEK	ISO 17025	1.5	1.7	µg/m3	0.5	0.6	ppbv
80-62-6	Methyl methacrylate	ISO 17025	2.1	< 2.1	µg/m3	0.5	< 0.5	ppbv
108-10-1	MIBK	ISO 17025	2.1	< 2.1	µg/m3	0.5	< 0.5	ppbv
1634-04-4	MTBE	ISO 17025	1.8	< 1.8	µg/m3	0.5	< 0.5	ppbv
95-47-6	O-xylene	ISO 17025	1.3	2.3	µg/m3	0.3	0.5	ppbv
	m/p-xylene	ISO 17025	1.3	3.2	µg/m3	0.3	0.7	ppbv
115-07-1	Propene	ISO 17025	0.9	< 0.9	µg/m3	0.5	< 0.5	ppbv
100-42-5	Styrene	ISO 17025	2.2	6.8	µg/m3	0.5	1.6	ppbv
156-60-5	Trans-1,2-dichloroethene	ISO 17025	2	< 2.0	µg/m3	0.5	< 0.5	ppbv
1061-02-6	Trans-1,3-dichloropropene	ISO 17025	2.3	< 2.3	µg/m3	0.5	< 0.5	ppbv
75-25-2	Bromoform	ISO 17025	5.3	< 5.3	µg/m3	0.5	< 0.5	ppbv
79-01-6	Trichloroethene	ISO 17025	2.7	3.4	µg/m3	0.5	0.6	ppbv
75-69-4	Trichlorofluoromethane	ISO 17025	2.9	< 2.9	µg/m3	0.5	< 0.5	ppbv
76-13-1	Trichlorotrifluoroethane	ISO 17025	3.9	< 3.9	µg/m3	0.5	< 0.5	ppbv
127-18-4	Tetrachloroethene	ISO 17025	3.5	< 3.5	µg/m3	0.5	< 0.5	ppbv
109-99-9	THF	ISO 17025	1.5	19	µg/m3	0.5	6.4	ppbv
108-67-8	1,3,5-Trimethylbenzene	ISO 17025	2.5	< 2.5	µg/m3	0.5	< 0.5	ppbv
108-88-3	Toluene	ISO 17025	1.2	5.8	µg/m3	0.3	1.5	ppbv
108-05-4	Vinyl acetate	ISO 17025	1.8	< 1.8	µg/m3	0.5	< 0.5	ppbv
75-01-4	Vinyl chloride	ISO 17025	1.3	< 1.3	µg/m3	0.5	< 0.5	ppbv
91-20-3	Naphthalene	ISO 17025	2.7	< 2.7	µg/m3	0.5	< 0.5	ppbv

- results in ug/m3 outside the scope of accreditation

CAS #	Compound Name	Accreditation	LoD	Result	Units	LoD	Result	Units
79-00-5	TPH Aliphatic C5-C6	NONE	30	< 30	µg/m3			
75-35-4	TPH Aliphatic C6-C8	NONE	30	< 30	µg/m3			



Report Number 21-25588
Order number

Sample Number 2097208 Sample date 24/11/2021
Sample ID BH106 Sample Start Time
Depth Sample Stop Time

Canister Number 1466 Initial Pressure (PSI) -13.31
Sample Volume 5400 Final Pressure (PSI) 0.00
Dilution 3.22

75-34-3	TPH Aliphatic C8-C10	NONE	30	< 30	µg/m3			
120-82-1	TPH Aromatic C6-C7	NONE	30	< 30	µg/m3			
95-63-6	TPH Aromatic C7-C8	NONE	30	< 30	µg/m3			
106-93-4	TPH Aromatic C8-C10	NONE	30	< 30	µg/m3			
	TPH >C10-C12	ISO 17025	30	410	ug/m3			
	PRO >C5-C12	ISO 17025	30	480	ug/m3	5	78	ppbv
	TPH >C5-C6	ISO 17025	30	< 30	ug/m3			
	TPH >C6-C8	ISO 17025	30	< 30	ug/m3			
	TPH >C8-C10	ISO 17025	30	51	ug/m3			

			VOC TICS		
CAS #	Compound Name	Accreditation	Compound Name	% Match	Amount (ppbv)
	VOC TIC Match 1	None	Decane	96	18
	VOC TIC Match 2	None	Cyclopentanone	94	2.5
	VOC TIC Match 3	None	D-Limonene	88	1.7
	VOC TIC Match 4	None	Cyclodecane	91	1.6
	VOC TIC Match 5	None	2-Methyldecane	89	1.3
	VOC TIC Match 6	None	2,2,4,4-Tetramethyloctane	94	1.2
	VOC TIC Match 7	None	N.D.	-	-
	VOC TIC Match 8	None	N.D.	-	-
	VOC TIC Match 9	None	N.D.	-	-
	VOC TIC Match 10	None	N.D.	-	-



Report Number 21-25588
Order number

Sample Number 2097209 Sample date 24/11/2021
Sample ID WS206 Sample Start Time
Depth Sample Stop Time

Canister Number 1324 Initial Pressure (PSI) -13.02
Sample Volume 5300 Final Pressure (PSI) 0.00
Dilution 3.04

CAS #	Compound Name	Accreditation	LoD	Result	Units #	LoD	Result	Units
71-55-6	1,1,1-Trichloroethane	ISO 17025	2.8	< 2.8	µg/m3	0.5	< 0.5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	ISO 17025	3.5	< 3.5	µg/m3	0.5	< 0.5	ppbv
79-00-5	1,1,2-Trichloroethane	ISO 17025	2.8	< 2.8	µg/m3	0.5	< 0.5	ppbv
75-35-4	1,1-Dichloroethene	ISO 17025	2	< 2.0	µg/m3	0.5	< 0.5	ppbv
75-34-3	1,1-Dichloroethane	ISO 17025	2.1	< 2.1	µg/m3	0.5	< 0.5	ppbv
120-82-1	1,2,4-Trichlorobenzene	ISO 17025	3.8	< 3.8	µg/m3	0.5	< 0.5	ppbv
95-63-6	1,2,4-Trimethylbenzene	ISO 17025	2.5	10	µg/m3	0.5	2.1	ppbv
106-93-4	1,2-Dibromoethane	ISO 17025	3.9	< 3.9	µg/m3	0.5	< 0.5	ppbv
95-50-1	1,2-Dichlorobenzene	ISO 17025	3.1	< 3.1	µg/m3	0.5	< 0.5	ppbv
107-06-2	1,2-Dichloroethane	ISO 17025	2	< 2.0	µg/m3	0.5	< 0.5	ppbv
78-87-5	1,2-Dichloropropane	ISO 17025	2.4	< 2.4	µg/m3	0.5	< 0.5	ppbv
106-99-0	1,3-Butadiene	ISO 17025	1.1	< 1.1	µg/m3	0.5	< 0.5	ppbv
541-73-1	1,3-Dichlorobenzene	ISO 17025	3.1	< 3.1	µg/m3	0.5	< 0.5	ppbv
106-46-7	1,4-Dichlorobenzene	ISO 17025	3.1	< 3.1	µg/m3	0.5	< 0.5	ppbv
123-91-1	1,4-Dioxane	ISO 17025	1.8	< 1.8	µg/m3	0.5	< 0.5	ppbv
622-96-8	4-Ethyltoluene	ISO 17025	2.5	12	µg/m3	0.5	2.4	ppbv
67-64-1	Acetone	ISO 17025	3.6	34	µg/m3	1.5	14	ppbv
107-02-8	Acrolein	ISO 17025	1.2	3.4	µg/m3	0.5	1.5	ppbv
75-27-4	Bromodichloromethane	ISO 17025	3.4	< 3.4	µg/m3	0.5	< 0.5	ppbv
100-44-7	Benzyl chloride	ISO 17025	2.6	< 2.6	µg/m3	0.5	< 0.5	ppbv
71-43-2	Benzene	ISO 17025	1	4.2	µg/m3	0.3	1.3	ppbv
74-83-9	Bromomethane	ISO 17025	2	< 2.0	µg/m3	0.5	< 0.5	ppbv
156-59-2	Cis-1,2-dichloroethene	ISO 17025	2	17	µg/m3	0.5	4.1	ppbv
10061-01-5	Cis-1,3-dichloropropene	ISO 17025	2.3	< 2.3	µg/m3	0.5	< 0.5	ppbv
108-90-7	Chlorobenzene	ISO 17025	2.3	< 2.3	µg/m3	0.5	< 0.5	ppbv
56-23-5	Carbon tetrachloride	ISO 17025	3.2	< 3.2	µg/m3	0.5	< 0.5	ppbv
75-15-0	Carbon disulphide	ISO 17025	1.6	5.9	µg/m3	0.5	1.9	ppbv
75-00-3	Chloroethane	ISO 17025	1.3	< 1.3	µg/m3	0.5	< 0.5	ppbv
67-66-3	Chloroform	ISO 17025	2.5	7.3	µg/m3	0.5	1.5	ppbv
74-87-3	Chloromethane	ISO 17025	1	2	µg/m3	0.5	1	ppbv
110-82-7	Cyclohexane	ISO 17025	1.8	25	µg/m3	0.5	7.2	ppbv
124-48-1	Dibromochloromethane	ISO 17025	4.3	< 4.3	µg/m3	0.5	< 0.5	ppbv
75-71-8	Dichlorodifluoromethane	ISO 17025	2.5	3.1	µg/m3	0.5	0.6	ppbv
75-09-2	Dichloromethane	ISO 17025	5.3	14	µg/m3	1.5	4	ppbv
76-14-2	Dichlorotetrafluoroethane	ISO 17025	3.6	< 3.6	µg/m3	0.5	< 0.5	ppbv
141-78-6	Ethyl acetate	ISO 17025	1.8	< 1.8	µg/m3	0.5	< 0.5	ppbv
100-41-4	Ethylbenzene	ISO 17025	1.3	38	µg/m3	0.3	8.5	ppbv
64-17-5	Ethanol	ISO 17025	2.9	4.3	µg/m3	1.5	2.2	ppbv
87-68-3	Hexachlorobutadiene	ISO 17025	5.4	< 5.4	µg/m3	0.5	< 0.5	ppbv
142-82-5	Heptane	ISO 17025	2.1	40	µg/m3	0.5	9.6	ppbv
110-54-3	Hexane	ISO 17025	1.8	9.6	µg/m3	0.5	2.7	ppbv
67-63-0	Isopropyl alcohol	ISO 17025	1.3	< 1.3	µg/m3	0.5	< 0.5	ppbv
591-78-6	2-Hexanone (MBK)	ISO 17025	2.1	< 2.1	µg/m3	0.5	< 0.5	ppbv
78-93-3	MEK	ISO 17025	1.5	7.8	µg/m3	0.5	2.6	ppbv
80-62-6	Methyl methacrylate	ISO 17025	2.1	< 2.1	µg/m3	0.5	< 0.5	ppbv
108-10-1	MIBK	ISO 17025	2.1	< 2.1	µg/m3	0.5	< 0.5	ppbv
1634-04-4	MTBE	ISO 17025	1.8	< 1.8	µg/m3	0.5	< 0.5	ppbv
95-47-6	O-xylene	ISO 17025	1.3	2.5	µg/m3	0.3	0.6	ppbv
	M/p-xylene	ISO 17025	1.3	16	µg/m3	0.3	3.6	ppbv
115-07-1	Propene	ISO 17025	0.9	< 0.9	µg/m3	0.5	< 0.5	ppbv
100-42-5	Styrene	ISO 17025	2.2	< 2.2	µg/m3	0.5	0.5	ppbv
156-60-5	Trans-1,2-dichloroethene	ISO 17025	2	< 2.0	µg/m3	0.5	< 0.5	ppbv
1061-02-6	Trans-1,3-dichloropropene	ISO 17025	2.3	< 2.3	µg/m3	0.5	< 0.5	ppbv
75-25-2	Bromoform	ISO 17025	5.3	< 5.3	µg/m3	0.5	< 0.5	ppbv
79-01-6	Trichloroethene	ISO 17025	2.7	< 2.7	µg/m3	0.5	< 0.5	ppbv
75-69-4	Trichlorofluoromethane	ISO 17025	2.9	6.1	µg/m3	0.5	1.1	ppbv
76-13-1	Trichlorotrifluoroethane	ISO 17025	3.9	< 3.9	µg/m3	0.5	< 0.5	ppbv
127-18-4	Tetrachloroethene	ISO 17025	3.5	25	µg/m3	0.5	3.6	ppbv
109-99-9	THF	ISO 17025	1.5	21	µg/m3	0.5	6.9	ppbv
108-67-8	1,3,5-Trimethylbenzene	ISO 17025	2.5	12	µg/m3	0.5	2.5	ppbv
108-88-3	Toluene	ISO 17025	1.2	4	µg/m3	0.3	1	ppbv
108-05-4	Vinyl acetate	ISO 17025	1.8	< 1.8	µg/m3	0.5	< 0.5	ppbv
75-01-4	Vinyl chloride	ISO 17025	1.3	< 1.3	µg/m3	0.5	< 0.5	ppbv
91-20-3	Naphthalene	ISO 17025	2.7	< 2.7	µg/m3	0.5	< 0.5	ppbv

- results in ug/m3 outside the scope of accreditation

CAS #	Compound Name	Accreditation	LoD	Result	Units	LoD	Result	Units
79-00-5	TPH Aliphatic C5-C6	NONE	30	< 30	µg/m3			
75-35-4	TPH Aliphatic C6-C8	NONE	30	840	µg/m3			